

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: P271598

Luminaire Tested: **ISS-AF-800-LED-E1-T3-7027-ULG**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P271598  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29759)-DOWNLIGHT AND  
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-T3-7027-ULG  
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE WITH UPLIGHT  
LIGHT SQUARE WITH ACCULED OPTICS-TYPE III, WITH UPLIGHT GLOW  
Light Source: (16) 2700K CCT, 70 CRI LEDs and (1) UPLIGHT LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

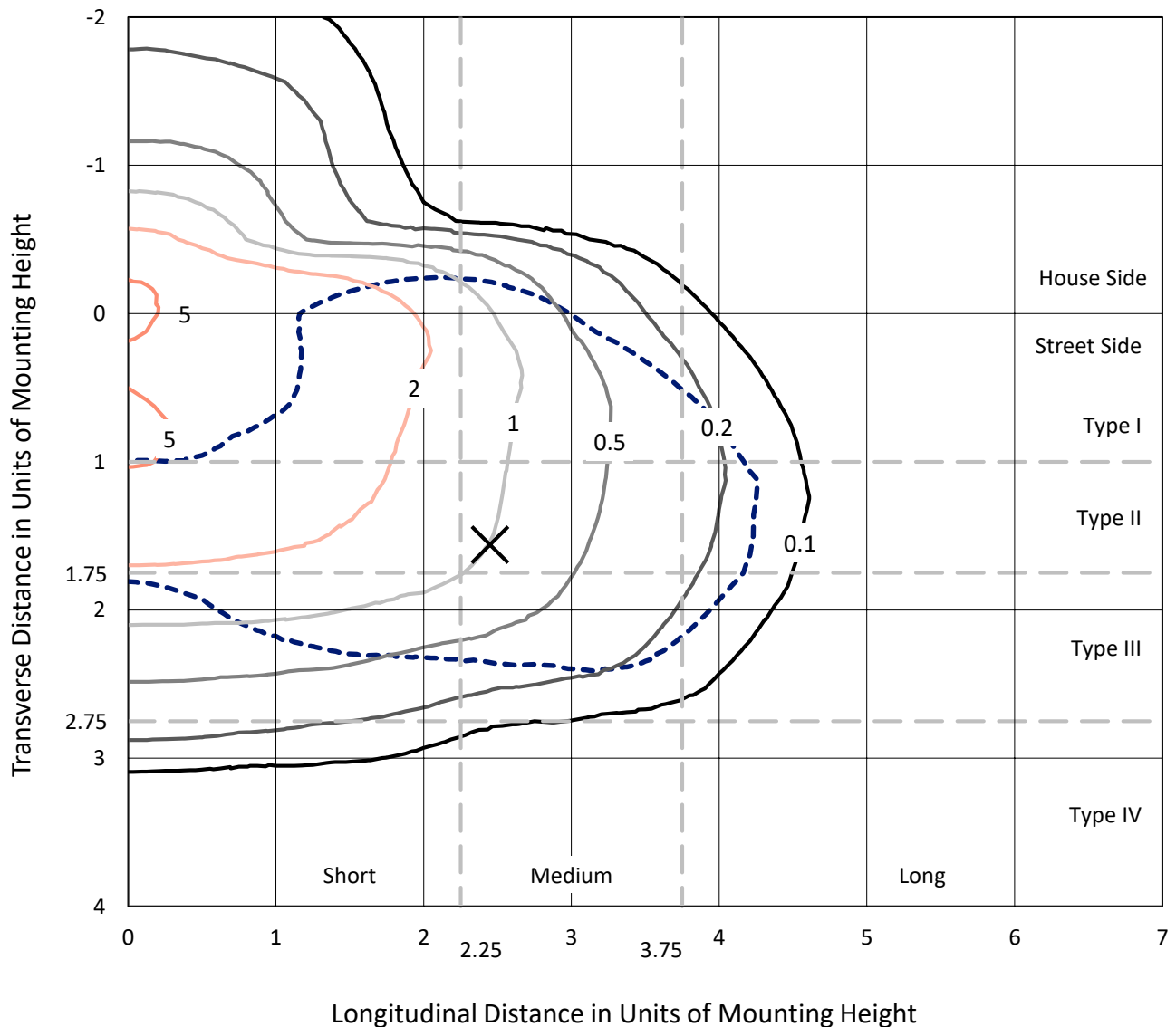
Lumens per Lamp: N/A  
Luminaire Lumens: 5647.6 lumens  
Efficiency: N/A  
Efficacy: 93.8 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 0.54')  
IES Classification: Type III - Medium - Non-Cutoff  
BUG Rating: B1 - U5 - G1  
  
Input Watts (W): 60.2  
Input Voltage (V): 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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 CATALOG NUMBER: ISS-AF-800-LED-E1-T3-7027-ULG

### Iso-Footcandle Lines of Horizontal Illumination

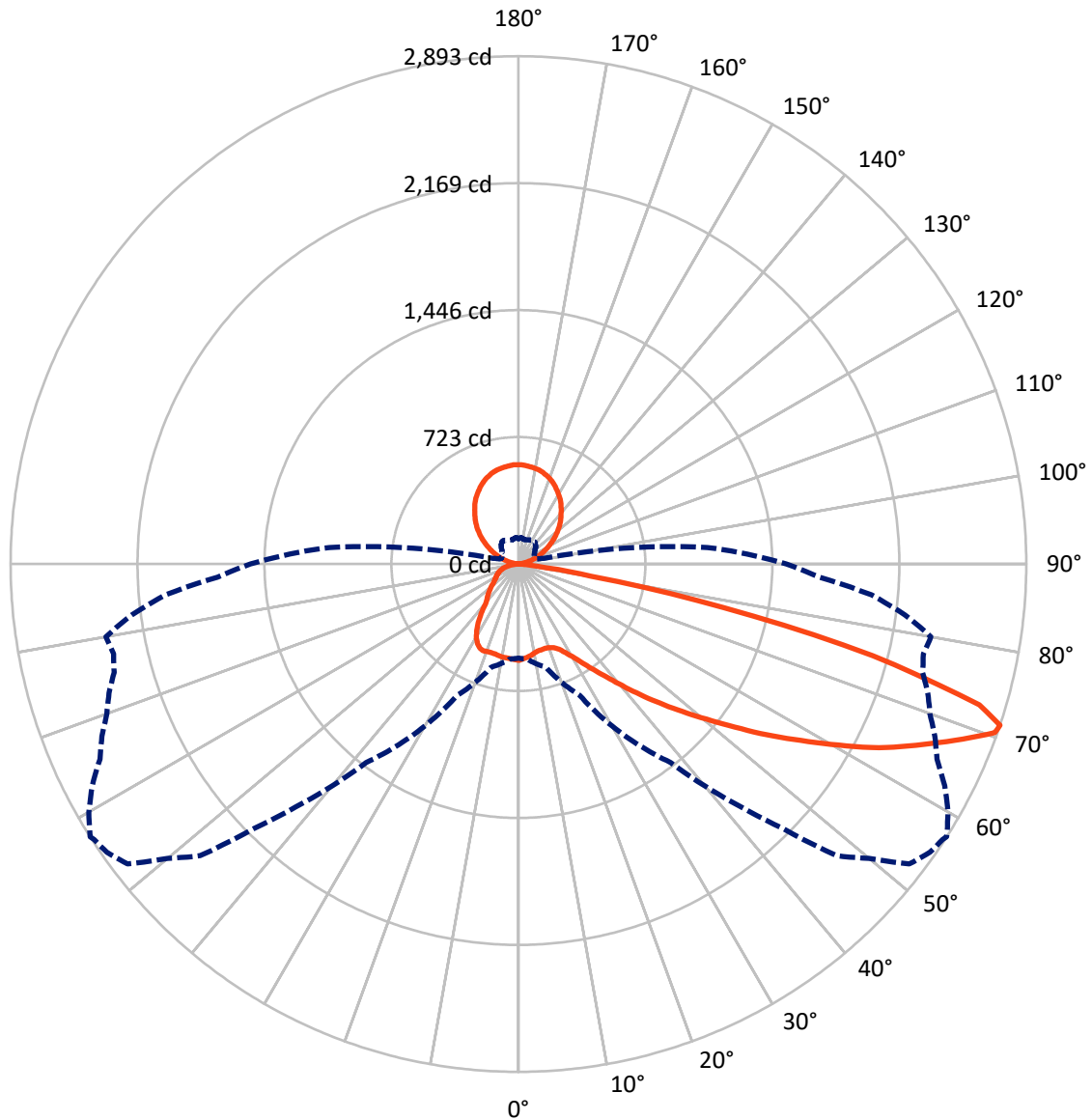
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.5 fc  
 Type III - Medium - Non-Cutoff

REPORT NUMBER: P271598  
CATALOG NUMBER: ISS-AF-800-LED-E1-T3-7027-ULG

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P271598

CATALOG NUMBER: ISS-AF-800-LED-E1-T3-7027-ULG

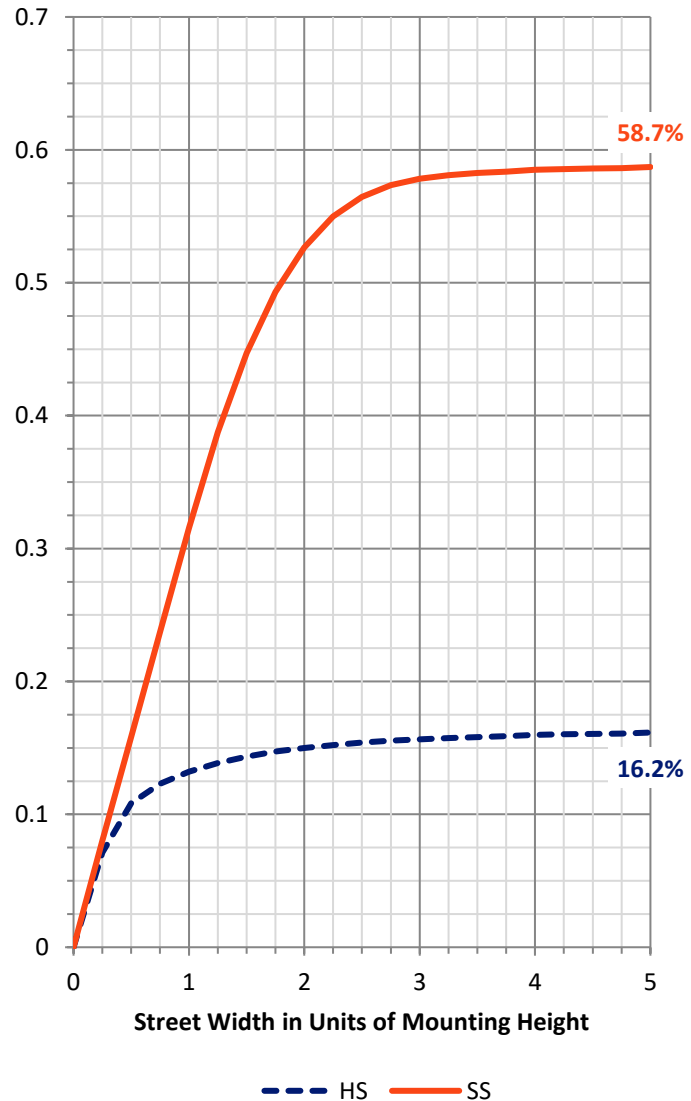
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	924.8	699.9	1624.6
	% Fixture	16.4	12.4	28.8
<b>Street Side</b>	Lumens	3323.1	699.9	4023.0
	% Fixture	58.8	12.4	71.2
<b>Total</b>	Lumens	4247.8	1399.8	5647.6
	% Fixture	75.2	24.8	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	51.6	0.9
10°-20°	148.8	2.6
20°-30°	247.0	4.4
30°-40°	393.3	7.0
40°-50°	638.9	11.3
50°-60°	957.9	17.0
60°-70°	1142.8	20.2
70°-80°	617.2	10.9
80°-90°	50.2	0.9
90°-100°	4.7	0.1
100°-110°	67.7	1.2
110°-120°	150.2	2.7
120°-130°	219.7	3.9
130°-140°	260.7	4.6
140°-150°	264.3	4.7
150°-160°	226.8	4.0
160°-170°	152.2	2.7
170°-180°	53.3	0.9
0°-90°	4247.8	75.2
0°-180°	5647.6	100.0



REPORT NUMBER: P271598

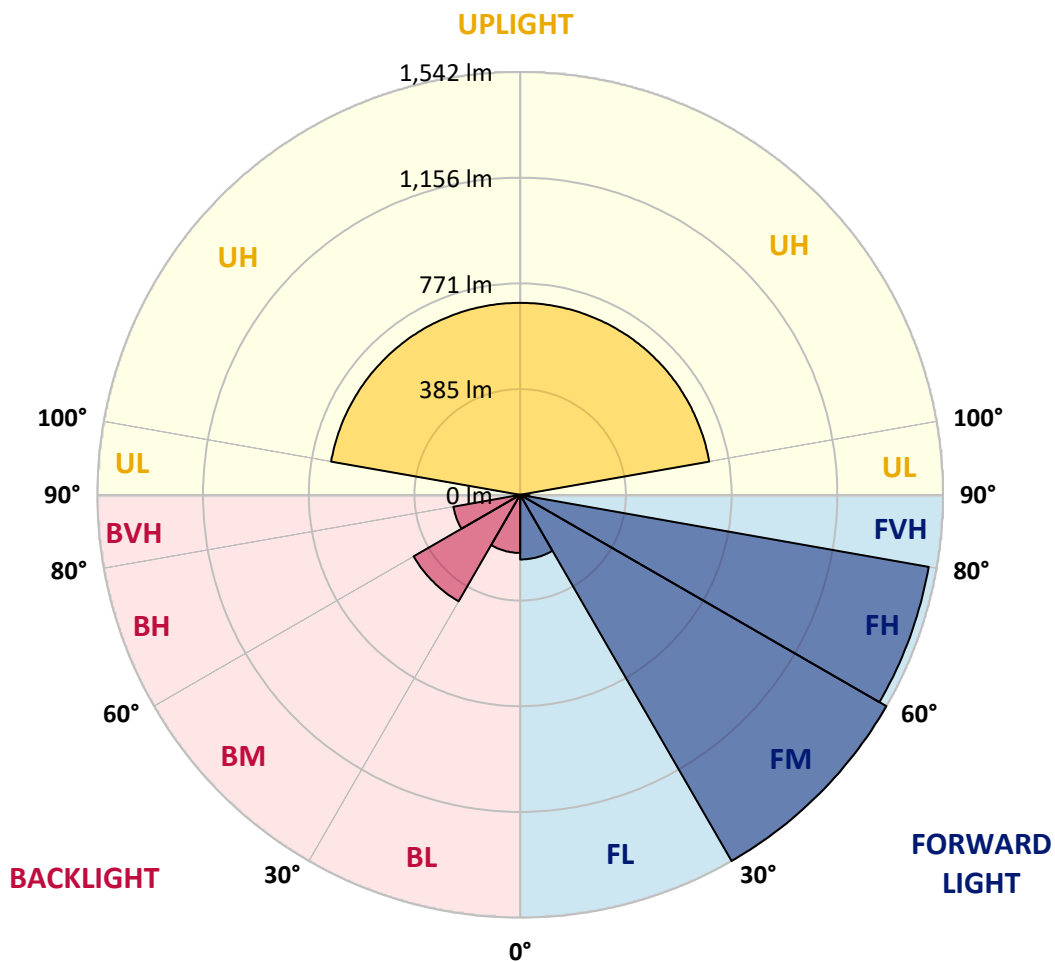
CATALOG NUMBER: ISS-AF-800-LED-E1-T3-7027-ULG

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	235.7	4.2			
FM	(30°-60°)	1541.7	27.3			
FH	(60°-80°)	1512.6	26.8			G1/1800
FVH	(80°-90°)	33.1	0.6			G1/100
BL	(0°-30°)	211.8	3.8	B1/500		
BM	(30°-60°)	448.4	7.9	B1/1000		
BH	(60°-80°)	247.4	4.4	B1/500		G1/500
BVH	(80°-90°)	17.1	0.3			G1/100
UL	(90°-100°)	4.7	0.1		U1/10	
UH	(100°-180°)	699.9	12.4		U4/1000	

**BUG Rating: B1-U5-G1**

Type III Medium





REPORT NUMBER: P271598

CATALOG NUMBER: ISS-AF-800-LED-E1-T3-7027-ULG

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47.5°	50°
0°	548.8	548.8	548.8	548.8	548.8	548.8	548.8	548.8	548.8	548.8	548.8
2.5°	548.8	547.3	546.0	546.0	546.0	544.6	540.3	541.8	546.0	543.1	547.3
5°	547.3	544.6	543.1	543.1	543.1	538.9	537.5	536.1	544.6	537.5	543.1
7.5°	532.0	532.0	529.1	532.0	534.7	530.4	527.8	529.1	536.1	529.1	536.1
10°	520.7	518.0	516.4	516.4	519.3	513.7	510.9	513.7	522.1	513.7	523.5
12.5°	516.4	518.0	513.7	513.7	512.2	505.3	505.3	505.3	512.2	505.3	513.7
15°	523.5	522.1	518.0	515.1	510.9	505.3	503.9	505.3	510.9	502.4	512.2
17.5°	533.3	533.3	526.2	519.3	515.1	509.5	509.5	506.6	510.9	505.3	512.2
20°	558.6	554.3	544.6	533.3	522.1	519.3	513.7	513.7	516.4	510.9	515.1
22.5°	602.1	597.9	581.0	560.0	541.8	534.7	532.0	530.4	527.8	524.9	524.9
25°	659.6	652.6	632.9	607.7	576.8	571.2	565.7	561.4	551.6	551.6	544.6
27.5°	721.4	714.3	693.3	665.3	627.4	618.9	611.9	606.3	589.5	589.5	576.8
30°	791.6	783.1	757.9	727.0	683.5	680.6	670.9	662.4	640.0	638.5	621.8
32.5°	873.0	861.7	836.5	795.8	749.5	750.8	735.4	729.9	700.3	701.8	679.3
35°	965.6	952.9	927.7	874.4	826.6	830.8	816.8	806.9	770.5	770.5	746.6
37.5°	1063.9	1063.9	1031.5	969.8	912.3	922.1	905.2	895.4	858.9	864.6	826.6
40°	1173.3	1180.4	1145.2	1075.0	1016.2	1020.4	1007.7	996.5	952.9	962.7	922.1
42.5°	1288.3	1301.0	1270.1	1197.2	1131.1	1145.2	1124.2	1113.0	1066.6	1087.7	1040.0
45°	1455.4	1458.2	1400.6	1330.5	1275.8	1288.3	1259.0	1254.8	1197.2	1219.6	1171.9
47.5°	1560.6	1553.7	1511.6	1469.4	1437.2	1462.4	1435.7	1428.8	1362.8	1378.2	1310.9
50°	1632.2	1636.4	1604.1	1599.9	1605.6	1653.3	1649.1	1635.1	1556.4	1545.3	1461.0
52.5°	1696.8	1678.6	1672.9	1712.2	1772.5	1828.7	1851.1	1832.9	1747.3	1716.4	1635.1
55°	1685.6	1658.9	1688.4	1783.9	1903.1	1990.1	1992.9	1980.3	1903.1	1890.4	1802.1
57.5°	1609.9	1615.4	1675.8	1811.9	2014.0	2103.8	2119.2	2103.8	2040.7	2051.9	1978.9
60°	1504.5	1515.8	1611.2	1786.5	2102.4	2179.6	2186.7	2204.9	2162.8	2192.2	2141.6
62.5°	1347.4	1362.8	1484.9	1723.5	2040.7	2155.8	2220.3	2262.4	2253.9	2321.3	2294.7
65°	1237.9	1237.9	1357.2	1650.5	1980.3	2131.9	2228.8	2307.3	2318.5	2425.2	2415.5
67.5°	1034.4	1041.3	1143.8	1447.0	1907.3	2078.6	2224.6	2357.8	2425.2	2593.7	2602.0
70°	715.8	721.4	788.7	1032.9	1541.0	1686.9	1901.7	2119.2	2321.3	2575.4	2707.3
71°	536.1	543.1	609.1	823.8	1305.2	1425.9	1649.1	1875.0	2129.1	2458.9	2607.7
72.5°	262.5	266.7	331.3	529.1	908.1	1062.4	1191.5	1407.6	1677.1	2054.7	2265.2
75°	122.1	123.4	137.5	190.9	346.7	412.6	470.2	609.1	776.1	1107.3	1362.8
77.5°	89.8	89.8	98.3	125.0	179.6	182.4	179.6	183.8	221.7	317.2	477.2
80°	65.9	65.9	71.5	84.2	119.3	119.3	115.2	116.5	112.3	116.5	131.9
82.5°	43.5	43.5	46.4	50.6	73.0	73.0	70.2	70.2	67.4	65.9	71.5
85°	25.2	26.7	28.0	23.9	30.9	29.5	26.7	29.5	28.0	25.2	30.9
87.5°	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	1.3	0.0	1.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
97.5°	2.0	2.0	2.0	3.0	4.0	5.1	6.4	7.6	8.8	9.8	10.8
100°	7.8	7.8	9.8	13.7	21.6	23.5	25.5	27.5	29.5	29.9	30.5
102.5°	27.5	27.5	31.4	37.3	44.2	45.4	46.6	47.9	49.0	49.2	49.6
105°	53.0	53.0	55.0	59.8	64.8	65.8	66.7	67.7	68.7	68.9	69.2
107.5°	76.5	75.5	78.5	82.5	86.3	87.1	87.9	88.6	89.3	89.8	90.3



REPORT NUMBER: P271598

CATALOG NUMBER: ISS-AF-800-LED-E1-T3-7027-ULG

**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47.5°	50°
110°	99.2	100.1	101.1	104.0	108.0	108.4	109.0	109.4	110.0	110.4	110.9
112.5°	121.7	121.7	123.7	126.6	129.5	130.1	130.5	131.1	131.5	132.1	132.5
115°	143.3	144.3	146.2	148.2	151.2	151.6	152.2	152.6	153.1	153.6	154.1
117.5°	165.8	166.8	168.8	170.8	173.7	174.2	174.7	175.2	175.7	175.9	176.2
120°	189.5	191.4	192.3	194.3	197.3	197.4	197.8	198.1	198.3	198.7	199.2
122.5°	215.0	216.0	216.9	218.8	221.8	222.0	222.3	222.6	222.8	223.0	223.3
125°	239.5	241.5	242.5	243.4	246.3	246.6	246.9	247.1	247.3	247.6	247.8
127.5°	262.0	264.0	265.0	267.0	269.0	269.4	269.9	270.4	270.9	271.4	271.8
130°	284.7	286.6	287.5	288.5	292.5	292.7	292.9	293.3	293.5	293.9	294.5
132.5°	307.2	308.2	311.2	312.1	315.0	315.2	315.6	315.8	316.0	316.8	317.6
135°	329.8	330.8	332.7	334.7	338.6	338.6	338.6	338.6	338.6	339.4	340.1
137.5°	352.3	353.3	356.3	357.3	360.2	360.2	360.2	360.2	360.2	360.7	361.2
140°	375.0	375.9	377.8	378.8	380.8	381.0	381.3	381.6	381.8	382.0	382.3
142.5°	396.5	398.5	400.5	399.5	402.4	402.4	402.4	402.4	402.4	402.9	403.4
145°	417.2	418.1	420.0	420.0	423.0	423.2	423.6	423.8	424.0	424.4	425.0
147.5°	435.8	435.8	438.7	439.7	443.7	443.9	444.1	444.4	444.6	444.8	445.1
150°	452.5	453.5	455.4	456.4	460.3	460.5	460.8	461.1	461.3	461.5	461.8
152.5°	470.2	471.1	474.0	473.0	476.0	476.2	476.6	476.8	477.0	477.2	477.4
155°	489.8	490.7	492.7	491.7	493.7	493.7	493.7	493.7	493.7	493.9	494.2
157.5°	503.5	505.5	507.5	506.5	509.4	509.4	509.4	509.4	509.4	509.4	509.4
160°	515.3	517.2	519.2	519.2	522.2	522.2	522.2	522.2	522.2	522.2	522.2
162.5°	525.1	526.0	529.0	528.0	531.0	531.0	531.0	531.0	531.0	531.2	531.4
165°	535.9	536.8	538.8	537.8	541.8	541.8	541.8	541.8	541.8	541.9	542.3
167.5°	544.7	545.7	548.7	547.7	550.6	550.4	550.1	549.9	549.7	549.7	549.7
170°	551.6	552.5	555.5	554.5	556.5	556.3	556.1	555.7	555.5	555.3	555.1
172.5°	554.5	555.5	558.5	556.5	558.5	558.3	557.9	557.7	557.5	557.7	557.9
175°	556.5	558.5	559.5	558.5	561.4	561.4	561.4	561.4	561.4	561.6	561.9
177.5°	561.4	562.4	564.3	563.3	567.3	567.1	566.8	566.5	566.3	566.3	566.3
180°	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3





REPORT NUMBER: P271598

CATALOG NUMBER: ISS-AF-800-LED-E1-T3-7027-ULG

**CANDELA DISTRIBUTION (continued):**

	52.5°	55°	57°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°
0°	548.8	548.8	548.8	548.8	548.8	548.8	548.8	548.8	548.8	548.8	548.8
2.5°	541.8	546.0	546.0	540.3	544.6	540.3	543.1	538.9	543.1	536.1	544.6
5°	537.5	541.8	541.8	533.3	541.8	533.3	540.3	530.4	540.3	529.1	540.3
7.5°	526.2	536.1	536.1	524.9	534.7	526.2	534.7	524.9	533.3	520.7	534.7
10°	513.7	523.5	524.9	513.7	524.9	515.1	527.8	515.1	527.8	513.7	529.1
12.5°	505.3	516.4	519.3	506.6	520.7	508.0	523.5	509.5	523.5	508.0	526.2
15°	503.9	513.7	516.4	505.3	518.0	503.9	522.1	505.3	523.5	506.6	527.8
17.5°	505.3	513.7	516.4	503.9	516.4	505.3	520.7	506.6	523.5	508.0	527.8
20°	509.5	515.1	515.1	508.0	518.0	508.0	520.7	506.6	524.9	510.9	529.1
22.5°	522.1	523.5	523.5	518.0	523.5	516.4	526.2	516.4	529.1	518.0	534.7
25°	543.1	541.8	538.9	537.5	538.9	534.7	540.3	533.3	546.0	536.1	553.0
27.5°	579.7	574.1	571.2	571.2	569.9	571.2	571.2	568.4	574.1	571.2	582.4
30°	624.5	614.7	610.5	614.7	609.1	614.7	613.4	611.9	617.6	614.7	624.5
32.5°	683.5	666.6	663.8	672.2	661.1	670.9	662.4	666.6	670.9	673.7	679.3
35°	752.3	732.6	729.9	738.2	725.7	739.7	729.9	735.4	738.2	745.2	749.5
37.5°	833.6	809.8	805.6	816.8	800.0	815.4	801.4	818.3	814.0	823.8	828.1
40°	931.9	903.9	894.0	909.4	889.8	902.4	888.4	906.7	902.4	922.1	926.3
42.5°	1052.6	1011.9	1002.1	1017.5	988.0	992.3	980.9	1002.1	999.3	1026.0	1030.2
45°	1177.5	1128.5	1114.3	1129.8	1096.1	1104.6	1087.7	1110.1	1108.8	1129.8	1146.7
47.5°	1316.5	1256.1	1237.9	1254.8	1214.0	1223.9	1207.1	1230.9	1232.3	1256.1	1273.0
50°	1461.0	1397.9	1374.0	1389.5	1351.5	1358.6	1341.7	1371.3	1369.7	1402.1	1414.7
52.5°	1618.2	1553.7	1535.5	1542.4	1497.6	1505.9	1491.8	1528.4	1519.9	1539.7	1564.8
55°	1792.3	1717.9	1696.8	1717.9	1664.5	1675.8	1657.6	1691.1	1677.1	1702.4	1709.5
57.5°	1970.5	1897.5	1880.6	1896.1	1845.6	1854.0	1830.2	1858.2	1846.9	1863.8	1875.0
60°	2160.0	2093.9	2077.2	2093.9	2044.8	2046.2	2005.6	2035.0	2018.2	2039.2	2035.0
62.5°	2341.1	2284.9	2280.7	2304.5	2242.8	2235.7	2186.7	2207.7	2183.8	2197.8	2180.9
65°	2495.4	2463.2	2468.7	2488.3	2433.6	2416.8	2360.7	2371.9	2336.9	2336.9	2315.7
67.5°	2697.5	2662.4	2662.4	2679.3	2610.5	2567.0	2489.7	2480.0	2422.4	2411.2	2362.0
70°	2866.0	2875.7	2864.4	2878.5	2797.1	2708.7	2606.3	2557.1	2481.4	2444.8	2387.3
71°	2805.6	2861.7	2881.3	2892.5	2825.2	2736.8	2630.1	2567.0	2494.0	2444.8	2383.1
72.5°	2531.9	2668.0	2745.2	2745.2	2753.7	2697.5	2595.0	2526.2	2443.5	2378.9	2321.3
75°	1774.1	1995.8	2095.4	2084.2	2157.1	2182.4	2190.9	2161.3	2115.0	2022.4	1981.8
77.5°	790.1	1041.3	1191.5	1192.9	1271.6	1340.3	1395.1	1452.6	1431.6	1386.6	1383.7
80°	179.6	325.5	416.8	421.0	492.6	555.8	593.7	651.2	658.2	593.7	557.2
82.5°	77.2	91.2	103.8	102.5	126.3	151.5	179.6	195.1	188.0	155.8	147.3
85°	32.2	42.1	44.9	42.1	51.9	57.5	67.4	68.8	79.9	71.5	75.7
87.5°	0.0	1.3	1.3	0.0	2.9	0.0	2.9	1.3	7.0	2.9	8.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
97.5°	11.8	12.8	11.6	11.3	9.8	8.4	6.8	6.4	5.9	5.4	4.9
100°	30.9	31.4	31.0	30.9	30.5	29.9	29.5	28.7	27.9	27.3	26.5
102.5°	49.9	50.0	49.9	49.9	49.6	49.2	49.0	48.6	48.1	47.6	47.1
105°	69.5	69.7	69.7	69.7	69.7	69.7	69.7	69.2	68.7	68.2	67.7
107.5°	90.8	91.3	91.1	91.1	90.8	90.5	90.3	90.1	89.8	89.5	89.3



REPORT NUMBER: P271598

CATALOG NUMBER: ISS-AF-800-LED-E1-T3-7027-ULG

**CANDELA DISTRIBUTION (continued):**

	52.5°	55°	57°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°
110°	111.4	111.9	111.9	111.9	111.9	111.9	111.9	111.7	111.4	111.1	110.9
112.5°	132.9	133.5	133.5	133.5	133.5	133.5	133.5	133.3	132.9	132.7	132.5
115°	154.6	155.0	155.0	155.0	155.0	155.0	155.0	155.0	155.0	155.0	155.0
117.5°	176.4	176.7	176.9	176.9	177.1	177.4	177.7	177.4	177.1	176.9	176.7
120°	199.7	200.2	200.2	200.2	200.2	200.2	200.2	200.2	200.2	200.2	200.2
122.5°	223.6	223.8	223.8	223.8	223.8	223.8	223.8	223.9	224.3	224.6	224.8
125°	248.1	248.3	248.5	248.5	248.8	249.1	249.3	249.3	249.3	249.3	249.3
127.5°	272.4	272.8	272.6	272.6	272.4	272.1	271.8	272.1	272.4	272.6	272.8
130°	294.9	295.5	295.5	295.5	295.5	295.5	295.5	295.6	295.9	296.2	296.4
132.5°	318.2	319.0	319.0	319.0	319.0	319.0	319.0	319.2	319.4	319.8	320.0
135°	340.7	341.5	341.5	341.5	341.5	341.5	341.5	341.7	342.1	342.3	342.5
137.5°	361.7	362.2	362.2	362.2	362.2	362.2	362.2	362.4	362.6	362.9	363.2
140°	382.6	382.8	382.8	382.8	382.8	382.8	382.8	383.3	383.8	384.3	384.7
142.5°	403.9	404.3	404.3	404.3	404.3	404.3	404.3	404.6	404.9	405.1	405.3
145°	425.4	426.0	425.8	425.8	425.4	425.2	425.0	425.2	425.4	425.8	426.0
147.5°	445.4	445.6	445.2	445.1	444.6	444.1	443.7	443.9	444.1	444.4	444.6
150°	462.1	462.3	461.9	461.8	461.3	460.8	460.3	460.3	460.3	460.3	460.3
152.5°	477.8	478.0	477.8	477.8	477.4	477.2	477.0	477.0	477.0	477.0	477.0
155°	494.4	494.7	494.4	494.4	494.2	493.9	493.7	493.9	494.2	494.4	494.7
157.5°	509.4	509.4	509.0	508.9	508.4	507.9	507.5	507.6	507.9	508.2	508.4
160°	522.2	522.2	521.7	521.6	521.2	520.7	520.2	520.2	520.2	520.2	520.2
162.5°	531.8	532.0	531.5	531.4	531.0	530.4	530.0	529.6	529.0	528.6	528.0
165°	542.6	542.8	542.1	541.9	541.3	540.6	539.8	539.3	538.8	538.4	537.8
167.5°	549.7	549.7	549.2	549.1	548.7	548.1	547.7	547.9	548.1	548.4	548.7
170°	554.7	554.5	554.3	554.3	554.1	553.7	553.5	554.1	554.5	555.1	555.5
172.5°	558.3	558.5	558.0	557.9	557.5	556.9	556.5	556.7	556.9	557.3	557.5
175°	562.2	562.4	561.8	561.6	560.9	560.3	559.5	558.9	558.5	557.9	557.5
177.5°	566.3	566.3	565.8	565.6	564.9	564.1	563.3	563.3	563.3	563.3	563.3
180°	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3



REPORT NUMBER: P271598

CATALOG NUMBER: ISS-AF-800-LED-E1-T3-7027-ULG

**CANDELA DISTRIBUTION (continued):**

	77.5°	80°	82.5°	85°	87.5°	90°	95°	100°	102.5°	105°	107.5°
0°	548.8	548.8	548.8	548.8	548.8	548.8	548.8	548.8	548.8	548.8	548.8
2.5°	538.9	546.0	538.9	546.0	541.8	546.0	544.6	546.0	538.9	546.0	537.5
5°	529.1	540.3	530.4	538.9	530.4	540.3	540.3	540.3	530.4	541.8	532.0
7.5°	520.7	533.3	520.7	533.3	524.9	534.7	534.7	538.9	527.8	540.3	526.2
10°	512.2	527.8	512.2	530.4	516.4	532.0	533.3	536.1	520.7	537.5	523.5
12.5°	508.0	527.8	509.5	527.8	510.9	532.0	533.3	536.1	519.3	540.3	522.1
15°	508.0	529.1	509.5	529.1	510.9	532.0	534.7	537.5	519.3	541.8	522.1
17.5°	508.0	529.1	512.2	530.4	513.7	533.3	536.1	538.9	522.1	541.8	524.9
20°	512.2	532.0	515.1	534.7	518.0	537.5	538.9	543.1	524.9	543.1	527.8
22.5°	522.1	538.9	524.9	543.1	530.4	546.0	547.3	551.6	537.5	553.0	540.3
25°	538.9	557.2	546.0	560.0	553.0	565.7	568.4	568.4	562.8	572.6	568.4
27.5°	574.1	588.1	579.7	592.3	588.1	597.9	597.9	599.3	603.5	606.3	610.5
30°	618.9	628.7	626.0	632.9	634.3	640.0	640.0	648.4	665.3	648.4	647.0
32.5°	679.3	684.9	686.2	689.1	694.7	698.9	704.5	714.3	728.3	689.1	676.4
35°	753.7	755.0	759.2	763.5	773.4	776.1	794.4	787.4	787.4	725.7	698.9
37.5°	835.1	835.1	846.3	846.3	870.2	871.5	889.8	853.3	832.3	752.3	713.0
40°	937.5	936.1	948.7	951.6	983.8	985.2	982.5	902.4	857.5	759.2	706.0
42.5°	1045.5	1049.8	1066.6	1072.3	1096.1	1104.6	1069.4	936.1	868.8	755.0	682.2
45°	1163.5	1171.9	1192.9	1208.4	1233.6	1223.9	1139.6	951.6	856.2	729.9	635.8
47.5°	1292.6	1301.0	1317.8	1347.4	1358.6	1347.4	1197.2	957.1	836.5	690.4	568.4
50°	1423.2	1437.2	1461.0	1503.1	1508.7	1480.7	1267.3	978.3	821.1	649.8	491.2
52.5°	1570.5	1584.5	1612.5	1682.7	1668.7	1611.2	1350.2	1017.5	825.3	624.5	425.3
55°	1726.3	1745.9	1800.7	1869.5	1838.5	1748.7	1441.4	1075.0	842.1	597.9	352.2
57.5°	1890.4	1911.5	1983.1	2064.6	2004.2	1883.5	1533.9	1120.0	850.5	543.1	272.3
60°	2053.3	2082.8	2175.3	2242.8	2148.7	1998.5	1616.8	1149.4	828.1	439.3	210.6
62.5°	2202.0	2249.7	2353.6	2390.1	2239.9	2071.5	1661.8	1128.5	736.8	303.2	169.8
65°	2307.3	2369.1	2436.5	2432.3	2223.0	2047.7	1628.0	1031.5	548.8	200.7	144.5
67.5°	2352.2	2409.7	2425.2	2353.6	2102.4	1942.5	1507.4	830.8	315.8	150.2	126.3
70°	2369.1	2418.1	2331.2	2158.5	1866.6	1684.1	1232.3	529.1	172.7	122.1	109.4
71°	2362.0	2385.9	2220.3	2018.2	1716.4	1525.6	1080.8	402.8	147.3	113.6	103.8
72.5°	2266.6	2233.0	1977.5	1753.0	1455.4	1261.7	840.6	254.0	120.7	102.5	96.8
75°	1852.6	1701.0	1455.4	1243.4	990.8	792.9	456.1	130.5	96.8	88.4	84.2
77.5°	1211.3	1079.2	877.1	713.0	541.8	411.2	186.7	89.8	77.2	74.4	73.0
80°	432.3	346.7	262.5	230.1	174.0	143.2	91.2	68.8	60.4	61.7	60.4
82.5°	122.1	112.3	96.8	89.8	78.6	77.2	59.0	51.9	47.7	50.6	49.0
85°	60.4	51.9	37.9	36.5	28.0	32.2	29.5	35.0	30.9	32.2	29.5
87.5°	4.2	5.6	1.3	4.2	0.0	4.2	5.6	7.0	1.3	5.6	4.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
97.5°	4.7	4.4	4.1	4.0	4.0	4.0	4.0	4.4	4.7	4.9	5.4
100°	26.3	26.1	25.7	25.5	25.1	24.5	25.5	26.1	26.3	26.5	27.3
102.5°	47.3	47.6	47.9	48.1	47.6	47.1	48.1	47.6	47.3	47.1	47.6
105°	68.2	68.7	69.2	69.7	68.7	67.7	69.7	68.7	68.2	67.7	68.2
107.5°	89.5	89.8	90.1	90.3	89.8	89.3	90.3	89.8	89.5	89.3	89.5



REPORT NUMBER: P271598  
 CATALOG NUMBER: ISS-AF-800-LED-E1-T3-7027-ULG

REPORT N  
 CATALOG

**CANDELA DISTRIBUTION (continued):**

**CANDELA**

	77.5°	80°	82.5°	85°	87.5°	90°	95°	100°	102.5°	105°	107.5°	
110°	111.1	111.4	111.7	111.9	111.4	110.9	111.9	111.4	111.1	110.9	111.1	0°
112.5°	132.9	133.5	133.9	134.5	133.5	132.5	134.5	133.5	132.9	132.5	132.7	2.5°
115°	155.6	156.0	156.6	157.0	156.6	156.0	157.0	156.0	155.6	155.0	155.0	5°
117.5°	177.1	177.7	178.1	178.7	177.7	176.7	178.7	177.7	177.1	176.7	176.9	7.5°
120°	200.7	201.2	201.7	202.2	201.2	200.2	202.2	201.2	200.7	200.2	200.2	10°
122.5°	225.7	226.7	227.7	228.7	228.2	227.7	228.7	226.7	225.7	224.8	224.6	12.5°
125°	250.1	250.8	251.4	252.2	251.7	251.3	252.2	250.8	250.1	249.3	249.3	15°
127.5°	273.6	274.3	275.0	275.8	274.3	272.8	275.8	274.3	273.6	272.8	272.6	17.5°
130°	297.2	297.9	298.6	299.3	298.3	297.4	299.3	297.9	297.2	296.4	296.2	20°
132.5°	320.8	321.4	322.1	322.9	322.0	321.0	322.9	321.4	320.8	320.0	319.8	22.5°
135°	343.1	343.5	344.1	344.5	344.1	343.5	344.5	343.5	343.1	342.5	342.3	25°
137.5°	364.2	365.1	366.1	367.0	366.1	365.1	367.0	365.1	364.2	363.2	362.9	27.5°
140°	385.7	386.7	387.7	388.7	387.7	386.7	388.7	386.7	385.7	384.7	384.3	30°
142.5°	406.1	406.8	407.5	408.3	407.8	407.3	408.3	406.8	406.1	405.3	405.1	32.5°
145°	426.8	427.4	428.1	428.9	428.0	427.0	428.9	427.4	426.8	426.0	425.8	35°
147.5°	445.4	446.1	446.7	447.5	446.1	444.6	447.5	446.1	445.4	444.6	444.4	37.5°
150°	461.3	462.3	463.3	464.2	462.8	461.3	464.2	462.3	461.3	460.3	460.3	40°
152.5°	477.8	478.4	479.2	480.0	478.4	477.0	480.0	478.4	477.8	477.0	477.0	42.5°
155°	495.4	496.1	496.9	497.6	496.7	495.7	497.6	496.1	495.4	494.7	494.4	45°
157.5°	509.6	510.9	512.1	513.3	511.9	510.3	513.3	510.9	509.6	508.4	508.2	47.5°
160°	520.9	521.6	522.4	523.2	522.2	521.2	523.2	521.6	520.9	520.2	520.2	50°
162.5°	528.6	529.0	529.6	530.0	528.6	527.0	530.0	529.0	528.6	528.0	528.6	52.5°
165°	538.4	538.8	539.3	539.8	538.8	537.8	539.8	538.8	538.4	537.8	538.4	55°
167.5°	549.7	550.6	551.6	552.5	551.6	550.6	552.5	550.6	549.7	548.7	548.4	57.5°
170°	556.7	557.9	559.3	560.5	559.5	558.5	560.5	557.9	556.7	555.5	555.1	60°
172.5°	558.3	558.9	559.6	560.5	558.9	557.5	560.5	558.9	558.3	557.5	557.3	62.5°
175°	558.3	558.9	559.6	560.5	558.9	557.5	560.5	558.9	558.3	557.5	557.9	65°
177.5°	564.1	564.9	565.6	566.3	564.9	563.3	566.3	564.9	564.1	563.3	563.3	67.5°
180°	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	70°
												71°
												72.5°
												75°
												77.5°
												80°
												82.5°
												85°
												87.5°
												90°
												92.5°
												95°
												97.5°
												100°
												102.5°
												105°
												107.5°

NUMBER: P271598  
 NUMBER: ISS-AF-800-LED-E1-T3-7027-ULG

REPORT NUMBER: P  
 CATALOG NUMBER:

**DISTRIBUTION (continued):**

**CANDELA DISTRIBUTION**

110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°	110°	110°
548.8	548.8	548.8	548.8	548.8	548.8	548.8	548.8	548.8	548.8	548.8	110°	111.4
547.3	541.8	548.8	541.8	548.8	544.6	548.8	544.6	548.8	551.6	551.6	112.5°	132.9
544.6	534.7	547.3	540.3	548.8	541.8	547.3	543.1	550.1	553.0	555.8	115°	155.0
543.1	533.3	546.0	536.1	548.8	538.9	547.3	541.8	550.1	553.0	558.6	117.5°	177.1
541.8	529.1	546.0	532.0	547.3	537.5	547.3	538.9	548.8	551.6	553.0	120°	200.2
541.8	527.8	546.0	530.4	547.3	533.3	546.0	533.3	547.3	546.0	541.8	122.5°	224.3
543.1	524.9	546.0	527.8	546.0	529.1	544.6	527.8	541.8	537.5	534.7	125°	249.3
543.1	524.9	544.6	526.2	543.1	527.8	540.3	524.9	537.5	536.1	532.0	127.5°	272.4
546.0	527.8	544.6	532.0	544.6	529.1	538.9	524.9	534.7	526.2	509.5	130°	295.9
554.3	541.8	554.3	541.8	547.3	533.3	537.5	520.7	519.3	505.3	478.5	132.5°	319.4
574.1	568.4	565.7	550.1	546.0	527.8	522.1	502.4	495.4	474.3	437.8	135°	342.1
599.3	586.6	569.9	551.6	533.3	510.9	495.4	480.0	464.5	437.8	391.6	137.5°	362.6
616.1	597.9	562.8	537.5	503.9	485.6	458.9	442.1	419.7	385.9	341.1	140°	383.8
627.4	599.3	546.0	516.4	471.6	447.7	412.6	394.4	362.1	329.8	297.6	142.5°	404.9
630.1	593.7	523.5	491.2	432.3	405.7	359.3	339.6	308.7	286.3	273.6	145°	425.4
618.9	574.1	488.4	446.3	381.7	350.9	307.4	293.4	275.2	266.7	261.0	147.5°	444.1
596.5	536.1	433.7	384.6	318.6	294.7	272.3	272.3	262.5	258.3	248.4	150°	460.3
555.8	480.0	363.5	315.8	270.9	266.7	254.0	259.6	252.6	249.8	235.7	152.5°	477.0
492.6	399.9	293.4	265.3	244.2	247.0	238.6	244.2	239.9	238.6	221.7	155°	494.2
411.2	318.6	247.0	237.2	223.2	227.5	220.4	227.5	223.2	224.6	211.9	157.5°	507.9
328.4	258.3	219.0	213.3	203.5	206.3	202.1	209.1	207.7	213.3	206.3	160°	520.2
262.5	220.4	195.1	190.9	185.3	186.7	185.3	192.2	193.7	204.9	204.9	162.5°	529.0
217.5	189.5	175.3	174.0	168.4	169.8	171.3	178.2	183.8	197.9	204.9	165°	538.8
186.7	169.8	160.0	158.6	155.8	157.2	160.0	168.4	174.0	192.2	207.7	167.5°	548.1
164.2	154.4	147.3	147.3	144.5	147.3	150.2	158.6	165.6	186.7	202.1	170°	554.5
147.3	140.3	136.1	137.5	136.1	139.0	141.8	150.2	158.6	178.2	193.7	172.5°	556.9
131.9	127.6	125.0	126.3	126.3	130.5	133.3	141.8	148.8	167.1	186.7	175°	558.5
119.3	116.5	115.2	116.5	117.9	122.1	126.3	131.9	137.5	154.4	176.9	177.5°	563.3
109.4	106.7	106.7	106.7	108.1	112.3	117.9	120.7	126.3	144.5	165.6	180°	565.3
<b>103.8</b>	<b>102.5</b>	<b>102.5</b>	<b>102.5</b>	<b>103.8</b>	<b>108.1</b>	<b>113.6</b>	<b>116.5</b>	<b>122.1</b>	<b>140.3</b>	<b>160.0</b>		
96.8	96.8	98.3	96.8	99.6	101.1	106.7	109.4	116.5	134.7	153.0		
85.6	85.6	87.0	87.0	89.8	89.8	94.1	96.8	105.2	120.7	137.5		
75.7	75.7	78.6	77.2	77.2	74.4	79.9	82.8	89.8	105.2	122.1		
64.6	63.2	65.9	61.7	60.4	57.5	61.7	65.9	77.2	87.0	89.8		
50.6	46.4	47.7	43.5	43.5	40.7	44.9	46.4	53.3	63.2	68.8		
30.9	25.2	28.0	23.9	26.7	23.9	25.2	26.7	32.2	39.3	37.9		
7.0	4.2	5.6	1.3	4.2	0.0	4.2	1.3	4.2	1.3	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
5.9	6.4	6.8	8.4	9.8	11.3	12.8	11.8	10.8	8.8	4.0		
27.9	28.7	29.5	29.9	30.5	30.9	31.4	30.9	30.5	29.5	21.6		
48.1	48.6	49.0	49.2	49.6	49.9	50.0	49.9	49.6	49.0	44.2		
68.7	69.2	69.7	69.7	69.7	69.7	69.7	69.5	69.2	68.7	64.8		
89.8	90.1	90.3	90.5	90.8	91.1	91.3	90.8	90.3	89.3	86.3		

271598  
 ISS-AF-800-LED-E1-T3-7027-ULG

REPORT NUMBER: P271598  
 CATALOG NUMBER: ISS-AF-800

**TION (continued):**

**CANDELA DISTRIBUTION (con**

112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°		155°	165°
111.7	111.9	111.9	111.9	111.9	111.9	111.4	110.9	110.0	108.0	0°	548.8	548.8
133.3	133.5	133.5	133.5	133.5	133.5	132.9	132.5	131.5	129.5	2.5°	554.3	553.0
155.0	155.0	155.0	155.0	155.0	155.0	154.6	154.1	153.1	151.2	5°	561.4	561.4
177.4	177.7	177.4	177.1	176.9	176.7	176.4	176.2	175.7	173.7	7.5°	562.8	565.7
200.2	200.2	200.2	200.2	200.2	200.2	199.7	199.2	198.3	197.3	10°	553.0	550.1
223.9	223.8	223.8	223.8	223.8	223.8	223.6	223.3	222.8	221.8	12.5°	537.5	534.7
249.3	249.3	249.1	248.8	248.5	248.3	248.1	247.8	247.3	246.3	15°	536.1	534.7
272.1	271.8	272.1	272.4	272.6	272.8	272.4	271.8	270.9	269.0	17.5°	526.2	519.3
295.6	295.5	295.5	295.5	295.5	295.5	294.9	294.5	293.5	292.5	20°	498.2	485.6
319.2	319.0	319.0	319.0	319.0	319.0	318.2	317.6	316.0	315.0	22.5°	458.9	440.7
341.7	341.5	341.5	341.5	341.5	341.5	340.7	340.1	338.6	338.6	25°	411.2	385.9
362.4	362.2	362.2	362.2	362.2	362.2	361.7	361.2	360.2	360.2	27.5°	359.3	334.0
383.3	382.8	382.8	382.8	382.8	382.8	382.6	382.3	381.8	380.8	30°	318.6	299.0
404.6	404.3	404.3	404.3	404.3	404.3	403.9	403.4	402.4	402.4	32.5°	289.2	277.8
425.2	425.0	425.2	425.4	425.8	426.0	425.4	425.0	424.0	423.0	35°	265.3	258.3
443.9	443.7	444.1	444.6	445.1	445.6	445.4	445.1	444.6	443.7	37.5°	249.8	238.6
460.3	460.3	460.8	461.3	461.8	462.3	462.1	461.8	461.3	460.3	40°	234.4	220.4
477.0	477.0	477.2	477.4	477.8	478.0	477.8	477.4	477.0	476.0	42.5°	220.4	206.3
493.9	493.7	493.9	494.2	494.4	494.7	494.4	494.2	493.7	493.7	45°	206.3	196.5
507.6	507.5	507.9	508.4	508.9	509.4	509.4	509.4	509.4	509.4	47.5°	199.3	190.9
520.2	520.2	520.7	521.2	521.6	522.2	522.2	522.2	522.2	522.2	50°	196.5	188.0
529.6	530.0	530.4	531.0	531.4	532.0	531.8	531.4	531.0	531.0	52.5°	199.3	192.2
539.3	539.8	540.6	541.3	541.9	542.8	542.6	542.3	541.8	541.8	55°	204.9	200.7
547.9	547.7	548.1	548.7	549.1	549.7	549.7	549.7	549.7	550.6	57.5°	199.3	192.2
554.1	553.5	553.7	554.1	554.3	554.5	554.7	555.1	555.5	556.5	60°	186.7	175.3
556.7	556.5	556.9	557.5	557.9	558.5	558.3	557.9	557.5	558.5	62.5°	178.2	167.1
558.9	559.5	560.3	560.9	561.6	562.4	562.2	561.9	561.4	561.4	65°	171.3	162.9
563.3	563.3	564.1	564.9	565.6	566.3	566.3	566.3	566.3	567.3	67.5°	164.2	155.8
565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	70°	155.8	147.3
										71°	151.5	141.8
										72.5°	144.5	133.3
										75°	130.5	119.3
										77.5°	108.1	95.4
										80°	82.8	74.4
										82.5°	61.7	54.8
										85°	32.2	25.2
										87.5°	0.0	0.0
										90°	0.0	0.0
										92.5°	0.0	0.0
										95°	1.0	1.0
										97.5°	3.0	2.0
										100°	13.7	9.8
										102.5°	37.3	31.4
										105°	59.8	55.0
										107.5°	82.5	78.5



REPORT NUMBER: P271598

CATALOG NUMBER: ISS-AF-800-LED-E1-1

0-LED-E1-T3-7027-ULG

**tinued):**

175°	180°
548.8	548.8
554.3	553.0
562.8	564.1
568.4	567.0
553.0	550.1
537.5	537.5
536.1	536.1
516.4	515.1
482.7	478.5
435.0	430.8
376.1	370.6
324.2	324.2
289.2	289.2
270.9	272.3
254.0	255.5
228.8	228.8
207.7	207.7
197.9	196.5
189.5	188.0
183.8	182.4
178.2	178.2
174.0	174.0
174.0	171.3
175.3	171.3
172.7	169.8
172.7	171.3
175.3	172.7
175.3	169.8
160.0	150.2
151.5	143.2
136.1	130.5
116.5	115.2
91.2	89.8
74.4	70.2
53.3	46.4
21.0	21.0
0.0	0.0
0.0	0.0
0.0	0.0
1.0	1.0
2.0	2.0
7.8	7.8
27.5	27.5
53.0	53.0
75.5	76.5

**CANDELA DISTRIBUTION (continued):**

	155°	165°	175°
110°	104.0	101.1	100.1
112.5°	126.6	123.7	121.7
115°	148.2	146.2	144.3
117.5°	170.8	168.8	166.8
120°	194.3	192.3	191.4
122.5°	218.8	216.9	216.0
125°	243.4	242.5	241.5
127.5°	267.0	265.0	264.0
130°	288.5	287.5	286.6
132.5°	312.1	311.2	308.2
135°	334.7	332.7	330.8
137.5°	357.3	356.3	353.3
140°	378.8	377.8	375.9
142.5°	399.5	400.5	398.5
145°	420.0	420.0	418.1
147.5°	439.7	438.7	435.8
150°	456.4	455.4	453.5
152.5°	473.0	474.0	471.1
155°	491.7	492.7	490.7
157.5°	506.5	507.5	505.5
160°	519.2	519.2	517.2
162.5°	528.0	529.0	526.0
165°	537.8	538.8	536.8
167.5°	547.7	548.7	545.7
170°	554.5	555.5	552.5
172.5°	556.5	558.5	555.5
175°	558.5	559.5	558.5
177.5°	563.3	564.3	562.4
180°	565.3	565.3	565.3

13-7027-ULG

180°
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99.2
121.7
143.3
165.8
189.5
215.0
239.5
262.0
284.7
307.2
329.8
352.3
375.0
396.5
417.2
435.8
452.5
470.2
489.8
503.5
515.3
525.1
535.9
544.7
551.6
554.5
556.5
561.4
565.3

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