

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: P227695

Luminaire Tested: **ISS-AF-800-LED-E1-T3**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P227695  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29759)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: ISS-AF-800-LED-E1-T3  
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE  
LIGHT SQUARE WITH ACCULED OPTICS-TYPE III  
Light Source: (16) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

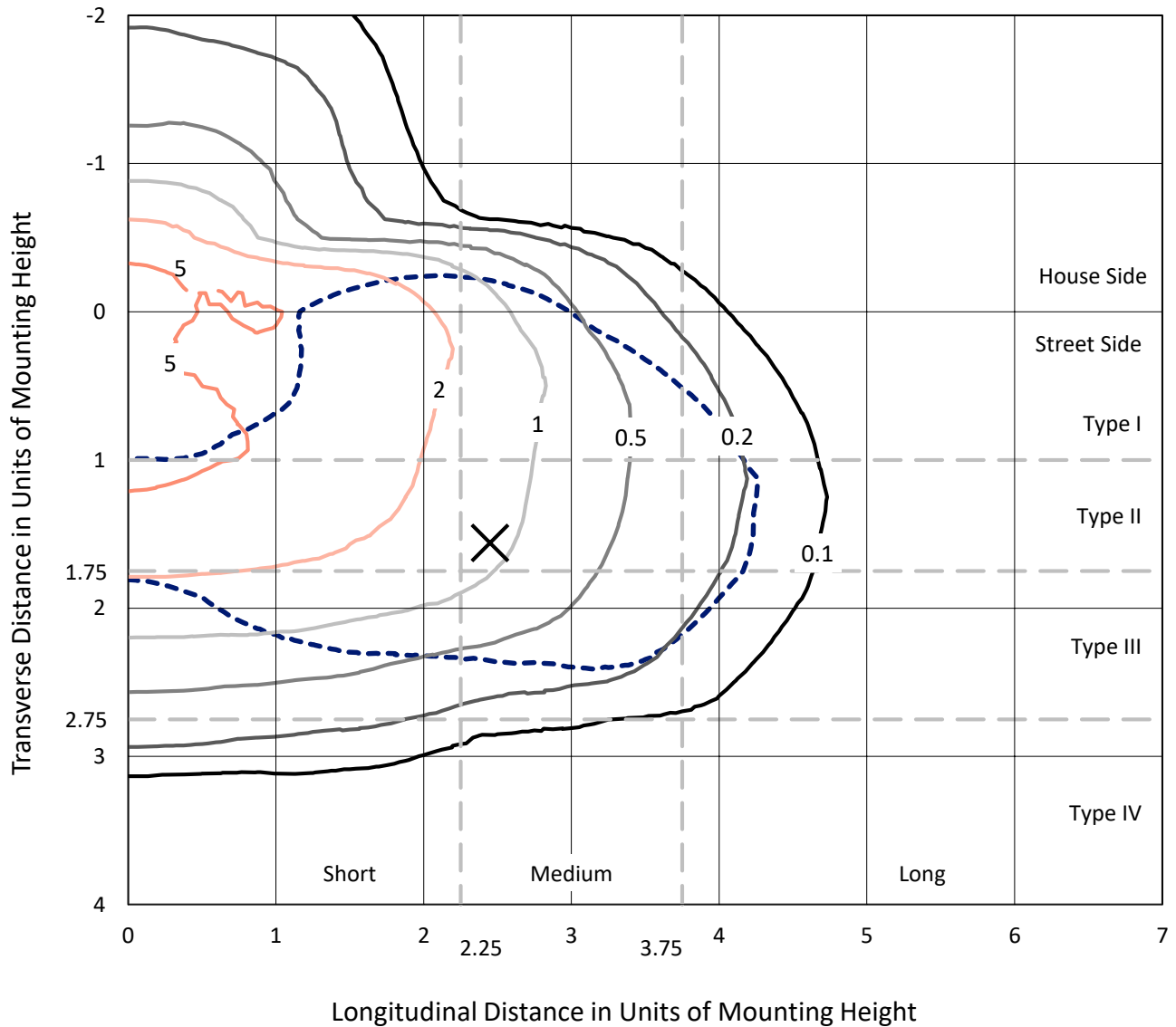
Lumens per Lamp: N/A  
Luminaire Lumens: 5001.2 lumens  
Efficiency: N/A  
Efficacy: 115.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium - Semi-Cutoff  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 43.5  
Input Voltage (V): 120  
Input 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

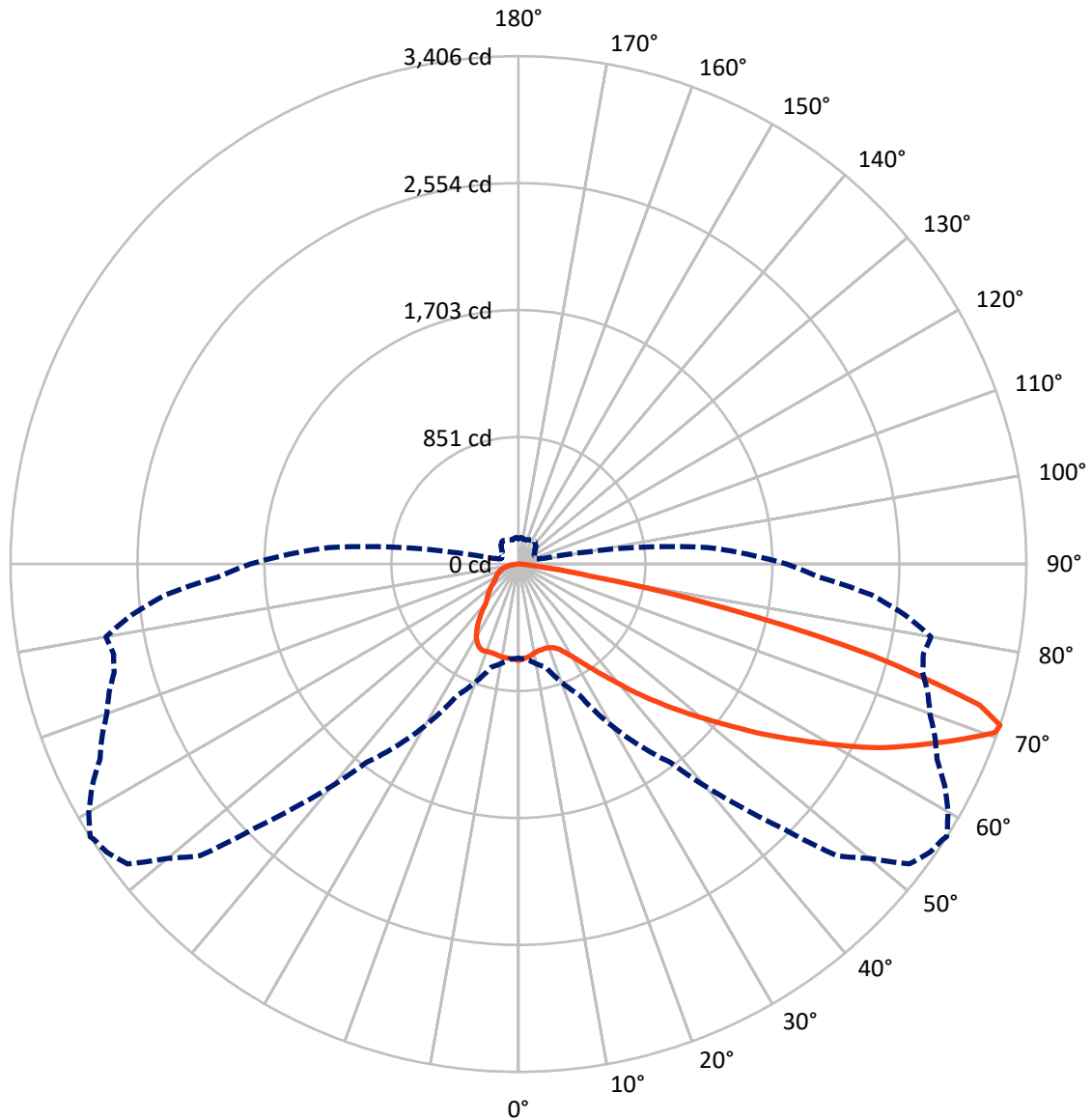


Based on 10 foot mounting height. Maximum calculated value = 6.5 fc  
 Type III - Medium - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57.5-Deg Lateral    - - - Horizontal Cone Through 71-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1088.8	0.0	1088.8
	% Fixture	21.8	0.0	21.8
<b>Street Side</b>	Lumens	3912.4	0.0	3912.4
	% Fixture	78.2	0.0	78.2
<b>Total</b>	Lumens	5001.2	0.0	5001.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	60.8	1.2
10°-20°	175.2	3.5
20°-30°	290.9	5.8
30°-40°	463.0	9.3
40°-50°	752.2	15.0
50°-60°	1127.8	22.6
60°-70°	1345.5	26.9
70°-80°	726.7	14.5
80°-90°	59.1	1.2
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°	5001.2	100.0
0°-180°	5001.2	100.0



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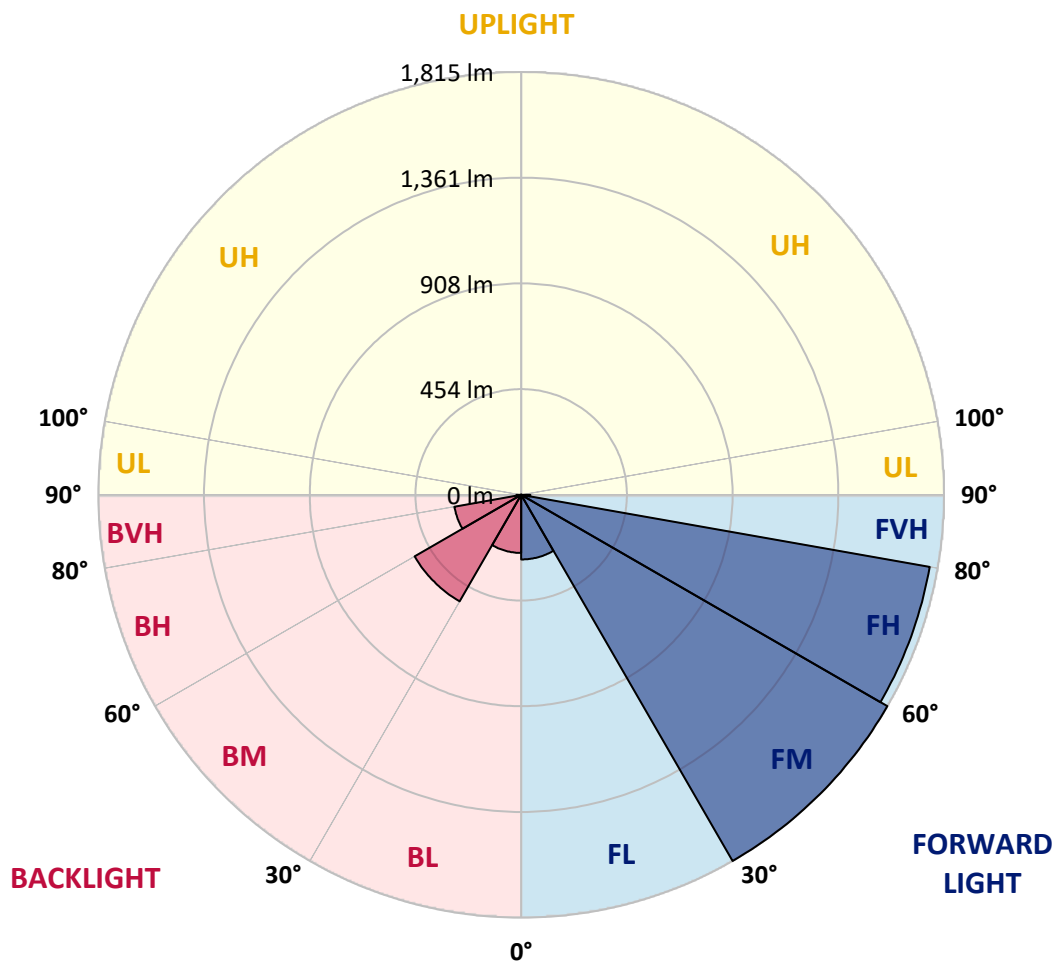
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	277.5	5.5			
FM	(30°-60°)	1815.1	36.3			
FH	(60°-80°)	1780.9	35.6			G1/1800
FVH	(80°-90°)	39.0	0.8			G1/100
BL	(0°-30°)	249.4	5.0	B1/500		
BM	(30°-60°)	528.0	10.6	B1/1000		
BH	(60°-80°)	291.2	5.8	B1/500		G1/500
BVH	(80°-90°)	20.2	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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47.5°	50°
0°	646.1	646.1	646.1	646.1	646.1	646.1	646.1	646.1	646.1	646.1	646.1
2.5°	646.1	644.5	642.8	642.8	642.8	641.1	636.2	637.8	642.8	639.4	644.5
5°	644.5	641.1	639.4	639.4	639.4	634.5	632.9	631.2	641.1	632.9	639.4
7.5°	626.3	626.3	623.0	626.3	629.5	624.6	621.3	623.0	631.2	623.0	631.2
10°	613.1	609.7	608.0	608.0	611.4	604.8	601.5	604.8	614.7	604.8	616.3
12.5°	608.0	609.7	604.8	604.8	603.1	594.8	594.8	594.8	603.1	594.8	604.8
15°	616.3	614.7	609.7	606.4	601.5	594.8	593.2	594.8	601.5	591.6	603.1
17.5°	627.9	627.9	619.6	611.4	606.4	599.9	599.9	596.5	601.5	594.8	603.1
20°	657.7	652.6	641.1	627.9	614.7	611.4	604.8	604.8	608.0	601.5	606.4
22.5°	708.9	703.9	684.0	659.3	637.8	629.5	626.3	624.6	621.3	618.0	618.0
25°	776.6	768.3	745.2	715.5	679.1	672.5	665.9	660.9	649.4	649.4	641.1
27.5°	849.4	841.1	816.3	783.3	738.6	728.8	720.5	713.8	694.0	694.0	679.1
30°	931.9	922.0	892.3	855.9	804.8	801.4	789.8	779.9	753.5	751.9	732.0
32.5°	1027.8	1014.6	984.8	936.9	882.4	884.0	865.8	859.3	824.5	826.2	799.7
35°	1136.8	1122.0	1092.2	1029.4	973.2	978.2	961.7	950.1	907.2	907.2	879.0
37.5°	1252.5	1252.5	1214.5	1141.8	1074.0	1085.7	1065.8	1054.3	1011.3	1017.8	973.2
40°	1381.4	1389.7	1348.4	1265.7	1196.3	1201.3	1186.4	1173.2	1122.0	1133.5	1085.7
42.5°	1516.9	1531.8	1495.5	1409.5	1331.8	1348.4	1323.6	1310.3	1255.8	1280.6	1224.4
45°	1713.5	1716.8	1649.1	1566.4	1502.0	1516.9	1482.2	1477.2	1409.5	1435.9	1379.8
47.5°	1837.4	1829.1	1779.6	1730.0	1692.1	1721.7	1690.4	1682.1	1604.5	1622.6	1543.3
50°	1921.7	1926.6	1888.7	1883.7	1890.3	1946.5	1941.6	1925.0	1832.5	1819.3	1720.1
52.5°	1997.7	1976.2	1969.6	2015.9	2086.9	2153.0	2179.5	2158.0	2057.3	2020.8	1925.0
55°	1984.5	1953.1	1987.8	2100.2	2240.7	2343.1	2346.3	2331.5	2240.7	2225.7	2121.7
57.5°	1895.3	1901.9	1973.0	2133.3	2371.2	2476.9	2495.1	2476.9	2402.6	2415.8	2329.9
60°	1771.3	1784.5	1897.0	2103.5	2475.2	2566.2	2574.4	2595.8	2546.3	2581.0	2521.6
62.5°	1586.3	1604.5	1748.2	2029.1	2402.6	2538.0	2614.0	2663.7	2653.7	2733.0	2701.6
65°	1457.4	1457.4	1597.8	1943.2	2331.5	2510.0	2624.0	2716.5	2729.7	2855.3	2843.7
67.5°	1217.8	1226.1	1346.7	1703.6	2245.6	2447.2	2619.1	2776.0	2855.3	3053.6	3063.5
70°	842.7	849.4	928.6	1216.2	1814.3	1986.2	2238.9	2495.1	2733.0	3032.1	3187.4
71°	631.2	639.4	717.1	970.0	1536.7	1678.9	1941.6	2207.5	2506.6	2895.0	3070.1
72.5°	309.0	313.9	389.9	623.0	1069.1	1250.9	1402.9	1657.4	1974.6	2419.1	2666.9
75°	143.7	145.4	161.9	224.7	408.2	485.8	553.5	717.1	913.8	1303.8	1604.5
77.5°	105.8	105.8	115.7	147.1	211.5	214.8	211.5	216.5	261.1	373.5	561.8
80°	77.6	77.6	84.3	99.1	140.5	140.5	135.5	137.2	132.2	137.2	155.3
82.5°	51.2	51.2	54.5	59.5	85.9	85.9	82.7	82.7	79.3	77.6	84.3
85°	29.8	31.4	33.0	28.1	36.3	34.7	31.4	34.7	33.0	29.8	36.3
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°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°
0°	646.1	646.1	646.1	646.1	646.1	646.1	646.1	646.1	646.1	646.1	646.1
2.5°	637.8	642.8	642.8	636.2	641.1	636.2	639.4	634.5	639.4	631.2	641.1
5°	632.9	637.8	637.8	627.9	637.8	627.9	636.2	624.6	636.2	623.0	636.2
7.5°	619.6	631.2	631.2	618.0	629.5	619.6	629.5	618.0	627.9	613.1	629.5
10°	604.8	616.3	618.0	604.8	618.0	606.4	621.3	606.4	621.3	604.8	623.0
12.5°	594.8	608.0	611.4	596.5	613.1	598.1	616.3	599.9	616.3	598.1	619.6
15°	593.2	604.8	608.0	594.8	609.7	593.2	614.7	594.8	616.3	596.5	621.3
17.5°	594.8	604.8	608.0	593.2	608.0	594.8	613.1	596.5	616.3	598.1	621.3
20°	599.9	606.4	606.4	598.1	609.7	598.1	613.1	596.5	618.0	601.5	623.0
22.5°	614.7	616.3	616.3	609.7	616.3	608.0	619.6	608.0	623.0	609.7	629.5
25°	639.4	637.8	634.5	632.9	634.5	629.5	636.2	627.9	642.8	631.2	651.0
27.5°	682.4	675.9	672.5	672.5	670.9	672.5	672.5	669.2	675.9	672.5	685.8
30°	735.3	723.7	718.8	723.7	717.1	723.7	722.1	720.5	727.0	723.7	735.3
32.5°	804.8	784.9	781.5	791.5	778.3	789.8	779.9	784.9	789.8	793.1	799.7
35°	885.7	862.6	859.3	869.2	854.3	870.8	859.3	865.8	869.2	877.4	882.4
37.5°	981.5	953.4	948.5	961.7	941.8	960.0	943.5	963.3	958.4	970.0	974.9
40°	1097.2	1064.2	1052.6	1070.7	1047.6	1062.4	1046.0	1067.4	1062.4	1085.7	1090.6
42.5°	1239.3	1191.3	1179.8	1198.0	1163.3	1168.2	1155.0	1179.8	1176.5	1207.9	1212.8
45°	1386.3	1328.5	1312.0	1330.1	1290.6	1300.4	1280.6	1307.0	1305.4	1330.1	1350.0
47.5°	1550.0	1478.9	1457.4	1477.2	1429.3	1440.8	1421.1	1449.1	1450.7	1478.9	1498.7
50°	1720.1	1645.7	1617.7	1635.9	1591.2	1599.5	1579.6	1614.4	1612.7	1650.7	1665.6
52.5°	1905.1	1829.1	1807.7	1815.9	1763.1	1773.0	1756.5	1799.5	1789.6	1812.7	1842.4
55°	2110.0	2022.5	1997.7	2022.5	1959.8	1973.0	1951.5	1991.1	1974.6	2004.4	2012.6
57.5°	2320.0	2234.0	2214.2	2232.4	2172.8	2182.8	2154.7	2187.8	2174.5	2194.3	2207.5
60°	2543.1	2465.3	2445.6	2465.3	2407.5	2409.2	2361.3	2396.0	2376.1	2400.9	2396.0
62.5°	2756.1	2690.1	2685.1	2713.2	2640.5	2632.3	2574.4	2599.2	2571.1	2587.7	2567.8
65°	2937.9	2900.0	2906.5	2929.6	2865.2	2845.4	2779.3	2792.6	2751.2	2751.2	2726.5
67.5°	3175.9	3134.5	3134.5	3154.4	3073.5	3022.2	2931.4	2919.7	2852.0	2838.8	2781.0
70°	3374.2	3385.8	3372.5	3389.0	3293.2	3189.0	3068.4	3010.6	2921.4	2878.5	2810.7
71°	3303.1	3369.2	3392.3	3405.5	3326.2	3222.1	3096.6	3022.2	2936.3	2878.5	2805.7
72.5°	2980.9	3141.2	3232.0	3232.0	3241.9	3175.9	3055.2	2974.3	2876.7	2800.7	2733.0
75°	2088.6	2349.7	2467.1	2453.8	2539.7	2569.4	2579.4	2544.7	2490.2	2381.1	2333.1
77.5°	930.3	1226.1	1402.9	1404.5	1497.1	1578.0	1642.4	1710.2	1685.4	1632.5	1629.3
80°	211.5	383.4	490.7	495.7	580.0	654.4	699.0	766.7	775.0	699.0	656.0
82.5°	90.8	107.4	122.2	120.6	148.7	178.5	211.5	229.7	221.5	183.4	173.5
85°	38.1	49.6	52.9	49.6	61.2	67.7	79.3	81.0	94.2	84.3	89.2
87.5°	0.0	1.6	1.6	0.0	3.3	0.0	3.3	1.6	8.3	3.3	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°	646.1	646.1	646.1	646.1	646.1	646.1	646.1	646.1	646.1	646.1	646.1
2.5°	634.5	642.8	634.5	642.8	637.8	642.8	641.1	642.8	634.5	642.8	632.9
5°	623.0	636.2	624.6	634.5	624.6	636.2	636.2	636.2	624.6	637.8	626.3
7.5°	613.1	627.9	613.1	627.9	618.0	629.5	629.5	634.5	621.3	636.2	619.6
10°	603.1	621.3	603.1	624.6	608.0	626.3	627.9	631.2	613.1	632.9	616.3
12.5°	598.1	621.3	599.9	621.3	601.5	626.3	627.9	631.2	611.4	636.2	614.7
15°	598.1	623.0	599.9	623.0	601.5	626.3	629.5	632.9	611.4	637.8	614.7
17.5°	598.1	623.0	603.1	624.6	604.8	627.9	631.2	634.5	614.7	637.8	618.0
20°	603.1	626.3	606.4	629.5	609.7	632.9	634.5	639.4	618.0	639.4	621.3
22.5°	614.7	634.5	618.0	639.4	624.6	642.8	644.5	649.4	632.9	651.0	636.2
25°	634.5	656.0	642.8	659.3	651.0	665.9	669.2	669.2	662.6	674.1	669.2
27.5°	675.9	692.3	682.4	697.3	692.3	703.9	703.9	705.5	710.5	713.8	718.8
30°	728.8	740.3	736.9	745.2	746.9	753.5	753.5	763.4	783.3	763.4	761.8
32.5°	799.7	806.4	808.0	811.3	818.0	822.9	829.5	841.1	857.5	811.3	796.5
35°	887.3	888.9	894.0	898.9	910.4	913.8	935.3	927.0	927.0	854.3	822.9
37.5°	983.2	983.2	996.4	996.4	1024.5	1026.1	1047.6	1004.6	979.9	885.7	839.4
40°	1103.8	1102.1	1117.0	1120.3	1158.3	1159.9	1156.7	1062.4	1009.7	894.0	831.1
42.5°	1231.0	1235.9	1255.8	1262.4	1290.6	1300.4	1259.2	1102.1	1022.8	888.9	803.0
45°	1369.8	1379.8	1404.5	1422.7	1452.5	1440.8	1341.7	1120.3	1007.9	859.3	748.5
47.5°	1521.8	1531.8	1551.6	1586.3	1599.5	1586.3	1409.5	1126.9	984.8	812.9	669.2
50°	1675.5	1692.1	1720.1	1769.7	1776.4	1743.2	1492.1	1151.7	966.7	765.1	578.4
52.5°	1849.0	1865.6	1898.6	1981.3	1964.7	1897.0	1589.6	1198.0	971.6	735.3	500.6
55°	2032.4	2055.5	2120.0	2201.0	2164.7	2058.9	1697.0	1265.7	991.4	703.9	414.7
57.5°	2225.7	2250.5	2334.8	2430.6	2359.6	2217.5	1806.0	1318.6	1001.4	639.4	320.6
60°	2417.4	2452.1	2561.2	2640.5	2529.8	2353.0	1903.5	1353.3	974.9	517.2	247.9
62.5°	2592.6	2648.7	2771.1	2814.0	2637.2	2438.9	1956.4	1328.5	867.5	356.9	200.0
65°	2716.5	2789.2	2868.6	2863.5	2617.3	2410.8	1916.8	1214.5	646.1	236.3	170.2
67.5°	2769.4	2837.2	2855.3	2771.1	2475.2	2286.9	1774.6	978.2	371.7	176.8	148.7
70°	2789.2	2847.1	2744.6	2541.3	2197.7	1982.9	1450.7	623.0	203.3	143.7	128.9
71°	2781.0	2809.0	2614.0	2376.1	2020.8	1796.1	1272.3	474.2	173.5	133.8	122.2
72.5°	2668.6	2629.0	2328.2	2063.8	1713.5	1485.5	989.8	299.1	142.1	120.6	114.1
75°	2181.1	2002.7	1713.5	1464.0	1166.6	933.5	537.0	153.6	114.1	104.1	99.1
77.5°	1426.0	1270.7	1032.8	839.4	637.8	484.2	219.7	105.8	90.8	87.6	85.9
80°	508.9	408.2	309.0	271.0	204.9	168.6	107.4	81.0	71.1	72.7	71.1
82.5°	143.7	132.2	114.1	105.8	92.6	90.8	69.4	61.2	56.2	59.5	57.8
85°	71.1	61.2	44.6	43.0	33.0	38.1	34.7	41.3	36.3	38.1	34.7
87.5°	4.9	6.6	1.6	4.9	0.0	4.9	6.6	8.3	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



REPORT NUMBER: P227695

CATALOG NUMBER: ISS-AF-800-LED-E1-T3

**CANDELA DISTRIBUTION (continued):**

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°
0°	646.1	646.1	646.1	646.1	646.1	646.1	646.1	646.1	646.1	646.1	646.1
2.5°	644.5	637.8	646.1	637.8	646.1	641.1	646.1	641.1	646.1	649.4	649.4
5°	641.1	629.5	644.5	636.2	646.1	637.8	644.5	639.4	647.7	651.0	654.4
7.5°	639.4	627.9	642.8	631.2	646.1	634.5	644.5	637.8	647.7	651.0	657.7
10°	637.8	623.0	642.8	626.3	644.5	632.9	644.5	634.5	646.1	649.4	651.0
12.5°	637.8	621.3	642.8	624.6	644.5	627.9	642.8	627.9	644.5	642.8	637.8
15°	639.4	618.0	642.8	621.3	642.8	623.0	641.1	621.3	637.8	632.9	629.5
17.5°	639.4	618.0	641.1	619.6	639.4	621.3	636.2	618.0	632.9	631.2	626.3
20°	642.8	621.3	641.1	626.3	641.1	623.0	634.5	618.0	629.5	619.6	599.9
22.5°	652.6	637.8	652.6	637.8	644.5	627.9	632.9	613.1	611.4	594.8	563.4
25°	675.9	669.2	665.9	647.7	642.8	621.3	614.7	591.6	583.3	558.5	515.6
27.5°	705.5	690.7	670.9	649.4	627.9	601.5	583.3	565.1	547.0	515.6	461.0
30°	725.4	703.9	662.6	632.9	593.2	571.7	540.3	520.5	494.1	454.4	401.5
32.5°	738.6	705.5	642.8	608.0	555.2	527.1	485.8	464.3	426.3	388.3	350.3
35°	741.9	699.0	616.3	578.4	508.9	477.5	423.0	399.9	363.6	337.1	322.2
37.5°	728.8	675.9	575.0	525.5	449.5	413.1	361.9	345.3	323.9	313.9	307.3
40°	702.3	631.2	510.6	452.8	375.1	347.0	320.6	320.6	309.0	304.0	292.5
42.5°	654.4	565.1	428.0	371.7	319.0	313.9	299.1	305.7	297.5	294.1	277.6
45°	580.0	471.0	345.3	312.3	287.6	290.8	280.9	287.6	282.5	280.9	261.1
47.5°	484.2	375.1	290.8	279.3	262.7	267.7	259.4	267.7	262.7	264.3	249.5
50°	386.7	304.0	257.8	251.1	239.6	243.0	237.9	246.2	244.6	251.1	243.0
52.5°	309.0	259.4	229.7	224.7	218.1	219.7	218.1	226.4	228.0	241.2	241.2
55°	256.1	223.1	206.5	204.9	198.2	200.0	201.6	209.8	216.5	233.0	241.2
57.5°	219.7	200.0	188.3	186.7	183.4	185.1	188.3	198.2	204.9	226.4	244.6
60°	193.3	181.8	173.5	173.5	170.2	173.5	176.8	186.7	195.0	219.7	237.9
62.5°	173.5	165.2	160.3	161.9	160.3	163.6	166.8	176.8	186.7	209.8	228.0
65°	155.3	150.4	147.1	148.7	148.7	153.6	157.0	166.8	175.1	196.6	219.7
67.5°	140.5	137.2	135.5	137.2	138.8	143.7	148.7	155.3	161.9	181.8	208.2
70°	128.9	125.6	125.6	125.6	127.3	132.2	138.8	142.1	148.7	170.2	195.0
71°	122.2	120.6	120.6	120.6	122.2	127.3	133.8	137.2	143.7	165.2	188.3
72.5°	114.1	114.1	115.7	114.1	117.3	119.0	125.6	128.9	137.2	158.7	180.1
75°	100.8	100.8	102.4	102.4	105.8	105.8	110.7	114.1	123.9	142.1	161.9
77.5°	89.2	89.2	92.6	90.8	90.8	87.6	94.2	97.5	105.8	123.9	143.7
80°	76.0	74.4	77.6	72.7	71.1	67.7	72.7	77.6	90.8	102.4	105.8
82.5°	59.5	54.5	56.2	51.2	51.2	47.9	52.9	54.5	62.8	74.4	81.0
85°	36.3	29.8	33.0	28.1	31.4	28.1	29.8	31.4	38.1	46.2	44.6
87.5°	8.3	4.9	6.6	1.6	4.9	0.0	4.9	1.6	4.9	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: P227695

CATALOG NUMBER: ISS-AF-800-LED-E1-T3

**CANDELA DISTRIBUTION (continued):**

	155°	165°	175°	180°
0°	646.1	646.1	646.1	646.1
2.5°	652.6	651.0	652.6	651.0
5°	660.9	660.9	662.6	664.3
7.5°	662.6	665.9	669.2	667.6
10°	651.0	647.7	651.0	647.7
12.5°	632.9	629.5	632.9	632.9
15°	631.2	629.5	631.2	631.2
17.5°	619.6	611.4	608.0	606.4
20°	586.6	571.7	568.5	563.4
22.5°	540.3	518.8	512.2	507.3
25°	484.2	454.4	442.8	436.2
27.5°	423.0	393.2	381.7	381.7
30°	375.1	352.0	340.4	340.4
32.5°	340.4	327.1	319.0	320.6
35°	312.3	304.0	299.1	300.7
37.5°	294.1	280.9	269.3	269.3
40°	276.0	259.4	244.6	244.6
42.5°	259.4	243.0	233.0	231.3
45°	243.0	231.3	223.1	221.5
47.5°	234.7	224.7	216.5	214.8
50°	231.3	221.5	209.8	209.8
52.5°	234.7	226.4	204.9	204.9
55°	241.2	236.3	204.9	201.6
57.5°	234.7	226.4	206.5	201.6
60°	219.7	206.5	203.3	200.0
62.5°	209.8	196.6	203.3	201.6
65°	201.6	191.7	206.5	203.3
67.5°	193.3	183.4	206.5	200.0
70°	183.4	173.5	188.3	176.8
71°	178.5	166.8	178.5	168.6
72.5°	170.2	157.0	160.3	153.6
75°	153.6	140.5	137.2	135.5
77.5°	127.3	112.3	107.4	105.8
80°	97.5	87.6	87.6	82.7
82.5°	72.7	64.4	62.8	54.5
85°	38.1	29.8	24.8	24.8
87.5°	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)