

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P227651

Luminaire Tested: **ISC-AF-800-LED-E1-T2**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P227651  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29758)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: ISC-AF-800-LED-E1-T2  
Description: IMPACT ELITE LED CYLINDER LUMINAIRE  
LIGHT SQUARE WITH ACCULED OPTICS-TYPE II  
Light Source: (16) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4901 lumens  
Efficiency: N/A  
Efficacy: 112.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium - Non-Cutoff  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 43.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

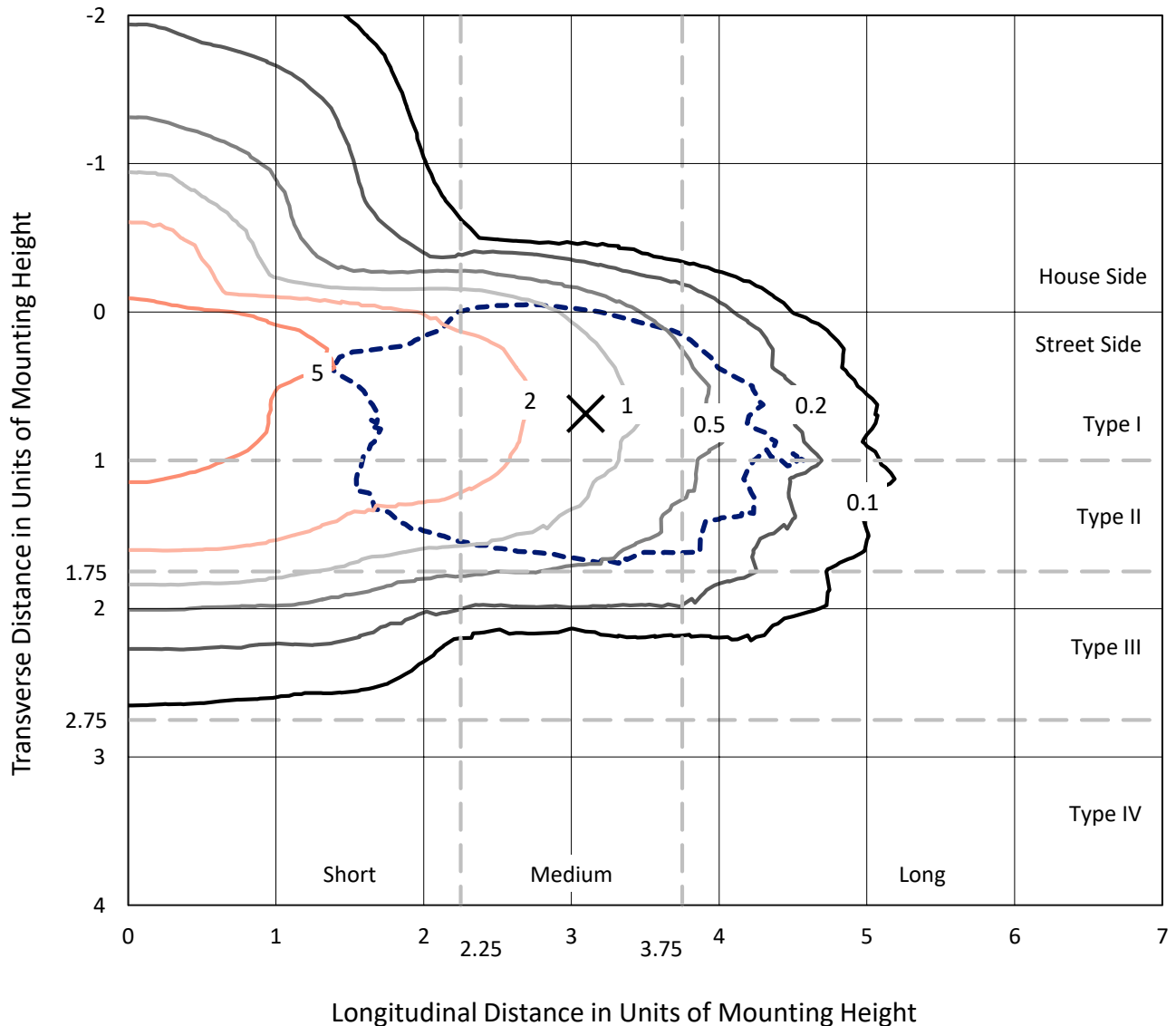


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

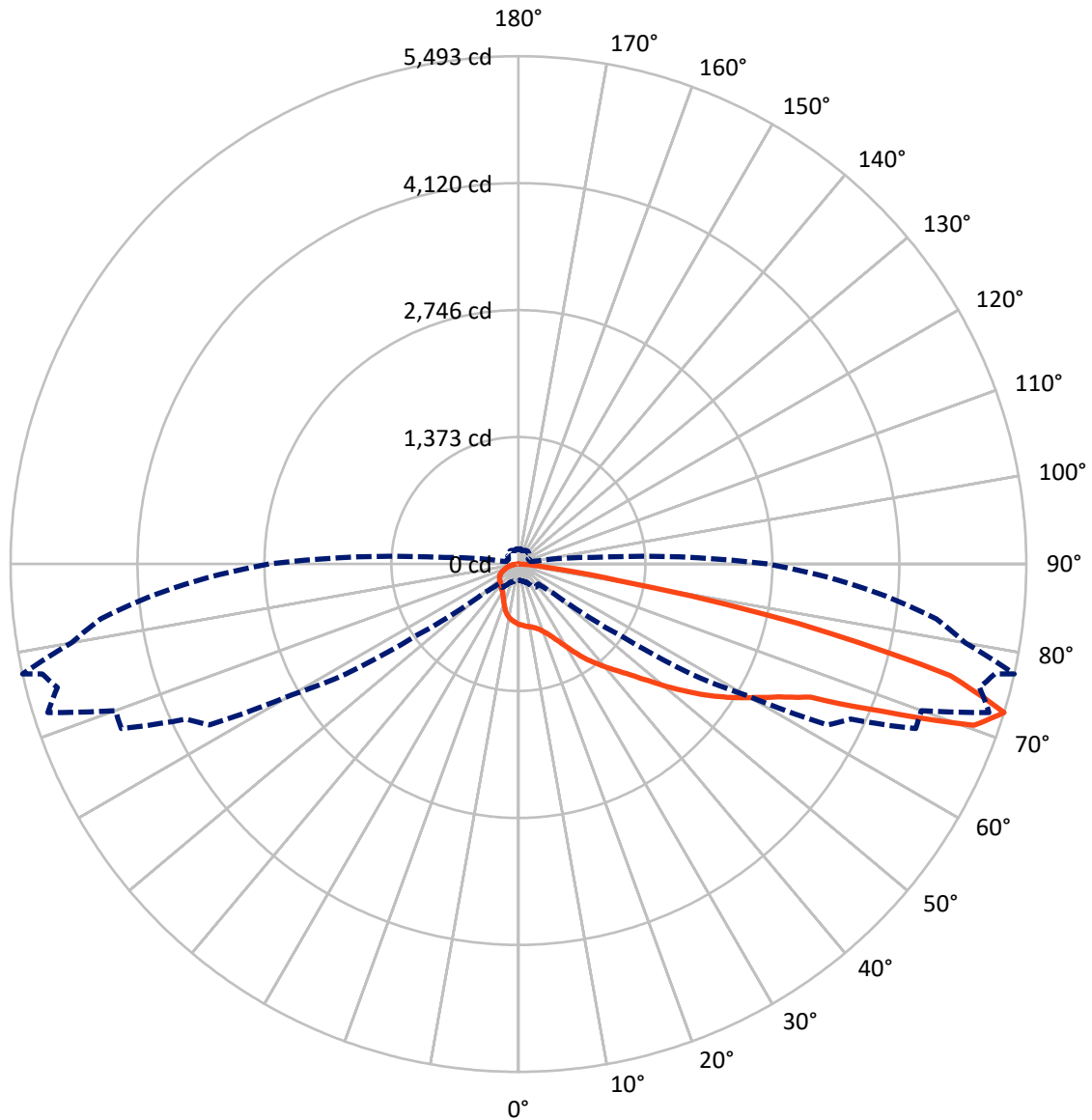


Based on 10 foot mounting height. Maximum calculated value = 8 fc  
 Type II - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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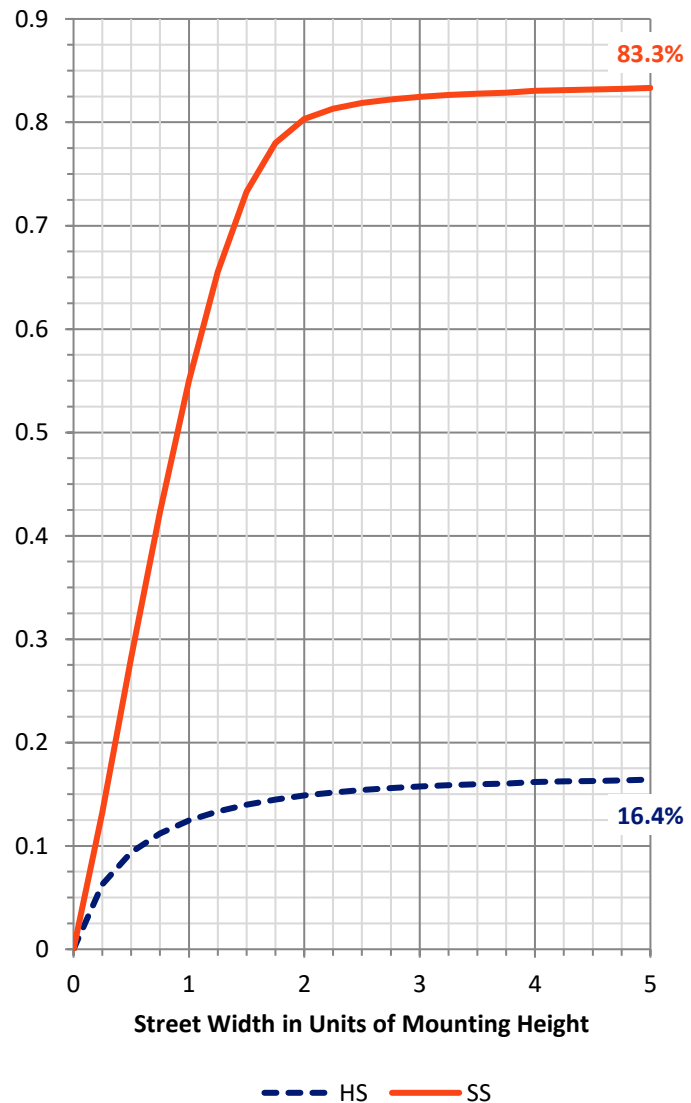
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	812.1	0.0	812.1
	% Fixture	16.6	0.0	16.6
<b>Street Side</b>	Lumens	4088.9	0.0	4088.9
	% Fixture	83.4	0.0	83.4
<b>Total</b>	Lumens	4901.0	0.0	4901.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	60.7	1.2
10°-20°	186.4	3.8
20°-30°	330.8	6.8
30°-40°	524.2	10.7
40°-50°	786.4	16.0
50°-60°	1019.0	20.8
60°-70°	1157.9	23.6
70°-80°	768.4	15.7
80°-90°	67.2	1.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4901.0	100.0
0°-180°	4901.0	100.0



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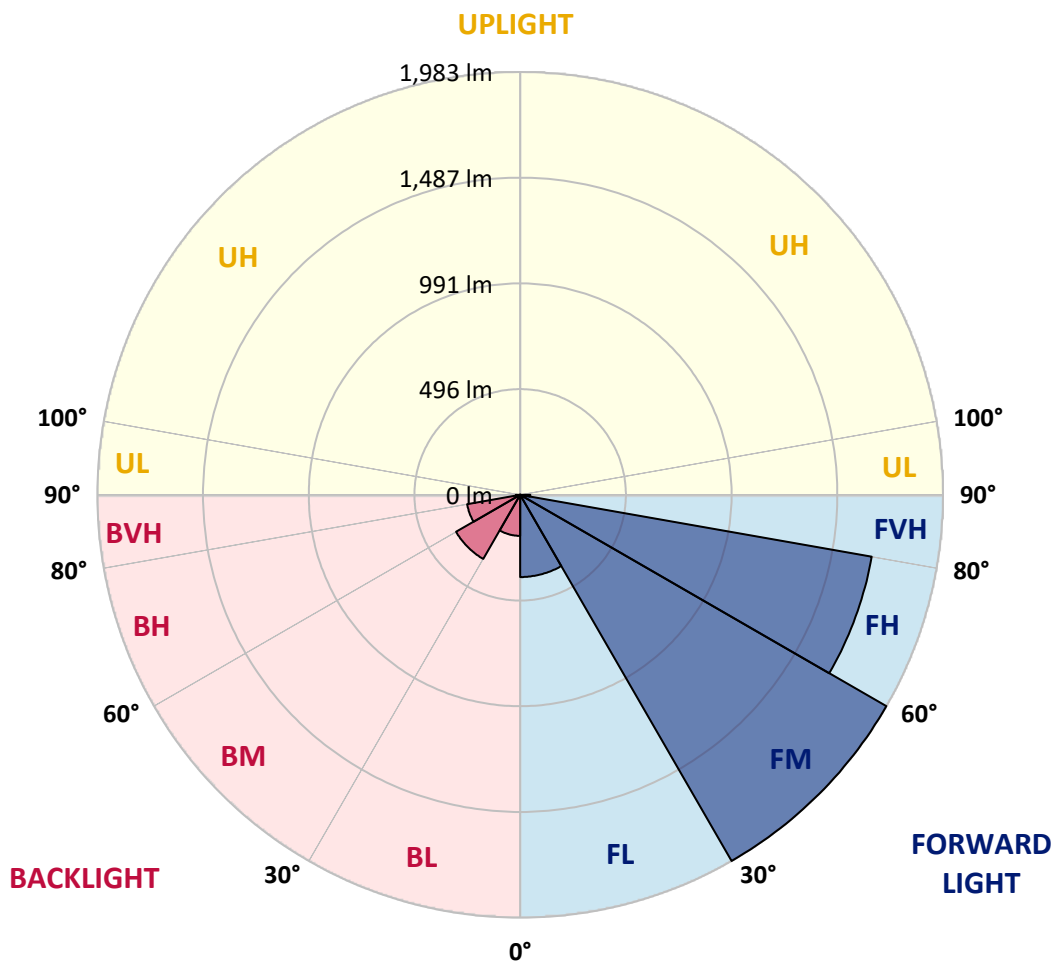
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	385.6	7.9			
FM	(30°-60°)	1982.7	40.5			
FH	(60°-80°)	1673.7	34.1			G1/1800
FVH	(80°-90°)	47.0	1.0			G1/100
BL	(0°-30°)	192.4	3.9	B1/500		
BM	(30°-60°)	346.9	7.1	B1/1000		
BH	(60°-80°)	252.5	5.2	B1/500		G1/500
BVH	(80°-90°)	20.3	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47.5°	50°
0°	654.4	654.4	654.4	654.4	654.4	654.4	654.4	654.4	654.4	654.4	654.4
2.5°	708.9	705.6	703.9	700.6	697.3	695.7	690.7	687.4	692.3	690.7	690.7
5°	761.8	758.5	753.5	748.6	741.9	737.0	732.0	727.1	730.4	727.1	723.7
7.5°	804.8	801.4	794.8	789.8	783.3	776.6	770.1	768.3	765.1	760.2	758.5
10°	829.5	826.2	822.9	819.6	809.7	804.8	796.5	791.6	793.2	786.5	786.5
12.5°	852.6	849.4	847.7	847.7	839.4	834.5	831.1	826.2	829.5	819.6	816.3
15°	874.1	870.8	865.8	870.8	869.2	867.6	865.8	864.2	869.2	859.3	860.9
17.5°	908.8	907.2	897.2	890.7	892.3	897.2	900.6	899.0	899.0	894.0	895.6
20°	963.4	963.4	950.1	938.6	920.5	920.5	922.1	920.5	923.7	927.0	932.0
22.5°	1004.6	1001.4	996.5	986.5	966.7	950.1	950.1	943.6	948.5	950.1	960.0
25°	1057.5	1054.3	1042.7	1042.7	1022.8	1001.4	998.1	988.2	999.7	978.2	994.7
27.5°	1122.0	1118.7	1103.9	1097.2	1087.3	1060.9	1054.3	1055.9	1067.4	1036.0	1052.6
30°	1203.0	1199.7	1181.5	1163.3	1146.8	1118.7	1115.4	1113.8	1140.2	1103.9	1125.3
32.5°	1305.4	1305.4	1285.6	1260.8	1227.7	1189.8	1176.5	1178.2	1214.5	1174.9	1211.3
35°	1460.8	1440.9	1404.6	1366.6	1331.9	1287.3	1269.1	1265.8	1298.8	1259.2	1300.5
37.5°	1559.9	1546.7	1513.7	1485.5	1447.6	1404.6	1391.3	1396.3	1424.4	1366.6	1426.1
40°	1649.1	1647.5	1626.0	1607.8	1569.8	1526.9	1543.3	1609.5	1683.9	1571.5	1573.1
42.5°	1708.6	1711.9	1710.3	1711.9	1690.4	1645.8	1674.0	1766.4	1893.7	1827.6	1766.4
45°	1718.6	1730.1	1735.0	1768.1	1789.6	1763.2	1778.0	1875.5	2130.0	2232.5	1956.5
47.5°	1743.3	1754.9	1744.9	1784.6	1883.8	1882.1	1941.6	1978.0	2012.7	2029.2	2237.4
50°	1776.4	1797.8	1787.9	1821.0	1902.0	1948.2	1999.5	2045.7	2017.7	1913.5	1969.7
52.5°	1778.0	1802.8	1857.4	1890.4	1969.7	1959.8	1994.4	1969.7	2012.7	1905.2	1959.8
55°	1632.6	1637.5	1796.2	1963.0	2101.9	2073.8	2052.3	1996.2	2050.7	1916.8	1986.3
57.5°	1402.9	1419.4	1584.7	1865.6	2163.0	2187.8	2181.2	2176.2	2219.2	2040.8	2116.8
60°	1150.1	1169.9	1326.9	1657.4	2035.8	2100.2	2189.5	2244.0	2354.7	2283.6	2409.3
62.5°	717.2	732.0	905.5	1318.7	1796.2	1923.5	2054.0	2118.4	2278.7	2311.8	2524.9
65°	342.1	347.0	414.8	717.2	1305.4	1545.1	1738.4	1875.5	2072.2	2220.8	2508.4
67.5°	266.1	267.7	292.5	381.7	669.2	829.5	1049.3	1231.0	1440.9	1847.4	2204.4
70°	213.2	213.2	233.0	280.9	414.8	436.3	492.4	553.5	642.8	970.0	1259.2
72.5°	178.5	178.5	191.7	221.5	307.4	312.3	309.0	304.0	304.0	383.4	489.1
75°	150.4	148.7	157.0	176.8	228.0	234.7	231.4	219.7	206.5	206.5	233.0
77.5°	122.2	122.2	128.9	138.8	165.2	168.6	168.6	158.7	147.1	148.7	160.3
80°	95.9	95.9	100.8	107.4	115.7	114.1	114.1	104.1	95.9	94.2	100.8
82.5°	69.4	71.1	82.7	77.6	74.4	69.4	69.4	67.7	61.2	56.2	59.5
85°	21.5	23.1	39.7	46.2	38.1	31.4	29.8	24.8	26.4	21.5	24.8
87.5°	0.0	0.0	0.0	0.0	1.6	0.0	0.0	0.0	1.6	0.0	1.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77°
0°	654.4	654.4	654.4	654.4	654.4	654.4	654.4	654.4	654.4	654.4	654.4
2.5°	682.4	685.8	679.1	679.1	670.9	675.9	667.6	669.2	660.9	664.3	664.3
5°	715.6	717.2	708.9	705.6	697.3	697.3	689.1	689.1	677.5	680.8	677.5
7.5°	746.9	746.9	738.7	732.0	723.7	720.5	710.5	705.6	695.7	694.1	689.1
10°	773.4	773.4	761.8	755.1	745.2	740.3	727.1	722.1	710.5	702.3	697.3
12.5°	806.4	803.1	789.8	783.3	766.7	765.1	745.2	741.9	725.4	720.5	712.2
15°	846.1	849.4	827.9	826.2	803.1	801.4	775.0	773.4	748.6	746.9	735.3
17.5°	889.0	895.6	877.5	875.7	847.7	847.7	816.3	814.7	781.6	780.0	765.1
20°	927.0	935.3	923.7	927.0	902.2	903.9	869.2	869.2	822.9	819.6	806.4
22.5°	961.7	978.2	968.3	986.5	961.7	973.2	927.0	935.3	880.8	874.1	854.3
25°	996.5	1017.9	1014.6	1044.3	1026.1	1046.0	998.1	1014.6	943.6	948.5	922.1
27.5°	1031.1	1059.2	1055.9	1098.9	1092.3	1131.9	1090.6	1108.8	1031.1	1036.0	1006.4
30°	1088.9	1120.3	1108.8	1153.4	1153.4	1217.8	1186.4	1214.5	1128.6	1138.5	1103.9
32.5°	1166.6	1203.0	1168.3	1226.1	1222.8	1307.1	1282.3	1330.2	1246.0	1259.2	1216.2
35°	1250.9	1308.8	1252.5	1316.9	1307.1	1394.7	1378.1	1455.8	1366.6	1381.4	1338.4
37.5°	1361.6	1431.0	1356.6	1412.8	1368.2	1469.1	1459.1	1564.8	1474.0	1512.0	1460.8
40°	1492.2	1546.7	1454.1	1502.1	1427.7	1531.8	1515.3	1660.7	1576.5	1637.5	1591.3
42.5°	1612.8	1650.7	1528.5	1588.0	1498.7	1604.5	1574.7	1750.0	1677.2	1771.4	1720.2
45°	1721.8	1764.8	1602.9	1668.9	1569.8	1685.5	1634.3	1835.9	1786.3	1928.4	1877.1
47.5°	1877.1	1814.4	1670.6	1756.5	1645.8	1773.1	1705.4	1936.7	1918.4	2120.1	2060.6
50°	1826.0	1867.3	1726.8	1816.0	1715.2	1870.6	1796.2	2057.3	2062.3	2328.2	2293.6
52.5°	1830.9	1900.3	1769.8	1893.7	1796.2	2006.0	1928.4	2202.7	2225.8	2529.9	2482.0
55°	1860.6	1963.0	1834.3	2001.1	1910.3	2156.4	2101.9	2359.6	2399.3	2719.9	2691.8
57.5°	1935.0	2077.1	1944.9	2163.0	2068.8	2328.2	2278.7	2521.6	2576.1	2909.9	2901.7
60°	2220.8	2389.4	2158.1	2399.3	2273.7	2523.3	2457.1	2691.8	2746.3	3091.7	3113.1
62.5°	2539.8	2832.2	2695.2	2946.3	2614.2	2867.0	2671.9	2901.7	2905.0	3286.7	3354.5
65°	2622.4	3071.9	3189.2	3656.8	3483.4	3742.8	3222.3	3375.9	3177.6	3642.0	3739.5
67.5°	2591.0	3141.3	3466.8	3993.9	4190.6	4643.4	4555.7	4502.9	4043.5	4377.3	4494.6
70°	1902.0	2485.3	3281.7	3817.1	4384.0	4681.3	5152.3	5200.2	5180.4	5134.1	5211.7
72.5°	865.8	1358.3	2220.8	2832.2	3767.5	3967.5	4649.9	4636.7	5337.3	5163.9	5286.1
75°	340.4	523.9	1057.5	1581.4	2605.9	2852.1	3625.4	3433.7	4307.9	4053.4	4314.5
77.5°	186.7	234.7	396.6	679.1	1422.7	1553.2	2219.2	1898.6	2671.9	2230.7	2318.4
80°	112.3	140.5	181.8	257.8	604.8	639.4	946.8	763.4	1092.3	829.5	804.8
82.5°	61.2	76.0	90.8	127.3	224.7	249.5	327.1	294.1	350.4	299.1	292.5
85°	24.8	33.0	34.7	51.2	74.4	85.9	104.1	112.3	137.2	125.6	122.2
87.5°	0.0	1.6	0.0	3.3	0.0	3.3	0.0	4.9	4.9	8.3	9.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





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**CANDELA DISTRIBUTION (continued):**

	77.5°	80°	82.5°	85°	87.5°	90°	95°	100°	102.5°	105°	107.5°
0°	654.4	654.4	654.4	654.4	654.4	654.4	654.4	654.4	654.4	654.4	654.4
2.5°	659.3	664.3	657.7	657.7	649.4	654.4	649.4	644.5	636.2	637.8	626.3
5°	670.9	674.2	665.9	662.7	657.7	656.0	646.1	636.2	624.6	624.6	611.4
7.5°	682.4	682.4	670.9	670.9	659.3	656.0	641.2	624.6	608.1	606.4	586.7
10°	689.1	687.4	672.6	672.6	656.0	654.4	636.2	611.4	588.3	581.6	553.5
12.5°	702.3	700.6	682.4	679.1	657.7	657.7	631.3	598.2	565.2	553.5	513.9
15°	718.8	720.5	699.0	694.1	669.2	667.6	631.3	581.6	537.0	518.8	471.0
17.5°	745.2	746.9	717.2	712.2	682.4	677.5	632.9	561.8	499.0	479.3	436.3
20°	780.0	775.0	735.3	733.7	694.1	689.1	631.3	532.0	461.0	441.2	403.1
22.5°	822.9	818.0	766.7	761.8	715.6	707.3	629.6	500.7	426.4	404.9	380.0
25°	882.4	875.7	813.0	806.4	748.6	735.3	627.9	467.6	396.6	380.0	365.2
27.5°	956.8	943.6	867.6	860.9	783.3	766.7	621.3	429.6	366.8	355.3	348.6
30°	1046.0	1034.4	936.9	927.0	829.5	808.0	614.7	395.0	345.3	340.4	335.4
32.5°	1151.7	1140.2	1021.2	1009.7	889.0	857.6	603.1	366.8	332.2	332.2	325.5
35°	1262.4	1252.5	1112.0	1103.9	955.1	913.8	588.3	342.1	320.6	320.6	313.9
37.5°	1361.6	1369.8	1211.3	1204.6	1021.2	970.0	571.7	325.5	310.7	307.4	300.7
40°	1469.1	1488.8	1303.8	1308.8	1090.6	1029.5	551.9	312.3	299.1	295.7	294.1
42.5°	1578.1	1616.1	1401.2	1419.4	1160.0	1090.6	537.0	304.0	294.1	287.6	285.9
45°	1713.5	1768.1	1521.8	1556.6	1240.9	1164.9	532.0	294.1	279.3	271.0	266.1
47.5°	1882.1	1954.9	1670.6	1710.3	1348.4	1254.2	542.0	290.8	269.3	259.4	249.5
50°	2082.1	2151.5	1847.4	1863.9	1469.1	1351.7	563.4	295.7	266.1	251.1	236.3
52.5°	2293.6	2346.4	2034.1	2015.9	1594.6	1447.6	588.3	297.5	257.8	243.0	224.7
55°	2511.7	2541.4	2207.6	2159.8	1708.6	1543.3	621.3	295.7	251.1	234.7	211.5
57.5°	2724.8	2734.8	2361.4	2315.0	1821.0	1657.4	662.7	290.8	241.2	224.7	200.0
60°	2933.1	2949.6	2531.5	2488.5	1943.3	1804.5	722.1	282.5	228.0	216.5	190.1
62.5°	3161.1	3215.6	2734.8	2741.4	2111.8	2034.1	834.5	272.6	214.8	201.6	175.1
65°	3471.8	3680.0	3070.2	3225.6	2435.6	2467.1	1049.3	244.6	196.6	180.1	161.9
67.5°	4250.1	4478.1	3884.9	3947.7	3194.2	3007.5	1184.8	208.2	173.5	161.9	150.4
70°	5225.0	5061.4	4640.0	4260.0	3637.0	3091.7	1042.7	175.1	153.6	147.1	140.5
72.5°	5492.7	4906.1	4559.1	3989.0	3362.7	2696.8	798.1	150.4	137.2	133.8	128.9
75°	4826.8	3977.4	3997.3	3169.4	2787.6	2055.6	545.3	128.9	119.0	117.3	115.7
77.5°	3086.8	2044.1	2488.5	1566.5	1609.5	951.8	266.1	107.4	102.5	102.5	99.1
80°	1097.2	680.8	770.1	494.1	449.5	302.4	143.7	85.9	82.7	84.3	82.7
82.5°	328.9	261.1	256.1	200.0	155.3	127.3	79.3	66.1	62.8	64.4	61.2
85°	132.2	102.5	85.9	66.1	54.5	49.6	43.0	44.6	39.7	43.0	38.1
87.5°	8.3	6.6	4.9	6.6	0.0	3.3	8.3	6.6	1.6	6.6	4.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CATALOG NUMBER: ISC-AF-800-LED-E1-T2

**CANDELA DISTRIBUTION (continued):**

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°
0°	654.4	654.4	654.4	654.4	654.4	654.4	654.4	654.4	654.4	654.4	654.4
2.5°	634.5	623.0	627.9	623.0	626.3	616.3	619.7	611.4	611.4	609.8	601.5
5°	613.1	601.5	599.9	588.3	589.9	576.7	575.0	560.2	560.2	547.0	522.2
7.5°	583.3	565.2	563.4	540.3	538.7	520.5	513.9	497.4	495.7	480.9	466.0
10°	545.3	517.2	512.3	482.5	484.2	464.3	462.7	451.1	451.1	444.5	444.5
12.5°	502.4	471.0	467.6	444.5	446.1	432.9	434.5	428.0	431.3	434.5	446.1
15°	462.7	437.9	434.5	419.7	421.4	418.1	423.0	423.0	428.0	436.3	456.0
17.5°	429.6	408.2	409.8	403.1	409.8	408.2	418.1	416.4	426.4	436.3	461.0
20°	399.9	388.3	393.3	391.6	399.9	399.9	408.2	409.8	418.1	431.3	459.4
22.5°	380.0	376.8	381.7	381.7	388.3	389.9	398.2	403.1	408.2	421.4	446.1
25°	368.5	366.8	371.8	373.5	378.4	380.0	388.3	388.3	396.6	404.9	418.1
27.5°	352.0	348.6	355.3	355.3	361.9	360.2	370.1	366.8	375.1	378.4	381.7
30°	340.4	335.4	340.4	338.7	343.7	338.7	343.7	338.7	343.7	343.7	338.7
32.5°	328.9	323.9	325.5	319.0	323.9	317.2	319.0	312.3	315.6	312.3	313.9
35°	317.2	310.7	310.7	302.4	302.4	294.1	297.5	290.8	297.5	302.4	300.7
37.5°	300.7	295.7	295.7	289.2	292.5	289.2	295.7	292.5	294.1	287.6	276.0
40°	290.8	294.1	292.5	297.5	294.1	289.2	284.2	274.3	272.6	269.3	262.7
42.5°	276.0	279.3	271.0	277.6	272.6	274.3	271.0	266.1	262.7	259.4	252.9
45°	254.5	254.5	247.9	257.8	252.9	262.7	259.4	259.4	256.1	251.1	246.2
47.5°	236.3	237.9	231.4	239.6	236.3	249.5	247.9	252.9	252.9	249.5	236.3
50°	224.7	221.5	216.5	224.7	223.1	234.7	236.3	246.2	244.6	246.2	234.7
52.5°	214.8	208.2	203.3	208.2	208.2	218.1	221.5	233.0	234.7	237.9	231.4
55°	203.3	195.0	191.7	195.0	195.0	204.9	209.9	218.1	223.1	233.0	229.7
57.5°	193.3	181.8	178.5	181.8	183.4	193.3	198.2	206.5	213.2	226.4	224.7
60°	181.8	171.9	168.6	173.5	175.1	185.1	190.1	198.2	203.3	218.1	218.1
62.5°	168.6	160.3	160.3	161.9	165.2	175.1	178.5	190.1	191.7	209.9	211.5
65°	157.0	152.0	152.0	153.6	157.0	165.2	166.9	178.5	180.1	198.2	203.3
67.5°	147.1	143.7	143.7	145.5	147.1	153.6	155.3	166.9	170.2	186.7	195.0
70°	137.2	133.8	132.2	132.2	137.2	142.1	145.5	157.0	158.7	173.5	183.4
72.5°	125.6	122.2	122.2	120.6	125.6	128.9	135.5	142.1	145.5	160.3	166.9
75°	114.1	110.7	110.7	109.0	112.3	119.0	120.6	127.3	128.9	142.1	148.7
77.5°	99.1	95.9	95.9	95.9	99.1	100.8	102.5	109.0	112.3	124.0	130.5
80°	82.7	79.3	81.0	79.3	84.3	77.6	82.7	89.2	92.6	99.1	95.9
82.5°	62.8	57.8	59.5	59.5	61.2	56.2	59.5	62.8	66.1	71.1	69.4
85°	39.7	34.7	38.1	34.7	38.1	33.0	36.3	36.3	39.7	36.3	34.7
87.5°	8.3	3.3	8.3	3.3	9.9	0.0	4.9	0.0	3.3	1.6	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P227651

CATALOG NUMBER: ISC-AF-800-LED-E1-T2

**CANDELA DISTRIBUTION (continued):**

	155°	165°	175°	180°
0°	654.4	654.4	654.4	654.4
2.5°	593.2	586.7	583.3	581.6
5°	508.9	497.4	494.1	490.8
7.5°	457.8	454.4	454.4	452.8
10°	447.8	452.8	454.4	454.4
12.5°	459.4	467.6	474.2	474.2
15°	474.2	489.1	497.4	497.4
17.5°	485.8	505.6	513.9	515.6
20°	487.4	507.3	518.8	520.5
22.5°	472.6	485.8	494.1	494.1
25°	434.5	441.2	446.1	446.1
27.5°	386.7	385.0	383.4	389.9
30°	337.1	333.8	327.1	333.8
32.5°	319.0	307.4	290.8	295.7
35°	290.8	287.6	279.3	280.9
37.5°	280.9	309.0	307.4	309.0
40°	269.3	304.0	302.4	305.7
42.5°	259.4	279.3	259.4	261.1
45°	241.2	249.5	233.0	233.0
47.5°	233.0	229.7	223.1	221.5
50°	226.4	226.4	223.1	219.7
52.5°	221.5	218.1	229.7	228.0
55°	214.8	211.5	219.7	219.7
57.5°	209.9	201.6	214.8	214.8
60°	204.9	196.6	209.9	209.9
62.5°	201.6	191.7	208.2	206.5
65°	196.6	186.7	208.2	204.9
67.5°	190.1	176.8	204.9	200.0
70°	176.8	165.2	193.3	180.1
72.5°	163.6	150.4	165.2	153.6
75°	143.7	132.2	133.8	132.2
77.5°	120.6	107.4	104.1	105.8
80°	90.8	82.7	79.3	79.3
82.5°	66.1	56.2	57.8	47.9
85°	29.8	21.5	16.6	16.6
87.5°	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)