

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: P271522

Luminaire Tested: **ISS-AF-800-LED-E1-SL2-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271522
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29761)
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-SL2-7027
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE
LIGHT SQUARE WITH ACCULED OPTICS-TYPE II W/SPILL CONTROL
Light Source: (16) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4020.2 lumens
Efficiency: N/A
Efficacy: 92.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G1

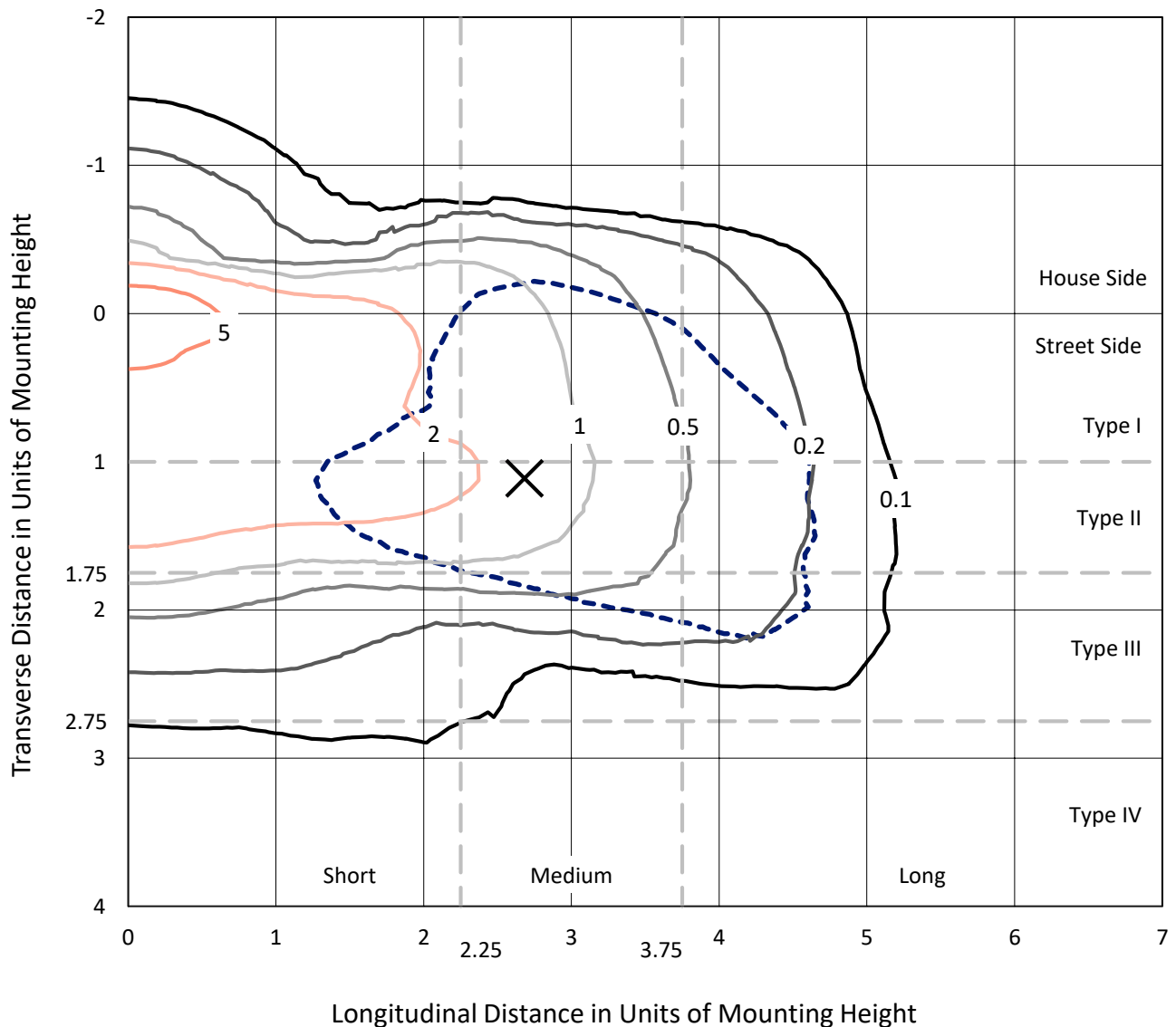
Input Watts (W): 43.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P271522
 CATALOG NUMBER: ISS-AF-800-LED-E1-SL2-7027

Iso-Footcandle Lines of Horizontal Illumination

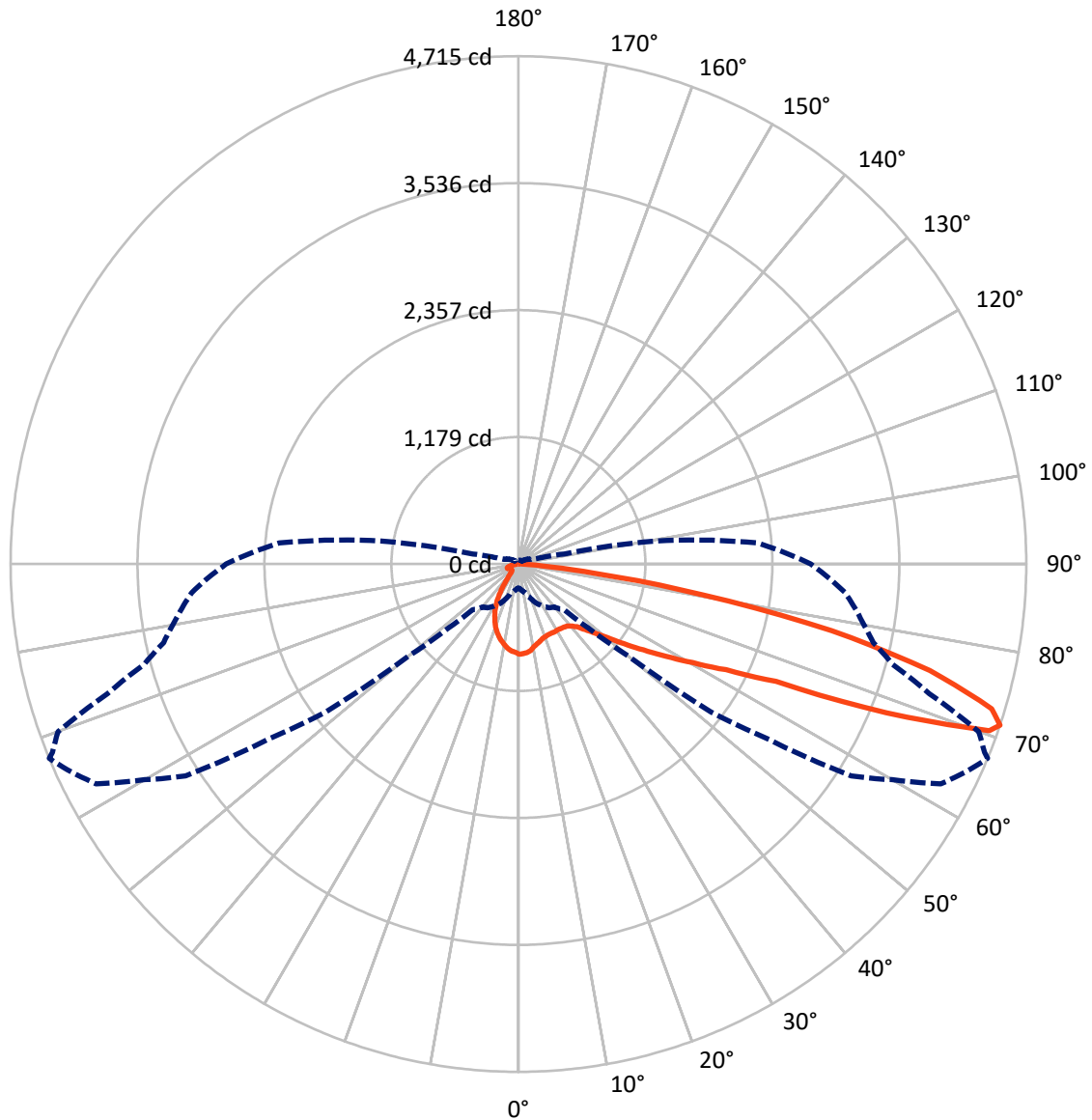
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.4 fc
 Type III - Medium - Non-Cutoff

REPORT NUMBER: P271522
CATALOG NUMBER: ISS-AF-800-LED-E1-SL2-7027

Luminous Intensity Polar Plot



— Vertical Plane Through 67.5-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

REPORT NUMBER: P271522

CATALOG NUMBER: ISS-AF-800-LED-E1-SL2-7027

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	677.4	0.0	677.4
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	3342.7	0.0	3342.7
	% Fixture	83.1	0.0	83.1
Total	Lumens	4020.2	0.0	4020.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.1	1.8
10°-20°	174.9	4.4
20°-30°	237.8	5.9
30°-40°	325.0	8.1
40°-50°	489.8	12.2
50°-60°	776.2	19.3
60°-70°	1027.6	25.6
70°-80°	818.6	20.4
80°-90°	97.0	2.4
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°	4020.2	100.0
0°-180°	4020.2	100.0



REPORT NUMBER: P271522

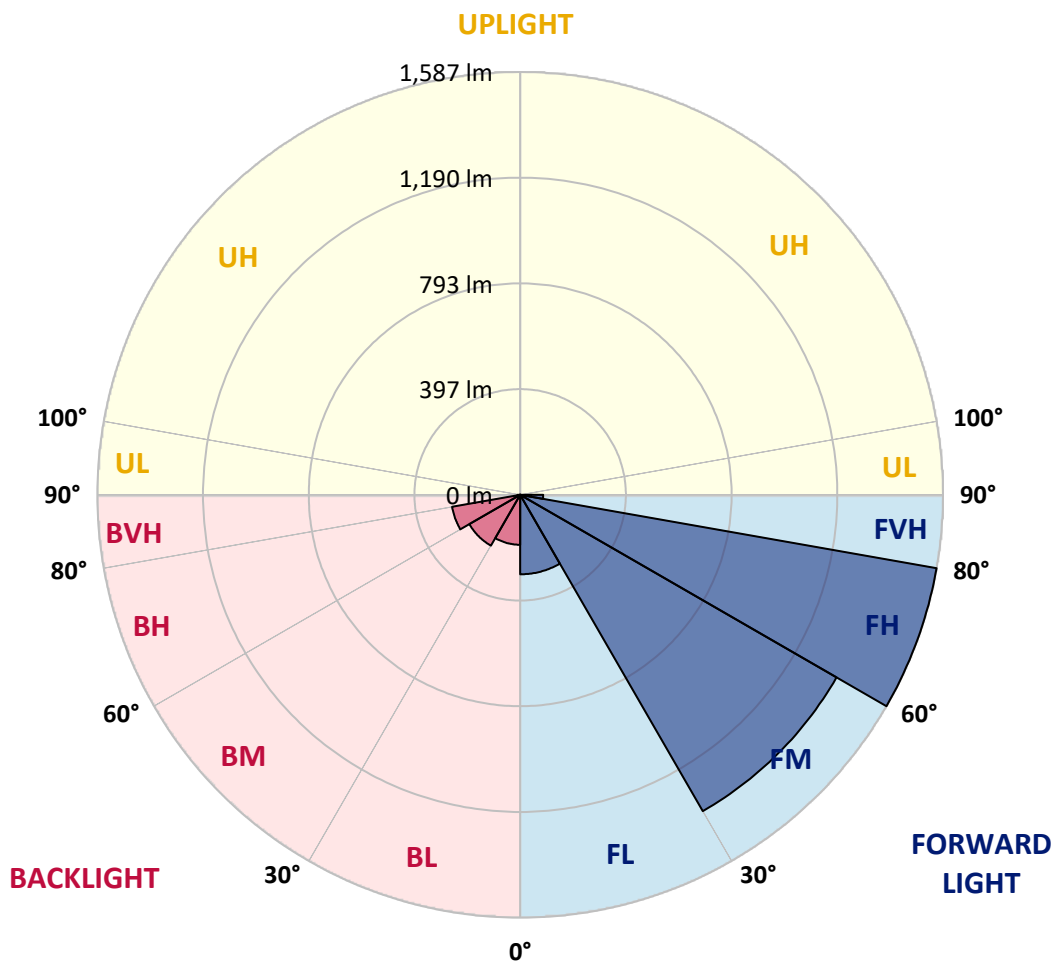
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	298.3	7.4			
FM	(30°-60°)	1370.9	34.1			
FH	(60°-80°)	1586.9	39.5			G1/1800
FVH	(80°-90°)	86.5	2.2			G1/100
BL	(0°-30°)	187.5	4.7	B1/500		
BM	(30°-60°)	220.1	5.5	B1/1000		
BH	(60°-80°)	259.3	6.4	B1/500		G1/500
BVH	(80°-90°)	10.5	0.3			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





REPORT NUMBER: P271522

CATALOG NUMBER: ISS-AF-800-LED-E1-SL2-7027

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47.5°	50°
0°	837.8	837.8	837.8	837.8	837.8	837.8	837.8	837.8	837.8	837.8	837.8
2.5°	822.3	819.5	819.5	823.7	830.8	825.1	829.3	829.3	830.8	835.0	836.3
5°	762.0	756.4	762.0	767.6	783.1	780.2	784.4	788.6	797.1	798.4	809.7
7.5°	707.2	704.5	708.7	719.9	739.6	733.9	739.6	745.1	754.9	759.2	770.4
10°	665.1	661.0	666.5	675.0	694.6	693.2	696.1	703.0	714.2	717.0	731.1
12.5°	634.2	634.2	637.1	648.3	665.1	663.8	672.1	676.3	686.1	689.0	704.5
15°	618.8	614.6	620.2	630.1	646.9	646.9	652.5	656.8	670.8	672.1	686.1
17.5°	604.8	606.3	607.6	618.8	634.2	631.5	638.4	641.3	656.8	654.0	670.8
20°	604.8	607.6	606.3	613.3	624.4	618.8	627.3	628.6	645.5	641.3	659.5
22.5°	621.6	624.4	620.2	618.8	623.1	618.8	623.1	625.8	638.4	635.7	652.5
25°	651.1	656.8	651.1	641.3	637.1	625.8	628.6	632.9	642.6	635.7	651.1
27.5°	697.4	701.7	691.9	682.0	662.3	649.7	645.5	644.2	655.3	644.2	656.8
30°	750.7	756.4	748.0	729.7	701.7	680.6	672.1	668.0	675.0	658.2	670.8
32.5°	808.3	814.0	808.3	794.2	756.4	725.5	714.2	704.5	710.1	687.7	693.2
35°	867.2	872.8	878.5	870.0	820.9	785.8	767.6	759.2	757.8	729.7	731.1
37.5°	919.1	924.7	943.0	951.5	906.5	858.8	841.9	823.7	825.1	785.8	785.8
40°	982.3	989.3	1013.2	1032.8	1003.4	945.7	926.2	906.5	906.5	854.6	855.9
42.5°	1067.8	1076.3	1091.7	1118.4	1108.6	1049.7	1028.6	1001.9	1004.8	943.0	941.6
45°	1188.5	1194.2	1194.2	1211.1	1212.4	1156.3	1142.3	1115.5	1121.3	1042.7	1046.9
47.5°	1345.8	1338.7	1310.6	1320.5	1331.6	1272.8	1260.1	1243.3	1250.4	1166.1	1174.5
50°	1491.6	1486.1	1428.6	1431.3	1472.1	1411.7	1407.5	1386.4	1396.2	1312.1	1324.7
52.5°	1546.4	1536.6	1479.1	1509.9	1623.6	1589.9	1597.0	1587.0	1592.8	1503.0	1500.1
55°	1484.7	1484.7	1449.5	1505.6	1737.2	1755.5	1813.0	1835.5	1859.3	1769.5	1749.9
57.5°	1313.4	1324.7	1330.3	1429.9	1719.0	1797.6	1907.0	2002.4	2124.5	2118.9	2148.4
60°	1030.0	1049.7	1081.9	1244.7	1640.5	1769.5	1911.2	2054.3	2222.8	2330.8	2490.8
62.5°	722.7	739.6	766.2	878.5	1411.7	1633.4	1838.3	2058.6	2273.3	2443.1	2653.6
65°	491.1	508.0	564.1	625.8	851.9	1174.5	1487.4	1852.3	2179.3	2495.0	2778.5
67.5°	353.7	363.5	406.9	510.8	566.9	625.8	742.3	1171.7	1574.5	2210.2	2624.1
70°	265.2	275.0	314.4	429.4	498.2	513.7	541.7	617.5	719.9	1241.9	1784.9
71°	221.7	235.7	283.4	404.1	495.3	508.0	520.6	565.6	599.2	878.5	1324.7
72.5°	155.8	165.6	210.6	373.2	475.7	505.2	534.6	533.2	530.4	599.2	801.3
75°	99.6	99.6	99.6	210.6	508.0	489.8	501.0	561.4	530.4	503.8	527.7
77.5°	78.6	77.2	72.9	105.2	397.1	496.8	526.2	541.7	571.1	526.2	502.3
80°	58.9	57.5	57.5	65.9	183.8	321.3	444.8	494.0	515.0	559.9	510.8
82.5°	30.9	30.9	33.7	39.3	68.8	112.3	230.1	378.8	423.8	426.5	430.7
85°	9.8	8.4	11.2	18.2	29.5	36.5	64.6	152.9	227.3	275.0	290.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	5.6	9.8	12.7
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: P271522

CATALOG NUMBER: ISS-AF-800-LED-E1-SL2-7027

CANDELA DISTRIBUTION (continued):

	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	68°	70°	72.5°	75°
0°	837.8	837.8	837.8	837.8	837.8	837.8	837.8	837.8	837.8	837.8	837.8
2.5°	832.1	837.8	833.5	839.2	832.1	840.5	833.5	837.8	839.2	833.5	840.5
5°	802.6	819.5	814.0	826.5	820.9	832.1	826.5	837.8	837.8	833.5	843.4
7.5°	766.2	783.1	784.4	797.1	797.1	811.1	811.1	822.3	828.0	828.0	841.9
10°	729.7	745.1	748.0	762.0	764.7	781.6	781.6	797.1	808.3	812.4	829.3
12.5°	701.7	721.2	721.2	736.7	733.9	759.2	762.0	776.0	787.3	797.1	819.5
15°	684.8	703.0	703.0	718.5	715.7	740.9	745.1	759.2	776.0	781.6	812.4
17.5°	668.0	686.1	682.0	703.0	701.7	729.7	726.9	748.0	762.0	770.4	805.5
20°	654.0	675.0	672.1	693.2	687.7	718.5	718.5	739.6	753.6	760.5	801.3
22.5°	646.9	669.3	663.8	684.8	680.6	711.5	711.5	732.5	748.0	759.2	799.9
25°	646.9	666.5	661.0	684.8	677.8	711.5	710.1	731.1	746.5	756.4	801.3
27.5°	649.7	669.3	665.1	687.7	682.0	711.5	714.2	732.5	748.0	759.2	804.1
30°	659.5	677.8	668.0	689.0	684.8	712.9	711.5	731.1	746.5	760.5	804.1
32.5°	680.6	690.3	677.8	696.1	687.7	715.7	715.7	729.7	748.0	764.7	804.1
35°	710.1	717.0	697.4	710.1	694.6	722.7	721.2	736.7	750.7	764.7	806.9
37.5°	752.2	760.5	729.7	740.9	715.7	738.0	732.5	750.7	764.7	773.2	820.9
40°	815.3	818.1	777.4	785.8	750.7	770.4	756.4	781.6	788.6	794.2	841.9
42.5°	892.5	895.3	843.4	849.0	804.1	820.9	797.1	823.7	833.5	832.1	884.0
45°	987.9	989.3	930.4	934.6	882.7	896.7	867.2	889.7	896.7	892.5	945.7
47.5°	1091.7	1103.0	1037.0	1042.7	987.9	995.0	958.4	983.7	983.7	979.5	1034.2
50°	1229.3	1246.1	1169.0	1177.4	1114.2	1119.7	1077.7	1104.4	1101.6	1090.4	1152.1
52.5°	1400.5	1415.9	1334.5	1345.8	1278.4	1281.3	1229.3	1260.1	1251.7	1233.5	1305.1
55°	1609.5	1610.9	1535.1	1545.1	1477.6	1473.4	1408.9	1446.8	1434.1	1408.9	1474.8
57.5°	1944.9	1904.2	1779.4	1776.6	1703.5	1698.0	1615.2	1661.4	1640.5	1587.0	1674.1
60°	2485.3	2497.7	2179.3	2130.2	1994.1	1968.7	1859.3	1912.6	1887.4	1800.5	1886.0
62.5°	2789.7	2990.4	2970.8	2793.9	2443.1	2347.7	2162.4	2225.6	2159.6	2032.0	2111.9
65°	3015.6	3287.9	3445.0	3614.8	3457.7	3067.5	2629.7	2718.1	2556.8	2314.0	2391.2
67.5°	3099.8	3428.2	3759.4	4000.7	4164.9	4194.4	3687.8	3711.7	3314.6	2829.0	2838.8
70°	2659.3	3143.3	3791.7	4097.6	4423.2	4583.2	4636.4	4611.1	4354.4	3666.7	3404.4
71°	2253.7	2840.2	3662.5	4003.6	4420.3	4574.7	4714.9	4667.2	4548.0	3999.3	3596.5
72.5°	1526.8	2263.5	3285.0	3717.3	4273.0	4385.3	4595.7	4511.5	4486.2	4247.6	3776.1
75°	718.5	1128.2	2137.2	2791.1	3616.3	3724.2	3944.5	3840.7	3774.8	3856.2	3592.4
77.5°	529.0	616.1	1173.2	1734.4	2629.7	2782.7	2972.1	2844.4	2760.2	2841.6	2657.7
80°	481.3	484.2	607.6	914.9	1568.9	1660.1	1731.7	1627.8	1500.1	1494.5	1324.7
82.5°	443.4	419.6	394.4	484.2	804.1	764.7	707.2	655.3	509.4	408.4	294.6
85°	282.1	308.7	280.6	265.2	320.0	263.8	209.0	200.7	141.8	95.4	88.4
87.5°	19.7	22.5	26.7	30.9	37.9	30.9	19.7	23.9	14.0	0.0	7.0
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: P271522

CATALOG NUMBER: ISS-AF-800-LED-E1-SL2-7027

CANDELA DISTRIBUTION (continued):

	77.5°	80°	85°	90°	95°	100°	102.5°	105°	107.5°	110°	112.5°
0°	837.8	837.8	837.8	837.8	837.8	837.8	837.8	837.8	837.8	837.8	837.8
2.5°	830.8	837.8	840.5	839.2	836.3	833.5	823.7	830.8	820.9	828.0	819.5
5°	835.0	844.8	846.1	843.4	840.5	835.0	818.1	828.0	816.6	822.3	809.7
7.5°	833.5	849.0	850.3	847.6	841.9	832.1	815.3	822.3	804.1	808.3	791.5
10°	826.5	849.0	850.3	843.4	835.0	819.5	799.9	802.6	784.4	784.4	762.0
12.5°	819.5	846.1	853.2	843.4	829.3	808.3	785.8	783.1	762.0	760.5	735.4
15°	819.5	849.0	858.8	846.1	825.1	795.7	768.9	763.4	739.6	732.5	704.5
17.5°	818.1	849.0	863.0	846.1	820.9	783.1	749.4	743.8	712.9	701.7	669.3
20°	816.6	851.9	865.9	843.4	808.3	767.6	729.7	718.5	684.8	666.5	628.6
22.5°	815.3	857.4	868.6	840.5	799.9	748.0	708.7	689.0	649.7	625.8	580.9
25°	822.3	864.3	870.0	837.8	787.3	726.9	684.8	658.2	614.6	583.8	530.4
27.5°	825.1	871.4	872.8	832.1	771.8	704.5	659.5	623.1	573.9	536.1	475.7
30°	833.5	872.8	868.6	820.9	753.6	676.3	630.1	585.2	530.4	481.3	409.8
32.5°	836.3	877.0	865.9	808.3	735.4	648.3	596.4	544.5	478.4	420.9	334.0
35°	841.9	879.9	863.0	801.3	715.7	618.8	561.4	502.3	426.5	353.7	254.0
37.5°	850.3	892.5	870.0	798.4	705.9	593.6	522.1	458.9	364.8	279.2	168.4
40°	871.4	917.8	882.7	802.6	698.8	572.5	484.2	414.0	294.6	206.3	116.5
42.5°	913.6	961.3	914.9	823.7	703.0	554.3	444.8	366.3	223.0	147.3	96.8
45°	976.6	1017.4	968.2	858.8	719.9	544.5	408.4	317.1	160.0	117.9	88.4
47.5°	1069.3	1108.6	1046.9	914.9	749.4	540.3	370.6	265.2	123.4	106.7	85.6
50°	1191.4	1237.7	1160.5	1003.4	804.1	544.5	329.8	216.1	108.1	103.8	84.2
52.5°	1341.5	1386.4	1309.3	1133.8	893.8	568.3	286.3	188.0	102.5	102.5	82.8
55°	1511.3	1574.5	1498.7	1314.8	1032.8	620.2	259.6	178.2	102.5	103.8	81.4
57.5°	1712.0	1765.3	1698.0	1488.9	1199.8	705.9	262.5	188.0	102.5	103.8	79.9
60°	1908.4	1974.5	1897.2	1710.6	1390.7	835.0	320.0	238.6	106.7	108.1	79.9
62.5°	2113.4	2163.8	2100.7	1904.2	1606.8	995.0	435.0	345.2	123.4	127.6	85.6
65°	2337.9	2420.7	2354.6	2193.3	1912.6	1250.4	654.0	517.9	182.4	148.8	94.1
67.5°	2726.5	2760.2	2728.0	2580.7	2270.5	1460.8	778.8	526.2	182.4	144.5	105.2
70°	3252.9	3176.9	3032.5	2757.4	2308.4	1310.6	558.5	321.3	155.8	137.5	110.9
71°	3374.8	3258.4	3045.2	2713.9	2229.9	1183.0	433.6	254.0	146.0	134.7	110.9
72.5°	3449.2	3275.2	2952.5	2586.2	2075.4	931.8	286.3	199.2	133.3	127.6	106.7
75°	3352.5	3031.2	2607.3	2238.1	1699.3	484.2	179.6	151.5	113.6	110.9	92.6
77.5°	2661.9	2380.0	1923.9	1626.4	1093.1	214.8	129.1	115.1	89.8	87.0	71.5
80°	1241.9	996.3	583.8	501.0	343.8	126.3	88.4	78.6	64.6	61.7	50.6
82.5°	225.9	169.8	131.9	127.6	115.1	74.4	51.9	47.7	40.7	39.3	32.2
85°	77.2	74.4	56.1	56.1	57.5	39.3	29.5	28.0	21.0	21.0	14.0
87.5°	1.3	7.0	7.0	9.8	8.4	7.0	2.9	4.2	1.3	4.2	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: P271522

CATALOG NUMBER: ISS-AF-800-LED-E1-SL2-7027

CANDELA DISTRIBUTION (continued):

	115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°	155°	165°
0°	837.8	837.8	837.8	837.8	837.8	837.8	837.8	837.8	837.8	837.8	837.8
2.5°	826.5	815.3	825.1	815.3	820.9	809.7	816.6	812.4	812.4	808.3	805.5
5°	814.0	799.9	806.9	795.7	801.3	784.4	788.6	781.6	767.6	759.2	748.0
7.5°	795.7	774.6	780.2	763.4	767.6	745.1	749.4	736.7	710.1	693.2	676.3
10°	763.4	743.8	745.1	724.0	722.7	700.2	696.1	679.2	640.0	611.8	589.4
12.5°	731.1	708.7	705.9	680.6	676.3	649.7	644.2	617.5	559.9	505.2	470.2
15°	697.4	669.3	661.0	634.2	618.8	596.4	580.9	541.7	458.9	387.3	341.0
17.5°	659.5	623.1	610.4	579.6	557.1	523.4	501.0	447.6	341.0	263.8	231.5
20°	610.4	571.1	548.7	509.4	480.0	439.2	411.2	342.4	227.3	188.0	183.8
22.5°	555.7	509.4	481.3	432.3	395.7	352.2	307.3	231.5	161.3	152.9	158.6
25°	498.2	440.6	404.1	343.8	294.6	244.2	202.1	154.4	131.9	130.5	138.9
27.5°	429.4	363.5	311.5	239.9	195.0	155.8	137.5	122.1	112.3	113.6	122.1
30°	353.7	268.1	213.3	150.2	130.5	113.6	110.9	105.2	101.0	103.8	109.4
32.5°	263.8	171.1	137.5	108.1	106.7	96.8	99.6	96.8	95.4	96.8	101.0
35°	178.2	113.6	108.1	92.6	95.4	88.4	92.6	91.2	89.8	89.8	92.6
37.5°	123.4	94.1	96.8	85.6	89.8	84.2	88.4	87.0	85.6	84.2	85.6
40°	102.5	85.6	89.8	81.4	85.6	79.9	84.2	82.8	81.4	78.6	78.6
42.5°	94.1	81.4	85.6	77.2	82.8	75.7	81.4	78.6	75.7	72.9	74.4
45°	91.2	78.6	82.8	74.4	79.9	72.9	77.2	75.7	70.2	68.8	70.2
47.5°	88.4	77.2	81.4	72.9	77.2	70.2	74.4	71.5	65.9	64.6	65.9
50°	87.0	74.4	78.6	70.2	74.4	68.8	71.5	68.8	63.2	61.7	61.7
52.5°	85.6	72.9	77.2	67.4	71.5	63.2	67.4	64.6	58.9	57.5	57.5
55°	85.6	71.5	74.4	64.6	68.8	60.4	63.2	60.4	57.5	54.8	54.8
57.5°	84.2	68.8	72.9	61.7	64.6	57.5	60.4	57.5	53.3	51.9	51.9
60°	84.2	67.4	71.5	60.4	63.2	54.8	57.5	54.8	50.6	49.0	49.0
62.5°	88.4	70.2	72.9	61.7	63.2	54.8	56.1	51.9	47.7	47.7	46.4
65°	96.8	78.6	78.6	64.6	64.6	54.8	56.1	50.6	44.9	44.9	44.9
67.5°	105.2	87.0	85.6	68.8	67.4	54.8	54.8	47.7	42.1	42.1	42.1
70°	110.9	91.2	88.4	70.2	67.4	53.3	51.9	44.9	39.3	39.3	39.3
71°	109.4	91.2	87.0	68.8	64.6	50.6	50.6	43.5	37.9	37.9	36.5
72.5°	103.8	85.6	81.4	64.6	61.7	47.7	47.7	40.7	35.0	35.0	33.7
75°	88.4	72.9	68.8	54.8	51.9	42.1	40.7	33.7	30.9	29.5	29.5
77.5°	68.8	57.5	53.3	43.5	42.1	33.7	32.2	28.0	25.2	25.2	23.9
80°	49.0	40.7	37.9	29.5	26.7	22.5	23.9	21.0	19.7	19.7	18.2
82.5°	29.5	21.0	21.0	16.9	18.2	14.0	15.5	15.5	14.0	11.2	11.2
85°	15.5	9.8	12.7	7.0	9.8	4.2	7.0	5.6	5.6	4.2	4.2
87.5°	2.9	0.0	1.3	0.0	1.3	0.0	0.0	0.0	0.0	0.0	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: P271522

CATALOG NUMBER: ISS-AF-800-LED-E1-SL2-7027

CANDELA DISTRIBUTION (continued):

	175°	180°
0°	837.8	837.8
2.5°	797.1	798.4
5°	742.3	745.1
7.5°	663.8	668.0
10°	569.7	572.5
12.5°	449.1	449.1
15°	314.4	317.1
17.5°	220.4	221.7
20°	185.2	186.7
22.5°	165.6	166.9
25°	147.3	148.8
27.5°	127.6	129.1
30°	115.1	116.5
32.5°	103.8	105.2
35°	94.1	94.1
37.5°	87.0	87.0
40°	79.9	79.9
42.5°	75.7	75.7
45°	71.5	71.5
47.5°	67.4	67.4
50°	63.2	64.6
52.5°	58.9	58.9
55°	54.8	54.8
57.5°	50.6	51.9
60°	47.7	47.7
62.5°	44.9	44.9
65°	43.5	43.5
67.5°	40.7	40.7
70°	37.9	37.9
71°	36.5	36.5
72.5°	33.7	33.7
75°	29.5	28.0
77.5°	23.9	23.9
80°	18.2	16.9
82.5°	11.2	9.8
85°	4.2	2.9
87.5°	0.0	0.0
90°	0.0	0.0

(END OF REPORT)