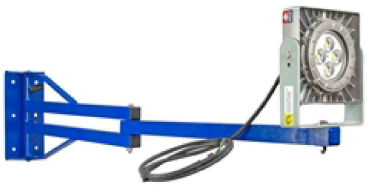
IES INDOOR REPORT
PHOTOMETRIC FILENAME : EPL-SBDL-V2-50RT-24-1227-60DB-50K.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 173027
[TESTLAB] RADIANT IMAGING PROSOURCE
[TESTDATE] 06-10-2017
[ISSUEDATE] 06-10-2017
[MANUFAC] LARSON ELECTRONICS LLC
[LUMCAT] EPL-SBDL-V2-50RT-24-1227-60DB-50K
[MORE] IRON X SERIES
[LUMINAIRE] CLASS 1 DIV 1 EXPLOSION PROOF LED DOCK LIGHT, LOW PROFILE
[MORE] 60 DEGREE BEAM, 120-277V AC 50/60 HZ, 5000K
[LAMP] CREE CXB1512
[LAMPPOSITION] 0,0
[OTHER] EVERFINE GO-R5000 V2
[_SEARCH _SOURCETYPE] LED
[_SEARCH_APPLICATION] INDOOR, OUTDOOR, HARBOR, INDUSTRIAL, WATER TREATMENT, OIL FIELD, REFINERY, HIGH
[_SEARCH _MOUNTING] CEILING, SURFACE
[_SEARCH _CERTIFICATION] NEC, UL
[_SEARCH_COLORTEMP] 5000K
[_SEARCH_CRI] 85
[_SEARCH _CLASSIFICATION] CLASS I, CLASS II, DIVISION 1, DIVISION 2, GROUP C, GROUP D, GROUP E, GROUP F, GR

CHARACTERISTICS

Lumens Per Lamp	6054.13 (1 lamp)
Total Lamp Lumens	6054.13
Luminaire Lumens	6054
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	124
Total Luminaire Watts	48.98
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.86
Spacing Criterion (90-270)	0.90
Spacing Criterion (Diagonal)	0.90
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.10 m
Luminous Width (90-270)	0.10 m
Luminous Height	0.10 m



Photometric Toolbox Professional Edition - Copyright 2002-2015 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : EPL-SBDL-V2-50RT-24-1227-60DB-50K.IES

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	103767	90464	109809
55	35142	37018	48849
65	3322	2928	3870
75	1617	1452	2093
85	66	152	325

Photometric Toolbox Professional Edition - Copyright 2002-2015 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : EPL-SBDL-V2-50RT-24-1227-60DB-50K.IES

CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0	112.5	135.0	157.5	180.0	202.5
0.0	5410.70	5410.70	5410.70	5410.70	5410.70	5410.70	5410.70	5410.70	5410.70	5410.70
0.5	5450.66	5431.83	5447.25	5422.79	5416.24	5392.88	5386.76	5368.10	5449.61	5448.34
1.0	5449.61	5434.97	5449.00	5428.46	5417.88	5397.58	5386.11	5369.73	5446.48	5439.60
1.5	5444.38	5437.06	5448.77	5431.41	5417.01	5400.30	5383.05	5368.53	5441.24	5427.92
2.0	5440.20	5436.01	5445.83	5432.50	5414.06	5399.64	5377.49	5365.91	5431.83	5415.48
2.5	5433.92	5432.87	5440.04	5431.20	5409.59	5395.39	5369.84	5361.11	5423.46	5399.64
3.0	5448.23	5428.69	5433.60	5426.83	5401.83	5390.04	5361.65	5353.57	5415.09	5384.58
3.5	5436.66	5423.46	5425.74	5422.03	5394.18	5383.71	5350.85	5344.40	5402.53	5365.58
4.0	5421.81	5415.09	5415.58	5415.48	5385.67	5375.30	5339.38	5333.71	5387.89	5346.15
4.5	5406.31	5405.68	5404.44	5406.52	5374.65	5366.45	5327.04	5320.38	5371.15	5325.08
5.0	5386.43	5393.12	5390.04	5397.02	5363.18	5355.98	5310.78	5306.63	5352.33	5300.19
5.5	5366.68	5378.47	5375.74	5384.36	5348.77	5342.76	5295.17	5289.71	5333.49	5277.37
6.0	5345.50	5360.70	5357.28	5370.49	5333.82	5329.12	5277.92	5273.66	5310.48	5252.04
6.5	5320.61	5342.91	5340.04	5356.19	5318.20	5311.76	5260.89	5256.85	5289.55	5220.16
7.0	5296.69	5321.98	5321.37	5338.95	5298.44	5295.71	5241.23	5235.12	5268.63	5189.05
7.5	5270.16	5298.97	5297.68	5322.13	5278.68	5279.55	5218.63	5214.81	5241.43	5152.69
8.0	5237.52	5279.09	5274.86	5302.48	5257.50	5260.01	5196.57	5192.65	5212.14	5118.18
8.5	5207.06	5255.03	5246.80	5278.46	5232.72	5239.92	5172.56	5166.66	5180.75	5082.17
9.0	5174.30	5225.73	5219.72	5255.64	5209.14	5218.85	5143.85	5140.24	5150.42	5039.81
9.5	5135.88	5197.49	5190.90	5231.08	5181.30	5192.86	5117.64	5109.46	5121.13	5000.17
10.0	5098.75	5162.97	5155.74	5202.81	5154.11	5168.20	5086.20	5081.29	5081.38	4959.12
10.5	5054.65	5134.73	5122.88	5175.29	5125.51	5138.82	5055.53	5051.27	5041.62	4910.31
11.0	5014.14	5102.30	5088.82	5141.77	5092.20	5111.32	5022.55	5014.58	5006.05	4863.70
11.5	4971.79	5060.45	5049.30	5109.34	5060.54	5081.84	4984.23	4978.88	4961.07	4809.44
12.0	4919.49	5024.88	5011.42	5075.29	5025.50	5046.68	4947.66	4941.32	4916.08	4759.44
12.5	4869.81	4981.99	4970.59	5036.09	4984.56	5012.84	4908.25	4897.76	4874.24	4708.02
13.0	4818.94	4939.09	4921.35	4998.86	4944.82	4975.93	4861.85	4857.15	4825.07	4648.30
13.5	4760.86	4893.07	4876.03	4959.12	4903.76	4933.90	4819.38	4814.47	4774.85	4593.93
14.0	4706.71	4844.94	4824.61	4912.94	4856.17	4893.95	4774.61	4764.57	4721.50	4530.93
14.5	4643.60	4793.69	4774.73	4869.16	4811.73	4847.21	4723.62	4718.72	4669.19	4472.75
15.0	4585.09	4744.52	4722.21	4819.27	4759.88	4804.20	4676.13	4666.20	4584.97	4413.68
15.5	4524.71	4686.98	4661.07	4771.89	4710.53	4759.11	4621.22	4616.74	4547.20	4346.75
16.0	4455.92	4635.71	4604.85	4722.21	4659.54	4706.38	4570.34	4565.54	4490.32	4284.52
16.5	4391.52	4560.41	4546.22	4663.80	4600.59	4656.05	4518.05	4506.48	4424.48	4220.22
17.0	4324.70	4495.89	4479.73	4609.43	4545.13	4599.06	4457.67	4452.11	4364.00	4148.27
17.5	4249.91	4433.01	4416.74	4552.87	4481.69	4545.68	4401.67	4389.22	4301.88	4081.57
18.0	4181.90	4360.95	4345.00	4487.92	4421.64	4490.10	4336.70	4330.81	4230.15	4013.11
18.5	4105.14	4295.11	4279.72	4427.43	4360.40	4426.56	4276.44	4272.07	4165.41	3936.36
19.0	4034.95	4227.20	4213.13	4357.78	4290.74	4367.71	4214.54	4204.28	4099.14	3866.16
19.5	3964.42	4151.76	4138.23	4293.80	4225.35	4307.12	4144.67	4141.94	4023.59	3786.47
20.0	3886.14	4083.42	4069.33	4228.73	4159.40	4238.56	4079.82	4077.96	3954.48	3714.84
20.5	3815.72	4013.55	3992.37	4154.17	4085.50	4174.36	4014.10	4005.47	3876.86	3642.57
21.0	3744.98	3936.25	3922.71	4085.28	4017.58	4108.31	3939.96	3938.76	3805.24	3561.89
21.5	3666.15	3865.72	3852.95	4015.85	3940.51	4034.08	3872.17	3863.21	3731.55	3488.41
22.0	3594.86	3786.79	3773.91	3938.55	3870.30	3966.16	3794.65	3792.47	3649.78	3415.05
22.5	3514.94	3715.72	3703.49	3868.34	3799.02	3889.52	3723.80	3721.72	3577.18	3332.40
23.0	3442.34	3644.53	3632.09	3797.27	3720.63	3819.43	3652.17	3643.23	3503.26	3258.82
23.5	3370.07	3566.59	3554.25	3718.77	3649.33	3748.79	3573.46	3572.69	3420.50	3177.92
24.0	3290.47	3494.85	3482.84	3648.13	3578.91	3670.41	3501.73	3500.21	3346.38	3105.53
24.5	3218.32	3422.91	3411.11	3570.73	3499.99	3599.66	3428.58	3419.95	3273.00	3035.22
25.0	3145.93	3343.76	3331.20	3500.64	3428.37	3528.81	3347.68	3348.12	3192.11	2958.25
25.5	3067.43	3271.81	3260.12	3429.13	3356.85	3449.76	3275.63	3275.41	3119.95	2888.92
26.0	2997.99	3191.46	3180.97	3348.23	3278.36	3377.27	3202.91	3194.94	3041.33	2814.25
26.5	2920.15	3119.29	3109.24	3275.63	3207.28	3296.69	3121.91	3123.33	2970.92	2748.31

Photometric Toolbox Professional Edition - Copyright 2002-2015 by Lighting Analysts, Inc.

Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

CANDELA TABULATION - (Cont.)

27.0	2851.26	3047.34	3037.62	3194.84	3127.59	3224.86	3051.16	3045.04	2901.26	2684.44
27.5	2783.69	2968.84	2958.58	3123.55	3056.19	3152.91	2973.32	2975.06	2826.26	2615.56
28.0	2709.55	2898.86	2887.62	3052.80	2985.55	3073.33	2903.88	2905.85	2760.64	2554.41
28.5	2644.48	2830.29	2811.52	2975.06	2907.71	3003.57	2836.41	2830.74	2696.89	2488.14
29.0	2581.05	2755.30	2744.38	2905.09	2839.15	2934.89	2763.15	2764.03	2628.21	2429.73
29.5	2511.62	2689.03	2678.66	2837.07	2772.11	2858.68	2698.42	2699.72	2567.29	2373.84
30.0	2451.13	2625.05	2607.26	2763.05	2699.39	2792.74	2634.88	2630.07	2501.14	2313.57
30.5	2386.39	2555.07	2544.69	2697.98	2635.42	2727.24	2567.19	2568.61	2442.40	2261.05
31.0	2330.71	2492.94	2483.56	2625.92	2565.54	2655.73	2506.81	2501.35	2385.95	2211.27
31.5	2275.57	2425.92	2416.30	2562.60	2502.99	2592.84	2447.20	2442.07	2325.80	2157.01
32.0	2217.39	2367.72	2358.00	2500.59	2442.51	2523.84	2382.57	2385.08	2273.39	2110.51
32.5	2168.26	2311.17	2295.23	2433.44	2377.22	2463.25	2326.13	2322.52	2222.40	2061.92
33.0	2123.49	2250.46	2241.08	2374.93	2319.80	2403.86	2265.21	2267.72	2168.59	2022.18
33.5	2077.32	2199.04	2189.54	2317.83	2258.66	2340.53	2212.47	2216.18	2121.74	1984.95
34.0	2038.55	2145.12	2135.61	2256.91	2205.49	2285.29	2162.36	2161.05	2073.06	1947.29
34.5	2002.64	2100.89	2090.30	2203.96	2154.83	2231.14	2109.63	2114.55	2031.90	1916.17
35.0	1965.74	2060.28	2048.71	2148.28	2101.55	2173.82	2065.09	2064.86	1994.56	1887.68
35.5	1935.38	2018.03	2005.91	2101.44	2057.22	2124.91	2018.90	2021.31	1956.89	1858.64
36.0	1903.51	1982.66	1971.20	2057.01	2016.72	2074.58	1979.71	1981.46	1925.55	1833.96
36.5	1876.43	1950.01	1939.10	2012.14	1975.02	2031.67	1943.47	1940.73	1896.73	1809.94
37.0	1850.89	1916.50	1906.12	1975.88	1940.96	1991.93	1907.00	1907.54	1866.71	1784.51
37.5	1824.03	1888.33	1878.39	1942.48	1909.62	1951.43	1876.54	1876.32	1841.49	1762.24
38.0	1801.10	1859.40	1849.14	1908.86	1877.41	1918.79	1848.37	1845.10	1814.53	1738.32
38.5	1776.21	1835.05	1824.03	1881.13	1850.89	1888.44	1819.12	1819.44	1792.15	1717.47
39.0	1755.03	1812.02	1800.77	1852.19	1822.93	1856.78	1795.10	1792.59	1769.55	1696.83
39.5	1734.61	1787.23	1775.99	1827.08	1799.46	1830.03	1772.17	1769.33	1745.10	1673.69
40.0	1712.88	1765.83	1755.03	1803.83	1776.64	1803.17	1747.39	1746.51	1723.37	1652.62
40.5	1693.12	1744.65	1734.50	1779.05	1752.62	1780.02	1725.88	1722.27	1701.75	1627.51
41.0	1672.81	1721.72	1712.45	1757.42	1731.55	1757.65	1702.52	1700.33	1677.40	1602.72
41.5	1650.11	1702.40	1693.02	1736.47	1708.74	1733.30	1681.34	1678.39	1654.15	1577.07
42.0	1629.91	1683.19	1671.29	1714.30	1688.76	1712.12	1659.61	1654.25	1627.18	1547.49
42.5	1606.22	1661.35	1651.75	1695.08	1669.00	1691.70	1635.04	1632.10	1601.86	1519.43
43.0	1583.62	1642.14	1632.31	1673.47	1646.94	1669.21	1612.01	1606.66	1576.09	1489.07
43.5	1559.17	1620.63	1611.35	1654.47	1626.74	1648.25	1588.32	1583.19	1546.94	1452.72
44.0	1529.36	1600.65	1591.91	1635.04	1604.47	1624.02	1561.56	1558.29	1519.86	1416.80
44.5	1499.88	1580.02	1570.85	1612.99	1578.16	1602.40	1536.67	1530.67	1490.28	1374.54
45.0	1468.11	1553.92	1544.97	1592.03	1553.59	1579.14	1507.30	1505.01	1454.14	1334.37
45.5	1430.12	1528.49	1519.31	1569.31	1528.16	1551.63	1480.02	1475.10	1418.87	1292.12
46.0	1393.22	1497.37	1488.20	1543.00	1498.35	1524.89	1450.54	1445.95	1377.17	1243.43
46.5	1354.46	1466.36	1457.63	1517.02	1469.43	1496.83	1415.38	1414.18	1337.10	1198.34
47.0	1309.15	1431.98	1423.57	1486.12	1435.36	1464.73	1380.33	1375.42	1294.85	1151.61
47.5	1265.37	1390.38	1382.52	1456.00	1402.27	1433.83	1343.33	1338.41	1245.61	1097.46
48.0	1214.94	1351.18	1343.10	1422.48	1366.25	1397.69	1300.42	1299.32	1200.09	1048.33
48.5	1168.09	1310.24	1302.27	1381.86	1324.11	1362.43	1259.81	1253.69	1153.57	998.77
49.0	1119.51	1263.08	1255.22	1343.21	1283.28	1324.54	1213.19	1211.44	1100.19	943.85
49.5	1065.25	1219.08	1210.57	1302.49	1240.70	1279.89	1169.84	1167.99	1051.71	894.72
50.0	1015.47	1172.90	1164.49	1255.32	1191.35	1238.08	1124.75	1117.00	997.45	838.71
50.5	965.35	1119.29	1111.33	1211.00	1145.39	1194.63	1072.79	1069.62	947.24	787.62
51.0	908.80	1070.05	1062.30	1165.15	1093.10	1144.30	1025.51	1017.00	896.46	736.09
51.5	857.71	1014.81	1007.07	1111.98	1045.27	1097.68	976.93	969.06	840.03	679.21
52.0	800.93	964.81	956.84	1063.62	996.58	1044.95	922.56	920.81	789.70	628.88
52.5	749.96	914.26	905.96	1009.03	941.45	996.48	873.65	866.55	734.12	579.64
53.0	699.08	857.17	849.30	958.92	891.88	947.56	824.41	817.21	683.90	547.22
53.5	642.96	805.75	797.99	909.35	841.66	893.52	770.15	768.07	633.90	478.42
54.0	592.96	754.76	747.33	853.89	785.98	844.50	720.58	713.38	579.20	428.31
54.5	557.36	697.98	691.22	803.88	735.87	790.02	665.56	664.47	531.38	384.75

Photometric Toolbox Professional Edition - Copyright 2002-2015 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

CANDELA TABULATION - (Cont.)

55.0	489.64	647.11	641.43	747.77	680.62	740.89	616.98	610.86	484.33	343.02
55.5	443.67	592.09	587.06	697.00	630.74	691.33	571.45	563.48	419.58	299.28
56.0	393.22	543.61	555.07	646.67	581.50	636.20	515.02	517.30	390.57	262.70
56.5	348.86	495.14	490.06	591.54	548.96	587.72	469.26	466.75	348.42	228.31
57.0	307.00	419.78	438.27	542.96	481.07	540.22	424.78	413.88	304.55	192.18
57.5	263.79	397.33	392.80	495.57	436.26	488.92	377.15	377.11	268.38	162.49
58.0	227.56	348.99	344.72	422.17	387.62	422.65	336.59	337.59	231.19	134.09
58.5	190.21	307.71	303.17	400.37	345.13	396.60	294.13	300.06	199.60	112.52
59.0	160.12	268.33	263.60	357.78	299.89	354.97	258.70	260.97	170.79	94.74
59.5	133.95	227.26	222.72	312.38	262.70	314.70	225.29	227.94	143.90	79.22
60.0	109.42	192.91	189.22	273.52	228.34	271.91	191.32	196.99	122.99	68.08
60.5	90.83	162.14	158.65	233.24	192.31	236.66	164.00	166.48	103.82	59.72
61.0	76.08	132.23	128.85	199.68	162.72	204.40	140.22	142.38	86.09	54.99
61.5	65.22	109.42	106.21	168.83	137.02	171.89	117.40	121.19	73.54	51.63
62.0	59.06	88.65	86.37	139.14	113.33	146.25	99.23	101.13	62.97	49.92
62.5	55.04	74.18	72.49	116.41	95.44	124.01	82.82	86.21	56.89	48.53
63.0	51.03	64.11	62.69	97.49	81.48	103.35	71.83	72.74	53.59	47.14
63.5	48.90	57.92	56.14	81.49	69.96	88.44	63.46	63.46	51.37	45.67
64.0	47.07	54.51	53.74	70.90	62.04	76.94	56.56	57.28	49.92	44.33
64.5	45.56	52.46	51.69	62.44	55.81	67.12	54.07	53.05	48.54	43.11
65.0	44.17	50.89	49.92	57.55	51.45	60.18	50.25	50.91	46.98	41.86
65.5	42.88	49.23	48.30	54.45	49.42	55.01	48.50	49.25	45.64	40.84
66.0	41.85	47.27	46.20	52.28	47.65	52.12	46.97	47.80	44.39	39.75
66.5	40.80	45.61	44.75	50.63	46.20	50.31	45.41	46.41	43.11	38.76
67.0	39.89	44.36	43.47	49.04	44.62	48.55	44.02	45.05	42.06	37.68
67.5	38.98	43.10	42.15	47.37	43.36	47.19	42.78	43.83	40.91	36.43
68.0	37.87	42.04	41.01	45.96	42.28	45.89	41.47	42.67	39.36	35.29
68.5	36.84	41.11	39.94	44.53	41.17	44.48	40.33	41.42	38.82	33.93
69.0	35.78	39.68	38.86	43.32	40.18	43.43	39.23	38.72	37.60	32.67
69.5	34.42	39.00	37.93	42.21	39.27	42.20	38.07	39.41	36.49	31.39
70.0	33.10	37.92	36.89	41.14	38.26	41.17	37.03	38.31	35.18	29.92
70.5	31.67	36.84	35.86	39.01	37.31	39.61	35.98	37.23	33.95	28.66
71.0	30.41	35.71	34.77	39.25	36.20	39.07	34.76	36.00	32.70	27.26
71.5	29.18	34.31	33.44	38.13	35.12	38.03	33.60	34.75	31.31	25.60
72.0	27.72	32.91	32.14	36.99	33.93	36.77	32.28	33.50	30.00	24.17
72.5	26.26	31.61	30.74	35.70	32.50	35.59	30.97	32.13	28.56	22.94
73.0	25.01	30.16	29.09	34.39	31.30	34.37	29.67	30.80	26.86	21.75
73.5	23.68	28.84	27.59	33.02	30.04	32.82	28.27	29.53	25.47	20.69
74.0	22.54	27.43	26.06	31.56	28.54	31.48	26.97	28.11	24.21	19.31
74.5	21.15	26.11	24.83	30.21	27.07	30.21	25.69	26.76	22.98	17.88
75.0	19.81	24.90	23.61	28.80	25.64	28.74	24.22	25.14	21.90	16.46
75.5	18.45	23.48	22.27	27.09	24.22	27.38	22.87	23.87	20.48	15.12
76.0	17.09	22.31	20.86	25.61	23.03	26.00	21.40	22.69	19.25	14.01
76.5	16.04	21.06	19.54	24.20	21.76	24.48	20.19	21.51	17.97	12.84
77.0	15.04	19.45	18.22	23.02	20.56	23.18	19.08	20.36	16.60	11.57
77.5	13.84	18.06	17.05	21.92	19.25	21.83	17.92	19.03	15.40	10.47
78.0	12.73	16.83	15.48	20.47	17.86	20.66	16.79	17.68	14.29	9.41
78.5	11.57	15.64	14.02	19.05	16.69	19.40	15.14	16.44	13.14	8.39
79.0	10.33	14.58	12.72	17.50	15.58	18.06	13.81	15.12	12.21	7.26
79.5	9.23	13.18	11.69	16.26	14.37	16.89	12.61	13.90	11.10	6.09
80.0	8.08	11.90	10.70	15.07	13.24	15.81	11.54	12.71	9.94	5.17
80.5	7.18	10.73	9.49	13.72	12.05	14.51	10.46	11.50	8.76	4.44
81.0	6.24	9.61	8.23	12.49	11.02	13.25	9.32	10.51	7.63	3.97
81.5	5.14	8.66	7.24	11.36	10.04	11.96	8.19	9.62	6.70	3.23
82.0	4.23	7.52	6.35	10.25	8.89	10.90	7.30	8.43	5.60	2.45
82.5	3.63	6.57	5.45	9.33	7.81	10.00	6.43	7.29	4.73	1.93

Photometric Toolbox Professional Edition - Copyright 2002-2015 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

CANDELA TABULATION - (Cont.)

83.0	3.02	5.72	4.50	8.03	6.80	8.88	5.32	6.23	4.00	1.21
83.5	2.16	4.85	3.98	6.92	5.80	7.78	4.45	5.40	2.91	0.75
84.0	1.52	4.11	3.40	5.97	4.88	6.78	3.79	4.66	2.20	0.42
84.5	1.21	3.11	2.90	5.14	3.99	5.74	3.33	3.87	1.79	0.13
85.0	0.71	2.51	2.27	4.41	3.52	4.97	2.81	2.93	1.24	0.03
85.5	0.39	1.90	1.62	3.39	2.74	4.09	2.14	2.22	0.88	0.01
86.0	0.21	1.26	1.15	2.71	2.00	3.08	1.61	1.53	0.63	0.00
86.5	0.05	0.88	0.72	2.18	1.47	2.47	1.09	1.22	0.43	0.00
87.0	0.04	0.57	0.25	1.53	0.96	1.76	0.51	0.73	0.30	0.00
87.5	0.00	0.31	0.07	1.07	0.54	1.30	0.15	0.42	0.16	0.00
88.0	0.00	0.27	0.05	0.73	0.35	0.88	0.06	0.36	0.16	0.00
88.5	0.00	0.15	0.00	0.43	0.09	0.54	0.00	0.26	0.12	0.00
89.0	0.00	0.15	0.00	0.32	0.03	0.37	0.00	0.20	0.13	0.00
89.5	0.00	0.14	0.00	0.26	0.01	0.28	0.00	0.13	0.09	0.00
90.0	0.00	0.08	0.00	0.16	0.00	0.22	0.00	0.09	0.10	0.00
90.5	0.00	0.10	0.00	0.12	0.00	0.15	0.00	0.10	0.09	0.00
91.0	0.00	0.14	0.00	0.11	0.00	0.13	0.00	0.04	0.09	0.00
91.5	0.00	0.11	0.00	0.11	0.00	0.11	0.00	0.04	0.11	0.00
92.0	0.00	0.05	0.00	0.08	0.00	0.11	0.00	0.07	0.10	0.00
92.5	0.00	0.07	0.00	0.09	0.00	0.09	0.00	0.08	0.09	0.00
93.0	0.00	0.07	0.00	0.11	0.00	0.08	0.00	0.10	0.09	0.00
93.5	0.00	0.08	0.00	0.10	0.00	0.10	0.00	0.07	0.05	0.00
94.0	0.00	0.06	0.00	0.05	0.00	0.09	0.00	0.08	0.07	0.00
94.5	0.00	0.05	0.00	0.07	0.00	0.06	0.00	0.06	0.05	0.00
95.0	0.00	0.05	0.00	0.06	0.00	0.06	0.00	0.05	0.04	0.00
95.5	0.00	0.05	0.00	0.05	0.00	0.05	0.00	0.06	0.06	0.00
96.0	0.00	0.03	0.00	0.02	0.00	0.05	0.00	0.05	0.04	0.00
96.5	0.00	0.06	0.00	0.04	0.00	0.05	0.00	0.05	0.07	0.00
97.0	0.00	0.03	0.00	0.05	0.00	0.05	0.00	0.05	0.03	0.00
97.5	0.00	0.05	0.00	0.03	0.00	0.03	0.00	0.06	0.03	0.00
98.0	0.00	0.02	0.00	0.02	0.00	0.02	0.00	0.06	0.08	0.00
98.5	0.00	0.02	0.00	0.03	0.00	0.04	0.00	0.03	0.05	0.00
99.0	0.00	0.02	0.00	0.03	0.00	0.02	0.00	0.01	0.03	0.00
99.5	0.00	0.03	0.00	0.03	0.00	0.03	0.00	0.03	0.04	0.00
100.0	0.00	0.04	0.00	0.03	0.00	0.03	0.00	0.02	0.04	0.00
100.5	0.00	0.04	0.00	0.01	0.00	0.05	0.00	0.01	0.05	0.00
101.0	0.00	0.02	0.00	0.02	0.00	0.06	0.00	0.01	0.07	0.00
101.5	0.00	0.02	0.00	0.00	0.00	0.04	0.00	0.04	0.06	0.00
102.0	0.00	0.01	0.00	0.03	0.00	0.04	0.00	0.03	0.06	0.00
102.5	0.00	0.03	0.00	0.03	0.00	0.02	0.00	0.04	0.06	0.00
103.0	0.00	0.04	0.00	0.03	0.00	0.01	0.00	0.05	0.02	0.00
103.5	0.00	0.02	0.00	0.01	0.00	0.02	0.00	0.02	0.04	0.00
104.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.09	0.00
104.5	0.00	0.02	0.00	0.01	0.00	0.02	0.00	0.02	0.05	0.00
105.0	0.00	0.03	0.00	0.03	0.00	0.02	0.00	0.04	0.03	0.00
105.5	0.00	0.00	0.00	0.02	0.00	0.02	0.00	0.04	0.04	0.00
106.0	0.00	0.03	0.00	0.04	0.00	0.01	0.00	0.02	0.03	0.00
106.5	0.00	0.01	0.00	0.03	0.00	0.05	0.00	0.00	0.05	0.01
107.0	0.00	0.03	0.00	0.00	0.00	0.02	0.00	0.00	0.04	0.01
107.5	0.00	0.03	0.00	0.00	0.00	0.02	0.00	0.02	0.05	0.02
108.0	0.00	0.03	0.00	0.04	0.00	0.00	0.00	0.02	0.06	0.00
108.5	0.00	0.02	0.00	0.02	0.00	0.02	0.00	0.02	0.04	0.02
109.0	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.01	0.06	0.00
109.5	0.00	0.03	0.00	0.02	0.00	0.00	0.00	0.02	0.05	0.02
110.0	0.00	0.02	0.00	0.01	0.00	0.03	0.00	0.02	0.03	0.00
110.5	0.00	0.03	0.00	0.00	0.00	0.02	0.00	0.01	0.05	0.02

Photometric Toolbox Professional Edition - Copyright 2002-2015 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

CANDELA TABULATION - (Cont.)

111.0	0.00	0.01	0.00	0.02	0.00	0.02	0.00	0.03	0.03	0.02
111.5	0.00	0.02	0.00	0.01	0.00	0.01	0.00	0.03	0.06	0.01
112.0	0.00	0.01	0.00	0.02	0.00	0.01	0.00	0.02	0.07	0.02
112.5	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.01	0.10	0.03
113.0	0.00	0.02	0.00	0.01	0.00	0.02	0.00	0.02	0.06	0.03
113.5	0.00	0.03	0.00	0.02	0.00	0.02	0.00	0.02	0.06	0.02
114.0	0.00	0.02	0.00	0.01	0.00	0.02	0.00	0.02	0.09	0.05
114.5	0.00	0.03	0.00	0.01	0.03	0.04	0.00	0.03	0.06	0.03
115.0	0.00	0.01	0.00	0.05	0.00	0.01	0.00	0.00	0.10	0.03
115.5	0.00	0.02	0.01	0.03	0.00	0.02	0.00	0.02	0.07	0.04
116.0	0.00	0.02	0.00	0.02	0.00	0.03	0.00	0.04	0.06	0.06
116.5	0.00	0.00	0.00	0.02	0.00	0.04	0.00	0.04	0.10	0.03
117.0	0.02	0.03	0.00	0.05	0.00	0.03	0.00	0.08	0.08	0.03
117.5	0.00	0.02	0.00	0.02	0.00	0.01	0.00	0.01	0.09	0.03
118.0	0.01	0.03	0.00	0.01	0.00	0.01	0.00	0.03	0.09	0.03
118.5	0.00	0.04	0.00	0.01	0.00	0.06	0.00	0.05	0.11	0.09
119.0	0.00	0.05	0.01	0.02	0.00	0.03	0.00	0.01	0.11	0.05
119.5	0.00	0.02	0.00	0.06	0.00	0.07	0.04	0.05	0.11	0.06
120.0	0.02	0.04	0.00	0.07	0.03	0.02	0.00	0.03	0.11	0.08
120.5	0.01	0.04	0.03	0.03	0.00	0.05	0.01	0.03	0.09	0.09
121.0	0.00	0.04	0.02	0.04	0.00	0.04	0.03	0.03	0.17	0.11
121.5	0.02	0.05	0.01	0.07	0.04	0.04	0.03	0.04	0.13	0.09
122.0	0.01	0.04	0.00	0.03	0.03	0.07	0.00	0.06	0.13	0.10
122.5	0.04	0.06	0.02	0.10	0.01	0.04	0.00	0.04	0.13	0.12
123.0	0.04	0.06	0.05	0.05	0.02	0.06	0.02	0.06	0.13	0.12
123.5	0.04	0.04	0.02	0.03	0.05	0.03	0.02	0.07	0.20	0.11
124.0	0.07	0.05	0.02	0.05	0.00	0.04	0.02	0.07	0.21	0.15
124.5	0.00	0.07	0.02	0.09	0.01	0.09	0.01	0.04	0.23	0.20
125.0	0.03	0.11	0.07	0.05	0.03	0.05	0.02	0.07	0.17	0.13
125.5	0.03	0.06	0.02	0.07	0.03	0.07	0.05	0.05	0.17	0.12
126.0	0.06	0.10	0.01	0.06	0.03	0.08	0.04	0.10	0.25	0.17
126.5	0.06	0.10	0.05	0.10	0.03	0.07	0.03	0.08	0.23	0.16
127.0	0.06	0.10	0.07	0.10	0.02	0.07	0.05	0.07	0.21	0.17
127.5	0.04	0.10	0.06	0.10	0.04	0.08	0.08	0.11	0.22	0.22
128.0	0.07	0.15	0.07	0.09	0.02	0.09	0.06	0.09	0.26	0.19
128.5	0.06	0.11	0.05	0.09	0.03	0.16	0.06	0.15	0.24	0.20
129.0	0.08	0.13	0.03	0.11	0.05	0.10	0.04	0.08	0.26	0.21
129.5	0.08	0.11	0.05	0.10	0.05	0.10	0.06	0.11	0.24	0.20
130.0	0.12	0.14	0.07	0.11	0.06	0.08	0.08	0.11	0.27	0.25
130.5	0.10	0.12	0.08	0.11	0.07	0.11	0.05	0.10	0.29	0.27
131.0	0.11	0.14	0.09	0.13	0.08	0.10	0.07	0.15	0.31	0.29
131.5	0.15	0.15	0.11	0.15	0.05	0.13	0.11	0.17	0.33	0.29
132.0	0.12	0.17	0.10	0.13	0.10	0.14	0.11	0.12	0.37	0.24
132.5	0.10	0.13	0.10	0.15	0.08	0.17	0.14	0.16	0.33	0.31
133.0	0.12	0.12	0.10	0.13	0.10	0.15	0.10	0.13	0.34	0.25
133.5	0.15	0.15	0.12	0.12	0.12	0.12	0.12	0.19	0.34	0.35
134.0	0.14	0.20	0.12	0.15	0.11	0.19	0.12	0.16	0.37	0.35
134.5	0.14	0.22	0.13	0.16	0.13	0.17	0.14	0.23	0.39	0.35
135.0	0.16	0.16	0.14	0.15	0.12	0.17	0.13	0.14	0.46	0.34
135.5	0.19	0.20	0.14	0.22	0.14	0.16	0.14	0.17	0.40	0.40
136.0	0.19	0.22	0.16	0.19	0.12	0.20	0.14	0.24	0.42	0.41
136.5	0.20	0.23	0.15	0.21	0.13	0.21	0.15	0.21	0.40	0.42
137.0	0.15	0.16	0.14	0.19	0.22	0.21	0.17	0.19	0.45	0.45
137.5	0.19	0.23	0.19	0.15	0.15	0.22	0.21	0.26	0.51	0.46
138.0	0.20	0.30	0.17	0.27	0.19	0.23	0.21	0.25	0.45	0.47
138.5	0.25	0.26	0.20	0.23	0.17	0.21	0.21	0.25	0.53	0.52

Photometric Toolbox Professional Edition - Copyright 2002-2015 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

CANDELA TABULATION - (Cont.)

139.0	0.27	0.28	0.17	0.24	0.20	0.27	0.22	0.29	0.53	0.50
139.5	0.24	0.30	0.20	0.24	0.23	0.24	0.21	0.17	0.53	0.57
140.0	0.32	0.36	0.23	0.24	0.25	0.30	0.23	0.29	0.58	0.56
140.5	0.26	0.27	0.26	0.23	0.24	0.26	0.28	0.29	0.58	0.59
141.0	0.31	0.30	0.26	0.27	0.23	0.30	0.29	0.26	0.65	0.60
141.5	0.27	0.29	0.31	0.27	0.24	0.26	0.23	0.27	0.60	0.60
142.0	0.33	0.32	0.30	0.27	0.27	0.28	0.29	0.32	0.64	0.59
142.5	0.34	0.35	0.29	0.33	0.27	0.33	0.30	0.35	0.64	0.64
143.0	0.36	0.31	0.27	0.30	0.27	0.37	0.33	0.37	0.67	0.67
143.5	0.37	0.34	0.35	0.33	0.32	0.40	0.32	0.35	0.66	0.75
144.0	0.36	0.40	0.31	0.31	0.32	0.37	0.33	0.39	0.67	0.64
144.5	0.38	0.35	0.29	0.33	0.33	0.37	0.36	0.39	0.73	0.70
145.0	0.37	0.37	0.36	0.36	0.38	0.39	0.37	0.41	0.75	0.70
145.5	0.40	0.44	0.38	0.36	0.33	0.40	0.37	0.44	0.76	0.72
146.0	0.46	0.44	0.42	0.44	0.39	0.45	0.37	0.44	0.75	0.77
146.5	0.42	0.41	0.41	0.40	0.40	0.46	0.40	0.50	0.79	0.74
147.0	0.47	0.46	0.41	0.48	0.40	0.46	0.44	0.49	0.80	0.82
147.5	0.48	0.53	0.39	0.43	0.40	0.41	0.49	0.49	0.80	0.78
148.0	0.53	0.46	0.44	0.45	0.44	0.48	0.50	0.48	0.84	0.88
148.5	0.53	0.56	0.50	0.45	0.45	0.48	0.47	0.48	0.88	0.88
149.0	0.56	0.56	0.44	0.51	0.50	0.54	0.49	0.53	0.84	0.90
149.5	0.56	0.54	0.50	0.51	0.53	0.61	0.51	0.56	0.89	0.87
150.0	0.62	0.50	0.53	0.53	0.50	0.57	0.58	0.60	0.86	0.94
150.5	0.60	0.61	0.53	0.52	0.53	0.58	0.61	0.59	0.93	0.89
151.0	0.70	0.59	0.59	0.54	0.61	0.59	0.57	0.64	0.90	0.96
151.5	0.65	0.63	0.61	0.59	0.58	0.56	0.61	0.63	0.97	0.99
152.0	0.64	0.60	0.63	0.58	0.58	0.63	0.57	0.65	0.90	1.00
152.5	0.62	0.69	0.65	0.67	0.60	0.64	0.64	0.74	0.99	1.02
153.0	0.70	0.62	0.69	0.61	0.62	0.67	0.63	0.68	1.03	1.00
153.5	0.68	0.68	0.67	0.63	0.66	0.73	0.69	0.74	1.03	0.99
154.0	0.72	0.66	0.69	0.66	0.66	0.64	0.68	0.77	1.07	1.07
154.5	0.74	0.78	0.70	0.71	0.64	0.71	0.74	0.78	1.11	1.03
155.0	0.72	0.77	0.71	0.70	0.71	0.71	0.78	0.80	1.04	1.01
155.5	0.77	0.77	0.74	0.75	0.79	0.74	0.73	0.85	1.10	1.14
156.0	0.80	0.80	0.73	0.76	0.76	0.78	0.77	0.83	1.07	1.14
156.5	0.82	0.80	0.76	0.74	0.76	0.83	0.77	0.84	1.09	1.07
157.0	0.83	0.87	0.76	0.85	0.78	0.80	0.78	0.85	1.11	1.15
157.5	0.85	0.83	0.79	0.80	0.87	0.82	0.85	0.86	1.09	1.11
158.0	0.84	0.82	0.80	0.87	0.87	0.89	0.85	0.89	1.16	1.12
158.5	0.89	0.89	0.87	0.77	0.87	0.82	0.88	0.89	1.11	1.18
159.0	0.90	0.94	0.81	0.86	0.85	0.88	0.85	0.95	1.21	1.20
159.5	0.88	0.98	0.87	0.92	0.87	0.88	0.92	0.92	1.15	1.14
160.0	0.98	0.98	0.87	0.87	0.89	0.88	0.94	0.98	1.24	1.18
160.5	0.96	0.98	0.89	0.94	0.94	0.93	0.96	1.05	1.23	1.18
161.0	0.98	0.97	0.94	0.99	0.95	0.94	0.97	0.99	1.23	1.24
161.5	1.03	0.98	1.00	0.95	0.98	1.01	0.95	1.00	1.22	1.26
162.0	0.96	0.98	0.96	0.98	0.94	0.97	0.98	0.98	1.22	1.30
162.5	1.01	1.04	1.04	0.95	0.95	1.04	1.06	1.03	1.21	1.27
163.0	1.01	1.01	1.03	0.99	1.03	1.03	1.07	1.07	1.20	1.31
163.5	1.02	1.06	1.05	1.02	0.96	1.04	1.06	1.08	1.29	1.20
164.0	1.06	1.01	1.05	1.12	1.01	1.12	1.04	1.05	1.22	1.24
164.5	1.10	1.05	1.02	1.07	1.01	1.04	1.06	1.11	1.29	1.21
165.0	1.16	1.08	1.06	1.03	1.15	1.07	1.12	1.13	1.29	1.24
165.5	1.07	1.09	1.10	1.04	1.02	1.05	1.10	1.15	1.27	1.33
166.0	1.06	1.13	1.06	1.13	1.12	1.08	1.13	1.13	1.29	1.31
166.5	1.20	1.16	1.08	1.08	1.13	1.17	1.06	1.12	1.33	1.35

Photometric Toolbox Professional Edition - Copyright 2002-2015 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

CANDELA TABULATION - (Cont.)

167.0	1.13	1.11	1.09	1.10	1.08	1.16	1.09	1.17	1.33	1.38
167.5	1.16	1.13	1.16	1.10	1.13	1.15	1.17	1.18	1.38	1.33
168.0	1.17	1.20	1.17	1.12	1.18	1.17	1.10	1.17	1.31	1.34
168.5	1.21	1.21	1.24	1.16	1.10	1.19	1.19	1.24	1.34	1.33
169.0	1.20	1.19	1.12	1.13	1.16	1.13	1.18	1.22	1.38	1.35
169.5	1.24	1.22	1.21	1.26	1.16	1.21	1.20	1.25	1.39	1.36
170.0	1.25	1.21	1.20	1.18	1.18	1.21	1.26	1.30	1.41	1.37
170.5	1.25	1.30	1.20	1.25	1.13	1.24	1.23	1.25	1.34	1.38
171.0	1.29	1.18	1.23	1.22	1.22	1.26	1.29	1.25	1.41	1.39
171.5	1.27	1.19	1.23	1.22	1.25	1.21	1.23	1.27	1.41	1.36
172.0	1.30	1.22	1.24	1.25	1.24	1.25	1.24	1.26	1.39	1.37
172.5	1.22	1.27	1.24	1.27	1.25	1.34	1.22	1.29	1.40	1.36
173.0	1.29	1.24	1.24	1.30	1.31	1.24	1.31	1.35	1.41	1.43
173.5	1.35	1.26	1.27	1.27	1.25	1.25	1.29	1.30	1.42	1.39
174.0	1.29	1.32	1.27	1.30	1.26	1.22	1.31	1.27	1.43	1.31
174.5	1.41	1.22	1.32	1.29	1.25	1.31	1.31	1.34	1.38	1.40
175.0	1.38	1.33	1.34	1.33	1.31	1.36	1.33	1.36	1.41	1.42
175.5	1.34	1.27	1.27	1.29	1.37	1.36	1.37	1.32	1.39	1.40
176.0	1.33	1.33	1.29	1.35	1.31	1.30	1.31	1.39	1.41	1.38
176.5	1.31	1.36	1.35	1.35	1.38	1.35	1.41	1.37	1.42	1.39
177.0	1.31	1.39	1.36	1.33	1.40	1.36	1.41	1.40	1.39	1.37
177.5	1.38	1.36	1.43	1.33	1.37	1.36	1.36	1.36	1.48	1.40
178.0	1.31	1.39	1.34	1.33	1.39	1.39	1.37	1.37	1.40	1.36
178.5	1.34	1.39	1.37	1.35	1.34	1.42	1.45	1.34	1.38	1.37
179.0	1.34	1.33	1.45	1.39	1.42	1.39	1.35	1.39	1.42	1.43
179.5	1.40	1.40	1.34	1.43	1.41	1.38	1.38	1.41	1.43	1.44
180.0	1.32	1.44	1.37	1.38	1.35	1.43	1.41	1.39	1.36	1.42

Vert. Angles	**Horizontal Angles**						
	225.0	**247.5**	**270.0**	**292.5**	**315.0**	**337.5**	**360.0**
0.0	5410.70	5410.70	5410.70	5410.70	5410.70	5410.70	5410.70
0.5	5437.42	5406.96	5405.43	5378.25	5380.43	5360.02	5450.66
1.0	5430.21	5396.04	5397.79	5369.08	5373.66	5353.47	5449.61
1.5	5420.72	5382.50	5387.53	5357.18	5366.90	5343.85	5444.38
2.0	5409.90	5368.53	5375.74	5341.67	5358.27	5332.94	5440.20
2.5	5395.50	5353.02	5361.87	5325.95	5345.06	5320.16	5433.92
3.0	5380.87	5333.59	5346.15	5308.48	5330.32	5303.78	5448.23
3.5	5364.39	5313.83	5329.66	5286.10	5312.52	5287.19	5436.66
4.0	5344.84	5289.81	5308.15	5262.95	5295.49	5268.74	5421.81
4.5	5324.86	5264.49	5285.45	5235.01	5276.38	5246.58	5406.31
5.0	5300.30	5237.09	5260.99	5208.58	5252.48	5224.42	5386.43
5.5	5276.05	5204.99	5231.73	5180.97	5229.12	5197.02	5366.68
6.0	5249.86	5173.97	5204.11	5146.36	5202.15	5170.05	5345.50
6.5	5218.63	5140.57	5173.11	5112.62	5169.62	5140.68	5320.61
7.0	5188.39	5100.61	5134.68	5077.25	5139.26	5106.07	5296.69
7.5	5155.53	5063.82	5099.08	5035.98	5107.05	5073.76	5270.16
8.0	5116.99	5020.59	5062.41	4996.02	5068.95	5039.58	5237.52
8.5	5080.42	4978.99	5018.40	4950.17	5033.03	4998.75	5207.06
9.0	5038.39	4935.65	4976.81	4905.73	4989.91	4960.43	5174.30
9.5	4996.79	4886.19	4929.20	4854.75	4949.29	4914.68	5135.88
10.0	4954.10	4839.57	4883.14	4806.82	4906.50	4871.56	5098.75
10.5	4904.75	4790.78	4835.86	4756.17	4856.17	4826.58	5054.65
11.0	4858.89	4734.00	4782.48	4698.63	4809.55	4773.52	5014.14
11.5	4811.08	4680.94	4730.62	4644.47	4754.75	4723.85	4971.79
12.0	4754.75	4620.35	4675.48	4589.34	4702.23	4671.23	4919.49

Photometric Toolbox Professional Edition - Copyright 2002-2015 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

CANDELA TABULATION - (Cont.)

12.5	4701.80	4563.46	4614.45	4524.17	4647.86	4610.96	4869.81
13.0	4642.08	4505.39	4557.79	4464.01	4585.85	4554.73	4818.94
13.5	4587.16	4438.47	4492.39	4402.11	4527.66	4490.43	4760.86
14.0	4530.60	4377.00	4432.46	4331.26	4468.81	4429.84	4706.71
14.5	4467.29	4313.34	4371.10	4265.75	4400.25	4367.71	4643.60
15.0	4407.89	4241.40	4299.15	4192.71	4337.03	4296.75	4585.09
15.5	4346.21	4176.22	4233.32	4126.00	4265.52	4231.79	4524.71
16.0	4275.24	4102.31	4167.16	4058.09	4199.47	4165.85	4455.92
16.5	4209.85	4033.63	4091.61	3980.25	4132.11	4092.05	4391.52
17.0	4136.26	3964.53	4022.40	3909.18	4055.80	4024.90	4324.70
17.5	4068.79	3887.13	3944.98	3838.21	3986.37	3949.02	4249.91
18.0	4000.89	3815.72	3873.70	3759.17	3916.82	3879.26	4181.90
18.5	3923.91	3743.99	3801.74	3687.87	3838.76	3808.84	4105.14
19.0	3853.72	3662.99	3722.81	3609.49	3768.67	3732.42	4034.95
19.5	3782.10	3591.69	3651.63	3539.50	3691.58	3663.64	3964.42
20.0	3701.74	3511.44	3580.99	3469.52	3621.60	3594.75	3886.14
20.5	3629.14	3438.74	3501.51	3390.04	3552.61	3517.56	3815.72
21.0	3557.09	3365.04	3430.44	3318.75	3474.22	3447.37	3744.98
21.5	3474.11	3282.95	3357.51	3246.81	3403.04	3368.32	3666.15
22.0	3399.76	3210.45	3276.50	3167.76	3331.42	3296.92	3594.86
22.5	3316.57	3137.96	3204.44	3097.23	3251.94	3225.84	3514.94
23.0	3243.31	3057.82	3125.41	3018.96	3180.43	3146.91	3442.34
23.5	3170.60	2987.40	3054.44	2948.75	3101.49	3076.38	3370.07
24.0	3091.23	2918.18	2984.78	2879.53	3031.62	2998.21	3290.47
24.5	3021.04	2842.42	2907.92	2805.30	2962.51	2928.78	3218.32
25.0	2943.08	2776.58	2840.34	2739.79	2885.54	2860.65	3145.93
25.5	2873.97	2705.63	2773.74	2675.38	2817.74	2786.52	3067.43
26.0	2807.38	2643.17	2701.69	2605.28	2751.26	2721.23	2997.99
26.5	2734.78	2581.38	2637.83	2543.27	2678.87	2656.82	2920.15
27.0	2670.90	2513.69	2568.71	2475.70	2614.78	2586.08	2851.26
27.5	2607.91	2453.53	2506.92	2416.85	2545.35	2523.95	2783.69
28.0	2540.55	2388.79	2446.11	2358.33	2483.89	2462.27	2709.55
28.5	2481.15	2332.46	2381.69	2295.56	2423.84	2396.22	2644.48
29.0	2423.18	2277.87	2325.25	2240.86	2359.09	2339.56	2581.05
29.5	2360.74	2218.69	2264.01	2188.57	2303.30	2278.64	2511.62
30.0	2305.71	2167.71	2210.29	2134.41	2248.72	2225.47	2451.13
30.5	2247.30	2119.45	2159.19	2089.11	2190.75	2174.59	2386.39
31.0	2196.54	2069.89	2106.25	2041.83	2142.60	2122.52	2330.71
31.5	2147.51	2028.95	2061.27	2002.52	2091.72	2078.52	2275.57
32.0	2096.09	1987.35	2019.99	1966.83	2049.14	2037.25	2217.39
32.5	2052.97	1952.85	1978.40	1930.47	2008.76	1994.89	2168.26
33.0	2013.44	1921.30	1944.77	1900.56	1968.14	1959.52	2123.49
33.5	1973.82	1888.66	1913.44	1872.07	1934.84	1926.98	2077.32
34.0	1941.60	1860.93	1880.36	1842.15	1901.22	1893.46	2038.55
34.5	1907.87	1835.27	1853.18	1817.91	1872.28	1865.62	2002.64
35.0	1879.49	1809.29	1824.79	1792.59	1844.88	1836.36	1965.74
35.5	1852.85	1786.90	1801.20	1770.09	1817.15	1811.36	1935.38
36.0	1825.45	1765.18	1778.39	1748.37	1793.45	1787.56	1903.51
36.5	1802.41	1742.36	1753.82	1725.22	1770.09	1762.67	1876.43
37.0	1780.47	1722.50	1732.64	1704.91	1745.41	1740.83	1850.89
37.5	1757.10	1700.99	1711.91	1684.72	1723.91	1719.33	1824.03
38.0	1737.12	1681.88	1690.18	1662.22	1703.38	1696.40	1801.10
38.5	1714.85	1661.68	1670.42	1642.46	1680.78	1675.55	1776.21
39.0	1695.53	1639.52	1648.58	1622.05	1660.26	1652.19	1755.03
39.5	1676.21	1619.21	1628.82	1598.03	1637.89	1631.98	1734.61
40.0	1653.49	1597.70	1608.08	1575.22	1617.68	1612.22	1712.88

Photometric Toolbox Professional Edition - Copyright 2002-2015 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

CANDELA TABULATION - (Cont.)

40.5	1632.10	1571.28	1583.40	1549.01	1596.83	1589.52	1693.12
41.0	1606.22	1545.95	1560.47	1523.90	1571.83	1568.11	1672.81
41.5	1581.77	1515.27	1535.69	1497.04	1548.46	1544.97	1650.11
42.0	1555.78	1484.82	1505.89	1464.51	1524.01	1517.68	1629.91
42.5	1524.89	1450.87	1476.52	1432.19	1495.51	1491.04	1606.22
43.0	1494.53	1409.60	1441.47	1397.26	1467.68	1459.27	1583.62
43.5	1462.10	1370.51	1406.97	1356.21	1437.54	1428.27	1559.17
44.0	1423.14	1330.12	1370.40	1317.02	1400.86	1394.31	1529.36
44.5	1385.13	1283.93	1326.73	1271.37	1365.49	1353.69	1499.88
45.0	1340.49	1240.37	1285.02	1228.14	1323.78	1314.83	1468.11
45.5	1298.46	1189.06	1241.79	1183.05	1284.16	1273.88	1430.12
46.0	1254.45	1141.02	1191.57	1130.54	1242.12	1227.16	1393.22
46.5	1203.80	1092.32	1144.30	1082.61	1192.66	1183.27	1354.46
47.0	1156.85	1037.31	1090.58	1027.92	1147.02	1132.51	1309.15
47.5	1108.92	987.52	1042.11	978.24	1100.41	1085.01	1265.37
48.0	1054.77	937.19	993.08	928.45	1048.11	1036.22	1214.94
48.5	1005.32	880.41	937.30	872.23	999.96	981.63	1168.09
49.0	949.42	828.99	887.29	821.79	945.27	932.06	1119.51
49.5	899.09	772.56	837.51	771.46	895.82	883.26	1065.25
50.0	847.88	721.35	781.61	715.23	845.26	827.90	1015.47
50.5	791.00	669.93	731.28	664.03	789.58	778.33	965.35
51.0	739.37	613.81	674.62	613.92	739.04	722.55	908.80
51.5	687.95	567.41	624.40	565.45	688.59	672.44	857.71
52.0	632.16	509.82	574.83	510.66	632.92	622.98	800.93
52.5	582.59	463.03	521.12	458.44	584.22	571.45	749.96
53.0	534.76	417.58	474.07	412.90	531.05	515.10	699.08
53.5	481.93	368.94	413.50	368.73	483.67	474.46	642.96
54.0	419.72	327.31	379.18	322.07	417.89	424.31	592.96
54.5	388.44	287.39	336.68	282.44	388.74	380.30	557.36
55.0	346.33	245.51	292.61	241.03	346.36	333.37	489.64
55.5	306.06	210.44	255.62	206.52	301.46	292.63	443.67
56.0	263.36	178.59	219.82	175.04	262.88	254.29	393.22
56.5	227.63	147.39	183.39	143.68	226.84	214.74	348.86
57.0	191.31	123.20	154.94	119.09	190.11	182.08	307.00
57.5	162.14	102.15	130.06	98.34	160.76	152.57	263.79
58.0	136.17	83.71	106.53	80.93	135.19	124.77	227.56
58.5	111.63	71.92	89.24	69.37	110.78	103.44	190.21
59.0	93.98	63.36	75.98	60.08	92.46	86.11	160.12
59.5	79.46	57.86	65.84	55.39	77.19	71.81	133.95
60.0	69.48	54.59	59.82	50.77	67.55	63.62	109.42
60.5	62.33	51.49	55.45	48.60	60.27	56.97	90.83
61.0	56.78	49.80	52.84	47.15	54.29	54.29	76.08
61.5	54.09	48.25	51.04	45.83	51.21	49.94	65.22
62.0	52.36	46.53	49.27	44.43	49.53	48.11	59.06
62.5	50.54	45.00	47.74	43.26	48.00	46.78	55.04
63.0	49.08	43.47	46.32	41.88	46.68	45.46	51.03
63.5	47.41	42.23	44.88	40.72	45.45	44.34	48.90
64.0	46.02	41.11	43.73	39.68	44.12	43.22	47.07
64.5	44.69	39.97	42.58	38.63	43.05	42.00	45.56
65.0	43.39	38.98	41.59	37.73	41.89	40.96	44.17
65.5	42.26	37.99	38.92	36.81	38.14	39.95	42.88
66.0	41.14	36.82	39.44	35.66	39.66	38.90	41.85
66.5	39.67	35.68	38.36	34.59	38.88	37.94	40.80
67.0	38.96	34.37	37.08	33.40	37.94	36.79	39.89
67.5	37.79	33.01	35.84	32.06	36.94	35.61	38.98
68.0	36.62	31.62	34.65	30.88	35.76	34.41	37.87

Photometric Toolbox Professional Edition - Copyright 2002-2015 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

CANDELA TABULATION - (Cont.)

68.5	35.48	30.18	33.35	29.51	34.57	33.09	36.84
69.0	34.05	28.87	32.11	28.18	33.14	31.74	35.78
69.5	32.65	27.38	30.74	26.86	31.78	30.37	34.42
70.0	31.28	25.94	29.05	25.26	30.38	29.05	33.10
70.5	29.76	24.47	27.58	23.94	28.90	27.82	31.67
71.0	28.32	23.09	26.15	22.56	27.54	26.49	30.41
71.5	26.79	21.98	24.79	21.44	26.27	24.97	29.18
72.0	25.54	20.93	23.68	20.28	24.78	23.62	27.72
72.5	24.29	19.54	22.39	18.87	23.32	22.14	26.26
73.0	22.86	18.16	21.17	17.66	21.78	20.92	25.01
73.5	21.54	16.85	19.92	16.48	20.61	19.71	23.68
74.0	20.30	15.48	18.55	15.18	19.56	18.28	22.54
74.5	19.00	14.39	17.31	13.92	18.13	17.03	21.15
75.0	17.63	13.11	15.95	12.71	16.67	15.84	19.81
75.5	15.83	11.99	14.79	11.39	15.32	14.60	18.45
76.0	14.49	10.89	13.75	10.40	14.03	13.27	17.09
76.5	13.36	9.72	12.66	9.47	12.89	11.80	16.04
77.0	12.38	8.79	11.67	8.50	11.48	10.69	15.04
77.5	11.25	7.77	10.51	7.38	10.32	9.69	13.84
78.0	10.04	6.50	9.21	6.21	9.35	8.62	12.73
78.5	8.78	5.49	8.09	5.30	8.41	7.60	11.57
79.0	7.81	4.69	6.97	4.53	7.44	6.59	10.33
79.5	6.80	4.06	6.01	3.95	6.37	5.59	9.23
80.0	5.82	3.54	5.07	3.31	5.36	4.72	8.08
80.5	4.97	2.78	4.15	2.70	4.59	3.97	7.18
81.0	4.20	2.09	3.16	2.03	3.95	3.47	6.24
81.5	3.35	1.62	2.47	1.42	3.05	2.89	5.14
82.0	2.69	1.00	1.80	0.82	2.42	2.14	4.23
82.5	2.07	0.57	1.39	0.40	1.79	1.63	3.63
83.0	1.60	0.30	0.97	0.14	1.20	1.06	3.02
83.5	1.05	0.10	0.75	0.05	0.81	0.50	2.16
84.0	0.67	0.02	0.48	0.02	0.48	0.16	1.52
84.5	0.52	0.00	0.31	0.00	0.26	0.01	1.21
85.0	0.28	0.00	0.22	0.00	0.24	0.00	0.71
85.5	0.26	0.00	0.19	0.00	0.17	0.00	0.39
86.0	0.17	0.00	0.12	0.00	0.10	0.00	0.21
86.5	0.11	0.00	0.15	0.00	0.08	0.00	0.05
87.0	0.09	0.00	0.08	0.00	0.13	0.00	0.04
87.5	0.12	0.00	0.11	0.00	0.15	0.00	0.00
88.0	0.13	0.00	0.09	0.00	0.13	0.00	0.00
88.5	0.11	0.00	0.08	0.00	0.07	0.00	0.00
89.0	0.08	0.00	0.11	0.00	0.07	0.00	0.00
89.5	0.09	0.00	0.07	0.00	0.08	0.00	0.00
90.0	0.11	0.00	0.06	0.00	0.08	0.00	0.00
90.5	0.13	0.00	0.07	0.00	0.05	0.00	0.00
91.0	0.09	0.00	0.06	0.00	0.05	0.00	0.00
91.5	0.06	0.00	0.07	0.00	0.07	0.00	0.00
92.0	0.07	0.00	0.05	0.00	0.07	0.00	0.00
92.5	0.03	0.00	0.06	0.00	0.05	0.00	0.00
93.0	0.06	0.00	0.09	0.00	0.05	0.00	0.00
93.5	0.05	0.00	0.04	0.00	0.07	0.00	0.00
94.0	0.05	0.00	0.05	0.00	0.05	0.00	0.00
94.5	0.04	0.00	0.04	0.00	0.05	0.00	0.00
95.0	0.05	0.00	0.04	0.00	0.03	0.00	0.00
95.5	0.08	0.00	0.02	0.00	0.05	0.00	0.00
96.0	0.05	0.00	0.05	0.00	0.04	0.00	0.00

Photometric Toolbox Professional Edition - Copyright 2002-2015 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

CANDELA TABULATION - (Cont.)

96.5	0.06	0.00	0.04	0.00	0.04	0.00	0.00
97.0	0.08	0.00	0.04	0.00	0.05	0.00	0.00
97.5	0.04	0.00	0.05	0.00	0.03	0.00	0.00
98.0	0.06	0.00	0.06	0.00	0.05	0.00	0.00
98.5	0.07	0.00	0.07	0.00	0.02	0.00	0.00
99.0	0.04	0.00	0.04	0.00	0.01	0.00	0.00
99.5	0.05	0.00	0.03	0.00	0.06	0.00	0.00
100.0	0.05	0.00	0.07	0.00	0.05	0.00	0.00
100.5	0.05	0.00	0.04	0.00	0.02	0.00	0.00
101.0	0.04	0.00	0.06	0.00	0.08	0.00	0.00
101.5	0.07	0.00	0.01	0.00	0.05	0.00	0.00
102.0	0.10	0.00	0.03	0.00	0.02	0.00	0.00
102.5	0.05	0.00	0.04	0.00	0.02	0.00	0.00
103.0	0.02	0.00	0.05	0.00	0.05	0.00	0.00
103.5	0.05	0.00	0.02	0.00	0.03	0.00	0.00
104.0	0.05	0.00	0.06	0.00	0.03	0.00	0.00
104.5	0.05	0.00	0.04	0.00	0.04	0.00	0.00
105.0	0.05	0.00	0.03	0.00	0.05	0.00	0.00
105.5	0.02	0.00	0.05	0.00	0.03	0.00	0.00
106.0	0.05	0.01	0.05	0.00	0.03	0.00	0.00
106.5	0.03	0.00	0.03	0.01	0.03	0.00	0.00
107.0	0.04	0.00	0.07	0.00	0.06	0.00	0.00
107.5	0.02	0.00	0.04	0.00	0.04	0.00	0.00
108.0	0.03	0.00	0.05	0.00	0.03	0.00	0.00
108.5	0.05	0.01	0.08	0.01	0.05	0.01	0.00
109.0	0.05	0.00	0.06	0.00	0.06	0.00	0.00
109.5	0.07	0.02	0.04	0.00	0.06	0.02	0.00
110.0	0.08	0.02	0.06	0.00	0.05	0.01	0.00
110.5	0.08	0.03	0.04	0.01	0.07	0.01	0.00
111.0	0.03	0.00	0.06	0.01	0.08	0.00	0.00
111.5	0.05	0.00	0.07	0.02	0.05	0.00	0.00
112.0	0.09	0.01	0.08	0.02	0.06	0.00	0.00
112.5	0.08	0.02	0.07	0.00	0.08	0.00	0.00
113.0	0.07	0.02	0.04	0.05	0.08	0.01	0.00
113.5	0.06	0.04	0.11	0.03	0.05	0.03	0.00
114.0	0.10	0.03	0.11	0.01	0.07	0.01	0.00
114.5	0.06	0.03	0.06	0.01	0.08	0.05	0.00
115.0	0.11	0.06	0.06	0.05	0.06	0.02	0.00
115.5	0.09	0.02	0.09	0.02	0.06	0.07	0.00
116.0	0.09	0.03	0.11	0.03	0.09	0.02	0.00
116.5	0.08	0.06	0.12	0.03	0.09	0.06	0.00
117.0	0.09	0.08	0.11	0.06	0.09	0.03	0.02
117.5	0.12	0.04	0.14	0.03	0.07	0.04	0.00
118.0	0.12	0.06	0.10	0.07	0.11	0.04	0.01
118.5	0.13	0.07	0.12	0.03	0.11	0.05	0.00
119.0	0.11	0.10	0.16	0.06	0.12	0.05	0.00
119.5	0.10	0.10	0.15	0.07	0.14	0.06	0.00
120.0	0.12	0.07	0.21	0.11	0.14	0.07	0.02
120.5	0.12	0.07	0.14	0.10	0.16	0.08	0.01
121.0	0.11	0.09	0.12	0.12	0.15	0.09	0.00
121.5	0.13	0.12	0.17	0.09	0.16	0.10	0.02
122.0	0.17	0.09	0.17	0.12	0.23	0.10	0.01
122.5	0.19	0.12	0.21	0.15	0.15	0.13	0.04
123.0	0.17	0.12	0.17	0.19	0.20	0.10	0.04
123.5	0.20	0.14	0.17	0.15	0.16	0.14	0.04
124.0	0.17	0.13	0.20	0.15	0.21	0.12	0.07

Photometric Toolbox Professional Edition - Copyright 2002-2015 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

CANDELA TABULATION - (Cont.)

124.5	0.21	0.14	0.20	0.14	0.21	0.19	0.00
125.0	0.19	0.15	0.24	0.17	0.20	0.19	0.03
125.5	0.20	0.21	0.29	0.12	0.26	0.13	0.03
126.0	0.21	0.14	0.24	0.16	0.27	0.16	0.06
126.5	0.22	0.20	0.32	0.20	0.26	0.22	0.06
127.0	0.27	0.22	0.28	0.23	0.27	0.17	0.06
127.5	0.28	0.19	0.23	0.24	0.29	0.17	0.04
128.0	0.28	0.24	0.31	0.25	0.29	0.22	0.07
128.5	0.30	0.26	0.29	0.26	0.24	0.22	0.06
129.0	0.28	0.25	0.32	0.25	0.29	0.26	0.08
129.5	0.31	0.27	0.36	0.24	0.32	0.24	0.08
130.0	0.31	0.30	0.34	0.23	0.36	0.26	0.12
130.5	0.35	0.26	0.31	0.32	0.35	0.31	0.10
131.0	0.33	0.29	0.36	0.29	0.40	0.28	0.11
131.5	0.34	0.30	0.35	0.35	0.33	0.29	0.15
132.0	0.38	0.35	0.41	0.28	0.40	0.34	0.12
132.5	0.37	0.31	0.42	0.39	0.42	0.29	0.10
133.0	0.44	0.36	0.43	0.34	0.42	0.39	0.12
133.5	0.38	0.41	0.42	0.38	0.46	0.34	0.15
134.0	0.45	0.37	0.44	0.39	0.45	0.37	0.14
134.5	0.45	0.35	0.43	0.36	0.42	0.42	0.14
135.0	0.47	0.42	0.48	0.44	0.47	0.39	0.16
135.5	0.44	0.47	0.46	0.42	0.48	0.42	0.19
136.0	0.44	0.43	0.50	0.41	0.52	0.45	0.19
136.5	0.54	0.44	0.53	0.44	0.53	0.49	0.20
137.0	0.51	0.48	0.54	0.50	0.54	0.46	0.15
137.5	0.52	0.53	0.52	0.50	0.57	0.49	0.19
138.0	0.52	0.48	0.54	0.53	0.51	0.49	0.20
138.5	0.57	0.51	0.57	0.52	0.60	0.52	0.25
139.0	0.60	0.58	0.61	0.60	0.59	0.52	0.27
139.5	0.59	0.56	0.59	0.57	0.59	0.60	0.24
140.0	0.64	0.59	0.65	0.68	0.60	0.56	0.32
140.5	0.58	0.65	0.68	0.57	0.65	0.57	0.26
141.0	0.71	0.62	0.63	0.66	0.66	0.61	0.31
141.5	0.65	0.66	0.70	0.67	0.70	0.58	0.27
142.0	0.69	0.67	0.71	0.70	0.65	0.64	0.33
142.5	0.72	0.66	0.76	0.67	0.71	0.69	0.34
143.0	0.72	0.72	0.70	0.74	0.73	0.71	0.36
143.5	0.77	0.66	0.71	0.81	0.76	0.71	0.37
144.0	0.76	0.68	0.81	0.71	0.78	0.76	0.36
144.5	0.74	0.75	0.74	0.78	0.80	0.78	0.38
145.0	0.78	0.74	0.77	0.79	0.82	0.79	0.37
145.5	0.82	0.77	0.83	0.84	0.80	0.79	0.40
146.0	0.83	0.81	0.83	0.85	0.82	0.76	0.46
146.5	0.84	0.80	0.89	0.86	0.82	0.84	0.42
147.0	0.88	0.83	0.86	0.84	0.88	0.76	0.47
147.5	0.92	0.82	0.94	0.89	0.89	0.83	0.48
148.0	0.90	0.88	0.93	0.87	0.89	0.89	0.53
148.5	0.90	0.95	0.94	0.93	0.90	0.87	0.53
149.0	0.86	0.94	0.95	0.90	0.97	0.89	0.56
149.5	0.92	0.95	0.95	0.99	0.96	0.95	0.56
150.0	1.00	0.97	0.94	0.98	0.95	0.98	0.62
150.5	0.94	0.95	0.94	1.00	1.00	0.98	0.60
151.0	0.97	1.01	1.00	1.02	1.07	1.04	0.70
151.5	0.99	1.03	1.00	0.99	1.03	1.04	0.65
152.0	1.00	0.99	1.06	1.01	1.05	1.00	0.64

Photometric Toolbox Professional Edition - Copyright 2002-2015 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

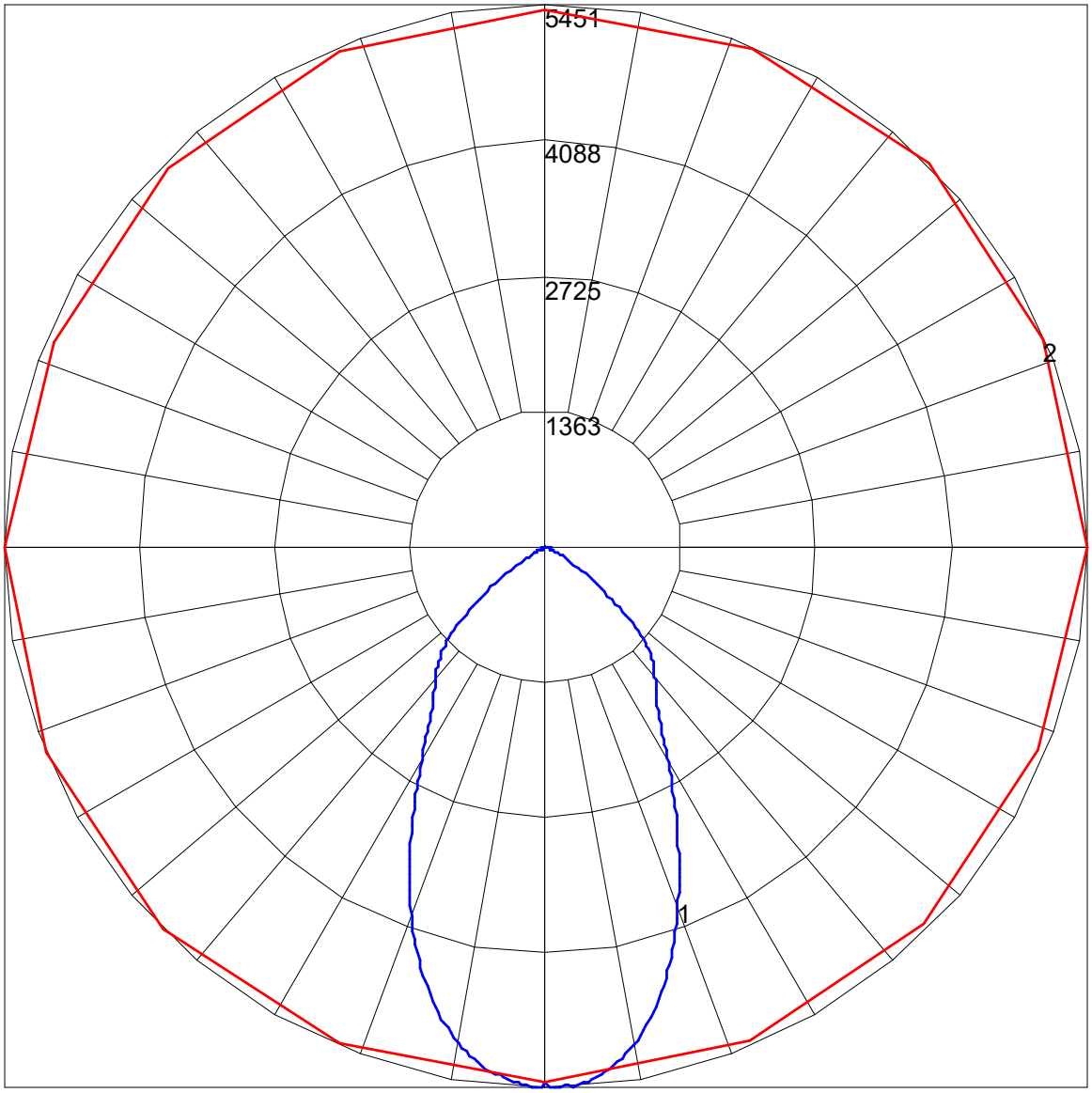
CANDELA TABULATION - (Cont.)

152.5	1.00	1.04	1.08	1.09	1.09	1.03	0.62
153.0	1.07	1.03	1.09	1.01	1.03	1.07	0.70
153.5	1.06	1.03	1.03	1.11	1.09	1.10	0.68
154.0	1.04	1.11	1.11	1.12	1.14	1.06	0.72
154.5	1.11	1.10	1.14	1.08	1.07	1.11	0.74
155.0	1.13	1.12	1.12	1.09	1.13	1.11	0.72
155.5	1.15	1.14	1.13	1.16	1.21	1.06	0.77
156.0	1.19	1.11	1.16	1.15	1.13	1.08	0.80
156.5	1.15	1.13	1.13	1.16	1.16	1.07	0.82
157.0	1.19	1.15	1.25	1.16	1.17	1.20	0.83
157.5	1.17	1.12	1.22	1.21	1.17	1.14	0.85
158.0	1.22	1.20	1.17	1.16	1.21	1.18	0.84
158.5	1.16	1.16	1.18	1.29	1.20	1.19	0.89
159.0	1.14	1.24	1.24	1.22	1.21	1.22	0.90
159.5	1.18	1.18	1.25	1.24	1.34	1.18	0.88
160.0	1.23	1.19	1.22	1.24	1.22	1.23	0.98
160.5	1.21	1.19	1.24	1.24	1.23	1.25	0.96
161.0	1.25	1.26	1.25	1.35	1.25	1.27	0.98
161.5	1.32	1.24	1.26	1.27	1.24	1.32	1.03
162.0	1.22	1.21	1.27	1.26	1.25	1.29	0.96
162.5	1.29	1.31	1.22	1.27	1.26	1.32	1.01
163.0	1.26	1.29	1.31	1.27	1.29	1.31	1.01
163.5	1.30	1.23	1.29	1.34	1.34	1.33	1.02
164.0	1.26	1.26	1.39	1.31	1.33	1.35	1.06
164.5	1.30	1.30	1.32	1.38	1.34	1.37	1.10
165.0	1.30	1.30	1.30	1.31	1.39	1.34	1.16
165.5	1.35	1.27	1.34	1.36	1.35	1.38	1.07
166.0	1.33	1.37	1.30	1.42	1.36	1.34	1.06
166.5	1.29	1.36	1.35	1.38	1.37	1.35	1.20
167.0	1.37	1.35	1.38	1.33	1.39	1.35	1.13
167.5	1.40	1.34	1.30	1.39	1.35	1.37	1.16
168.0	1.35	1.38	1.38	1.42	1.45	1.39	1.17
168.5	1.44	1.31	1.32	1.40	1.38	1.34	1.21
169.0	1.33	1.44	1.39	1.41	1.42	1.43	1.20
169.5	1.39	1.38	1.40	1.46	1.40	1.44	1.24
170.0	1.38	1.38	1.39	1.45	1.43	1.43	1.25
170.5	1.42	1.39	1.45	1.37	1.43	1.48	1.25
171.0	1.36	1.39	1.40	1.43	1.46	1.38	1.29
171.5	1.43	1.40	1.42	1.36	1.39	1.35	1.27
172.0	1.38	1.38	1.41	1.40	1.42	1.43	1.30
172.5	1.40	1.35	1.39	1.41	1.40	1.42	1.22
173.0	1.32	1.43	1.37	1.38	1.49	1.39	1.29
173.5	1.40	1.42	1.43	1.42	1.46	1.44	1.35
174.0	1.38	1.41	1.42	1.50	1.46	1.47	1.29
174.5	1.41	1.40	1.41	1.43	1.44	1.42	1.41
175.0	1.35	1.38	1.45	1.42	1.45	1.40	1.38
175.5	1.38	1.44	1.42	1.37	1.49	1.41	1.34
176.0	1.44	1.42	1.43	1.46	1.44	1.41	1.33
176.5	1.41	1.37	1.40	1.42	1.42	1.44	1.31
177.0	1.39	1.45	1.41	1.37	1.44	1.42	1.31
177.5	1.39	1.39	1.41	1.39	1.42	1.47	1.38
178.0	1.45	1.40	1.44	1.39	1.46	1.41	1.31
178.5	1.43	1.38	1.40	1.37	1.47	1.41	1.34
179.0	1.39	1.40	1.40	1.39	1.49	1.41	1.34
179.5	1.37	1.39	1.34	1.37	1.43	1.37	1.40
180.0	1.36	1.41	1.42	1.35	1.39	1.41	1.32

Photometric Toolbox Professional Edition - Copyright 2002-2015 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : EPL-SBDL-V2-50RT-24-1227-60DB-50K.IES

POLAR GRAPH



Maximum Candela = 5450.66 Located At Horizontal Angle = 0, Vertical Angle = .5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (.5) (Through Max. Cd.)

Photometric Toolbox Professional Edition - Copyright 2002-2015 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

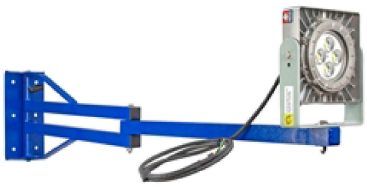
IES INDOOR REPORT
PHOTOMETRIC FILENAME : EPL-SBDL-V2-50RT-24-1227-125DB-50K.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 173032
[TESTLAB] RADIANT IMAGING PROSOURCE
[TESTDATE] 06-10-2017
[ISSUEDATE] 06-10-2017
[MANUFAC] LARSON ELECTRONICS LLC
[LUMCAT] EPL-SBDL-V2-50RT-24-1227-125DB-50K
[MORE] IRON X SERIES
[LUMINAIRE] CLASS 1 DIV 1 EXPLOSION PROOF LED DOCK LIGHT, LOW PROFILE
[MORE] 125 DEGREE BEAM, 120-277V AC 50/60 HZ, 5000K
[LAMP] CREE CXB1512
[LAMPPOSITION] 0,0
[OTHER] EVERFINE GO-R5000 V2
[_SEARCH _SOURCETYPE] LED
[_SEARCH_APPLICATION] INDOOR, OUTDOOR, HARBOR, INDUSTRIAL, WATER TREATMENT, OIL FIELD, REFINERY, HIGH
[_SEARCH _MOUNTING] CEILING, SURFACE
[_SEARCH _CERTIFICATION] NEC, UL
[_SEARCH_COLORTEMP] 5000K
[_SEARCH_CRI] 85
[_SEARCH _CLASSIFICATION] CLASS I, CLASS II, DIVISION 1, DIVISION 2, GROUP C, GROUP D, GROUP E, GROUP F, GR

CHARACTERISTICS

Lumens Per Lamp	6257.03 (1 lamp)
Total Lamp Lumens	6257.03
Luminaire Lumens	6257
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	129
Total Luminaire Watts	48.66
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.18
Spacing Criterion (Diagonal)	1.34
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.10 m
Luminous Width (90-270)	0.10 m
Luminous Height	0.10 m



Photometric Toolbox Professional Edition - Copyright 2002-2015 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : EPL-SBDL-V2-50RT-24-1227-125DB-50K.IES

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	127766	96914	115365
55	50573	32589	40058
65	19234	13772	17480
75	7791	5016	6717
85	98	31	77

Photometric Toolbox Professional Edition - Copyright 2002-2015 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : EPL-SBDL-V2-50RT-24-1227-125DB-50K.IES

CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0	112.5	135.0	157.5	180.0	202.5
0.0	3042.84	3042.84	3042.84	3042.84	3042.84	3042.84	3042.84	3042.84	3042.84	3042.84
0.5	3073.87	3062.95	3051.49	3044.18	3035.77	3029.76	3023.21	3017.31	3074.64	3063.72
1.0	3073.10	3062.51	3050.29	3043.19	3034.46	3029.11	3022.45	3017.10	3074.64	3063.83
1.5	3072.23	3061.32	3048.54	3041.99	3032.72	3028.02	3021.25	3016.88	3074.52	3063.61
2.0	3071.14	3060.22	3046.69	3040.03	3030.75	3026.93	3020.26	3016.45	3074.20	3063.28
2.5	3069.50	3058.70	3044.50	3038.18	3028.23	3025.39	3018.63	3015.58	3073.43	3062.30
3.0	3067.97	3056.41	3041.89	3035.77	3025.51	3023.21	3016.45	3014.48	3072.23	3061.21
3.5	3065.36	3054.33	3039.15	3033.03	3022.13	3020.92	3014.16	3013.06	3071.04	3060.00
4.0	3062.41	3051.71	3035.77	3030.31	3018.96	3018.52	3011.31	3011.31	3069.39	3058.37
4.5	3059.79	3048.65	3031.62	3026.81	3015.13	3015.46	3008.47	3009.46	3067.54	3056.41
5.0	3056.08	3045.70	3027.90	3022.89	3010.66	3012.51	3005.09	3006.95	3065.13	3054.22
5.5	3052.25	3041.56	3023.10	3018.96	3006.40	3008.70	3001.38	3004.21	3062.74	3051.71
6.0	3048.44	3037.73	3018.63	3014.04	3001.92	3004.11	2997.02	3000.94	3059.57	3048.77
6.5	3043.85	3033.59	3013.50	3009.57	2996.46	3000.17	2992.98	2997.88	3056.41	3045.92
7.0	3039.27	3028.35	3007.93	3004.11	2991.11	2995.48	2987.73	2994.17	3053.02	3042.21
7.5	3034.02	3023.21	3002.58	2998.87	2985.00	2989.91	2983.03	2989.70	3048.98	3038.72
8.0	3028.89	3017.97	2996.46	2993.08	2979.00	2984.68	2977.90	2985.55	3044.61	3034.24
8.5	3023.54	3011.97	2989.48	2986.86	2972.67	2978.45	2971.68	2981.07	3040.14	3029.76
9.0	3017.21	3006.18	2983.03	2980.85	2965.68	2972.77	2965.79	2975.61	3034.78	3025.07
9.5	3011.09	2999.96	2975.39	2974.19	2958.91	2966.77	2959.67	2970.48	3029.65	3019.17
10.0	3004.76	2992.75	2968.63	2966.99	2951.49	2959.67	2952.58	2964.47	3024.19	3013.93
10.5	2997.34	2986.10	2960.98	2960.11	2944.06	2953.12	2946.03	2958.70	3017.76	3007.82
11.0	2990.46	2978.34	2953.01	2951.70	2936.86	2945.59	2938.49	2952.36	3011.75	3001.92
11.5	2983.03	2970.92	2945.15	2944.28	2927.80	2938.60	2931.28	2945.15	3004.33	2995.37
12.0	2974.63	2963.60	2936.97	2936.31	2919.50	2931.07	2923.76	2938.39	2997.78	2988.06
12.5	2966.77	2954.76	2927.80	2927.47	2911.31	2922.44	2915.02	2931.40	2990.46	2981.07
13.0	2957.60	2946.79	2919.27	2918.63	2901.81	2914.47	2907.38	2923.21	2982.27	2973.76
13.5	2949.41	2938.71	2909.13	2910.43	2893.08	2906.39	2899.30	2915.89	2974.74	2965.46
14.0	2941.00	2929.32	2900.28	2900.61	2884.45	2897.00	2890.13	2907.16	2966.22	2957.60
14.5	2931.18	2920.05	2890.67	2891.66	2873.86	2888.38	2881.40	2899.41	2958.47	2949.63
15.0	2922.01	2911.42	2880.41	2882.70	2864.47	2878.44	2871.57	2891.11	2950.50	2940.57
15.5	2912.40	2901.16	2870.91	2872.01	2853.55	2869.60	2862.72	2882.05	2941.23	2932.16
16.0	2902.03	2891.77	2860.76	2862.29	2843.62	2860.22	2853.22	2873.10	2932.49	2922.44
16.5	2892.53	2880.85	2849.18	2851.26	2833.14	2849.41	2842.63	2864.26	2923.43	2913.17
17.0	2881.61	2870.69	2838.49	2840.78	2821.45	2839.25	2832.59	2853.99	2912.84	2903.78
17.5	2871.35	2860.65	2826.37	2829.98	2810.43	2828.99	2822.33	2844.60	2903.34	2892.96
18.0	2860.76	2848.97	2815.02	2817.97	2798.85	2816.98	2810.43	2833.57	2892.20	2883.14
18.5	2848.86	2838.60	2803.66	2806.93	2785.65	2806.17	2799.62	2823.64	2882.27	2872.88
19.0	2838.05	2826.15	2790.55	2795.37	2773.86	2794.92	2786.84	2813.05	2872.01	2861.19
19.5	2825.61	2814.69	2778.11	2781.94	2759.88	2782.04	2775.16	2801.59	2860.22	2850.71
20.0	2814.25	2803.55	2765.89	2769.70	2746.89	2769.93	2763.05	2790.45	2848.86	2838.60
20.5	2802.25	2790.12	2751.37	2755.40	2733.67	2756.27	2749.40	2778.00	2837.62	2827.46
21.0	2788.70	2777.57	2738.04	2742.30	2718.40	2743.50	2736.63	2765.99	2824.85	2815.67
21.5	2775.93	2764.57	2722.54	2728.99	2704.21	2730.19	2723.31	2754.09	2812.51	2802.46
22.0	2762.61	2749.62	2707.81	2713.15	2689.35	2715.01	2707.92	2740.34	2798.42	2790.01
22.5	2747.43	2735.97	2692.85	2698.85	2671.99	2700.71	2693.62	2727.35	2785.75	2777.46
23.0	2733.13	2719.93	2675.71	2683.57	2655.73	2686.18	2678.54	2713.81	2772.22	2762.72
23.5	2718.73	2705.30	2659.33	2666.20	2639.25	2668.94	2661.19	2698.75	2756.82	2749.08
24.0	2702.13	2690.34	2642.96	2649.72	2620.69	2653.11	2645.14	2684.55	2742.63	2734.88
24.5	2687.06	2672.44	2623.96	2633.13	2603.32	2634.66	2626.91	2669.48	2727.45	2718.94
25.0	2668.83	2656.27	2606.49	2614.35	2584.10	2618.06	2609.87	2652.56	2710.64	2704.42
25.5	2652.02	2639.35	2588.92	2596.67	2566.42	2601.03	2592.30	2636.41	2695.14	2687.39
26.0	2634.33	2620.03	2568.61	2576.68	2548.40	2581.49	2572.87	2619.92	2676.91	2671.02
26.5	2614.46	2601.90	2550.37	2558.56	2527.77	2563.69	2555.07	2600.70	2659.77	2654.42

Photometric Toolbox Professional Edition - Copyright 2002-2015 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

CANDELA TABULATION - (Cont.)

27.0	2596.67	2582.04	2529.52	2540.11	2509.32	2545.35	2536.40	2583.34	2642.19	2635.53
27.5	2578.32	2563.58	2510.53	2519.25	2490.76	2524.71	2516.09	2563.69	2622.21	2617.84
28.0	2557.36	2544.81	2491.74	2500.81	2469.80	2505.72	2497.31	2545.68	2604.19	2598.09
28.5	2538.59	2524.17	2470.67	2481.81	2450.91	2486.94	2476.02	2527.22	2586.08	2580.07
29.0	2517.84	2505.07	2451.35	2460.52	2430.17	2465.98	2457.24	2506.70	2565.23	2561.40
29.5	2498.62	2485.85	2432.68	2441.85	2411.39	2447.20	2438.25	2488.03	2546.34	2541.09
30.0	2479.08	2464.57	2411.50	2421.10	2393.27	2426.13	2417.50	2469.04	2525.26	2522.32
30.5	2457.57	2445.45	2392.94	2402.54	2373.40	2407.13	2398.62	2447.64	2505.83	2503.20
31.0	2438.25	2424.05	2372.85	2384.31	2356.04	2388.68	2379.94	2428.42	2486.39	2481.48
31.5	2416.74	2405.06	2355.38	2364.12	2338.79	2367.94	2359.86	2407.03	2464.34	2461.72
32.0	2397.74	2386.50	2337.59	2345.89	2319.58	2350.25	2342.18	2388.24	2445.02	2439.99
32.5	2378.97	2366.30	2318.16	2328.52	2302.87	2330.71	2323.06	2369.91	2423.62	2420.78
33.0	2359.09	2348.50	2301.24	2309.64	2286.06	2313.35	2305.82	2349.49	2404.52	2401.45
33.5	2341.62	2331.03	2284.43	2292.71	2267.50	2296.32	2289.23	2331.36	2385.95	2380.39
34.0	2324.38	2311.71	2265.75	2276.23	2251.12	2277.98	2270.77	2314.01	2366.08	2362.04
34.5	2305.28	2294.90	2249.05	2257.89	2232.99	2261.27	2254.50	2295.33	2348.50	2344.03
35.0	2288.46	2277.76	2231.91	2241.41	2216.30	2244.36	2237.91	2278.64	2331.03	2324.93
35.5	2271.43	2258.76	2212.91	2222.73	2199.49	2225.90	2219.79	2261.83	2311.93	2307.24
36.0	2252.87	2241.84	2195.88	2205.92	2181.36	2209.09	2203.08	2243.15	2295.01	2290.32
36.5	2235.62	2222.73	2176.66	2189.00	2164.43	2192.17	2184.53	2226.12	2277.76	2271.21
37.0	2216.84	2205.81	2159.63	2170.33	2147.62	2173.49	2167.93	2207.78	2258.76	2254.39
37.5	2199.70	2188.67	2141.95	2152.75	2127.43	2156.80	2151.34	2191.19	2241.73	2235.40
38.0	2182.99	2169.24	2120.55	2134.85	2107.77	2140.42	2132.78	2174.81	2223.18	2218.36
38.5	2164.00	2151.99	2100.24	2113.01	2086.82	2120.98	2115.97	2156.47	2206.35	2201.34
39.0	2146.64	2132.78	2078.95	2092.59	2062.68	2102.64	2098.38	2140.30	2189.66	2182.45
39.5	2129.50	2114.32	2053.94	2068.47	2039.97	2080.59	2077.96	2123.82	2171.10	2165.64
40.0	2109.73	2094.78	2030.26	2046.09	2013.44	2060.06	2058.21	2105.15	2154.50	2149.04
40.5	2091.18	2071.31	2001.98	2021.63	1988.34	2037.79	2034.74	2088.24	2135.94	2130.15
41.0	2068.47	2048.50	1975.34	1993.03	1960.49	2011.81	2011.26	2068.80	2119.02	2113.01
41.5	2046.42	2024.15	1946.30	1965.08	1926.54	1986.59	1986.47	2050.13	2101.55	2093.37
42.0	2022.40	1995.10	1910.71	1935.60	1893.35	1959.84	1956.68	2029.71	2081.57	2075.78
42.5	1993.14	1966.61	1876.21	1900.23	1852.85	1927.96	1927.53	2005.04	2063.12	2057.88
43.0	1964.10	1935.60	1838.55	1864.75	1814.31	1897.06	1896.19	1981.13	2043.14	2036.70
43.5	1932.76	1899.03	1794.01	1821.62	1773.37	1863.21	1857.32	1955.58	2018.79	2016.18
44.0	1893.90	1863.54	1750.99	1780.35	1725.00	1821.74	1820.09	1924.46	1994.12	1993.47
44.5	1854.37	1820.64	1701.42	1736.57	1679.36	1782.43	1776.21	1893.79	1962.68	1965.52
45.0	1807.65	1778.93	1655.13	1686.24	1632.20	1735.27	1733.19	1855.69	1930.58	1936.92
45.5	1763.43	1733.96	1606.76	1639.30	1577.40	1691.16	1688.43	1818.67	1896.09	1901.32
46.0	1717.58	1681.34	1550.97	1590.06	1526.74	1644.32	1637.11	1778.93	1854.27	1865.29
46.5	1664.30	1632.10	1498.79	1532.96	1468.77	1590.71	1588.42	1731.88	1814.63	1826.43
47.0	1614.30	1581.77	1439.62	1481.11	1415.60	1540.06	1538.09	1687.01	1772.17	1780.90
47.5	1562.11	1523.80	1385.68	1422.58	1361.23	1482.41	1480.78	1640.39	1721.62	1737.45
48.0	1503.05	1471.49	1331.09	1369.31	1300.19	1430.12	1428.27	1586.46	1674.46	1691.70
48.5	1449.45	1412.22	1269.30	1315.16	1245.06	1376.84	1368.54	1536.12	1625.43	1637.99
49.0	1388.96	1358.06	1214.06	1255.22	1189.72	1317.89	1314.18	1479.36	1569.31	1587.44
49.5	1333.39	1302.82	1158.38	1200.41	1128.90	1263.74	1259.69	1427.17	1517.35	1535.91
50.0	1277.60	1240.59	1095.93	1138.40	1073.66	1208.82	1198.67	1373.67	1458.29	1478.48
50.5	1215.58	1184.58	1040.90	1082.18	1018.85	1146.59	1142.98	1312.20	1404.14	1424.99
51.0	1159.36	1128.90	980.31	1026.50	957.93	1090.36	1087.52	1259.37	1342.45	1363.85
51.5	1102.04	1067.22	925.73	964.81	903.67	1028.46	1025.84	1197.80	1285.79	1307.84
52.0	1038.83	1011.87	871.80	910.77	844.83	973.55	970.16	1142.77	1229.13	1251.51
52.5	982.93	950.83	812.84	858.14	793.19	920.05	915.68	1087.85	1166.79	1188.08
53.0	927.59	896.69	761.52	801.48	742.42	861.42	856.08	1025.95	1110.78	1130.87
53.5	867.10	843.51	711.64	751.70	686.53	809.02	803.56	971.47	1054.12	1073.44
54.0	813.06	786.63	658.68	697.66	639.25	758.14	746.57	917.64	990.90	1010.55
54.5	754.87	736.86	612.72	650.71	596.23	703.55	696.24	858.26	935.01	954.55

Photometric Toolbox Professional Edition - Copyright 2002-2015 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

CANDELA TABULATION - (Cont.)

55.0	704.64	682.59	564.69	605.51	558.14	656.06	648.09	806.18	874.41	893.30
55.5	656.28	635.10	543.72	558.57	511.17	605.73	596.89	748.97	820.92	838.28
56.0	604.20	589.46	485.44	518.61	471.00	563.27	560.64	698.42	767.64	784.45
56.5	563.70	541.76	447.42	481.60	438.10	522.87	511.74	649.40	709.34	725.82
57.0	511.26	501.80	416.80	447.10	409.22	480.72	470.05	597.32	658.02	674.19
57.5	473.55	465.00	389.61	412.75	381.50	449.94	436.29	553.44	609.11	623.74
58.0	439.34	420.47	363.55	384.83	358.93	414.52	403.33	511.95	559.66	570.79
58.5	405.11	400.88	343.62	361.82	339.25	386.84	377.33	469.37	517.19	545.80
59.0	378.81	377.00	324.84	342.17	321.42	363.99	355.18	423.75	472.75	485.74
59.5	357.41	353.97	310.79	323.92	309.00	342.16	334.69	405.95	426.10	445.18
60.0	337.38	335.85	300.24	310.34	297.86	325.51	319.69	376.53	408.85	412.64
60.5	321.80	319.13	291.93	298.90	290.00	311.91	307.03	354.24	378.69	380.68
61.0	310.24	308.08	285.82	291.14	283.33	299.98	295.48	334.47	354.98	356.25
61.5	302.05	300.19	279.94	284.54	276.79	291.96	287.58	320.03	335.45	336.23
62.0	296.12	293.60	273.50	278.14	271.06	285.66	280.90	307.95	322.46	319.68
62.5	289.49	287.86	267.64	272.45	265.05	279.12	275.03	296.94	311.92	309.13
63.0	283.27	281.79	260.95	266.54	258.08	273.37	268.87	289.34	302.50	301.19
63.5	276.72	274.95	254.65	259.88	251.69	267.43	262.03	283.26	296.01	294.13
64.0	269.41	268.87	247.90	253.51	244.58	260.57	255.79	276.83	289.93	288.23
64.5	262.63	261.68	240.92	247.14	238.51	254.26	249.49	270.77	282.80	281.57
65.0	255.71	254.91	234.82	240.26	232.40	247.29	242.54	264.07	275.97	275.18
65.5	248.03	248.23	228.68	234.34	225.59	241.37	236.52	256.79	268.63	268.31
66.0	241.18	241.00	221.72	227.59	219.24	235.38	229.97	250.24	261.68	260.52
66.5	233.45	234.52	215.21	221.35	212.73	228.69	223.87	243.29	254.56	253.87
67.0	226.25	227.91	208.49	214.91	205.42	222.48	217.61	237.24	247.28	247.27
67.5	218.92	220.40	200.70	207.57	198.51	216.14	210.48	231.10	240.83	239.52
68.0	210.83	213.21	193.44	200.88	190.75	208.85	203.77	224.20	234.24	232.74
68.5	203.34	205.00	185.08	194.01	183.54	202.08	196.79	217.74	226.62	225.93
69.0	194.79	197.45	177.29	186.08	176.03	194.27	188.86	210.41	219.47	217.97
69.5	186.76	189.96	169.43	178.64	167.60	186.99	181.60	203.43	211.35	210.62
70.0	178.69	181.19	160.62	170.26	159.99	179.63	173.27	196.14	203.96	202.27
70.5	169.73	173.02	152.67	162.73	152.40	171.31	165.69	187.79	196.33	194.48
71.0	161.60	164.91	144.72	155.22	144.06	163.73	158.00	180.09	187.30	186.35
71.5	153.47	156.05	136.02	147.00	136.37	155.27	149.27	172.16	179.09	177.05
72.0	144.34	148.11	128.21	139.52	127.56	147.60	141.50	163.23	170.88	168.65
72.5	136.18	139.39	119.51	131.91	119.63	139.96	133.71	155.36	161.84	160.33
73.0	128.06	131.47	111.87	123.41	112.07	131.55	125.08	147.68	153.85	151.16
73.5	119.26	123.53	104.27	115.77	103.98	123.90	117.35	139.23	145.89	143.09
74.0	111.48	114.99	95.95	107.47	96.95	116.30	109.05	131.52	136.82	133.82
74.5	102.95	107.59	88.59	100.13	89.98	108.10	101.51	122.72	128.78	125.31
75.0	95.46	100.30	81.53	93.00	82.30	100.99	93.95	114.90	119.92	116.96
75.5	88.17	92.09	73.82	85.08	75.51	94.02	85.67	107.36	112.09	107.97
76.0	80.42	85.02	66.46	77.86	68.89	86.07	78.59	99.36	104.41	99.95
76.5	73.69	78.21	58.56	70.65	61.74	78.88	71.62	92.36	96.20	92.02
77.0	67.03	70.95	54.85	63.03	56.61	71.05	63.47	85.38	89.04	83.35
77.5	59.76	64.62	45.90	56.68	49.03	64.19	57.26	77.81	82.11	75.81
78.0	55.55	57.61	39.69	49.64	43.36	57.76	50.07	71.32	74.78	68.67
78.5	46.66	51.27	34.17	43.59	37.76	50.72	43.72	64.17	68.28	61.27
79.0	41.05	45.23	29.23	36.26	31.67	44.41	38.29	57.93	61.05	56.20
79.5	35.72	36.82	24.38	32.70	26.47	36.99	32.49	51.76	54.68	47.17
80.0	29.90	34.08	20.44	28.01	21.76	33.29	27.77	44.97	48.73	41.09
80.5	24.88	29.25	17.04	23.67	16.98	28.59	23.62	37.13	42.41	35.63
81.0	19.82	24.03	13.85	19.32	13.08	23.74	19.44	34.44	35.78	30.21
81.5	15.60	19.48	11.22	15.73	9.48	19.65	16.19	29.29	31.00	25.80
82.0	11.78	15.10	8.26	12.57	7.07	15.89	13.55	24.91	25.94	21.93
82.5	8.38	11.82	5.52	9.43	5.39	12.38	10.68	20.27	21.35	17.87

Photometric Toolbox Professional Edition - Copyright 2002-2015 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

CANDELA TABULATION - (Cont.)

83.0	6.11	9.00	4.09	7.02	4.27	9.68	7.97	16.36	16.70	14.30
83.5	4.48	6.50	1.97	4.76	3.01	7.13	5.02	13.01	13.04	10.95
84.0	3.15	4.63	1.20	2.86	1.87	5.13	3.77	9.92	10.06	8.23
84.5	1.97	2.57	0.73	2.07	1.19	3.08	1.99	7.53	7.59	5.63
85.0	1.06	1.75	0.47	1.68	0.83	2.25	1.18	5.46	5.72	3.98
85.5	0.66	1.51	0.27	1.45	0.53	1.71	0.88	3.16	4.23	2.21
86.0	0.46	1.17	0.12	1.09	0.27	1.36	0.53	2.22	2.46	1.36
86.5	0.23	0.92	0.04	0.78	0.08	1.10	0.21	1.69	1.82	0.77
87.0	0.11	0.72	0.00	0.44	0.00	0.77	0.09	1.33	1.44	0.40
87.5	0.00	0.44	0.00	0.33	0.00	0.47	0.01	1.06	1.12	0.21
88.0	0.00	0.27	0.00	0.26	0.00	0.29	0.00	0.70	0.84	0.09
88.5	0.00	0.27	0.00	0.23	0.00	0.27	0.00	0.47	0.52	0.01
89.0	0.00	0.19	0.00	0.24	0.00	0.28	0.00	0.36	0.32	0.01
89.5	0.00	0.25	0.00	0.22	0.00	0.25	0.00	0.27	0.33	0.00
90.0	0.00	0.24	0.00	0.19	0.00	0.17	0.00	0.24	0.26	0.00
90.5	0.00	0.20	0.00	0.19	0.00	0.20	0.00	0.20	0.29	0.00
91.0	0.00	0.16	0.00	0.17	0.02	0.16	0.00	0.20	0.19	0.00
91.5	0.00	0.21	0.00	0.13	0.00	0.16	0.00	0.19	0.23	0.00
92.0	0.00	0.15	0.00	0.16	0.00	0.15	0.01	0.16	0.20	0.00
92.5	0.00	0.13	0.00	0.12	0.00	0.11	0.00	0.16	0.20	0.00
93.0	0.00	0.09	0.00	0.15	0.00	0.14	0.00	0.15	0.15	0.00
93.5	0.00	0.13	0.00	0.10	0.00	0.13	0.00	0.13	0.21	0.00
94.0	0.00	0.10	0.00	0.11	0.00	0.12	0.00	0.20	0.14	0.00
94.5	0.00	0.10	0.00	0.07	0.00	0.11	0.00	0.13	0.19	0.00
95.0	0.00	0.07	0.00	0.09	0.00	0.15	0.00	0.07	0.14	0.01
95.5	0.00	0.07	0.00	0.10	0.00	0.09	0.00	0.10	0.12	0.00
96.0	0.00	0.08	0.00	0.11	0.00	0.10	0.00	0.12	0.13	0.00
96.5	0.00	0.09	0.00	0.08	0.00	0.07	0.00	0.11	0.10	0.00
97.0	0.00	0.08	0.00	0.07	0.01	0.10	0.00	0.07	0.10	0.00
97.5	0.00	0.06	0.00	0.08	0.00	0.10	0.00	0.05	0.10	0.00
98.0	0.00	0.08	0.00	0.09	0.00	0.06	0.00	0.12	0.12	0.00
98.5	0.00	0.05	0.00	0.05	0.00	0.10	0.00	0.11	0.14	0.01
99.0	0.00	0.08	0.00	0.05	0.00	0.06	0.00	0.07	0.09	0.00
99.5	0.00	0.06	0.00	0.06	0.00	0.09	0.00	0.08	0.10	0.00
100.0	0.00	0.06	0.00	0.03	0.00	0.07	0.00	0.04	0.08	0.00
100.5	0.00	0.05	0.00	0.06	0.00	0.08	0.00	0.08	0.11	0.02
101.0	0.00	0.05	0.00	0.06	0.00	0.08	0.00	0.07	0.10	0.00
101.5	0.00	0.07	0.00	0.02	0.00	0.07	0.00	0.08	0.09	0.01
102.0	0.00	0.11	0.00	0.05	0.00	0.10	0.00	0.04	0.10	0.00
102.5	0.00	0.04	0.00	0.02	0.00	0.07	0.00	0.04	0.08	0.00
103.0	0.00	0.08	0.00	0.06	0.00	0.04	0.00	0.05	0.11	0.00
103.5	0.00	0.08	0.00	0.05	0.00	0.07	0.00	0.02	0.08	0.00
104.0	0.00	0.07	0.00	0.06	0.00	0.08	0.00	0.03	0.11	0.00
104.5	0.00	0.05	0.00	0.08	0.00	0.03	0.00	0.05	0.06	0.00
105.0	0.00	0.05	0.00	0.03	0.00	0.05	0.00	0.06	0.12	0.02
105.5	0.00	0.06	0.00	0.07	0.00	0.06	0.00	0.06	0.08	0.00
106.0	0.00	0.05	0.00	0.06	0.00	0.06	0.00	0.06	0.12	0.02
106.5	0.00	0.03	0.00	0.05	0.00	0.05	0.00	0.03	0.11	0.02
107.0	0.00	0.04	0.00	0.08	0.00	0.06	0.00	0.06	0.08	0.00
107.5	0.00	0.04	0.00	0.07	0.00	0.07	0.01	0.07	0.12	0.00
108.0	0.00	0.08	0.00	0.07	0.00	0.06	0.00	0.06	0.12	0.01
108.5	0.00	0.04	0.00	0.05	0.00	0.08	0.00	0.07	0.10	0.02
109.0	0.00	0.11	0.00	0.07	0.03	0.08	0.00	0.06	0.11	0.01
109.5	0.00	0.07	0.00	0.04	0.03	0.08	0.00	0.06	0.10	0.04
110.0	0.00	0.08	0.03	0.07	0.00	0.05	0.01	0.06	0.13	0.02
110.5	0.01	0.08	0.00	0.08	0.01	0.08	0.00	0.09	0.12	0.03

Photometric Toolbox Professional Edition - Copyright 2002-2015 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

CANDELA TABULATION - (Cont.)

111.0	0.01	0.10	0.00	0.11	0.03	0.12	0.00	0.07	0.16	0.02
111.5	0.00	0.08	0.03	0.05	0.00	0.08	0.03	0.06	0.14	0.01
112.0	0.01	0.08	0.02	0.07	0.00	0.05	0.01	0.08	0.12	0.07
112.5	0.00	0.06	0.02	0.08	0.00	0.08	0.00	0.09	0.14	0.06
113.0	0.03	0.09	0.00	0.13	0.03	0.04	0.00	0.10	0.13	0.04
113.5	0.02	0.08	0.03	0.12	0.01	0.08	0.04	0.05	0.15	0.04
114.0	0.00	0.08	0.03	0.07	0.03	0.09	0.02	0.07	0.15	0.06
114.5	0.01	0.09	0.03	0.11	0.03	0.07	0.01	0.05	0.15	0.08
115.0	0.03	0.07	0.04	0.11	0.03	0.11	0.05	0.06	0.15	0.05
115.5	0.01	0.10	0.00	0.10	0.01	0.10	0.01	0.07	0.19	0.07
116.0	0.03	0.11	0.02	0.09	0.00	0.10	0.02	0.07	0.15	0.07
116.5	0.04	0.10	0.04	0.08	0.03	0.09	0.03	0.08	0.16	0.07
117.0	0.02	0.09	0.04	0.08	0.06	0.08	0.05	0.08	0.21	0.05
117.5	0.03	0.08	0.03	0.11	0.03	0.09	0.03	0.08	0.21	0.09
118.0	0.06	0.09	0.04	0.11	0.04	0.10	0.06	0.08	0.21	0.09
118.5	0.04	0.14	0.04	0.10	0.03	0.13	0.03	0.08	0.20	0.10
119.0	0.03	0.13	0.02	0.11	0.06	0.08	0.03	0.07	0.19	0.07
119.5	0.04	0.09	0.07	0.16	0.04	0.10	0.06	0.10	0.25	0.08
120.0	0.04	0.14	0.06	0.15	0.08	0.15	0.06	0.14	0.21	0.10
120.5	0.07	0.12	0.10	0.15	0.04	0.12	0.07	0.10	0.20	0.11
121.0	0.06	0.13	0.04	0.10	0.05	0.13	0.04	0.13	0.21	0.10
121.5	0.06	0.11	0.08	0.11	0.07	0.12	0.05	0.16	0.29	0.11
122.0	0.10	0.11	0.08	0.17	0.08	0.13	0.08	0.11	0.30	0.15
122.5	0.07	0.16	0.07	0.13	0.08	0.16	0.10	0.16	0.26	0.14
123.0	0.12	0.15	0.10	0.14	0.08	0.10	0.09	0.16	0.31	0.14
123.5	0.12	0.17	0.06	0.24	0.10	0.13	0.08	0.13	0.29	0.17
124.0	0.12	0.19	0.11	0.15	0.12	0.16	0.09	0.15	0.27	0.21
124.5	0.10	0.16	0.09	0.17	0.10	0.15	0.08	0.14	0.27	0.19
125.0	0.11	0.17	0.12	0.22	0.11	0.16	0.07	0.16	0.31	0.16
125.5	0.12	0.23	0.11	0.27	0.12	0.16	0.11	0.14	0.29	0.20
126.0	0.13	0.22	0.14	0.17	0.12	0.23	0.10	0.13	0.32	0.20
126.5	0.13	0.19	0.13	0.16	0.07	0.13	0.10	0.21	0.32	0.21
127.0	0.13	0.21	0.14	0.16	0.19	0.20	0.12	0.15	0.32	0.19
127.5	0.15	0.20	0.13	0.23	0.10	0.20	0.11	0.19	0.34	0.26
128.0	0.12	0.21	0.19	0.17	0.16	0.22	0.15	0.24	0.39	0.25
128.5	0.15	0.27	0.22	0.23	0.20	0.22	0.20	0.26	0.37	0.23
129.0	0.09	0.25	0.17	0.24	0.22	0.25	0.21	0.21	0.39	0.30
129.5	0.21	0.27	0.21	0.26	0.19	0.24	0.21	0.23	0.38	0.29
130.0	0.13	0.23	0.17	0.26	0.23	0.27	0.16	0.20	0.38	0.28
130.5	0.17	0.27	0.15	0.31	0.17	0.26	0.19	0.22	0.40	0.27
131.0	0.17	0.31	0.22	0.32	0.19	0.26	0.19	0.25	0.42	0.34
131.5	0.22	0.30	0.28	0.27	0.22	0.24	0.21	0.21	0.41	0.34
132.0	0.16	0.31	0.24	0.27	0.25	0.31	0.15	0.29	0.42	0.35
132.5	0.25	0.26	0.26	0.29	0.20	0.27	0.25	0.25	0.43	0.31
133.0	0.22	0.26	0.17	0.33	0.24	0.29	0.19	0.25	0.47	0.34
133.5	0.27	0.28	0.22	0.33	0.21	0.32	0.24	0.26	0.47	0.35
134.0	0.27	0.31	0.25	0.36	0.23	0.32	0.20	0.28	0.46	0.35
134.5	0.28	0.29	0.26	0.31	0.24	0.29	0.20	0.24	0.50	0.35
135.0	0.21	0.35	0.23	0.33	0.23	0.30	0.24	0.29	0.51	0.40
135.5	0.29	0.32	0.30	0.38	0.31	0.33	0.22	0.31	0.50	0.44
136.0	0.28	0.38	0.34	0.29	0.26	0.39	0.28	0.30	0.49	0.37
136.5	0.28	0.34	0.34	0.34	0.29	0.32	0.25	0.35	0.46	0.35
137.0	0.33	0.39	0.29	0.36	0.34	0.34	0.25	0.31	0.51	0.42
137.5	0.33	0.38	0.34	0.36	0.29	0.34	0.28	0.31	0.54	0.40
138.0	0.31	0.40	0.29	0.39	0.30	0.33	0.26	0.35	0.48	0.43
138.5	0.29	0.35	0.32	0.40	0.33	0.37	0.29	0.36	0.53	0.44

Photometric Toolbox Professional Edition - Copyright 2002-2015 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

CANDELA TABULATION - (Cont.)

139.0	0.30	0.43	0.30	0.42	0.29	0.35	0.31	0.30	0.49	0.49
139.5	0.36	0.43	0.32	0.43	0.38	0.39	0.32	0.38	0.62	0.47
140.0	0.37	0.43	0.34	0.40	0.37	0.40	0.34	0.37	0.53	0.47
140.5	0.31	0.42	0.38	0.43	0.30	0.35	0.34	0.37	0.57	0.45
141.0	0.35	0.42	0.35	0.42	0.33	0.35	0.29	0.35	0.56	0.51
141.5	0.36	0.42	0.36	0.48	0.37	0.36	0.33	0.34	0.63	0.49
142.0	0.35	0.44	0.38	0.45	0.38	0.41	0.35	0.39	0.62	0.54
142.5	0.38	0.44	0.39	0.43	0.39	0.44	0.36	0.40	0.57	0.52
143.0	0.42	0.42	0.39	0.44	0.42	0.47	0.37	0.42	0.62	0.57
143.5	0.39	0.43	0.43	0.47	0.42	0.45	0.38	0.40	0.61	0.56
144.0	0.39	0.49	0.45	0.44	0.40	0.50	0.37	0.38	0.67	0.62
144.5	0.42	0.51	0.44	0.45	0.44	0.42	0.40	0.40	0.62	0.59
145.0	0.44	0.52	0.40	0.52	0.46	0.47	0.38	0.40	0.66	0.58
145.5	0.47	0.48	0.43	0.51	0.51	0.45	0.42	0.43	0.70	0.60
146.0	0.49	0.51	0.46	0.50	0.52	0.48	0.38	0.44	0.66	0.66
146.5	0.44	0.56	0.43	0.51	0.48	0.47	0.42	0.46	0.74	0.59
147.0	0.51	0.57	0.48	0.53	0.45	0.49	0.47	0.41	0.73	0.59
147.5	0.51	0.60	0.52	0.56	0.49	0.50	0.43	0.51	0.69	0.65
148.0	0.47	0.61	0.50	0.58	0.47	0.49	0.41	0.57	0.74	0.67
148.5	0.51	0.58	0.54	0.56	0.49	0.56	0.50	0.57	0.76	0.64
149.0	0.47	0.57	0.57	0.54	0.56	0.54	0.54	0.52	0.76	0.66
149.5	0.56	0.60	0.53	0.58	0.54	0.54	0.53	0.51	0.76	0.65
150.0	0.51	0.61	0.53	0.62	0.54	0.58	0.48	0.56	0.73	0.67
150.5	0.58	0.65	0.53	0.59	0.57	0.57	0.51	0.51	0.75	0.73
151.0	0.58	0.68	0.61	0.65	0.58	0.60	0.52	0.57	0.74	0.72
151.5	0.61	0.63	0.64	0.65	0.60	0.65	0.54	0.54	0.75	0.65
152.0	0.65	0.67	0.58	0.61	0.63	0.63	0.54	0.54	0.78	0.77
152.5	0.69	0.68	0.65	0.67	0.66	0.60	0.64	0.51	0.77	0.75
153.0	0.58	0.66	0.67	0.64	0.62	0.64	0.60	0.64	0.81	0.75
153.5	0.68	0.70	0.63	0.70	0.59	0.65	0.62	0.60	0.73	0.72
154.0	0.64	0.70	0.68	0.67	0.64	0.65	0.56	0.59	0.86	0.76
154.5	0.64	0.66	0.64	0.69	0.63	0.68	0.58	0.64	0.84	0.76
155.0	0.67	0.74	0.66	0.69	0.64	0.68	0.64	0.66	0.82	0.77
155.5	0.72	0.69	0.71	0.72	0.70	0.68	0.64	0.64	0.86	0.78
156.0	0.77	0.73	0.71	0.69	0.69	0.72	0.66	0.63	0.86	0.85
156.5	0.72	0.74	0.71	0.79	0.67	0.69	0.66	0.68	0.87	0.77
157.0	0.69	0.74	0.73	0.73	0.70	0.74	0.65	0.65	0.87	0.81
157.5	0.74	0.74	0.70	0.66	0.68	0.77	0.65	0.70	0.78	0.89
158.0	0.74	0.85	0.68	0.73	0.79	0.72	0.65	0.71	0.87	0.79
158.5	0.71	0.74	0.75	0.79	0.76	0.72	0.63	0.70	0.83	0.80
159.0	0.71	0.82	0.73	0.77	0.70	0.74	0.63	0.71	0.85	0.80
159.5	0.77	0.77	0.76	0.81	0.72	0.76	0.74	0.77	0.92	0.79
160.0	0.71	0.78	0.77	0.77	0.72	0.77	0.68	0.78	0.92	0.84
160.5	0.68	0.75	0.77	0.79	0.75	0.78	0.72	0.72	0.95	0.84
161.0	0.82	0.80	0.80	0.78	0.78	0.79	0.69	0.68	0.84	0.89
161.5	0.83	0.79	0.81	0.77	0.76	0.74	0.72	0.78	0.89	0.85
162.0	0.77	0.87	0.84	0.81	0.73	0.83	0.74	0.73	0.92	0.85
162.5	0.78	0.80	0.85	0.78	0.74	0.79	0.79	0.72	0.94	0.86
163.0	0.81	0.86	0.80	0.83	0.82	0.79	0.82	0.79	0.97	0.85
163.5	0.83	0.82	0.82	0.77	0.76	0.82	0.76	0.77	0.89	0.88
164.0	0.79	0.88	0.81	0.82	0.82	0.83	0.76	0.79	0.89	0.88
164.5	0.84	0.86	0.76	0.81	0.79	0.81	0.76	0.77	0.89	0.87
165.0	0.85	0.90	0.83	0.80	0.75	0.79	0.80	0.77	0.96	0.84
165.5	0.84	0.89	0.79	0.92	0.82	0.80	0.75	0.82	0.97	0.94
166.0	0.82	0.87	0.89	0.87	0.80	0.81	0.78	0.84	0.89	0.90
166.5	0.85	0.84	0.87	0.87	0.82	0.81	0.82	0.80	0.93	0.92

Photometric Toolbox Professional Edition - Copyright 2002-2015 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

CANDELA TABULATION - (Cont.)

167.0	0.90	0.88	0.84	0.89	0.83	0.82	0.87	0.81	0.97	0.89
167.5	0.86	0.90	0.94	0.87	0.82	0.87	0.82	0.83	0.95	0.87
168.0	0.86	0.88	0.87	0.89	0.81	0.86	0.80	0.82	0.99	0.90
168.5	0.83	0.88	0.94	0.87	0.85	0.82	0.85	0.82	0.97	0.99
169.0	0.85	0.89	0.85	0.86	0.87	0.84	0.82	0.82	0.92	0.88
169.5	0.92	0.92	0.90	0.95	0.87	0.92	0.77	0.85	0.98	0.93
170.0	0.83	0.88	0.85	0.87	0.84	0.81	0.87	0.86	0.98	0.89
170.5	0.92	0.89	0.89	0.89	0.85	0.89	0.86	0.84	0.95	0.90
171.0	0.87	0.97	0.88	0.87	0.90	0.87	0.82	0.88	0.93	0.93
171.5	0.88	0.96	0.90	0.88	0.88	0.85	0.81	0.84	1.03	0.97
172.0	0.89	0.92	0.89	0.90	0.86	0.90	0.90	0.84	0.96	0.94
172.5	0.94	0.88	0.88	0.88	0.90	0.94	0.89	0.83	0.93	0.92
173.0	0.89	0.97	0.86	0.94	0.90	0.92	0.95	0.85	0.99	0.95
173.5	0.89	0.96	0.87	0.89	0.92	0.83	0.85	0.82	0.92	0.94
174.0	0.86	0.93	0.89	0.92	0.85	0.87	0.89	0.86	0.92	1.03
174.5	0.92	0.94	0.88	0.93	0.88	0.89	0.90	0.85	0.97	0.98
175.0	0.93	0.87	0.93	0.92	0.88	0.89	0.88	0.86	0.95	0.86
175.5	0.83	0.93	0.90	0.93	0.88	0.97	0.82	0.86	0.93	0.95
176.0	0.87	0.90	0.86	0.86	0.93	0.93	0.83	0.87	0.92	0.92
176.5	0.92	0.96	0.92	0.97	0.90	0.90	0.92	0.93	1.03	0.98
177.0	0.89	0.96	0.87	0.86	0.89	0.93	0.87	0.90	0.94	0.90
177.5	0.86	0.96	0.92	0.93	0.89	0.83	0.86	0.93	0.99	0.89
178.0	0.88	0.95	0.95	0.95	0.87	0.88	0.83	0.90	0.93	0.89
178.5	0.89	0.97	0.93	0.93	0.89	0.87	0.88	0.82	0.95	0.95
179.0	0.89	0.98	0.95	0.93	0.84	0.85	0.87	0.90	0.97	0.93
179.5	0.90	0.89	0.96	0.89	0.93	0.89	0.89	0.86	0.96	0.93
180.0	0.92	0.94	0.88	0.96	0.95	0.89	0.84	0.87	0.93	0.87

Vert. Angles	**Horizontal Angles**						
	225.0	**247.5**	**270.0**	**292.5**	**315.0**	**337.5**	**360.0**
0.0	3042.84	3042.84	3042.84	3042.84	3042.84	3042.84	3042.84
0.5	3053.13	3045.70	3037.30	3030.31	3023.76	3016.99	3073.87
1.0	3053.57	3046.14	3037.85	3030.53	3023.87	3016.22	3073.10
1.5	3054.11	3046.03	3038.06	3029.98	3023.65	3015.46	3072.23
2.0	3054.11	3045.92	3038.28	3029.98	3023.21	3014.48	3071.14
2.5	3054.22	3045.37	3038.28	3029.44	3022.56	3013.28	3069.50
3.0	3053.57	3044.72	3037.85	3028.35	3021.80	3011.75	3067.97
3.5	3052.80	3043.74	3037.19	3027.26	3020.81	3009.24	3065.36
4.0	3051.71	3042.53	3036.20	3025.51	3019.17	3007.05	3062.41
4.5	3050.40	3040.68	3035.11	3023.87	3017.31	3004.44	3059.79
5.0	3048.98	3039.05	3033.48	3021.80	3015.46	3001.38	3056.08
5.5	3046.90	3037.08	3031.94	3019.06	3012.95	2998.32	3052.25
6.0	3044.94	3034.78	3029.65	3016.12	3010.22	2994.83	3048.44
6.5	3042.43	3032.17	3027.14	3012.74	3007.38	2990.57	3043.85
7.0	3039.48	3029.11	3024.63	3009.46	3003.88	2986.31	3039.27
7.5	3036.53	3025.51	3021.68	3005.63	3000.17	2981.94	3034.02
8.0	3033.15	3021.35	3018.19	3001.59	2996.03	2976.71	3028.89
8.5	3029.11	3017.21	3014.26	2997.34	2991.56	2971.57	3023.54
9.0	3025.29	3012.95	3009.79	2992.53	2987.07	2965.56	3017.21
9.5	3020.48	3007.82	3005.86	2986.97	2981.73	2959.67	3011.09
10.0	3015.68	3002.80	3000.40	2981.94	2976.60	2953.34	3004.76
10.5	3010.66	2996.69	2995.48	2975.51	2970.15	2946.13	2997.34
11.0	3004.54	2991.11	2990.14	2969.28	2963.93	2939.48	2990.46
11.5	2998.75	2984.78	2983.69	2962.84	2957.60	2932.38	2983.03
12.0	2992.75	2978.13	2977.90	2955.53	2950.40	2924.19	2974.63

Photometric Toolbox Professional Edition - Copyright 2002-2015 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

CANDELA TABULATION - (Cont.)

12.5	2985.87	2971.35	2971.47	2948.65	2943.52	2916.33	2966.77
13.0	2979.22	2964.59	2964.15	2941.55	2936.20	2907.38	2957.60
13.5	2971.57	2956.62	2957.27	2933.15	2928.01	2899.41	2949.41
14.0	2964.47	2949.30	2949.96	2925.61	2920.37	2891.11	2941.00
14.5	2957.05	2940.90	2941.87	2916.22	2911.75	2881.40	2931.18
15.0	2948.42	2932.82	2934.02	2908.04	2903.45	2872.88	2922.01
15.5	2940.57	2924.52	2924.85	2899.63	2894.82	2863.60	2912.40
16.0	2932.27	2915.35	2916.98	2890.02	2885.21	2853.12	2902.03
16.5	2922.88	2906.50	2908.47	2881.07	2876.15	2843.51	2892.53
17.0	2913.81	2896.57	2898.75	2871.78	2866.76	2832.59	2881.61
17.5	2903.55	2887.29	2889.58	2861.19	2856.06	2822.22	2871.35
18.0	2894.06	2877.90	2879.21	2851.59	2846.34	2812.18	2860.76
18.5	2884.78	2866.88	2870.04	2840.67	2836.20	2800.06	2848.86
19.0	2873.97	2856.61	2860.10	2830.08	2824.73	2789.36	2838.05
19.5	2863.81	2846.57	2849.41	2819.49	2814.47	2778.33	2825.61
20.0	2853.22	2834.78	2839.15	2807.81	2802.89	2765.78	2814.25
20.5	2841.54	2823.64	2828.77	2796.79	2791.87	2754.09	2802.25
21.0	2830.62	2812.84	2816.98	2785.11	2780.74	2742.09	2788.70
21.5	2817.97	2799.95	2805.73	2771.78	2767.64	2728.44	2775.93
22.0	2806.72	2788.05	2793.07	2759.67	2755.84	2715.56	2762.61
22.5	2795.04	2774.51	2781.39	2745.47	2743.72	2701.26	2747.43
23.0	2781.61	2761.73	2769.27	2732.70	2729.75	2687.71	2733.13
23.5	2769.16	2748.75	2755.51	2719.49	2716.98	2673.31	2718.73
24.0	2756.27	2733.90	2743.18	2704.64	2702.23	2656.93	2702.13
24.5	2741.10	2720.03	2730.19	2690.55	2688.37	2641.86	2687.06
25.0	2727.02	2706.17	2715.34	2676.47	2673.85	2626.25	2668.83
25.5	2711.40	2690.12	2701.91	2659.66	2657.59	2608.56	2652.02
26.0	2697.10	2675.05	2687.61	2644.38	2642.19	2591.75	2634.33
26.5	2681.93	2657.69	2671.02	2628.43	2626.25	2572.54	2614.46
27.0	2664.46	2641.75	2655.73	2610.10	2608.45	2554.95	2596.67
27.5	2648.09	2625.05	2637.83	2593.50	2591.64	2536.94	2578.32
28.0	2631.16	2606.27	2621.66	2573.96	2574.72	2516.86	2557.36
28.5	2611.95	2589.13	2605.18	2556.16	2555.28	2498.73	2538.59
29.0	2594.37	2571.45	2586.40	2538.04	2537.48	2480.17	2517.84
29.5	2575.16	2551.79	2569.15	2517.95	2517.51	2458.78	2498.62
30.0	2556.60	2533.45	2551.57	2499.39	2498.73	2439.78	2479.08
30.5	2538.14	2514.90	2531.16	2478.43	2479.73	2418.59	2457.57
31.0	2517.51	2494.26	2512.60	2459.65	2458.66	2399.27	2438.25
31.5	2498.19	2475.15	2491.42	2440.43	2439.12	2380.06	2416.74
32.0	2478.54	2453.97	2471.99	2418.82	2419.91	2359.54	2397.74
32.5	2456.70	2434.32	2452.44	2399.38	2398.62	2340.86	2378.97
33.0	2437.05	2415.10	2430.93	2379.73	2379.63	2322.74	2359.09
33.5	2415.43	2393.49	2411.28	2358.45	2358.66	2303.09	2341.62
34.0	2396.22	2374.38	2392.07	2339.33	2339.66	2285.95	2324.38
34.5	2377.22	2353.63	2371.33	2321.00	2321.10	2266.84	2305.28
35.0	2356.26	2335.30	2352.54	2300.36	2301.45	2249.82	2288.46
35.5	2337.91	2316.73	2331.80	2282.56	2283.65	2232.99	2271.43
36.0	2318.16	2296.65	2313.13	2263.02	2265.86	2214.55	2252.87
36.5	2299.92	2279.18	2294.79	2245.55	2246.97	2198.07	2235.62
37.0	2282.13	2261.60	2274.70	2228.41	2230.05	2181.36	2216.84
37.5	2262.47	2242.17	2257.13	2209.85	2211.17	2162.58	2199.70
38.0	2244.79	2224.59	2239.77	2192.49	2194.46	2145.55	2182.99
38.5	2227.86	2207.23	2220.66	2175.24	2177.53	2127.10	2164.00
39.0	2208.76	2188.34	2203.30	2156.35	2158.65	2109.85	2146.64
39.5	2191.51	2171.64	2184.41	2139.87	2141.73	2092.71	2129.50
40.0	2174.37	2152.75	2167.60	2122.95	2125.14	2073.49	2109.73

Photometric Toolbox Professional Edition - Copyright 2002-2015 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

CANDELA TABULATION - (Cont.)

40.5	2155.48	2135.40	2150.89	2104.17	2106.35	2056.02	2091.18
41.0	2138.24	2118.26	2132.12	2087.14	2089.54	2038.01	2068.47
41.5	2119.02	2099.04	2114.98	2068.14	2070.22	2017.05	2046.42
42.0	2101.55	2081.46	2095.87	2050.89	2052.42	1996.85	2022.40
42.5	2084.19	2063.45	2078.52	2033.32	2034.30	1972.17	1993.14
43.0	2064.22	2043.04	2061.15	2013.56	2013.77	1947.39	1964.10
43.5	2045.65	2023.92	2041.29	1994.56	1995.21	1919.55	1932.76
44.0	2025.90	2001.33	2023.38	1973.92	1975.12	1884.95	1893.90
44.5	2002.85	1979.82	2004.60	1949.57	1950.34	1850.66	1854.37
45.0	1980.58	1956.89	1982.22	1924.36	1924.36	1813.98	1807.65
45.5	1953.40	1928.29	1960.16	1892.81	1891.82	1769.33	1763.43
46.0	1926.76	1899.90	1935.83	1860.49	1858.74	1726.31	1717.58
46.5	1897.39	1867.91	1905.58	1824.90	1822.50	1681.11	1664.30
47.0	1861.36	1828.50	1874.36	1782.76	1779.15	1628.49	1614.30
47.5	1825.34	1790.51	1836.47	1741.27	1737.01	1579.80	1562.11
48.0	1782.76	1744.87	1799.79	1697.49	1693.23	1524.12	1503.05
48.5	1740.73	1701.64	1760.59	1646.40	1642.14	1472.26	1449.45
49.0	1696.40	1655.90	1713.54	1598.03	1593.56	1419.10	1388.96
49.5	1644.54	1602.62	1668.45	1542.79	1543.45	1359.48	1333.39
50.0	1595.63	1552.95	1621.72	1492.46	1485.48	1304.78	1277.60
50.5	1545.19	1501.63	1567.35	1440.60	1432.19	1250.19	1215.58
51.0	1487.76	1443.55	1516.92	1381.54	1372.48	1188.73	1159.36
51.5	1435.03	1390.26	1459.27	1327.05	1317.78	1132.61	1102.04
52.0	1380.77	1329.79	1405.44	1271.70	1262.75	1070.05	1038.83
52.5	1318.98	1273.88	1351.40	1210.35	1201.72	1014.05	982.93
53.0	1263.08	1217.77	1290.81	1154.78	1147.02	958.47	927.59
53.5	1200.85	1155.21	1235.68	1092.55	1085.77	898.65	867.10
54.0	1144.95	1098.66	1180.21	1037.31	1031.40	845.49	813.06
54.5	1089.60	1042.65	1118.32	982.61	977.36	792.75	754.87
55.0	1028.13	981.19	1062.09	921.36	917.10	735.54	704.64
55.5	972.89	925.94	1000.29	866.88	863.39	684.99	656.28
56.0	917.00	870.92	944.73	813.06	810.00	635.87	604.20
56.5	855.63	811.09	889.91	754.87	751.26	584.33	563.70
57.0	801.92	758.58	829.22	703.01	700.06	555.40	511.26
57.5	743.41	701.69	775.72	652.35	644.60	493.98	473.55
58.0	692.09	652.35	723.32	598.97	596.46	456.00	439.34
58.5	642.52	604.86	667.85	560.75	550.93	422.14	405.11
59.0	589.90	561.29	619.49	504.77	503.54	389.19	378.81
59.5	545.25	510.89	567.74	465.38	464.46	364.08	357.41
60.0	503.44	467.98	524.29	429.89	418.30	343.49	337.38
60.5	460.86	432.79	483.89	395.44	395.14	324.50	321.80
61.0	418.70	401.65	425.62	368.81	369.44	311.52	310.24
61.5	391.87	371.43	410.45	343.44	345.72	301.21	302.05
62.0	365.78	348.62	380.81	325.13	327.53	294.89	296.12
62.5	344.50	330.17	352.89	311.95	313.69	288.97	289.49
63.0	325.69	314.90	334.29	302.35	303.76	282.16	283.27
63.5	312.64	304.58	320.28	295.98	297.46	275.91	276.72
64.0	303.15	296.08	308.23	289.98	290.72	269.42	269.41
64.5	295.52	289.66	300.15	283.04	284.69	262.05	262.63
65.0	289.60	283.14	292.78	276.47	278.55	255.26	255.71
65.5	283.62	275.48	286.23	269.26	271.61	248.22	248.03
66.0	276.78	268.47	279.65	262.52	264.98	240.39	241.18
66.5	270.08	261.49	272.29	255.56	258.11	233.54	233.45
67.0	262.15	253.39	265.49	247.69	250.64	225.88	226.25
67.5	255.47	246.46	258.31	240.74	243.60	218.66	218.92
68.0	249.10	239.54	250.28	233.68	236.53	211.16	210.83

Photometric Toolbox Professional Edition - Copyright 2002-2015 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

CANDELA TABULATION - (Cont.)

68.5	242.02	231.62	243.32	225.24	228.80	202.92	203.34
69.0	235.27	224.25	236.06	217.69	221.87	195.49	194.79
69.5	228.28	215.57	227.88	209.57	213.96	187.84	186.76
70.0	220.61	208.06	220.25	202.17	206.63	178.88	178.69
70.5	213.62	200.49	211.83	194.50	198.76	170.78	169.73
71.0	205.53	192.07	204.43	185.77	189.57	161.76	161.60
71.5	197.74	184.13	196.67	177.78	181.33	153.53	153.47
72.0	189.64	175.99	188.06	169.69	173.13	145.49	144.34
72.5	180.55	167.03	180.23	160.66	163.67	136.23	136.18
73.0	172.31	158.94	172.33	152.45	154.87	127.83	128.06
73.5	164.07	150.84	163.66	143.21	145.36	119.68	119.26
74.0	154.42	142.06	155.67	134.76	136.94	110.78	111.48
74.5	145.67	133.95	146.64	126.30	128.74	102.84	102.95
75.0	137.17	124.92	138.70	117.12	119.60	95.06	95.46
75.5	127.87	116.88	130.64	108.84	111.12	86.38	88.17
76.0	119.51	108.80	121.62	100.73	101.76	78.80	80.42
76.5	109.96	100.02	113.69	91.89	93.79	70.94	73.69
77.0	101.60	92.17	105.88	83.98	86.13	64.17	67.03
77.5	93.62	83.62	97.45	76.42	77.80	57.81	59.76
78.0	85.20	76.07	90.24	68.51	70.44	49.54	55.55
78.5	77.70	68.93	82.47	61.71	63.62	43.98	46.66
79.0	69.45	61.32	75.62	56.14	56.53	38.39	41.05
79.5	62.35	56.52	68.90	47.53	50.59	32.74	35.72
80.0	55.89	47.94	61.30	41.62	44.57	28.08	29.90
80.5	49.30	41.35	54.51	35.67	36.43	23.55	24.88
81.0	43.50	35.97	47.92	30.70	33.33	19.91	19.82
81.5	36.86	30.99	37.18	26.11	28.36	16.40	15.60
82.0	32.49	25.61	35.04	21.35	24.43	12.68	11.78
82.5	27.98	21.06	28.81	17.30	21.09	9.77	8.38
83.0	24.05	16.43	23.82	13.45	17.82	6.93	6.11
83.5	20.35	13.02	19.34	10.52	14.67	4.61	4.48
84.0	17.27	10.10	14.93	7.85	10.81	3.08	3.15
84.5	13.69	7.20	11.65	5.09	7.80	1.71	1.97
85.0	10.41	4.88	9.12	3.88	5.19	0.82	1.06
85.5	7.32	3.77	6.83	2.41	2.24	0.42	0.66
86.0	4.51	2.43	5.01	1.09	1.48	0.29	0.46
86.5	2.38	1.05	2.93	0.41	1.08	0.11	0.23
87.0	1.46	0.46	1.76	0.12	0.90	0.11	0.11
87.5	1.09	0.13	1.11	0.05	0.73	0.01	0.00
88.0	0.87	0.06	0.82	0.02	0.54	0.00	0.00
88.5	0.69	0.02	0.60	0.00	0.36	0.00	0.00
89.0	0.43	0.00	0.49	0.00	0.31	0.00	0.00
89.5	0.38	0.01	0.38	0.00	0.30	0.00	0.00
90.0	0.32	0.00	0.30	0.00	0.25	0.00	0.00
90.5	0.17	0.00	0.26	0.00	0.27	0.00	0.00
91.0	0.25	0.00	0.24	0.00	0.23	0.00	0.00
91.5	0.24	0.00	0.28	0.00	0.21	0.00	0.00
92.0	0.27	0.00	0.20	0.00	0.21	0.00	0.00
92.5	0.14	0.00	0.24	0.00	0.22	0.00	0.00
93.0	0.19	0.00	0.16	0.00	0.15	0.00	0.00
93.5	0.16	0.00	0.22	0.00	0.19	0.00	0.00
94.0	0.14	0.00	0.15	0.00	0.21	0.00	0.00
94.5	0.14	0.01	0.17	0.00	0.13	0.00	0.00
95.0	0.16	0.00	0.12	0.00	0.12	0.00	0.00
95.5	0.15	0.00	0.11	0.00	0.12	0.00	0.00
96.0	0.10	0.00	0.13	0.00	0.09	0.00	0.00

Photometric Toolbox Professional Edition - Copyright 2002-2015 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

CANDELA TABULATION - (Cont.)

96.5	0.14	0.00	0.08	0.00	0.13	0.00	0.00
97.0	0.09	0.00	0.13	0.00	0.09	0.00	0.00
97.5	0.12	0.00	0.11	0.00	0.09	0.00	0.00
98.0	0.10	0.00	0.14	0.00	0.12	0.01	0.00
98.5	0.13	0.00	0.12	0.00	0.10	0.00	0.00
99.0	0.11	0.00	0.11	0.00	0.13	0.00	0.00
99.5	0.15	0.00	0.13	0.00	0.10	0.01	0.00
100.0	0.11	0.00	0.10	0.00	0.08	0.00	0.00
100.5	0.07	0.00	0.11	0.00	0.12	0.00	0.00
101.0	0.08	0.00	0.13	0.00	0.10	0.00	0.00
101.5	0.08	0.01	0.11	0.00	0.07	0.00	0.00
102.0	0.10	0.01	0.11	0.00	0.11	0.00	0.00
102.5	0.10	0.00	0.10	0.00	0.11	0.00	0.00
103.0	0.10	0.00	0.10	0.00	0.11	0.00	0.00
103.5	0.11	0.01	0.10	0.00	0.08	0.00	0.00
104.0	0.08	0.00	0.10	0.00	0.06	0.01	0.00
104.5	0.12	0.00	0.12	0.00	0.11	0.00	0.00
105.0	0.12	0.00	0.07	0.00	0.07	0.00	0.00
105.5	0.12	0.00	0.10	0.00	0.08	0.00	0.00
106.0	0.06	0.02	0.07	0.00	0.10	0.00	0.00
106.5	0.08	0.00	0.09	0.00	0.08	0.00	0.00
107.0	0.15	0.02	0.07	0.00	0.11	0.03	0.00
107.5	0.14	0.00	0.10	0.03	0.06	0.02	0.00
108.0	0.10	0.01	0.06	0.01	0.10	0.00	0.00
108.5	0.09	0.00	0.08	0.02	0.12	0.02	0.00
109.0	0.10	0.03	0.13	0.03	0.12	0.00	0.00
109.5	0.13	0.02	0.08	0.01	0.11	0.01	0.00
110.0	0.12	0.04	0.10	0.03	0.10	0.03	0.00
110.5	0.13	0.02	0.09	0.03	0.08	0.00	0.01
111.0	0.10	0.02	0.10	0.04	0.09	0.03	0.01
111.5	0.07	0.02	0.13	0.02	0.12	0.02	0.00
112.0	0.15	0.05	0.14	0.02	0.10	0.02	0.01
112.5	0.12	0.04	0.13	0.02	0.11	0.04	0.00
113.0	0.13	0.04	0.14	0.03	0.12	0.04	0.03
113.5	0.13	0.03	0.20	0.03	0.14	0.05	0.02
114.0	0.14	0.02	0.14	0.07	0.14	0.07	0.00
114.5	0.12	0.02	0.11	0.04	0.12	0.05	0.01
115.0	0.14	0.04	0.14	0.06	0.13	0.02	0.03
115.5	0.19	0.04	0.11	0.09	0.14	0.06	0.01
116.0	0.12	0.04	0.12	0.07	0.12	0.06	0.03
116.5	0.16	0.06	0.14	0.10	0.17	0.08	0.04
117.0	0.14	0.07	0.19	0.05	0.14	0.04	0.02
117.5	0.15	0.08	0.14	0.05	0.15	0.07	0.03
118.0	0.15	0.06	0.16	0.07	0.17	0.09	0.06
118.5	0.12	0.08	0.15	0.06	0.15	0.06	0.04
119.0	0.21	0.11	0.17	0.06	0.24	0.09	0.03
119.5	0.21	0.07	0.20	0.07	0.19	0.11	0.04
120.0	0.23	0.08	0.20	0.10	0.22	0.13	0.04
120.5	0.21	0.13	0.23	0.08	0.17	0.13	0.07
121.0	0.24	0.10	0.20	0.11	0.17	0.12	0.06
121.5	0.22	0.08	0.20	0.13	0.20	0.13	0.06
122.0	0.19	0.09	0.20	0.12	0.19	0.14	0.10
122.5	0.22	0.10	0.22	0.14	0.19	0.14	0.07
123.0	0.25	0.13	0.25	0.16	0.26	0.16	0.12
123.5	0.26	0.15	0.23	0.10	0.22	0.14	0.12
124.0	0.26	0.15	0.24	0.16	0.23	0.21	0.12

Photometric Toolbox Professional Edition - Copyright 2002-2015 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

CANDELA TABULATION - (Cont.)

124.5	0.23	0.17	0.22	0.16	0.24	0.19	0.10
125.0	0.23	0.15	0.24	0.16	0.28	0.16	0.11
125.5	0.23	0.19	0.27	0.15	0.29	0.16	0.12
126.0	0.27	0.21	0.23	0.15	0.30	0.21	0.13
126.5	0.29	0.25	0.26	0.24	0.31	0.16	0.13
127.0	0.34	0.16	0.26	0.22	0.33	0.21	0.13
127.5	0.33	0.19	0.28	0.23	0.33	0.23	0.15
128.0	0.31	0.20	0.33	0.29	0.31	0.28	0.12
128.5	0.34	0.22	0.29	0.25	0.34	0.27	0.15
129.0	0.35	0.19	0.30	0.19	0.27	0.22	0.09
129.5	0.36	0.25	0.33	0.25	0.37	0.28	0.21
130.0	0.35	0.28	0.28	0.26	0.41	0.27	0.13
130.5	0.30	0.26	0.35	0.25	0.36	0.28	0.17
131.0	0.33	0.26	0.41	0.28	0.35	0.29	0.17
131.5	0.35	0.22	0.35	0.29	0.35	0.24	0.22
132.0	0.34	0.29	0.39	0.29	0.34	0.31	0.16
132.5	0.37	0.29	0.39	0.27	0.41	0.30	0.25
133.0	0.42	0.31	0.40	0.33	0.35	0.34	0.22
133.5	0.44	0.34	0.40	0.32	0.37	0.31	0.27
134.0	0.39	0.35	0.42	0.31	0.42	0.31	0.27
134.5	0.38	0.33	0.39	0.36	0.44	0.33	0.28
135.0	0.47	0.37	0.42	0.34	0.45	0.33	0.21
135.5	0.45	0.37	0.42	0.36	0.47	0.33	0.29
136.0	0.46	0.37	0.46	0.35	0.39	0.36	0.28
136.5	0.43	0.34	0.47	0.36	0.44	0.39	0.28
137.0	0.47	0.42	0.53	0.42	0.46	0.39	0.33
137.5	0.48	0.41	0.48	0.39	0.46	0.43	0.33
138.0	0.47	0.42	0.47	0.44	0.51	0.43	0.31
138.5	0.46	0.43	0.49	0.38	0.53	0.42	0.29
139.0	0.49	0.46	0.51	0.44	0.50	0.44	0.30
139.5	0.56	0.46	0.51	0.41	0.52	0.47	0.36
140.0	0.58	0.38	0.50	0.43	0.53	0.44	0.37
140.5	0.52	0.46	0.59	0.45	0.51	0.45	0.31
141.0	0.54	0.41	0.49	0.45	0.53	0.47	0.35
141.5	0.56	0.45	0.57	0.42	0.48	0.48	0.36
142.0	0.59	0.47	0.56	0.47	0.51	0.45	0.35
142.5	0.54	0.53	0.60	0.46	0.56	0.52	0.38
143.0	0.52	0.46	0.62	0.52	0.56	0.52	0.42
143.5	0.58	0.52	0.51	0.50	0.58	0.51	0.39
144.0	0.65	0.56	0.56	0.54	0.58	0.53	0.39
144.5	0.70	0.51	0.61	0.52	0.61	0.53	0.42
145.0	0.70	0.57	0.60	0.58	0.59	0.62	0.44
145.5	0.64	0.58	0.63	0.57	0.59	0.58	0.47
146.0	0.62	0.61	0.60	0.58	0.65	0.52	0.49
146.5	0.66	0.54	0.63	0.54	0.62	0.58	0.44
147.0	0.66	0.54	0.62	0.57	0.66	0.58	0.51
147.5	0.65	0.59	0.64	0.60	0.59	0.64	0.51
148.0	0.72	0.62	0.64	0.62	0.61	0.59	0.47
148.5	0.67	0.66	0.72	0.60	0.69	0.64	0.51
149.0	0.68	0.63	0.74	0.67	0.68	0.61	0.47
149.5	0.71	0.71	0.68	0.64	0.67	0.64	0.56
150.0	0.70	0.66	0.65	0.62	0.69	0.58	0.51
150.5	0.80	0.63	0.68	0.64	0.71	0.61	0.58
151.0	0.74	0.63	0.66	0.67	0.73	0.67	0.58
151.5	0.70	0.67	0.70	0.64	0.75	0.61	0.61
152.0	0.75	0.72	0.78	0.67	0.74	0.72	0.65

Photometric Toolbox Professional Edition - Copyright 2002-2015 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

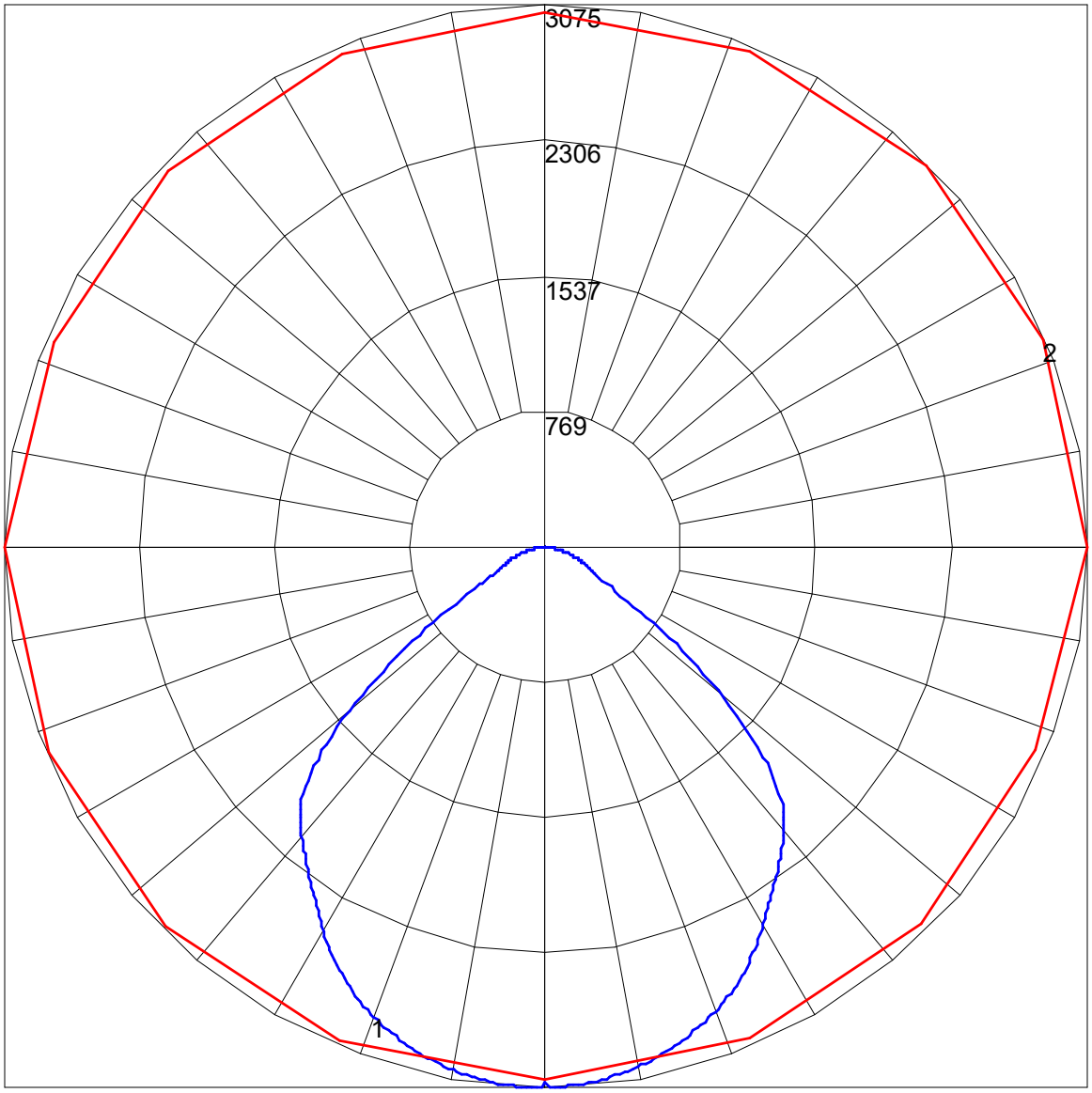
CANDELA TABULATION - (Cont.)

152.5	0.78	0.73	0.72	0.67	0.74	0.73	0.69
153.0	0.75	0.71	0.76	0.71	0.71	0.68	0.58
153.5	0.73	0.72	0.72	0.71	0.73	0.68	0.68
154.0	0.78	0.73	0.80	0.68	0.73	0.72	0.64
154.5	0.82	0.77	0.73	0.75	0.75	0.74	0.64
155.0	0.81	0.75	0.75	0.76	0.72	0.78	0.67
155.5	0.75	0.73	0.78	0.71	0.79	0.64	0.72
156.0	0.83	0.74	0.80	0.76	0.73	0.74	0.77
156.5	0.86	0.86	0.77	0.79	0.84	0.74	0.72
157.0	0.83	0.75	0.78	0.69	0.77	0.73	0.69
157.5	0.84	0.74	0.80	0.79	0.82	0.79	0.74
158.0	0.84	0.80	0.76	0.69	0.82	0.74	0.74
158.5	0.86	0.77	0.83	0.71	0.78	0.78	0.71
159.0	0.85	0.77	0.82	0.73	0.72	0.82	0.71
159.5	0.84	0.82	0.81	0.84	0.83	0.80	0.77
160.0	0.87	0.80	0.80	0.86	0.80	0.82	0.71
160.5	0.86	0.82	0.84	0.77	0.82	0.85	0.68
161.0	0.90	0.81	0.84	0.82	0.82	0.79	0.82
161.5	0.87	0.85	0.82	0.82	0.84	0.75	0.83
162.0	0.93	0.83	0.84	0.80	0.92	0.77	0.77
162.5	0.94	0.84	0.88	0.83	0.87	0.75	0.78
163.0	0.87	0.82	0.88	0.85	0.89	0.80	0.81
163.5	0.88	0.82	0.89	0.92	0.80	0.87	0.83
164.0	0.93	0.84	0.92	0.89	0.84	0.84	0.79
164.5	0.88	0.83	0.83	0.78	0.89	0.86	0.84
165.0	0.98	0.87	0.86	0.86	0.88	0.83	0.85
165.5	0.88	0.89	0.87	0.87	0.84	0.83	0.84
166.0	0.90	0.93	0.93	0.84	0.89	0.87	0.82
166.5	0.94	0.90	0.89	0.87	0.87	0.84	0.85
167.0	0.92	0.89	0.88	0.88	0.85	0.89	0.90
167.5	0.93	0.87	0.94	0.87	0.86	0.86	0.86
168.0	0.88	0.89	0.92	0.85	0.90	0.87	0.86
168.5	0.93	0.92	0.90	0.86	0.90	0.85	0.83
169.0	0.97	0.86	0.87	0.87	0.90	0.83	0.85
169.5	0.93	0.92	0.90	0.93	0.86	0.87	0.92
170.0	0.93	0.87	0.90	0.93	0.92	0.80	0.83
170.5	0.90	0.88	0.93	0.86	0.88	0.84	0.92
171.0	0.89	0.89	0.87	0.89	0.89	0.88	0.87
171.5	0.97	0.92	0.98	0.98	0.90	0.86	0.88
172.0	0.97	0.88	0.88	0.86	0.95	0.94	0.89
172.5	0.92	0.90	0.88	0.96	0.89	0.92	0.94
173.0	0.94	0.89	0.93	0.84	0.98	0.92	0.89
173.5	0.94	0.87	0.90	0.86	0.92	0.94	0.89
174.0	0.92	0.93	0.98	0.86	0.88	0.94	0.86
174.5	0.96	0.86	0.90	0.90	0.96	0.80	0.92
175.0	0.97	0.89	0.90	0.89	0.94	0.88	0.93
175.5	0.85	0.90	0.96	0.96	0.90	0.93	0.83
176.0	1.02	0.89	0.96	0.92	0.99	0.82	0.87
176.5	0.93	0.92	0.90	0.92	0.86	0.86	0.92
177.0	0.88	0.96	0.92	0.90	0.88	0.94	0.89
177.5	0.92	0.95	0.88	0.88	0.88	0.89	0.86
178.0	0.94	0.93	0.94	0.94	0.90	0.88	0.88
178.5	0.94	0.92	0.86	0.90	0.89	0.85	0.89
179.0	0.90	0.88	0.90	0.92	0.92	0.89	0.89
179.5	0.97	0.94	0.90	0.88	0.89	0.88	0.90
180.0	0.96	0.95	0.96	0.92	0.92	0.90	0.92

Photometric Toolbox Professional Edition - Copyright 2002-2015 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : EPL-SBDL-V2-50RT-24-1227-125DB-50K.IES

POLAR GRAPH



Maximum Candela = 3074.64 Located At Horizontal Angle = 180, Vertical Angle = .5
1 - Vertical Plane Through Horizontal Angles (180 - 0) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (.5) (Through Max. Cd.)

Photometric Toolbox Professional Edition - Copyright 2002-2015 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

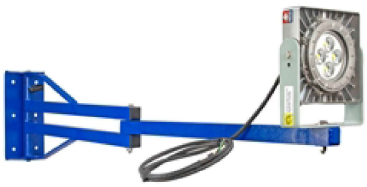
IES INDOOR REPORT
PHOTOMETRIC FILENAME : EPL-SBDL-V2-50RT-24-1227-140DB-50K.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 173038
[TESTLAB] RADIANT IMAGING PROSOURCE
[TESTDATE] 06-10-2017
[ISSUEDATE] 06-10-2017
[MANUFAC] LARSON ELECTRONICS LLC
[LUMCAT] EPL-SBDL-V2-50RT-24-1227-140DB-50K
[MORE] IRON X SERIES
[LUMINAIRE] CLASS 1 DIV 1 EXPLOSION PROOF LED DOCK LIGHT, LOW PROFILE
[MORE] 140 DEGREE BEAM, 120-277V AC 50/60 HZ, 5000K
[LAMP] CREE CXB1512
[LAMPPOSITION] 0,0
[OTHER] EVERFINE GO-R5000 V2
[_SEARCH _SOURCETYPE] LED
[_SEARCH_APPLICATION] INDOOR, OUTDOOR, HARBOR, INDUSTRIAL, WATER TREATMENT, OIL FIELD, REFINERY, HIGH
[_SEARCH _MOUNTING] CEILING, SURFACE
[_SEARCH _CERTIFICATION] NEC, UL
[_SEARCH_COLORTEMP] 5000K
[_SEARCH_CRI] 85
[_SEARCH _CLASSIFICATION] CLASS I, CLASS II, DIVISION 1, DIVISION 2, GROUP C, GROUP D, GROUP E, GROUP F, GR

CHARACTERISTICS

Lumens Per Lamp	5402.97 (1 lamp)
Total Lamp Lumens	5402.97
Luminaire Lumens	5403
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	111
Total Luminaire Watts	48.57
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.76
Spacing Criterion (90-270)	1.74
Spacing Criterion (Diagonal)	2.38
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.10 m
Luminous Width (90-270)	0.10 m
Luminous Height	0.10 m



Photometric Toolbox Professional Edition - Copyright 2002-2015 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : EPL-SBDL-V2-50RT-24-1227-140DB-50K.IES

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	83851	67336	83781
55	127409	104132	128671
65	112660	70019	104137
75	7137	3195	6948
85	1390	627	1178

Photometric Toolbox Professional Edition - Copyright 2002-2015 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : EPL-SBDL-V2-50RT-24-1227-140DB-50K.IES

CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0	112.5	135.0	157.5	180.0	202.5
0.0	1011.29	1011.29	1011.29	1011.29	1011.29	1011.29	1011.29	1011.29	1011.29	1011.29
0.5	1021.14	1017.66	1014.71	1011.32	1009.13	1007.17	1004.99	1003.35	1021.14	1017.21
1.0	1020.81	1017.87	1014.16	1011.54	1008.80	1007.07	1004.44	1003.24	1020.71	1016.78
1.5	1020.17	1017.43	1013.62	1010.99	1008.04	1006.41	1003.79	1002.80	1020.27	1015.91
2.0	1019.29	1016.78	1012.52	1010.55	1007.07	1005.97	1002.80	1002.25	1019.72	1015.04
2.5	1018.09	1015.91	1011.21	1009.68	1005.75	1004.99	1001.71	1001.49	1018.85	1014.16
3.0	1016.67	1014.59	1009.58	1008.49	1004.12	1003.90	999.96	1000.62	1017.76	1012.85
3.5	1014.92	1013.29	1007.28	1006.95	1001.82	1002.37	998.21	999.20	1016.34	1011.10
4.0	1012.96	1011.65	1004.77	1005.32	999.31	1000.19	996.15	997.57	1014.38	1008.70
4.5	1010.67	1009.36	1002.37	1002.80	996.79	998.11	993.53	995.38	1012.41	1006.51
5.0	1007.94	1007.39	999.31	1000.51	993.64	995.60	990.79	993.20	1009.90	1004.12
5.5	1004.99	1004.88	996.69	997.67	991.02	992.65	987.85	990.69	1007.28	1001.16
6.0	1001.94	1001.49	993.74	994.62	987.95	990.03	985.01	987.74	1004.55	998.44
6.5	998.77	998.66	990.25	991.56	984.35	987.30	982.17	985.23	1001.28	995.27
7.0	995.71	995.38	986.86	988.07	981.30	983.81	978.78	982.39	998.54	991.99
7.5	992.32	992.21	984.02	985.01	977.80	980.64	975.51	978.89	994.94	989.37
8.0	989.37	989.05	980.76	981.63	975.07	977.36	972.89	975.84	991.89	986.10
8.5	986.65	985.77	978.13	978.46	972.56	974.31	970.05	972.67	989.05	983.26
9.0	984.14	983.05	975.62	975.73	970.05	971.69	967.76	970.16	985.77	980.76
9.5	981.95	980.31	973.33	973.22	968.19	969.18	965.58	967.76	983.37	978.46
10.0	980.10	977.80	971.69	970.60	966.67	967.00	963.83	965.35	980.76	976.49
10.5	978.35	976.06	969.94	968.96	965.14	965.58	962.74	963.72	979.11	975.07
11.0	976.82	974.20	968.52	967.33	963.83	964.05	961.32	962.63	977.26	973.76
11.5	975.51	972.34	967.10	965.79	962.63	962.96	960.22	961.21	975.94	973.00
12.0	974.31	970.93	965.47	964.16	961.21	961.75	958.92	959.89	974.75	971.80
12.5	973.00	969.72	963.83	962.74	959.79	960.45	957.61	958.59	973.43	970.81
13.0	971.80	967.97	962.08	961.42	958.04	959.03	955.97	957.28	971.90	969.51
13.5	970.16	966.12	959.79	959.68	956.51	957.28	954.22	955.64	970.60	968.19
14.0	968.85	964.38	957.83	957.61	954.76	955.64	952.47	953.79	968.75	966.34
14.5	967.10	962.51	955.53	955.97	952.80	953.67	950.40	952.15	967.21	964.59
15.0	965.35	960.55	953.67	953.89	950.95	951.61	948.33	950.18	965.14	962.63
15.5	963.62	958.26	951.38	951.71	948.98	949.96	946.46	948.00	963.06	961.10
16.0	961.87	956.29	949.20	949.53	947.12	948.00	943.96	945.92	960.99	959.57
16.5	960.12	954.44	947.24	947.45	945.60	946.15	941.88	944.07	959.35	957.93
17.0	958.26	952.37	945.05	945.37	943.85	944.28	940.36	942.11	957.38	956.74
17.5	956.95	950.29	943.31	943.41	942.21	942.43	938.39	940.36	955.86	955.20
18.0	955.53	948.44	941.66	941.45	940.90	940.90	936.75	938.50	954.44	953.79
18.5	953.67	946.46	939.92	939.70	939.27	939.48	935.33	936.86	953.02	952.15
19.0	952.37	945.05	937.74	938.06	937.95	937.74	933.81	935.33	951.38	950.51
19.5	950.73	943.41	936.20	935.99	936.32	936.20	931.95	933.59	949.53	948.87
20.0	949.42	941.66	933.91	934.24	934.68	934.68	930.10	932.16	948.11	947.24
20.5	947.88	940.14	932.28	932.39	933.26	933.15	928.35	930.64	946.25	945.37
21.0	946.03	938.06	930.20	930.42	931.51	931.51	926.49	928.78	944.83	943.74
21.5	944.50	936.32	928.23	928.45	929.87	929.65	924.42	926.82	942.98	941.66
22.0	942.32	934.14	926.38	926.38	928.35	927.59	922.67	924.64	941.02	939.60
22.5	940.36	932.16	924.52	924.52	926.60	925.84	920.71	922.67	939.27	937.62
23.0	938.83	929.98	922.45	922.67	925.18	923.65	919.29	920.71	937.52	935.66
23.5	937.30	927.69	920.92	920.48	924.31	922.23	917.76	918.96	936.20	934.35
24.0	935.66	926.06	919.51	918.63	923.32	921.03	916.67	917.64	935.01	933.15
24.5	934.57	924.42	918.52	917.21	922.56	919.94	916.12	916.34	933.81	932.39
25.0	933.59	923.22	917.54	915.58	922.13	919.18	915.90	915.58	932.82	931.95
25.5	932.82	922.01	916.67	914.15	921.69	918.42	915.79	915.02	932.28	930.97
26.0	932.39	920.92	916.01	912.84	921.36	917.64	915.58	914.37	932.06	930.64
26.5	932.39	919.83	915.25	911.75	921.58	917.10	915.58	914.37	931.62	930.20

Photometric Toolbox Professional Edition - Copyright 2002-2015 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

CANDELA TABULATION - (Cont.)

27.0	932.06	919.06	915.14	910.99	921.69	916.55	915.25	914.26	931.40	929.77
27.5	932.28	918.19	914.92	910.12	922.23	916.01	915.14	913.93	931.51	929.77
28.0	932.60	917.64	914.70	909.35	922.78	916.01	915.02	914.05	931.95	929.77
28.5	933.04	917.21	914.59	908.91	923.43	916.01	915.02	914.26	932.28	930.31
29.0	933.91	917.10	914.37	908.59	924.42	916.34	915.02	914.81	932.93	931.19
29.5	934.78	916.88	914.70	908.70	925.73	916.67	915.90	915.58	933.69	932.82
30.0	935.99	917.21	915.25	908.47	927.26	917.43	917.00	916.34	935.11	934.35
30.5	937.52	917.54	916.23	909.02	928.89	918.30	918.30	917.54	936.32	936.32
31.0	939.48	918.30	917.10	909.57	930.97	919.61	920.48	919.29	938.28	939.04
31.5	942.21	918.85	918.73	910.44	932.93	921.03	923.10	921.47	940.79	942.32
32.0	945.49	919.83	920.60	911.42	936.20	922.34	926.16	924.19	943.41	946.69
32.5	949.53	921.36	923.00	912.84	939.27	924.85	929.77	928.56	946.91	951.38
33.0	954.88	923.32	926.60	914.70	942.75	927.59	934.35	933.04	951.49	956.74
33.5	960.66	926.38	930.64	917.10	947.45	930.64	941.12	938.61	956.08	962.84
34.0	966.67	930.31	935.33	919.94	952.37	934.90	949.20	945.70	962.51	969.06
34.5	974.97	935.44	942.54	923.10	959.35	940.03	961.97	954.00	968.96	975.62
35.0	983.81	940.36	951.71	927.26	967.00	948.33	977.48	964.81	975.73	984.47
35.5	995.49	947.24	965.35	932.72	977.04	958.47	999.75	981.07	984.57	994.73
36.0	1009.58	955.86	992.98	938.61	991.45	971.80	1025.18	1000.07	994.50	1008.16
36.5	1033.48	967.65	1019.72	947.12	1011.87	995.49	1051.61	1021.91	1006.51	1025.08
37.0	1067.22	989.27	1042.11	956.18	1045.82	1024.85	1086.55	1048.99	1025.08	1054.66
37.5	1089.71	1018.52	1060.88	968.75	1097.02	1055.75	1131.52	1082.28	1053.36	1097.02
38.0	1106.52	1043.64	1079.34	992.54	1152.48	1097.68	1165.04	1125.96	1098.99	1141.89
38.5	1126.06	1064.59	1106.63	1028.46	1183.49	1139.27	1181.85	1169.62	1144.95	1179.56
39.0	1144.73	1085.67	1137.97	1083.27	1198.67	1165.91	1182.94	1192.55	1182.18	1206.09
39.5	1175.96	1110.88	1148.56	1129.77	1201.28	1177.92	1178.25	1200.41	1206.86	1215.48
40.0	1200.74	1138.51	1143.97	1149.20	1186.65	1179.01	1161.00	1196.59	1211.87	1208.60
40.5	1200.09	1150.08	1130.21	1149.76	1167.44	1166.24	1137.64	1185.89	1201.72	1192.01
41.0	1188.73	1147.79	1113.62	1137.75	1149.10	1145.39	1121.92	1165.37	1184.04	1171.80
41.5	1171.26	1138.18	1101.50	1122.13	1135.56	1126.06	1111.76	1144.40	1166.13	1150.52
42.0	1156.20	1122.25	1095.82	1103.90	1129.67	1114.05	1107.83	1126.39	1149.65	1135.56
42.5	1147.47	1106.52	1096.37	1094.51	1129.56	1108.49	1108.27	1118.09	1139.39	1130.43
43.0	1147.68	1102.27	1100.29	1091.45	1134.25	1107.40	1113.62	1116.34	1136.22	1132.61
43.5	1152.60	1104.56	1107.83	1093.97	1142.01	1112.42	1122.25	1117.99	1137.97	1140.36
44.0	1160.89	1110.12	1119.18	1098.44	1153.14	1120.60	1136.00	1124.64	1144.19	1152.37
44.5	1171.49	1118.09	1132.29	1106.96	1168.21	1132.72	1151.61	1137.85	1153.90	1165.70
45.0	1186.33	1129.88	1149.98	1118.09	1185.35	1147.02	1169.30	1152.48	1168.32	1181.85
45.5	1202.38	1142.98	1168.32	1131.63	1207.18	1163.51	1191.24	1169.62	1185.23	1202.49
46.0	1221.04	1158.16	1188.51	1149.76	1229.01	1184.37	1213.62	1191.57	1204.12	1222.58
46.5	1244.96	1178.58	1214.49	1168.75	1253.14	1205.65	1241.90	1213.08	1227.27	1245.51
47.0	1268.32	1199.22	1239.50	1189.82	1281.75	1229.13	1269.08	1237.31	1249.86	1274.00
47.5	1296.60	1224.54	1266.14	1215.81	1309.37	1256.86	1298.78	1266.14	1278.15	1302.17
48.0	1323.57	1249.55	1297.90	1241.02	1338.84	1284.26	1333.93	1295.39	1305.98	1335.79
48.5	1352.72	1276.40	1328.48	1270.94	1374.00	1317.45	1366.58	1326.40	1335.46	1367.23
49.0	1387.54	1307.62	1360.90	1300.31	1407.96	1349.88	1401.08	1361.99	1370.62	1401.08
49.5	1419.31	1338.41	1398.35	1331.64	1444.75	1384.16	1441.58	1395.40	1404.35	1441.04
50.0	1452.83	1371.49	1434.16	1369.20	1485.79	1424.66	1478.70	1435.46	1440.38	1478.37
50.5	1491.25	1410.68	1474.23	1404.90	1524.23	1462.55	1520.85	1473.47	1481.44	1517.35
51.0	1526.74	1446.83	1511.02	1446.71	1566.37	1501.41	1560.14	1512.76	1518.77	1561.56
51.5	1566.15	1488.31	1549.01	1484.38	1603.28	1545.30	1599.45	1557.09	1561.79	1601.30
52.0	1601.42	1526.74	1591.37	1522.48	1638.10	1584.49	1642.36	1596.94	1600.87	1644.21
52.5	1635.59	1564.84	1629.03	1565.17	1674.89	1627.94	1681.44	1635.48	1638.65	1683.63
53.0	1671.62	1606.66	1666.16	1602.83	1705.03	1664.30	1719.00	1677.84	1679.59	1720.20
53.5	1701.20	1644.11	1705.46	1638.32	1730.35	1697.49	1758.74	1713.76	1713.21	1756.12
54.0	1728.82	1679.15	1739.64	1674.13	1754.15	1731.11	1793.02	1748.58	1742.36	1784.84
54.5	1754.81	1714.08	1775.88	1702.84	1773.70	1758.30	1824.90	1776.64	1769.33	1810.05

Photometric Toolbox Professional Edition - Copyright 2002-2015 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

CANDELA TABULATION - (Cont.)

55.0	1775.22	1742.69	1804.37	1730.79	1792.80	1781.44	1856.78	1801.20	1790.73	1832.43
55.5	1795.20	1770.20	1827.84	1751.32	1808.08	1802.85	1881.78	1823.16	1813.87	1848.05
56.0	1810.27	1790.73	1849.24	1768.01	1820.09	1817.80	1901.22	1838.98	1830.35	1862.35
56.5	1822.71	1808.31	1862.45	1783.85	1830.47	1831.56	1912.35	1851.98	1844.88	1870.21
57.0	1834.29	1823.37	1868.36	1795.10	1836.26	1840.63	1915.62	1861.03	1856.78	1876.65
57.5	1841.27	1832.87	1868.67	1802.74	1838.22	1847.28	1912.24	1866.94	1864.75	1882.54
58.0	1844.22	1839.20	1861.80	1808.63	1838.22	1851.98	1902.31	1870.65	1870.09	1884.29
58.5	1844.55	1841.27	1848.48	1810.27	1834.51	1852.85	1886.37	1870.65	1872.83	1883.42
59.0	1841.27	1840.07	1830.25	1808.08	1826.75	1850.56	1862.67	1868.46	1873.59	1878.50
59.5	1832.98	1834.51	1808.41	1802.52	1815.73	1843.78	1834.94	1860.27	1869.77	1869.66
60.0	1820.97	1825.12	1778.72	1793.13	1798.59	1834.07	1797.49	1848.15	1863.11	1859.29
60.5	1805.24	1811.69	1745.10	1780.14	1771.73	1818.24	1758.74	1832.65	1851.53	1844.34
61.0	1784.18	1792.36	1705.46	1763.54	1744.98	1798.81	1713.87	1810.49	1833.30	1828.39
61.5	1761.36	1772.83	1654.04	1741.93	1716.16	1774.79	1658.62	1787.34	1812.12	1805.46
62.0	1734.18	1748.81	1600.98	1712.12	1679.15	1740.61	1602.72	1761.36	1786.14	1777.19
62.5	1701.75	1718.78	1535.58	1679.59	1641.16	1703.71	1540.71	1728.50	1754.59	1742.91
63.0	1667.58	1687.89	1473.68	1641.48	1598.58	1662.88	1468.11	1694.65	1725.00	1695.96
63.5	1628.60	1648.15	1409.48	1593.88	1548.91	1611.46	1399.88	1652.51	1688.32	1647.38
64.0	1590.06	1606.87	1335.46	1547.49	1501.08	1558.51	1329.34	1609.60	1652.07	1586.02
64.5	1548.25	1560.26	1266.03	1490.16	1443.88	1494.86	1249.43	1560.91	1608.73	1524.23
65.0	1497.80	1502.06	1193.86	1433.40	1384.49	1433.61	1174.87	1501.08	1560.14	1459.38
65.5	1447.59	1444.64	1108.27	1373.02	1320.61	1368.98	1087.31	1442.67	1512.44	1382.52
66.0	1390.26	1382.74	1029.55	1299.65	1244.63	1289.60	1004.66	1378.04	1457.63	1309.37
66.5	1317.23	1306.53	940.79	1228.69	1168.53	1213.29	919.06	1300.52	1389.72	1231.20
67.0	1248.01	1231.42	857.17	1145.17	1090.03	1119.51	822.56	1222.03	1326.19	1137.42
67.5	1168.42	1143.43	772.23	1064.49	1004.66	1033.05	733.69	1130.00	1251.73	1046.36
68.0	1090.03	1061.76	676.37	979.44	909.79	949.63	644.60	1040.36	1154.35	951.61
68.5	1005.32	977.15	595.14	880.74	805.42	850.83	573.86	945.70	1066.89	847.01
69.0	897.56	876.05	497.25	788.05	719.71	751.15	455.02	840.90	977.69	750.50
69.5	792.42	781.29	414.42	693.62	612.72	654.64	366.35	739.80	874.74	640.23
70.0	695.80	682.16	335.85	584.66	492.33	544.15	296.11	639.03	758.69	576.58
70.5	599.61	577.01	264.37	491.64	406.51	415.77	227.47	540.55	648.42	449.57
71.0	465.63	482.80	199.95	392.42	296.35	361.99	156.94	409.01	536.51	353.74
71.5	357.60	383.34	144.25	312.27	212.33	273.55	108.23	345.33	388.73	266.33
72.0	267.03	305.80	97.36	228.78	158.55	194.75	78.64	257.29	313.63	189.00
72.5	193.33	225.98	72.08	155.83	130.38	134.06	64.53	190.45	221.78	128.45
73.0	139.52	156.40	62.32	115.16	116.08	104.77	59.78	141.26	151.79	99.14
73.5	114.87	115.91	58.29	93.18	105.21	88.65	57.28	113.27	119.28	83.28
74.0	101.45	92.85	56.17	80.29	95.98	77.99	55.31	94.50	105.05	73.39
74.5	93.29	78.45	54.11	72.70	89.76	71.91	53.91	79.65	95.79	68.18
75.0	87.45	70.49	51.94	66.64	85.13	67.18	51.73	69.95	90.51	64.38
75.5	82.89	64.97	49.76	62.85	81.15	64.26	49.81	62.84	85.58	61.91
76.0	79.60	62.02	47.19	59.94	77.60	61.96	47.62	60.37	82.43	59.83
76.5	76.16	60.09	44.75	57.35	73.18	59.17	44.86	58.73	79.18	57.00
77.0	72.33	57.57	42.02	54.72	68.90	56.13	42.26	56.37	75.16	54.64
77.5	68.68	54.83	39.63	51.69	64.49	52.72	39.64	53.55	71.17	50.38
78.0	64.67	51.83	37.17	48.15	59.51	49.09	36.74	50.45	66.79	46.38
78.5	59.95	48.31	34.36	45.12	55.54	45.72	34.13	46.81	61.72	42.95
79.0	55.83	45.05	31.73	41.97	50.27	42.31	31.17	43.52	57.12	39.23
79.5	50.67	41.42	29.15	37.97	46.23	38.04	28.56	38.27	52.53	35.73
80.0	46.45	37.72	26.43	35.03	42.44	35.08	26.06	36.71	47.60	32.16
80.5	42.37	35.20	24.11	31.49	38.48	31.50	23.53	33.34	43.23	28.41
81.0	38.00	31.65	21.80	28.62	35.05	28.62	21.48	29.83	38.01	25.29
81.5	34.36	28.65	19.96	26.00	31.90	26.01	19.61	26.94	35.37	22.22
82.0	30.93	25.62	18.12	23.31	28.64	23.30	17.58	24.11	32.02	19.80
82.5	27.46	23.20	16.12	21.19	25.92	21.12	15.88	21.83	28.59	17.72

Photometric Toolbox Professional Edition - Copyright 2002-2015 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

CANDELA TABULATION - (Cont.)

83.0	24.59	20.99	14.55	19.28	23.13	19.22	14.34	19.81	25.81	15.68
83.5	21.68	18.83	13.17	17.36	20.67	17.23	12.81	17.90	22.87	14.05
84.0	19.39	17.07	11.73	15.77	18.16	15.58	11.57	16.31	20.41	12.62
84.5	17.30	15.44	10.58	14.19	15.34	13.95	10.29	14.86	18.13	11.14
85.0	15.07	13.88	9.38	12.82	12.77	12.54	9.15	13.36	15.80	9.88
85.5	12.97	12.53	7.69	11.44	10.08	11.14	7.72	12.09	13.82	8.60
86.0	10.57	11.21	5.82	9.54	7.16	9.22	5.74	10.84	11.90	7.36
86.5	7.45	9.36	4.32	7.44	5.25	7.20	4.27	9.34	9.70	5.79
87.0	5.06	7.23	2.57	5.21	2.44	5.38	2.82	7.58	7.55	4.28
87.5	3.13	4.81	0.45	2.06	0.34	2.19	0.70	5.42	5.37	3.06
88.0	1.20	1.77	0.00	0.69	0.01	0.75	0.05	2.16	2.11	1.01
88.5	0.06	0.61	0.00	0.40	0.00	0.47	0.00	0.88	0.96	0.07
89.0	0.00	0.44	0.00	0.42	0.00	0.38	0.00	0.48	0.69	0.02
89.5	0.00	0.35	0.00	0.37	0.00	0.39	0.00	0.39	0.60	0.00
90.0	0.00	0.35	0.00	0.31	0.00	0.31	0.00	0.32	0.49	0.01
90.5	0.01	0.39	0.00	0.28	0.00	0.27	0.00	0.31	0.51	0.02
91.0	0.00	0.30	0.01	0.30	0.00	0.29	0.00	0.32	0.45	0.01
91.5	0.00	0.34	0.00	0.24	0.00	0.27	0.00	0.23	0.44	0.01
92.0	0.00	0.27	0.00	0.27	0.00	0.25	0.00	0.30	0.40	0.02
92.5	0.00	0.27	0.02	0.27	0.00	0.23	0.00	0.23	0.42	0.00
93.0	0.02	0.29	0.00	0.27	0.00	0.25	0.00	0.25	0.43	0.02
93.5	0.00	0.27	0.00	0.26	0.00	0.24	0.00	0.20	0.33	0.00
94.0	0.01	0.21	0.00	0.21	0.00	0.22	0.00	0.17	0.32	0.03
94.5	0.00	0.22	0.00	0.25	0.00	0.21	0.00	0.25	0.35	0.03
95.0	0.01	0.20	0.00	0.17	0.00	0.17	0.00	0.19	0.30	0.03
95.5	0.00	0.22	0.00	0.19	0.00	0.20	0.00	0.17	0.36	0.03
96.0	0.00	0.16	0.00	0.15	0.01	0.17	0.00	0.19	0.38	0.03
96.5	0.01	0.24	0.00	0.20	0.00	0.16	0.00	0.17	0.30	0.02
97.0	0.00	0.20	0.00	0.20	0.00	0.16	0.01	0.17	0.31	0.05
97.5	0.00	0.20	0.01	0.13	0.00	0.15	0.02	0.19	0.33	0.04
98.0	0.02	0.14	0.00	0.23	0.00	0.20	0.02	0.14	0.31	0.07
98.5	0.02	0.23	0.01	0.16	0.00	0.16	0.03	0.14	0.32	0.03
99.0	0.00	0.21	0.00	0.20	0.02	0.17	0.03	0.14	0.33	0.06
99.5	0.00	0.16	0.00	0.21	0.01	0.14	0.00	0.21	0.32	0.10
100.0	0.00	0.16	0.00	0.20	0.02	0.15	0.01	0.19	0.31	0.03
100.5	0.03	0.13	0.00	0.17	0.00	0.15	0.03	0.16	0.30	0.06
101.0	0.02	0.19	0.01	0.20	0.02	0.19	0.01	0.12	0.29	0.05
101.5	0.01	0.17	0.03	0.13	0.01	0.14	0.02	0.21	0.30	0.06
102.0	0.04	0.22	0.01	0.20	0.02	0.15	0.00	0.15	0.32	0.06
102.5	0.01	0.17	0.02	0.14	0.00	0.19	0.00	0.15	0.28	0.07
103.0	0.01	0.16	0.01	0.24	0.03	0.19	0.01	0.20	0.26	0.08
103.5	0.03	0.20	0.02	0.19	0.04	0.21	0.03	0.14	0.31	0.08
104.0	0.04	0.21	0.01	0.14	0.05	0.22	0.05	0.12	0.26	0.06
104.5	0.05	0.19	0.05	0.23	0.06	0.15	0.04	0.21	0.29	0.10
105.0	0.09	0.22	0.06	0.14	0.05	0.16	0.04	0.17	0.29	0.11
105.5	0.04	0.19	0.02	0.23	0.05	0.14	0.02	0.15	0.31	0.07
106.0	0.03	0.19	0.02	0.15	0.04	0.17	0.02	0.19	0.30	0.08
106.5	0.06	0.13	0.02	0.22	0.02	0.21	0.03	0.19	0.32	0.10
107.0	0.06	0.19	0.04	0.14	0.06	0.22	0.02	0.15	0.28	0.04
107.5	0.05	0.17	0.05	0.22	0.03	0.20	0.02	0.19	0.30	0.09
108.0	0.04	0.23	0.08	0.20	0.04	0.20	0.06	0.15	0.28	0.09
108.5	0.04	0.23	0.03	0.23	0.05	0.16	0.07	0.14	0.33	0.16
109.0	0.07	0.20	0.05	0.16	0.05	0.17	0.04	0.13	0.28	0.10
109.5	0.06	0.22	0.07	0.17	0.04	0.14	0.05	0.20	0.30	0.08
110.0	0.09	0.21	0.06	0.20	0.09	0.24	0.03	0.24	0.29	0.10
110.5	0.12	0.21	0.03	0.24	0.07	0.21	0.07	0.20	0.28	0.12

Photometric Toolbox Professional Edition - Copyright 2002-2015 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

CANDELA TABULATION - (Cont.)

111.0	0.10	0.24	0.07	0.22	0.05	0.24	0.04	0.20	0.27	0.15
111.5	0.11	0.24	0.08	0.22	0.07	0.21	0.05	0.24	0.30	0.12
112.0	0.09	0.19	0.08	0.19	0.05	0.16	0.06	0.24	0.35	0.14
112.5	0.12	0.17	0.10	0.23	0.10	0.17	0.09	0.16	0.31	0.12
113.0	0.07	0.22	0.08	0.22	0.08	0.20	0.08	0.21	0.29	0.13
113.5	0.07	0.22	0.08	0.19	0.13	0.23	0.08	0.20	0.27	0.19
114.0	0.10	0.22	0.09	0.23	0.09	0.13	0.05	0.21	0.33	0.12
114.5	0.10	0.23	0.08	0.25	0.07	0.19	0.08	0.17	0.30	0.13
115.0	0.09	0.21	0.09	0.25	0.09	0.17	0.09	0.20	0.29	0.16
115.5	0.09	0.25	0.10	0.21	0.11	0.23	0.05	0.25	0.34	0.14
116.0	0.11	0.22	0.08	0.28	0.10	0.21	0.08	0.24	0.32	0.15
116.5	0.12	0.23	0.10	0.19	0.07	0.22	0.08	0.25	0.32	0.19
117.0	0.10	0.28	0.10	0.21	0.10	0.21	0.07	0.27	0.32	0.16
117.5	0.10	0.21	0.13	0.26	0.12	0.24	0.11	0.22	0.38	0.17
118.0	0.08	0.24	0.10	0.25	0.12	0.28	0.10	0.22	0.31	0.19
118.5	0.11	0.29	0.08	0.25	0.12	0.24	0.07	0.24	0.35	0.13
119.0	0.11	0.25	0.11	0.20	0.12	0.24	0.07	0.19	0.29	0.20
119.5	0.14	0.25	0.10	0.27	0.14	0.20	0.08	0.24	0.33	0.15
120.0	0.14	0.26	0.09	0.26	0.11	0.21	0.12	0.27	0.34	0.15
120.5	0.13	0.26	0.11	0.22	0.12	0.22	0.12	0.19	0.39	0.15
121.0	0.15	0.25	0.11	0.28	0.12	0.19	0.10	0.19	0.32	0.23
121.5	0.13	0.22	0.13	0.26	0.15	0.21	0.13	0.20	0.33	0.21
122.0	0.11	0.22	0.10	0.22	0.12	0.24	0.11	0.25	0.33	0.15
122.5	0.15	0.24	0.13	0.28	0.09	0.22	0.13	0.17	0.32	0.21
123.0	0.14	0.29	0.17	0.26	0.12	0.23	0.10	0.24	0.31	0.22
123.5	0.12	0.26	0.15	0.22	0.08	0.23	0.09	0.24	0.34	0.20
124.0	0.13	0.27	0.11	0.21	0.13	0.23	0.11	0.20	0.32	0.21
124.5	0.11	0.26	0.19	0.24	0.17	0.23	0.12	0.20	0.31	0.20
125.0	0.12	0.25	0.09	0.23	0.11	0.22	0.14	0.24	0.32	0.17
125.5	0.07	0.22	0.13	0.19	0.16	0.14	0.11	0.22	0.35	0.20
126.0	0.12	0.28	0.11	0.24	0.14	0.22	0.15	0.20	0.35	0.22
126.5	0.15	0.21	0.12	0.22	0.14	0.24	0.10	0.21	0.33	0.21
127.0	0.17	0.25	0.15	0.23	0.15	0.22	0.14	0.23	0.29	0.15
127.5	0.15	0.19	0.12	0.27	0.13	0.20	0.10	0.24	0.29	0.22
128.0	0.20	0.22	0.10	0.28	0.15	0.26	0.12	0.21	0.33	0.20
128.5	0.20	0.28	0.14	0.25	0.13	0.16	0.13	0.17	0.32	0.23
129.0	0.15	0.25	0.15	0.25	0.15	0.25	0.14	0.21	0.31	0.20
129.5	0.12	0.29	0.13	0.22	0.12	0.25	0.09	0.22	0.33	0.22
130.0	0.12	0.25	0.11	0.24	0.15	0.23	0.10	0.21	0.33	0.27
130.5	0.12	0.25	0.16	0.22	0.16	0.22	0.14	0.19	0.29	0.21
131.0	0.19	0.23	0.21	0.27	0.20	0.17	0.11	0.20	0.28	0.24
131.5	0.16	0.25	0.15	0.26	0.15	0.21	0.15	0.17	0.33	0.20
132.0	0.16	0.27	0.15	0.23	0.15	0.28	0.09	0.22	0.32	0.21
132.5	0.19	0.25	0.17	0.25	0.13	0.24	0.10	0.15	0.36	0.25
133.0	0.14	0.27	0.16	0.25	0.16	0.23	0.13	0.24	0.34	0.22
133.5	0.22	0.26	0.12	0.25	0.15	0.22	0.15	0.22	0.30	0.21
134.0	0.16	0.23	0.16	0.23	0.16	0.20	0.11	0.22	0.32	0.19
134.5	0.20	0.31	0.17	0.32	0.15	0.26	0.16	0.23	0.36	0.25
135.0	0.16	0.31	0.16	0.25	0.15	0.25	0.22	0.20	0.39	0.22
135.5	0.16	0.27	0.12	0.24	0.17	0.27	0.15	0.24	0.32	0.28
136.0	0.17	0.24	0.17	0.28	0.20	0.24	0.12	0.25	0.29	0.29
136.5	0.17	0.26	0.22	0.23	0.21	0.20	0.15	0.26	0.35	0.26
137.0	0.19	0.27	0.16	0.27	0.20	0.24	0.19	0.23	0.37	0.29
137.5	0.22	0.29	0.15	0.26	0.19	0.25	0.15	0.22	0.33	0.23
138.0	0.14	0.29	0.19	0.30	0.23	0.24	0.16	0.20	0.35	0.24
138.5	0.22	0.28	0.21	0.26	0.17	0.29	0.19	0.20	0.32	0.26

Photometric Toolbox Professional Edition - Copyright 2002-2015 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

CANDELA TABULATION - (Cont.)

139.0	0.21	0.27	0.25	0.28	0.23	0.28	0.21	0.28	0.29	0.24
139.5	0.25	0.29	0.16	0.32	0.14	0.30	0.15	0.25	0.29	0.26
140.0	0.20	0.27	0.21	0.31	0.17	0.32	0.21	0.25	0.36	0.25
140.5	0.24	0.32	0.24	0.28	0.20	0.27	0.24	0.30	0.33	0.22
141.0	0.27	0.33	0.21	0.35	0.17	0.25	0.21	0.27	0.29	0.22
141.5	0.22	0.30	0.22	0.24	0.19	0.27	0.23	0.30	0.37	0.24
142.0	0.21	0.29	0.25	0.30	0.22	0.27	0.21	0.24	0.34	0.34
142.5	0.20	0.31	0.17	0.30	0.16	0.25	0.19	0.26	0.32	0.25
143.0	0.24	0.26	0.26	0.27	0.16	0.27	0.16	0.27	0.31	0.23
143.5	0.26	0.33	0.25	0.33	0.20	0.26	0.24	0.25	0.32	0.24
144.0	0.28	0.28	0.22	0.29	0.22	0.29	0.20	0.32	0.32	0.23
144.5	0.27	0.29	0.20	0.25	0.23	0.27	0.24	0.23	0.26	0.26
145.0	0.26	0.29	0.23	0.31	0.24	0.22	0.22	0.28	0.32	0.12
145.5	0.26	0.33	0.22	0.31	0.26	0.30	0.22	0.31	0.33	0.24
146.0	0.23	0.29	0.24	0.28	0.26	0.27	0.28	0.22	0.29	0.22
146.5	0.26	0.32	0.23	0.28	0.23	0.26	0.19	0.28	0.31	0.17
147.0	0.27	0.36	0.23	0.29	0.25	0.27	0.21	0.24	0.29	0.21
147.5	0.30	0.28	0.24	0.30	0.23	0.24	0.22	0.26	0.25	0.24
148.0	0.29	0.30	0.21	0.31	0.23	0.29	0.17	0.31	0.26	0.23
148.5	0.25	0.28	0.28	0.27	0.23	0.30	0.15	0.27	0.29	0.19
149.0	0.25	0.30	0.23	0.31	0.16	0.25	0.22	0.29	0.27	0.24
149.5	0.20	0.28	0.23	0.32	0.27	0.29	0.21	0.25	0.26	0.19
150.0	0.20	0.29	0.21	0.30	0.24	0.28	0.16	0.27	0.25	0.20
150.5	0.22	0.28	0.24	0.33	0.22	0.30	0.21	0.23	0.29	0.15
151.0	0.25	0.31	0.23	0.27	0.22	0.30	0.25	0.26	0.30	0.25
151.5	0.24	0.27	0.21	0.32	0.22	0.24	0.19	0.23	0.30	0.21
152.0	0.21	0.27	0.21	0.29	0.20	0.30	0.21	0.24	0.28	0.24
152.5	0.24	0.29	0.26	0.35	0.25	0.24	0.14	0.25	0.26	0.22
153.0	0.28	0.32	0.25	0.29	0.21	0.31	0.23	0.28	0.31	0.19
153.5	0.25	0.31	0.23	0.31	0.20	0.30	0.26	0.21	0.27	0.23
154.0	0.29	0.27	0.24	0.30	0.24	0.25	0.20	0.27	0.27	0.23
154.5	0.25	0.29	0.22	0.27	0.23	0.28	0.14	0.25	0.23	0.20
155.0	0.26	0.32	0.23	0.26	0.22	0.28	0.16	0.24	0.24	0.21
155.5	0.26	0.28	0.24	0.27	0.21	0.24	0.19	0.25	0.30	0.21
156.0	0.23	0.32	0.24	0.28	0.23	0.30	0.22	0.23	0.24	0.24
156.5	0.21	0.30	0.20	0.24	0.24	0.28	0.22	0.21	0.26	0.27
157.0	0.24	0.30	0.24	0.25	0.25	0.27	0.26	0.25	0.26	0.16
157.5	0.25	0.28	0.21	0.27	0.20	0.27	0.22	0.19	0.28	0.19
158.0	0.21	0.25	0.21	0.27	0.22	0.21	0.16	0.27	0.23	0.11
158.5	0.27	0.27	0.19	0.22	0.24	0.19	0.15	0.25	0.24	0.19
159.0	0.23	0.27	0.26	0.28	0.17	0.23	0.17	0.23	0.27	0.19
159.5	0.22	0.26	0.21	0.26	0.22	0.22	0.22	0.24	0.26	0.16
160.0	0.29	0.27	0.23	0.25	0.20	0.24	0.22	0.33	0.26	0.22
160.5	0.21	0.26	0.21	0.25	0.15	0.24	0.20	0.19	0.22	0.19
161.0	0.22	0.21	0.17	0.24	0.16	0.22	0.17	0.24	0.21	0.19
161.5	0.21	0.24	0.19	0.26	0.20	0.21	0.16	0.19	0.24	0.19
162.0	0.24	0.28	0.20	0.26	0.21	0.31	0.16	0.23	0.24	0.21
162.5	0.24	0.25	0.19	0.20	0.19	0.19	0.19	0.24	0.20	0.20
163.0	0.20	0.23	0.19	0.21	0.23	0.21	0.13	0.19	0.25	0.20
163.5	0.21	0.29	0.17	0.24	0.15	0.23	0.15	0.20	0.23	0.24
164.0	0.21	0.22	0.16	0.22	0.21	0.24	0.17	0.24	0.22	0.15
164.5	0.20	0.21	0.15	0.22	0.19	0.23	0.16	0.20	0.26	0.22
165.0	0.24	0.27	0.17	0.19	0.19	0.27	0.16	0.21	0.20	0.22
165.5	0.23	0.25	0.17	0.21	0.16	0.21	0.17	0.21	0.19	0.22
166.0	0.15	0.20	0.21	0.20	0.16	0.19	0.17	0.26	0.22	0.23
166.5	0.16	0.25	0.19	0.19	0.16	0.22	0.17	0.24	0.24	0.23

Photometric Toolbox Professional Edition - Copyright 2002-2015 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

CANDELA TABULATION - (Cont.)

167.0	0.20	0.22	0.22	0.22	0.19	0.23	0.17	0.26	0.24	0.20
167.5	0.22	0.25	0.13	0.22	0.17	0.20	0.19	0.21	0.22	0.14
168.0	0.21	0.24	0.20	0.20	0.16	0.19	0.16	0.17	0.27	0.21
168.5	0.17	0.23	0.20	0.21	0.22	0.14	0.14	0.25	0.24	0.20
169.0	0.23	0.27	0.20	0.22	0.16	0.16	0.11	0.21	0.21	0.15
169.5	0.19	0.25	0.19	0.21	0.19	0.22	0.16	0.20	0.26	0.20
170.0	0.16	0.25	0.13	0.17	0.20	0.22	0.14	0.16	0.23	0.16
170.5	0.15	0.23	0.20	0.21	0.14	0.24	0.13	0.21	0.20	0.19
171.0	0.14	0.21	0.15	0.16	0.13	0.17	0.13	0.20	0.16	0.15
171.5	0.21	0.25	0.15	0.17	0.14	0.17	0.14	0.20	0.22	0.19
172.0	0.15	0.22	0.21	0.21	0.15	0.20	0.14	0.21	0.25	0.15
172.5	0.22	0.22	0.10	0.22	0.16	0.21	0.15	0.14	0.26	0.14
173.0	0.21	0.15	0.19	0.23	0.15	0.15	0.16	0.12	0.21	0.14
173.5	0.17	0.24	0.12	0.16	0.14	0.19	0.15	0.15	0.20	0.16
174.0	0.19	0.21	0.19	0.19	0.15	0.21	0.11	0.16	0.19	0.13
174.5	0.19	0.21	0.12	0.17	0.11	0.15	0.14	0.10	0.17	0.15
175.0	0.17	0.21	0.12	0.20	0.11	0.15	0.15	0.13	0.13	0.14
175.5	0.11	0.16	0.14	0.17	0.13	0.20	0.14	0.16	0.15	0.12
176.0	0.15	0.14	0.13	0.12	0.12	0.19	0.10	0.13	0.19	0.13
176.5	0.16	0.17	0.14	0.16	0.12	0.16	0.14	0.14	0.15	0.13
177.0	0.12	0.19	0.11	0.12	0.10	0.14	0.14	0.19	0.14	0.13
177.5	0.16	0.20	0.15	0.13	0.12	0.15	0.19	0.15	0.19	0.10
178.0	0.09	0.16	0.11	0.13	0.10	0.10	0.13	0.17	0.17	0.13
178.5	0.10	0.13	0.15	0.12	0.14	0.13	0.13	0.10	0.15	0.10
179.0	0.16	0.13	0.13	0.16	0.12	0.11	0.09	0.15	0.16	0.16
179.5	0.15	0.11	0.12	0.12	0.14	0.13	0.10	0.12	0.15	0.11
180.0	0.11	0.15	0.12	0.19	0.11	0.12	0.12	0.12	0.14	0.12

Vert. Angles	**Horizontal Angles**						
	225.0	**247.5**	**270.0**	**292.5**	**315.0**	**337.5**	**360.0**
0.0	1011.29	1011.29	1011.29	1011.29	1011.29	1011.29	1011.29
0.5	1014.81	1011.32	1009.36	1006.84	1005.09	1003.13	1021.14
1.0	1014.71	1010.88	1009.25	1006.74	1005.09	1002.58	1020.81
1.5	1014.49	1010.22	1009.03	1006.08	1004.88	1002.04	1020.17
2.0	1013.95	1009.36	1008.59	1005.32	1004.44	1001.38	1019.29
2.5	1013.17	1008.37	1007.71	1004.44	1003.90	1000.19	1018.09
3.0	1012.30	1007.07	1006.84	1003.24	1002.80	998.77	1016.67
3.5	1010.99	1005.53	1005.65	1002.15	1001.71	997.35	1014.92
4.0	1009.58	1003.46	1004.55	1000.40	1000.07	995.27	1012.96
4.5	1007.50	1001.49	1002.80	998.33	998.77	993.20	1010.67
5.0	1005.65	999.20	1000.62	995.82	996.91	990.25	1007.94
5.5	1003.57	996.36	998.33	992.76	994.40	987.63	1004.99
6.0	1000.73	993.74	995.71	990.03	991.99	984.90	1001.94
6.5	998.33	990.90	993.08	987.08	989.16	981.63	998.77
7.0	995.82	987.63	990.03	983.70	985.99	978.56	995.71
7.5	992.44	984.47	986.98	980.43	983.05	975.40	992.32
8.0	989.37	981.19	983.92	977.36	979.88	971.90	989.37
8.5	986.20	978.46	980.64	973.88	976.71	969.39	986.65
9.0	983.37	975.94	977.26	971.36	973.55	966.56	984.14
9.5	980.76	973.33	974.52	968.63	970.38	964.16	981.95
10.0	977.69	971.47	972.02	966.34	967.87	962.19	980.10
10.5	975.51	970.16	969.51	964.48	965.25	960.22	978.35
11.0	973.76	968.63	967.65	962.74	963.17	958.92	976.82
11.5	972.02	967.87	965.68	961.32	961.32	957.17	975.51
12.0	970.93	967.10	964.48	960.22	960.01	955.97	974.31

Photometric Toolbox Professional Edition - Copyright 2002-2015 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

CANDELA TABULATION - (Cont.)

12.5	969.51	966.12	963.50	959.13	958.59	954.55	973.00
13.0	968.52	965.14	962.30	957.83	957.61	953.02	971.80
13.5	967.87	963.50	961.10	956.51	956.29	951.71	970.16
14.0	966.56	962.08	959.57	954.88	955.09	950.29	968.85
14.5	965.35	960.12	958.26	953.02	953.57	948.11	967.10
15.0	963.72	958.04	956.84	951.16	952.04	946.46	965.35
15.5	962.19	956.29	955.09	949.31	950.40	944.61	963.62
16.0	960.66	954.44	953.34	947.45	948.76	942.32	961.87
16.5	959.46	952.37	951.61	945.16	947.12	940.46	960.12
17.0	958.80	950.83	949.63	943.20	945.49	938.61	958.26
17.5	957.38	949.09	947.78	941.33	943.20	936.86	956.95
18.0	955.64	947.56	945.60	939.37	941.12	935.23	955.53
18.5	953.67	946.15	943.85	937.85	939.81	933.26	953.67
19.0	953.13	944.50	942.43	935.77	939.15	931.73	952.37
19.5	951.05	942.98	940.69	933.91	936.20	929.87	950.73
20.0	948.65	941.23	939.15	932.16	933.81	927.80	949.42
20.5	946.46	939.70	937.62	930.64	931.19	926.27	947.88
21.0	944.40	937.62	935.87	928.89	929.44	924.42	946.03
21.5	942.32	935.11	934.68	926.60	926.60	922.23	944.50
22.0	939.70	932.72	932.49	924.31	924.09	920.05	942.32
22.5	937.62	930.97	930.20	922.01	922.23	917.76	940.36
23.0	935.66	928.56	928.13	919.39	920.15	915.79	938.83
23.5	933.37	926.49	925.84	917.32	918.30	914.05	937.30
24.0	931.51	925.07	923.98	915.46	916.34	912.08	935.66
24.5	929.77	924.09	922.56	913.50	914.15	910.66	934.57
25.0	928.02	923.22	920.71	912.18	912.18	909.13	933.59
25.5	927.03	923.00	919.51	911.21	910.33	908.04	932.82
26.0	926.60	922.89	918.52	910.44	909.24	907.05	932.39
26.5	926.27	922.67	917.86	909.79	908.80	906.08	932.39
27.0	926.16	922.23	917.54	909.24	908.26	905.42	932.06
27.5	925.94	922.45	917.54	908.80	908.04	904.55	932.28
28.0	925.51	923.00	917.32	908.59	907.71	903.78	932.60
28.5	925.51	924.09	917.86	908.70	907.17	903.78	933.04
29.0	925.94	925.51	918.09	909.13	906.84	903.46	933.91
29.5	926.71	927.80	919.18	910.22	906.84	903.57	934.78
30.0	927.36	930.31	920.71	911.42	906.95	903.89	935.99
30.5	928.45	933.59	923.00	913.28	907.50	904.33	937.52
31.0	930.74	937.52	925.73	915.90	908.91	905.31	939.48
31.5	933.26	941.12	929.32	919.18	910.22	906.84	942.21
32.0	935.99	944.73	933.04	922.45	911.21	908.91	945.49
32.5	939.27	949.86	936.97	926.71	913.83	911.42	949.53
33.0	942.87	955.53	941.02	930.74	916.88	914.59	954.88
33.5	946.69	962.41	945.16	935.11	920.05	917.54	960.66
34.0	951.82	968.63	950.95	940.57	923.76	921.14	966.67
34.5	956.41	974.31	956.18	945.49	927.59	926.27	974.97
35.0	961.75	982.28	961.42	950.62	932.28	930.97	983.81
35.5	967.97	991.66	967.00	955.20	936.32	935.87	995.49
36.0	974.42	1004.44	972.78	961.10	941.23	942.54	1009.58
36.5	982.82	1026.06	980.20	969.84	947.24	949.09	1033.48
37.0	994.94	1055.21	990.69	979.77	953.46	958.59	1067.22
37.5	1009.68	1086.55	1003.79	993.20	961.87	970.16	1089.71
38.0	1038.94	1118.42	1024.85	1014.59	971.69	984.90	1106.52
38.5	1073.44	1151.50	1053.03	1046.04	985.56	1008.49	1126.06
39.0	1110.34	1191.57	1090.80	1096.37	1007.71	1036.76	1144.73
39.5	1155.54	1213.08	1139.39	1140.91	1037.63	1077.48	1175.96
40.0	1186.11	1215.81	1175.96	1166.24	1079.12	1120.06	1200.74

Photometric Toolbox Professional Edition - Copyright 2002-2015 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

CANDELA TABULATION - (Cont.)

40.5	1198.56	1202.16	1196.59	1172.46	1127.70	1132.39	1200.09
41.0	1195.39	1180.33	1203.25	1164.16	1148.66	1123.88	1188.73
41.5	1181.75	1151.94	1191.46	1144.95	1144.73	1102.92	1171.26
42.0	1157.07	1132.94	1166.79	1123.01	1127.05	1087.31	1156.20
42.5	1137.64	1123.01	1145.06	1110.78	1106.52	1078.90	1147.47
43.0	1125.08	1122.03	1130.21	1102.81	1092.32	1075.84	1147.68
43.5	1119.62	1126.39	1121.80	1102.92	1086.65	1077.37	1152.60
44.0	1120.60	1134.47	1120.71	1109.25	1085.13	1084.69	1160.89
44.5	1126.72	1147.57	1123.99	1119.74	1089.05	1095.16	1171.49
45.0	1137.31	1162.53	1132.51	1131.42	1096.91	1106.63	1186.33
45.5	1149.98	1182.39	1143.75	1144.95	1107.83	1121.70	1202.38
46.0	1167.12	1202.05	1157.40	1163.07	1119.62	1138.40	1221.04
46.5	1184.69	1223.45	1175.84	1181.63	1134.04	1159.15	1244.96
47.0	1204.99	1250.09	1195.94	1204.89	1153.14	1179.34	1268.32
47.5	1230.33	1275.96	1220.50	1228.14	1172.13	1201.94	1296.60
48.0	1254.89	1304.13	1244.63	1253.36	1193.21	1229.24	1323.57
48.5	1281.64	1338.52	1269.85	1284.26	1219.08	1254.89	1352.72
49.0	1313.95	1371.71	1300.64	1313.41	1244.30	1286.01	1387.54
49.5	1344.30	1405.77	1329.46	1344.09	1271.59	1315.70	1419.31
50.0	1380.33	1445.29	1360.47	1381.10	1303.59	1347.04	1452.83
50.5	1414.94	1483.18	1397.80	1416.80	1334.59	1384.04	1491.25
51.0	1450.75	1526.95	1433.50	1453.92	1371.60	1419.20	1526.74
51.5	1492.03	1566.48	1474.66	1495.62	1406.10	1455.77	1566.15
52.0	1530.45	1606.66	1513.21	1533.62	1442.24	1496.06	1601.42
52.5	1568.99	1650.76	1552.17	1576.85	1483.29	1533.29	1635.59
53.0	1612.66	1689.19	1594.42	1615.29	1520.63	1570.85	1671.62
53.5	1651.09	1726.09	1631.33	1652.84	1562.33	1609.71	1701.20
54.0	1688.98	1763.87	1665.72	1691.70	1599.67	1641.70	1728.82
54.5	1730.57	1793.13	1702.40	1722.81	1636.68	1673.14	1754.81
55.0	1766.49	1820.21	1731.44	1749.90	1676.97	1699.02	1775.22
55.5	1804.92	1841.17	1755.90	1776.54	1712.01	1720.75	1795.20
56.0	1837.46	1857.32	1776.10	1795.43	1745.74	1740.07	1810.27
56.5	1867.37	1871.74	1794.01	1811.79	1779.26	1753.28	1822.71
57.0	1896.52	1880.36	1808.96	1822.93	1806.56	1763.43	1834.29
57.5	1917.48	1886.14	1820.97	1831.01	1831.89	1769.76	1841.27
58.0	1931.89	1888.44	1832.33	1837.56	1847.72	1773.80	1844.22
58.5	1937.02	1887.46	1838.98	1840.30	1856.35	1775.44	1844.55
59.0	1935.93	1883.20	1840.73	1839.97	1858.64	1773.92	1841.27
59.5	1927.96	1876.21	1840.40	1836.47	1854.37	1769.66	1832.98
60.0	1913.11	1865.19	1835.60	1829.26	1843.89	1759.94	1820.97
60.5	1892.37	1850.12	1826.75	1817.58	1825.12	1747.93	1805.24
61.0	1864.42	1833.52	1815.62	1805.36	1801.43	1731.88	1784.18
61.5	1832.76	1814.53	1801.75	1790.07	1771.29	1709.50	1761.36
62.0	1794.44	1788.87	1783.52	1768.01	1729.37	1684.72	1734.18
62.5	1742.91	1760.16	1760.49	1742.26	1685.59	1649.12	1701.75
63.0	1691.60	1722.50	1736.80	1706.88	1632.86	1609.93	1667.58
63.5	1629.03	1682.64	1707.86	1670.09	1581.44	1566.81	1628.60
64.0	1566.48	1638.20	1679.69	1625.43	1525.32	1512.88	1590.06
64.5	1498.35	1580.23	1646.50	1568.67	1454.90	1458.94	1548.25
65.0	1421.82	1521.82	1607.09	1511.46	1388.20	1399.88	1497.80
65.5	1349.44	1458.06	1567.68	1450.42	1320.07	1330.55	1447.59
66.0	1274.76	1380.23	1523.90	1378.37	1242.55	1263.85	1390.26
66.5	1190.48	1305.65	1468.33	1308.06	1171.26	1185.23	1317.23
67.0	1110.56	1217.88	1412.76	1233.93	1088.94	1108.70	1248.01
67.5	1017.43	1129.56	1348.23	1143.75	1012.41	1028.13	1168.42
68.0	932.93	1036.32	1280.22	1056.84	932.16	934.24	1090.03

Photometric Toolbox Professional Edition - Copyright 2002-2015 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

CANDELA TABULATION - (Cont.)

68.5	845.80	931.62	1200.74	958.59	840.67	849.20	1005.32
69.0	748.09	831.62	1110.34	870.15	757.81	751.37	897.56
69.5	658.14	726.91	1023.98	772.77	672.54	657.05	792.42
70.0	567.74	611.52	925.40	660.98	579.42	585.31	695.80
70.5	468.71	561.52	806.94	586.96	495.14	463.25	599.61
71.0	377.71	419.41	689.04	457.50	384.58	386.11	465.63
71.5	305.32	324.82	575.82	371.76	323.36	303.32	357.60
72.0	241.39	238.96	401.09	284.26	261.24	214.75	267.03
72.5	177.95	168.23	346.36	193.70	193.38	147.84	193.33
73.0	119.70	128.95	233.68	136.80	137.72	105.41	139.52
73.5	86.86	104.17	156.19	105.18	93.89	82.00	114.87
74.0	70.75	86.41	113.14	85.05	69.11	71.25	101.45
74.5	64.59	75.24	93.27	73.35	61.41	63.58	93.29
75.0	62.31	66.38	83.92	65.28	58.03	58.92	87.45
75.5	60.17	61.35	77.67	58.91	56.28	55.95	82.89
76.0	58.20	59.05	72.86	55.93	54.85	53.91	79.60
76.5	56.09	56.83	69.77	54.02	53.01	52.04	76.16
77.0	53.51	54.68	66.60	51.29	51.01	49.75	72.33
77.5	50.88	51.41	63.69	48.74	48.77	46.67	68.68
78.0	48.14	47.80	60.51	45.47	46.05	43.68	64.67
78.5	45.02	44.56	56.79	42.46	43.43	40.18	59.95
79.0	42.26	40.94	53.30	39.51	3.88	37.03	55.83
79.5	38.50	37.68	49.63	36.11	37.68	33.88	50.67
80.0	36.66	34.41	45.43	33.06	35.26	30.28	46.45
80.5	33.94	30.87	41.58	29.58	32.31	27.24	42.37
81.0	30.89	27.69	37.07	26.65	29.74	24.32	38.00
81.5	28.17	24.57	34.32	23.85	27.19	21.41	34.36
82.0	25.58	21.31	31.04	20.88	24.57	19.07	30.93
82.5	22.89	18.81	27.61	18.45	22.34	16.87	27.46
83.0	20.69	16.49	24.77	16.12	19.98	15.11	24.59
83.5	18.54	14.73	22.29	14.34	17.84	13.55	21.68
84.0	16.18	13.15	19.74	12.76	15.74	12.00	19.39
84.5	14.32	11.56	17.72	11.24	13.89	10.75	17.30
85.0	12.70	10.29	15.73	10.10	12.62	9.60	15.07
85.5	11.45	9.19	14.09	9.07	11.44	8.35	12.97
86.0	10.35	7.99	12.65	7.94	10.23	6.92	10.57
86.5	9.14	6.79	11.15	6.61	9.16	4.95	7.45
87.0	7.89	5.04	9.69	4.96	7.73	4.01	5.06
87.5	6.05	3.90	7.77	3.87	5.77	2.29	3.13
88.0	4.50	2.45	5.67	2.22	3.14	0.46	1.20
88.5	1.81	0.66	3.14	0.41	1.33	0.05	0.06
89.0	0.70	0.06	1.10	0.02	0.62	0.01	0.00
89.5	0.53	0.00	0.60	0.03	0.45	0.02	0.00
90.0	0.42	0.00	0.48	0.01	0.44	0.01	0.00
90.5	0.44	0.01	0.50	0.00	0.36	0.00	0.01
91.0	0.42	0.00	0.50	0.00	0.35	0.00	0.00
91.5	0.37	0.00	0.43	0.00	0.36	0.02	0.00
92.0	0.38	0.00	0.39	0.00	0.37	0.00	0.00
92.5	0.34	0.01	0.36	0.00	0.32	0.03	0.00
93.0	0.34	0.00	0.36	0.02	0.33	0.02	0.02
93.5	0.31	0.02	0.38	0.02	0.29	0.02	0.00
94.0	0.32	0.05	0.40	0.04	0.32	0.02	0.01
94.5	0.28	0.03	0.27	0.01	0.29	0.00	0.00
95.0	0.33	0.02	0.34	0.01	0.22	0.02	0.01
95.5	0.29	0.01	0.34	0.00	0.27	0.02	0.00
96.0	0.30	0.02	0.26	0.03	0.28	0.03	0.00

Photometric Toolbox Professional Edition - Copyright 2002-2015 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

CANDELA TABULATION - (Cont.)

96.5	0.26	0.01	0.24	0.04	0.24	0.01	0.01
97.0	0.26	0.03	0.28	0.05	0.32	0.01	0.00
97.5	0.27	0.03	0.29	0.02	0.27	0.03	0.00
98.0	0.24	0.01	0.27	0.03	0.24	0.02	0.02
98.5	0.28	0.03	0.30	0.03	0.30	0.01	0.02
99.0	0.26	0.01	0.28	0.03	0.21	0.07	0.00
99.5	0.22	0.04	0.25	0.02	0.22	0.03	0.00
100.0	0.24	0.04	0.22	0.02	0.25	0.04	0.00
100.5	0.27	0.01	0.26	0.05	0.22	0.06	0.03
101.0	0.24	0.06	0.27	0.06	0.27	0.06	0.02
101.5	0.26	0.05	0.27	0.05	0.22	0.03	0.01
102.0	0.26	0.06	0.25	0.04	0.24	0.03	0.04
102.5	0.25	0.04	0.26	0.06	0.28	0.05	0.01
103.0	0.22	0.06	0.22	0.06	0.25	0.06	0.01
103.5	0.25	0.04	0.27	0.04	0.25	0.05	0.03
104.0	0.24	0.08	0.28	0.03	0.23	0.04	0.04
104.5	0.27	0.04	0.27	0.07	0.24	0.04	0.05
105.0	0.27	0.04	0.27	0.06	0.25	0.06	0.09
105.5	0.27	0.05	0.27	0.09	0.24	0.05	0.04
106.0	0.28	0.06	0.24	0.10	0.23	0.05	0.03
106.5	0.24	0.07	0.26	0.06	0.28	0.06	0.06
107.0	0.29	0.11	0.26	0.05	0.27	0.07	0.06
107.5	0.30	0.07	0.26	0.10	0.28	0.08	0.05
108.0	0.26	0.10	0.29	0.14	0.28	0.07	0.04
108.5	0.24	0.06	0.29	0.07	0.24	0.07	0.04
109.0	0.26	0.06	0.26	0.07	0.27	0.09	0.07
109.5	0.26	0.08	0.27	0.08	0.24	0.08	0.06
110.0	0.25	0.08	0.33	0.10	0.27	0.13	0.09
110.5	0.23	0.11	0.33	0.09	0.34	0.07	0.12
111.0	0.29	0.09	0.25	0.07	0.23	0.12	0.10
111.5	0.29	0.11	0.27	0.15	0.29	0.13	0.11
112.0	0.29	0.11	0.28	0.08	0.27	0.13	0.09
112.5	0.28	0.13	0.29	0.08	0.27	0.13	0.12
113.0	0.27	0.13	0.27	0.11	0.27	0.12	0.07
113.5	0.29	0.15	0.26	0.12	0.30	0.13	0.07
114.0	0.25	0.13	0.25	0.11	0.26	0.12	0.10
114.5	0.31	0.16	0.29	0.11	0.28	0.17	0.10
115.0	0.26	0.15	0.28	0.16	0.27	0.12	0.09
115.5	0.28	0.15	0.33	0.13	0.28	0.13	0.09
116.0	0.32	0.14	0.27	0.15	0.24	0.15	0.11
116.5	0.31	0.15	0.32	0.16	0.28	0.16	0.12
117.0	0.32	0.15	0.25	0.15	0.29	0.13	0.10
117.5	0.27	0.15	0.34	0.16	0.30	0.14	0.10
118.0	0.35	0.16	0.31	0.20	0.27	0.14	0.08
118.5	0.31	0.13	0.31	0.14	0.29	0.12	0.11
119.0	0.27	0.14	0.32	0.16	0.33	0.20	0.11
119.5	0.32	0.13	0.33	0.14	0.25	0.16	0.14
120.0	0.32	0.16	0.34	0.15	0.29	0.16	0.14
120.5	0.30	0.14	0.30	0.23	0.30	0.22	0.13
121.0	0.29	0.16	0.33	0.15	0.28	0.12	0.15
121.5	0.30	0.16	0.29	0.19	0.26	0.16	0.13
122.0	0.35	0.13	0.31	0.17	0.25	0.16	0.11
122.5	0.34	0.19	0.31	0.15	0.34	0.15	0.15
123.0	0.27	0.16	0.30	0.19	0.30	0.16	0.14
123.5	0.27	0.21	0.27	0.16	0.30	0.21	0.12
124.0	0.30	0.23	0.28	0.17	0.29	0.21	0.13

Photometric Toolbox Professional Edition - Copyright 2002-2015 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

CANDELA TABULATION - (Cont.)

124.5	0.33	0.17	0.33	0.20	0.28	0.13	0.11
125.0	0.32	0.17	0.28	0.21	0.29	0.13	0.12
125.5	0.24	0.14	0.33	0.19	0.30	0.20	0.07
126.0	0.33	0.17	0.32	0.19	0.28	0.16	0.12
126.5	0.27	0.19	0.34	0.22	0.31	0.20	0.15
127.0	0.31	0.21	0.32	0.22	0.27	0.22	0.17
127.5	0.34	0.17	0.35	0.19	0.28	0.19	0.15
128.0	0.27	0.19	0.31	0.19	0.29	0.19	0.20
128.5	0.30	0.20	0.28	0.15	0.26	0.13	0.20
129.0	0.29	0.21	0.32	0.16	0.31	0.23	0.15
129.5	0.30	0.17	0.33	0.21	0.36	0.19	0.12
130.0	0.26	0.20	0.27	0.21	0.27	0.22	0.12
130.5	0.31	0.16	0.29	0.17	0.27	0.20	0.12
131.0	0.32	0.21	0.31	0.24	0.29	0.22	0.19
131.5	0.28	0.13	0.30	0.24	0.31	0.19	0.16
132.0	0.28	0.27	0.30	0.23	0.29	0.21	0.16
132.5	0.29	0.21	0.31	0.21	0.29	0.22	0.19
133.0	0.29	0.22	0.33	0.22	0.28	0.16	0.14
133.5	0.34	0.17	0.29	0.19	0.32	0.19	0.22
134.0	0.31	0.20	0.33	0.23	0.26	0.23	0.16
134.5	0.30	0.20	0.31	0.26	0.26	0.23	0.20
135.0	0.28	0.21	0.28	0.21	0.33	0.19	0.16
135.5	0.25	0.25	0.31	0.26	0.27	0.19	0.16
136.0	0.34	0.24	0.28	0.23	0.28	0.19	0.17
136.5	0.34	0.19	0.30	0.23	0.24	0.24	0.17
137.0	0.33	0.24	0.34	0.26	0.32	0.17	0.19
137.5	0.27	0.21	0.32	0.22	0.31	0.21	0.22
138.0	0.32	0.20	0.34	0.21	0.33	0.23	0.14
138.5	0.26	0.22	0.30	0.22	0.25	0.20	0.22
139.0	0.27	0.21	0.28	0.22	0.28	0.25	0.21
139.5	0.27	0.26	0.31	0.22	0.25	0.19	0.25
140.0	0.32	0.19	0.33	0.22	0.29	0.21	0.20
140.5	0.32	0.22	0.32	0.26	0.32	0.19	0.24
141.0	0.27	0.23	0.32	0.22	0.31	0.25	0.27
141.5	0.27	0.20	0.30	0.25	0.38	0.21	0.22
142.0	0.33	0.28	0.30	0.24	0.36	0.25	0.21
142.5	0.36	0.24	0.27	0.22	0.32	0.25	0.20
143.0	0.28	0.24	0.30	0.23	0.30	0.21	0.24
143.5	0.26	0.22	0.27	0.19	0.28	0.23	0.26
144.0	0.32	0.26	0.29	0.23	0.28	0.20	0.28
144.5	0.28	0.16	0.31	0.22	0.32	0.22	0.27
145.0	0.31	0.21	0.32	0.22	0.27	0.25	0.26
145.5	0.28	0.23	0.29	0.21	0.29	0.23	0.26
146.0	0.30	0.20	0.31	0.22	0.27	0.23	0.23
146.5	0.26	0.20	0.32	0.17	0.29	0.15	0.26
147.0	0.27	0.21	0.29	0.22	0.23	0.22	0.27
147.5	0.26	0.14	0.27	0.20	0.27	0.15	0.30
148.0	0.29	0.17	0.27	0.24	0.27	0.21	0.29
148.5	0.29	0.15	0.27	0.22	0.30	0.21	0.25
149.0	0.29	0.20	0.28	0.21	0.26	0.22	0.25
149.5	0.26	0.22	0.29	0.17	0.28	0.21	0.20
150.0	0.31	0.25	0.27	0.16	0.28	0.24	0.20
150.5	0.23	0.24	0.31	0.23	0.27	0.23	0.22
151.0	0.26	0.17	0.27	0.19	0.27	0.23	0.25
151.5	0.24	0.15	0.24	0.15	0.25	0.19	0.24
152.0	0.28	0.16	0.27	0.15	0.27	0.16	0.21

Photometric Toolbox Professional Edition - Copyright 2002-2015 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

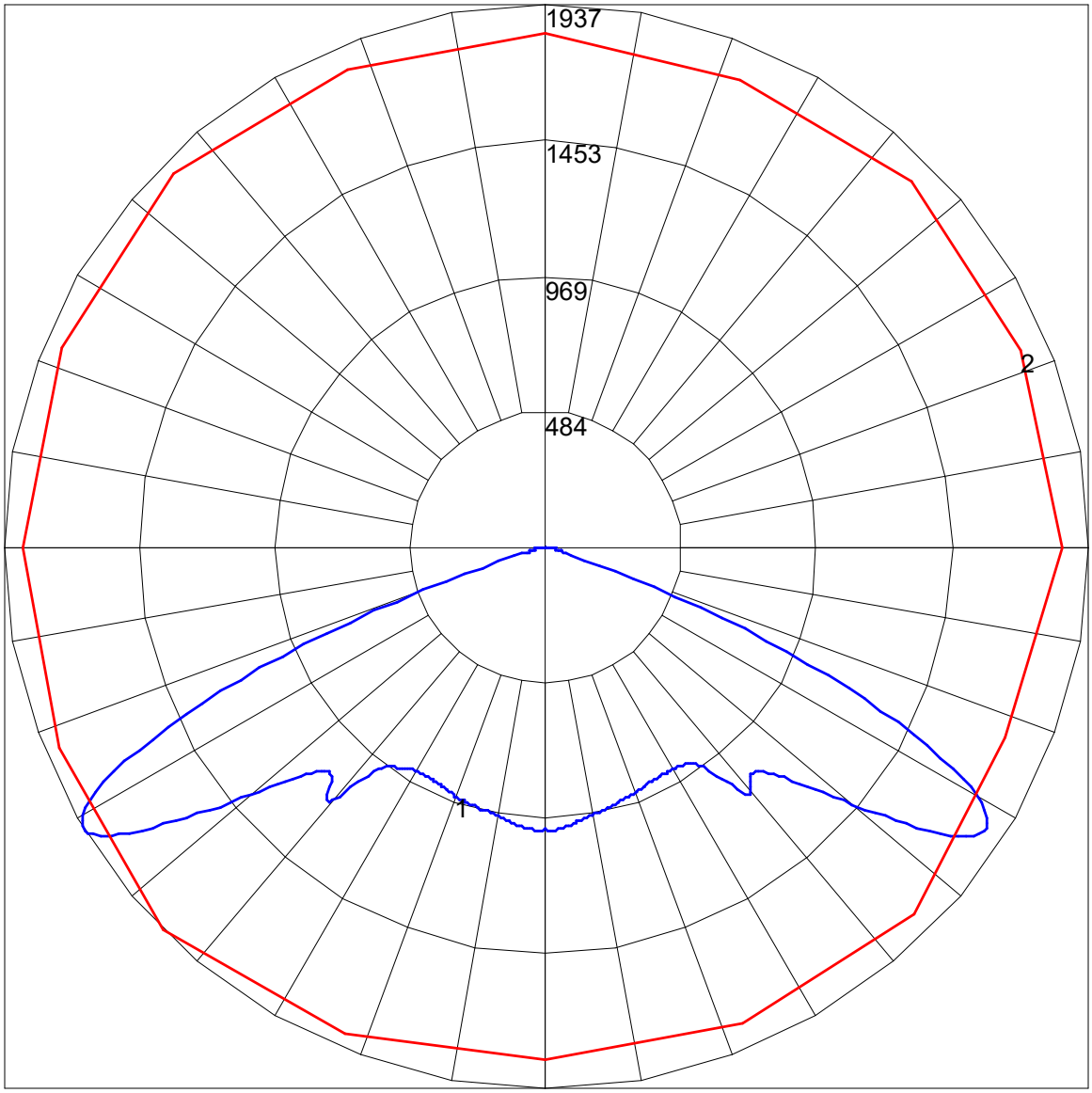
CANDELA TABULATION - (Cont.)

152.5	0.25	0.19	0.25	0.20	0.25	0.20	0.24
153.0	0.28	0.20	0.25	0.19	0.24	0.19	0.28
153.5	0.24	0.21	0.27	0.17	0.20	0.22	0.25
154.0	0.21	0.16	0.27	0.23	0.28	0.16	0.29
154.5	0.28	0.17	0.25	0.15	0.20	0.16	0.25
155.0	0.25	0.17	0.24	0.16	0.26	0.15	0.26
155.5	0.22	0.15	0.23	0.19	0.22	0.15	0.26
156.0	0.26	0.24	0.24	0.21	0.23	0.22	0.23
156.5	0.26	0.19	0.22	0.19	0.23	0.14	0.21
157.0	0.23	0.17	0.30	0.17	0.22	0.20	0.24
157.5	0.24	0.16	0.26	0.21	0.23	0.16	0.25
158.0	0.24	0.16	0.23	0.15	0.22	0.17	0.21
158.5	0.23	0.17	0.23	0.16	0.24	0.19	0.27
159.0	0.23	0.16	0.22	0.21	0.16	0.13	0.23
159.5	0.22	0.14	0.20	0.15	0.20	0.19	0.22
160.0	0.29	0.17	0.22	0.17	0.21	0.12	0.29
160.5	0.25	0.16	0.17	0.24	0.24	0.19	0.21
161.0	0.24	0.17	0.24	0.19	0.29	0.13	0.22
161.5	0.23	0.20	0.17	0.20	0.21	0.17	0.21
162.0	0.17	0.20	0.16	0.17	0.20	0.16	0.24
162.5	0.17	0.13	0.21	0.17	0.23	0.15	0.24
163.0	0.21	0.19	0.21	0.21	0.24	0.23	0.20
163.5	0.25	0.15	0.24	0.15	0.20	0.17	0.21
164.0	0.20	0.14	0.19	0.21	0.23	0.14	0.21
164.5	0.20	0.19	0.19	0.15	0.19	0.17	0.20
165.0	0.22	0.19	0.20	0.20	0.19	0.15	0.24
165.5	0.20	0.20	0.22	0.13	0.21	0.22	0.23
166.0	0.16	0.20	0.17	0.13	0.25	0.14	0.15
166.5	0.21	0.19	0.22	0.15	0.23	0.21	0.16
167.0	0.25	0.23	0.25	0.22	0.20	0.17	0.20
167.5	0.19	0.21	0.22	0.14	0.19	0.15	0.22
168.0	0.22	0.21	0.24	0.20	0.20	0.20	0.21
168.5	0.15	0.16	0.20	0.13	0.19	0.16	0.17
169.0	0.19	0.16	0.25	0.16	0.22	0.19	0.23
169.5	0.24	0.20	0.21	0.19	0.21	0.15	0.19
170.0	0.21	0.15	0.20	0.20	0.21	0.14	0.16
170.5	0.20	0.15	0.22	0.15	0.12	0.16	0.15
171.0	0.20	0.14	0.20	0.14	0.19	0.15	0.14
171.5	0.25	0.14	0.19	0.13	0.15	0.09	0.21
172.0	0.21	0.12	0.17	0.17	0.23	0.10	0.15
172.5	0.19	0.14	0.15	0.16	0.19	0.15	0.22
173.0	0.17	0.20	0.16	0.14	0.13	0.15	0.21
173.5	0.14	0.11	0.20	0.14	0.15	0.15	0.17
174.0	0.17	0.13	0.12	0.17	0.16	0.13	0.19
174.5	0.13	0.15	0.19	0.16	0.13	0.14	0.19
175.0	0.19	0.12	0.13	0.15	0.19	0.13	0.17
175.5	0.13	0.14	0.17	0.14	0.16	0.15	0.11
176.0	0.16	0.17	0.17	0.14	0.11	0.12	0.15
176.5	0.17	0.13	0.12	0.10	0.14	0.12	0.16
177.0	0.13	0.13	0.13	0.09	0.13	0.15	0.12
177.5	0.15	0.13	0.15	0.12	0.12	0.13	0.16
178.0	0.11	0.13	0.11	0.15	0.13	0.14	0.09
178.5	0.15	0.16	0.15	0.11	0.11	0.10	0.10
179.0	0.16	0.13	0.16	0.14	0.14	0.12	0.16
179.5	0.14	0.14	0.15	0.12	0.12	0.13	0.15
180.0	0.13	0.12	0.12	0.14	0.12	0.16	0.11

Photometric Toolbox Professional Edition - Copyright 2002-2015 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : EPL-SBDL-V2-50RT-24-1227-140DB-50K.IES

POLAR GRAPH



Maximum Candela = 1937.02 Located At Horizontal Angle = 225, Vertical Angle = 58.5
1 - Vertical Plane Through Horizontal Angles (225 - 45) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (58.5) (Through Max. Cd.)

Photometric Toolbox Professional Edition - Copyright 2002-2015 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.