

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: P228053

Luminaire Tested: **ISS-AF-800-LED-E1-SL2-7050-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P228053
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29761)-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-SL2-7050-ULG
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE WITH UPLIGHT
LIGHT SQUARE WITH ACCULED OPTICS-TYPE II W/SPILL CONTROL, WITH UPLIGHT
GLOW
Light Source: (16) 5000K CCT, 70 CRI LEDs and (1) UPLIGHT LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6054.2 lumens
Efficiency: N/A
Efficacy: 100.6 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 - G2

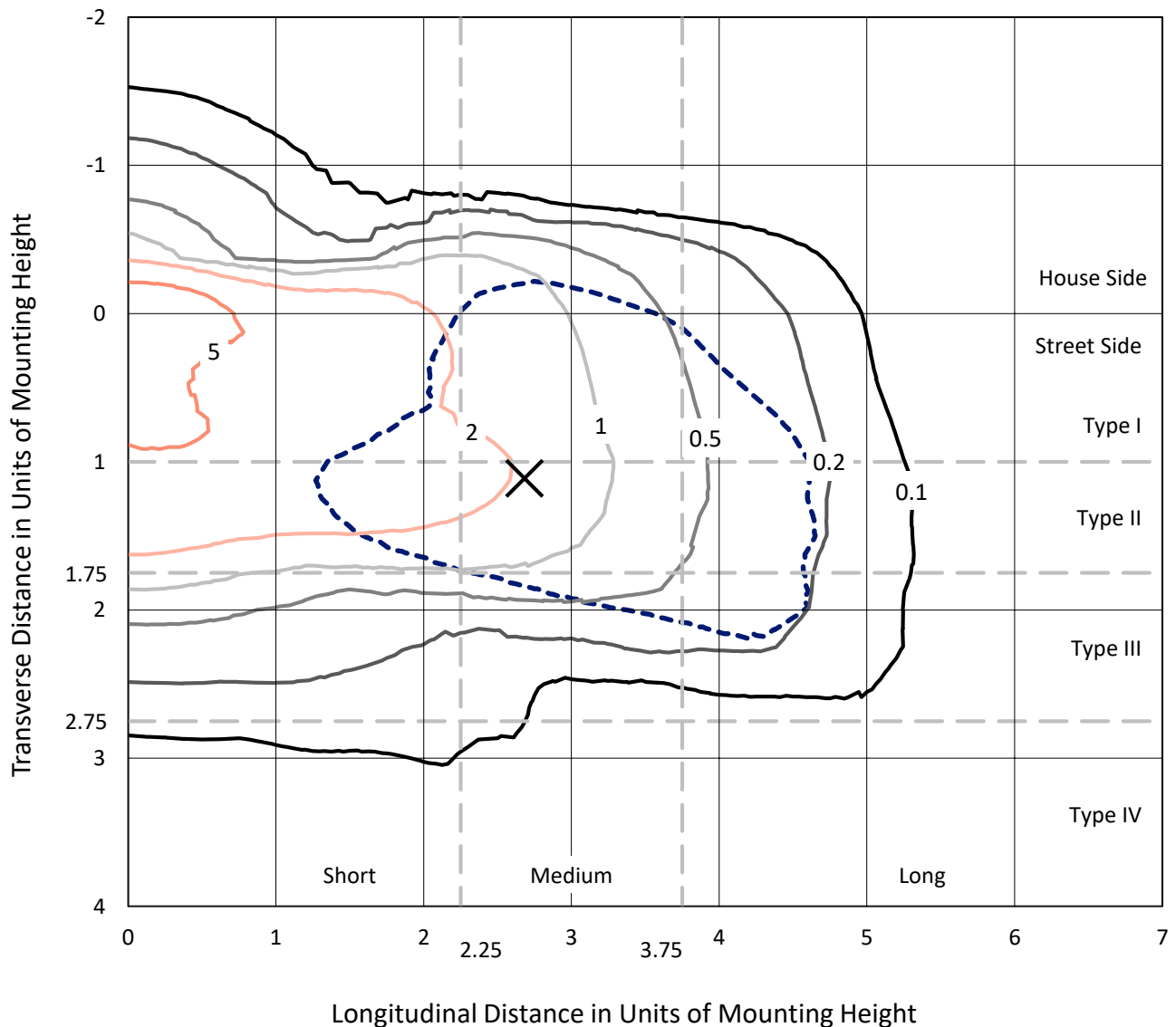
Input Watts (W): 60.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

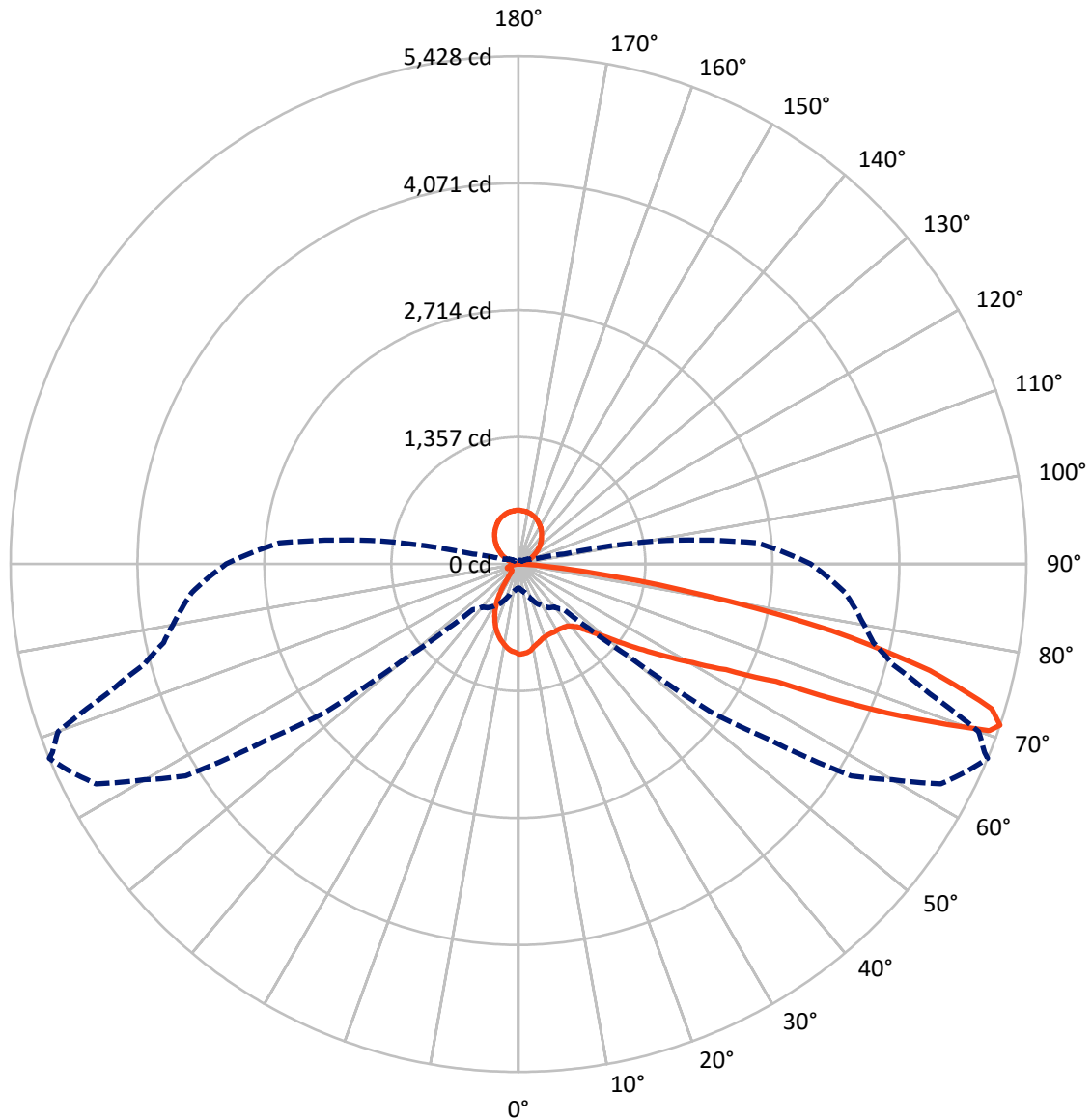


Based on 10 foot mounting height. Maximum calculated value = 9.6 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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

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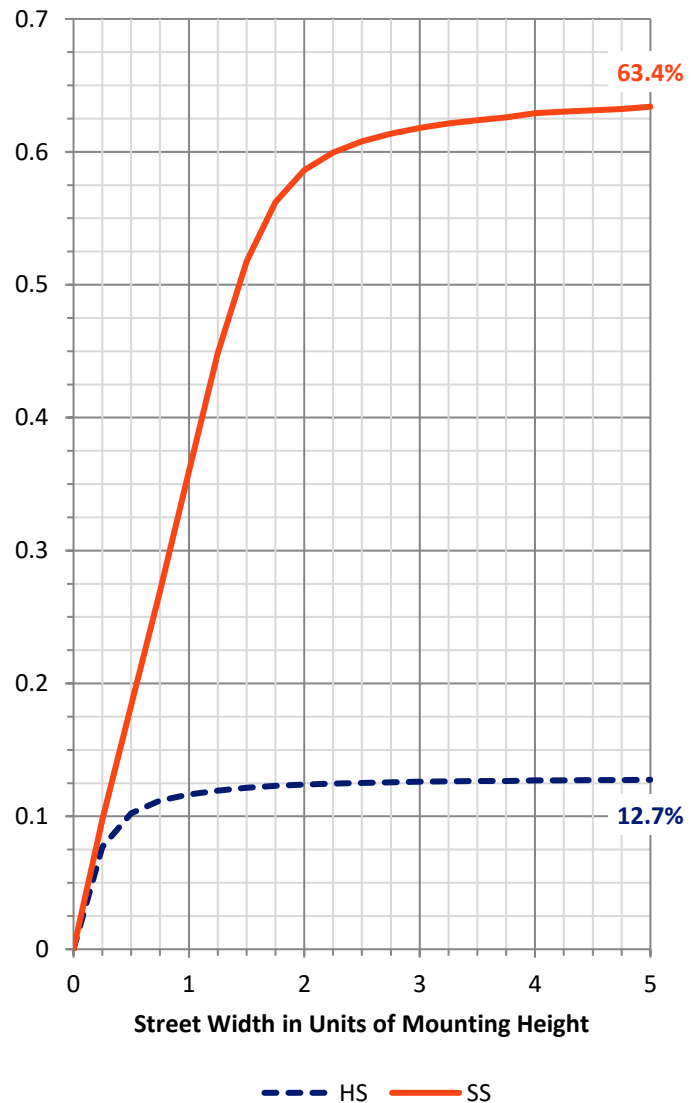
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	779.9	713.1	1493.0
	% Fixture	12.9	11.8	24.7
Street Side	Lumens	3848.1	713.1	4561.2
	% Fixture	63.6	11.8	75.3
Total	Lumens	4628.0	1426.2	6054.2
	% Fixture	76.4	23.6	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.2	1.4
10°-20°	201.3	3.3
20°-30°	273.8	4.5
30°-40°	374.2	6.2
40°-50°	563.8	9.3
50°-60°	893.6	14.8
60°-70°	1183.0	19.5
70°-80°	942.4	15.6
80°-90°	111.7	1.8
90°-100°	4.7	0.1
100°-110°	69.0	1.1
110°-120°	153.0	2.5
120°-130°	223.9	3.7
130°-140°	265.6	4.4
140°-150°	269.3	4.4
150°-160°	231.1	3.8
160°-170°	155.1	2.6
170°-180°	54.3	0.9
0°-90°	4628.0	76.4
0°-180°	6054.2	100.0



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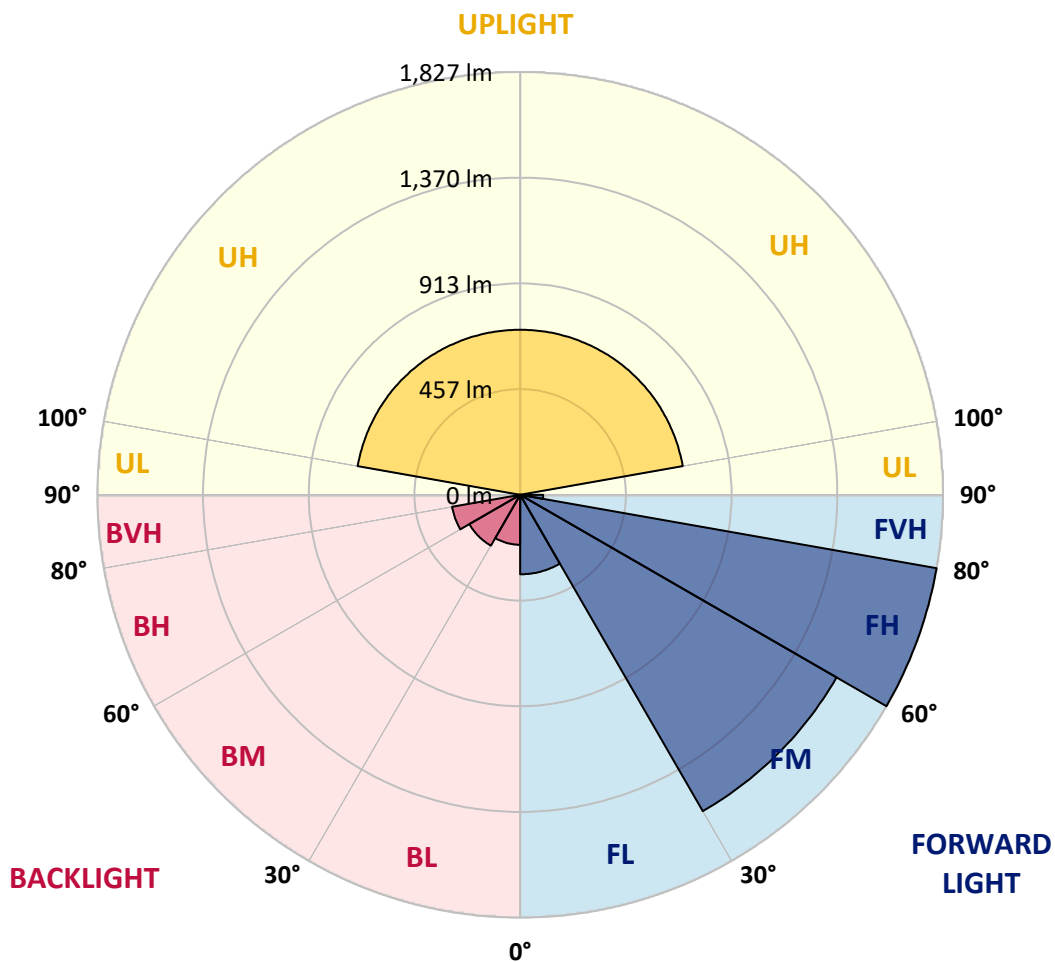
CATALOG NUMBER: ISS-AF-800-LED-E1-SL2-7050-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	343.4	5.7			
FM	(30°-60°)	1578.2	26.1			
FH	(60°-80°)	1826.9	30.2			G2/5000
FVH	(80°-90°)	99.6	1.6			G1/100
BL	(0°-30°)	215.9	3.6	B1/500		
BM	(30°-60°)	253.4	4.2	B1/1000		
BH	(60°-80°)	298.5	4.9	B1/500		G1/500
BVH	(80°-90°)	12.1	0.2			G1/100
UL	(90°-100°)	4.7	0.1		U1/10	
UH	(100°-180°)	713.1	11.8		U4/1000	

BUG Rating: B1-U5-G2

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°	964.4	964.4	964.4	964.4	964.4	964.4	964.4	964.4	964.4	964.4	964.4
2.5°	946.7	943.4	943.4	948.3	956.3	949.9	954.7	954.7	956.3	961.2	962.8
5°	877.2	870.7	877.2	883.6	901.4	898.2	903.0	907.9	917.6	919.2	932.1
7.5°	814.2	811.0	815.8	828.7	851.3	844.9	851.3	857.8	869.1	874.0	886.9
10°	765.7	760.9	767.3	777.0	799.6	798.0	801.3	809.3	822.3	825.5	841.6
12.5°	730.2	730.2	733.4	746.3	765.7	764.1	773.8	778.6	790.0	793.2	811.0
15°	712.4	707.6	714.0	725.3	744.7	744.7	751.2	756.0	772.2	773.8	790.0
17.5°	696.3	697.9	699.5	712.4	730.2	727.0	735.0	738.3	756.0	752.8	772.2
20°	696.3	699.5	697.9	705.9	718.9	712.4	722.1	723.7	743.1	738.3	759.3
22.5°	715.6	718.9	714.0	712.4	717.3	712.4	717.3	720.5	735.0	731.8	751.2
25°	749.6	756.0	749.6	738.3	733.4	720.5	723.7	728.6	739.9	731.8	749.6
27.5°	802.9	807.7	796.4	785.1	762.5	748.0	743.1	741.5	754.4	741.5	756.0
30°	864.3	870.7	861.0	840.0	807.7	783.5	773.8	769.0	777.0	757.6	772.2
32.5°	930.5	937.0	930.5	914.3	870.7	835.2	822.3	811.0	817.4	791.6	798.0
35°	998.3	1004.8	1011.3	1001.6	945.0	904.6	883.6	874.0	872.3	840.0	841.6
37.5°	1058.1	1064.6	1085.6	1095.3	1043.6	988.7	969.3	948.3	949.9	904.6	904.6
40°	1130.8	1138.9	1166.4	1189.0	1155.0	1088.8	1066.2	1043.6	1043.6	983.8	985.4
42.5°	1229.4	1239.0	1256.8	1287.5	1276.2	1208.4	1184.1	1153.4	1156.7	1085.6	1084.0
45°	1368.3	1374.7	1374.7	1394.1	1395.7	1331.1	1315.0	1284.3	1290.7	1200.3	1205.1
47.5°	1549.2	1541.1	1508.8	1520.1	1533.1	1465.2	1450.7	1431.3	1439.4	1342.4	1352.1
50°	1717.2	1710.8	1644.5	1647.8	1694.6	1625.1	1620.3	1596.1	1607.4	1510.4	1525.0
52.5°	1780.2	1768.9	1702.7	1738.2	1869.1	1830.3	1838.4	1827.1	1833.5	1730.1	1726.9
55°	1709.1	1709.1	1668.8	1733.4	1999.9	2020.9	2087.2	2113.0	2140.5	2037.1	2014.5
57.5°	1512.1	1525.0	1531.4	1646.1	1978.9	2069.4	2195.4	2305.2	2445.8	2439.3	2473.2
60°	1185.7	1208.4	1245.5	1432.9	1888.5	2037.1	2200.2	2365.0	2558.9	2683.3	2867.4
62.5°	832.0	851.3	882.0	1011.3	1625.1	1880.4	2116.2	2369.9	2617.0	2812.5	3054.8
65°	565.4	584.8	649.4	720.5	980.6	1352.1	1712.4	2132.4	2508.8	2872.3	3198.6
67.5°	407.1	418.4	468.5	588.0	652.6	720.5	854.6	1348.9	1812.5	2544.3	3020.9
70°	305.3	316.6	361.9	494.3	573.5	591.3	623.6	710.8	828.7	1429.7	2054.8
71°	255.2	271.4	326.3	465.2	570.3	584.8	599.3	651.0	689.8	1011.3	1525.0
72.5°	179.3	190.6	242.3	429.7	547.6	581.6	615.5	613.9	610.6	689.8	922.4
75°	114.7	114.7	114.7	242.3	584.8	563.8	576.7	646.2	610.6	579.9	607.4
77.5°	90.5	88.8	84.0	121.2	457.2	571.9	605.8	623.6	657.5	605.8	578.3
80°	67.8	66.2	66.2	75.9	211.6	369.9	512.1	568.6	592.9	644.6	588.0
82.5°	35.5	35.5	38.8	45.2	79.2	129.2	264.9	436.2	487.9	491.1	495.9
85°	11.3	9.7	12.9	21.0	33.9	42.0	74.3	176.1	261.7	316.6	334.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	6.5	11.3	14.5
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	5.2	6.5	7.8	9.0	10.0	11.0
100°	8.0	8.0	10.0	14.0	22.0	24.0	26.0	28.0	30.0	30.5	31.0
102.5°	28.0	28.0	32.0	38.0	45.0	46.2	47.5	48.8	50.0	50.2	50.5
105°	54.0	54.0	56.0	61.0	66.0	67.0	68.0	69.0	70.0	70.2	70.5
107.5°	78.0	77.0	80.0	84.0	88.0	88.8	89.5	90.2	91.0	91.5	92.0



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CATALOG NUMBER: ISS-AF-800-LED-E1-SL2-7050-ULG

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47.5°	50°
110°	101.0	102.0	103.0	106.0	110.0	110.5	111.0	111.5	112.0	112.5	113.0
112.5°	124.0	124.0	126.0	129.0	132.0	132.5	133.0	133.5	134.0	134.5	135.0
115°	146.0	147.0	149.0	151.0	154.0	154.5	155.0	155.5	156.0	156.5	157.0
117.5°	169.0	170.0	172.0	174.0	177.0	177.5	178.0	178.5	179.0	179.2	179.5
120°	193.0	195.0	196.0	198.0	201.0	201.2	201.5	201.8	202.0	202.5	203.0
122.5°	219.0	220.0	221.0	223.0	226.0	226.2	226.5	226.8	227.0	227.2	227.5
125°	244.0	246.0	247.0	248.0	251.0	251.2	251.5	251.8	252.0	252.2	252.5
127.5°	267.0	269.0	270.0	272.0	274.0	274.5	275.0	275.5	276.0	276.5	277.0
130°	290.0	292.0	293.0	294.0	298.0	298.2	298.5	298.8	299.0	299.5	300.0
132.5°	313.0	314.0	317.0	318.0	321.0	321.2	321.5	321.8	322.0	322.8	323.5
135°	336.0	337.0	339.0	341.0	345.0	345.0	345.0	345.0	345.0	345.8	346.5
137.5°	359.0	360.0	363.0	364.0	367.0	367.0	367.0	367.0	367.0	367.5	368.0
140°	382.0	383.0	385.0	386.0	388.0	388.2	388.5	388.8	389.0	389.2	389.5
142.5°	404.0	406.0	408.0	407.0	410.0	410.0	410.0	410.0	410.0	410.5	411.0
145°	425.0	426.0	428.0	428.0	431.0	431.2	431.5	431.8	432.0	432.5	433.0
147.5°	444.0	444.0	447.0	448.0	452.0	452.2	452.5	452.8	453.0	453.2	453.5
150°	461.0	462.0	464.0	465.0	469.0	469.2	469.5	469.8	470.0	470.2	470.5
152.5°	479.0	480.0	483.0	482.0	485.0	485.2	485.5	485.8	486.0	486.2	486.5
155°	499.0	500.0	502.0	501.0	503.0	503.0	503.0	503.0	503.0	503.2	503.5
157.5°	513.0	515.0	517.0	516.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0
160°	525.0	527.0	529.0	529.0	532.0	532.0	532.0	532.0	532.0	532.0	532.0
162.5°	535.0	536.0	539.0	538.0	541.0	541.0	541.0	541.0	541.0	541.2	541.5
165°	546.0	547.0	549.0	548.0	552.0	552.0	552.0	552.0	552.0	552.2	552.5
167.5°	555.0	556.0	559.0	558.0	561.0	560.8	560.5	560.2	560.0	560.0	560.0
170°	562.0	563.0	566.0	565.0	567.0	566.8	566.5	566.2	566.0	565.8	565.5
172.5°	565.0	566.0	569.0	567.0	569.0	568.8	568.5	568.2	568.0	568.2	568.5
175°	567.0	569.0	570.0	569.0	572.0	572.0	572.0	572.0	572.0	572.2	572.5
177.5°	572.0	573.0	575.0	574.0	578.0	577.8	577.5	577.2	577.0	577.0	577.0
180°	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0



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CANDELA DISTRIBUTION (continued):

	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	68°	70°	72.5°	75°
0°	964.4	964.4	964.4	964.4	964.4	964.4	964.4	964.4	964.4	964.4	964.4
2.5°	958.0	964.4	959.6	966.0	958.0	967.7	959.6	964.4	966.0	959.6	967.7
5°	924.0	943.4	937.0	951.5	945.0	958.0	951.5	964.4	964.4	959.6	970.9
7.5°	882.0	901.4	903.0	917.6	917.6	933.7	933.7	946.7	953.1	953.1	969.3
10°	840.0	857.8	861.0	877.2	880.4	899.8	899.8	917.6	930.5	935.3	954.7
12.5°	807.7	830.3	830.3	848.1	844.9	874.0	877.2	893.3	906.3	917.6	943.4
15°	788.3	809.3	809.3	827.1	823.9	853.0	857.8	874.0	893.3	899.8	935.3
17.5°	769.0	790.0	785.1	809.3	807.7	840.0	836.8	861.0	877.2	886.9	927.3
20°	752.8	777.0	773.8	798.0	791.6	827.1	827.1	851.3	867.5	875.6	922.4
22.5°	744.7	770.6	764.1	788.3	783.5	819.0	819.0	843.3	861.0	874.0	920.8
25°	744.7	767.3	760.9	788.3	780.3	819.0	817.4	841.6	859.4	870.7	922.4
27.5°	748.0	770.6	765.7	791.6	785.1	819.0	822.3	843.3	861.0	874.0	925.7
30°	759.3	780.3	769.0	793.2	788.3	820.6	819.0	841.6	859.4	875.6	925.7
32.5°	783.5	794.8	780.3	801.3	791.6	823.9	823.9	840.0	861.0	880.4	925.7
35°	817.4	825.5	802.9	817.4	799.6	832.0	830.3	848.1	864.3	880.4	928.9
37.5°	865.9	875.6	840.0	853.0	823.9	849.7	843.3	864.3	880.4	890.1	945.0
40°	938.6	941.8	895.0	904.6	864.3	886.9	870.7	899.8	907.9	914.3	969.3
42.5°	1027.4	1030.7	970.9	977.3	925.7	945.0	917.6	948.3	959.6	958.0	1017.7
45°	1137.3	1138.9	1071.0	1075.9	1016.1	1032.3	998.3	1024.2	1032.3	1027.4	1088.8
47.5°	1256.8	1269.7	1193.8	1200.3	1137.3	1145.4	1103.3	1132.4	1132.4	1127.6	1190.6
50°	1415.1	1434.5	1345.7	1355.4	1282.7	1289.1	1240.7	1271.4	1268.1	1255.2	1326.3
52.5°	1612.2	1630.0	1536.3	1549.2	1471.7	1474.9	1415.1	1450.7	1441.0	1420.0	1502.4
55°	1852.9	1854.5	1767.3	1778.6	1701.1	1696.2	1621.9	1665.5	1651.0	1621.9	1697.8
57.5°	2239.0	2192.2	2048.4	2045.2	1961.2	1954.7	1859.4	1912.7	1888.5	1827.1	1927.2
60°	2861.0	2875.5	2508.8	2452.2	2295.5	2266.5	2140.5	2201.9	2172.8	2072.6	2171.2
62.5°	3211.5	3442.5	3419.9	3216.4	2812.5	2702.6	2489.4	2562.1	2486.2	2339.2	2431.2
65°	3471.6	3785.0	3965.9	4161.4	3980.5	3531.4	3027.3	3129.1	2943.3	2663.9	2752.7
67.5°	3568.5	3946.5	4327.8	4605.6	4794.6	4828.6	4245.4	4272.9	3815.7	3256.7	3268.0
70°	3061.3	3618.6	4364.9	4717.1	5091.9	5276.0	5337.4	5308.4	5012.7	4221.2	3919.1
71°	2594.4	3269.7	4216.3	4608.9	5088.7	5266.4	5427.9	5373.0	5235.7	4604.0	4140.4
72.5°	1757.6	2605.7	3781.8	4279.3	4919.0	5048.3	5290.6	5193.7	5164.6	4890.0	4347.2
75°	827.1	1298.8	2460.3	3213.1	4163.0	4287.4	4541.0	4421.5	4345.6	4439.2	4135.5
77.5°	609.0	709.2	1350.5	1996.7	3027.3	3203.4	3421.5	3274.5	3177.6	3271.3	3059.7
80°	554.1	557.3	699.5	1053.3	1806.1	1911.1	1993.5	1873.9	1726.9	1720.5	1525.0
82.5°	510.5	483.0	453.9	557.3	925.7	880.4	814.2	754.4	586.4	470.1	339.2
85°	324.7	355.4	323.1	305.3	368.3	303.7	240.7	231.0	163.2	109.9	101.8
87.5°	22.6	25.8	30.7	35.5	43.6	35.5	22.6	27.5	16.2	0.0	8.1
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°	12.0	13.0	11.5	10.0	8.5	7.0	6.5	6.4	6.0	5.5	5.0
100°	31.5	32.0	31.5	31.0	30.5	30.0	29.2	29.1	28.5	27.8	27.0
102.5°	50.8	51.0	50.8	50.5	50.2	50.0	49.5	49.4	49.0	48.5	48.0
105°	70.8	71.0	71.0	71.0	71.0	71.0	70.5	70.4	70.0	69.5	69.0
107.5°	92.5	93.0	92.8	92.5	92.2	92.0	91.8	91.7	91.5	91.2	91.0



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CANDELA DISTRIBUTION (continued):

	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	68°	70°	72.5°	75°
110°	113.5	114.0	114.0	114.0	114.0	114.0	113.8	113.7	113.5	113.2	113.0
112.5°	135.5	136.0	136.0	136.0	136.0	136.0	135.8	135.7	135.5	135.2	135.0
115°	157.5	158.0	158.0	158.0	158.0	158.0	158.0	158.0	158.0	158.0	158.0
117.5°	179.8	180.0	180.2	180.5	180.8	181.0	180.8	180.7	180.5	180.2	180.0
120°	203.5	204.0	204.0	204.0	204.0	204.0	204.0	204.0	204.0	204.0	204.0
122.5°	227.8	228.0	228.0	228.0	228.0	228.0	228.2	228.3	228.5	228.8	229.0
125°	252.8	253.0	253.2	253.5	253.8	254.0	254.0	254.0	254.0	254.0	254.0
127.5°	277.5	278.0	277.8	277.5	277.2	277.0	277.2	277.3	277.5	277.8	278.0
130°	300.5	301.0	301.0	301.0	301.0	301.0	301.2	301.3	301.5	301.8	302.0
132.5°	324.2	325.0	325.0	325.0	325.0	325.0	325.2	325.3	325.5	325.8	326.0
135°	347.2	348.0	348.0	348.0	348.0	348.0	348.2	348.3	348.5	348.8	349.0
137.5°	368.5	369.0	369.0	369.0	369.0	369.0	369.2	369.3	369.5	369.8	370.0
140°	389.8	390.0	390.0	390.0	390.0	390.0	390.5	390.6	391.0	391.5	392.0
142.5°	411.5	412.0	412.0	412.0	412.0	412.0	412.2	412.3	412.5	412.8	413.0
145°	433.5	434.0	433.8	433.5	433.2	433.0	433.2	433.3	433.5	433.8	434.0
147.5°	453.8	454.0	453.5	453.0	452.5	452.0	452.2	452.3	452.5	452.8	453.0
150°	470.8	471.0	470.5	470.0	469.5	469.0	469.0	469.0	469.0	469.0	469.0
152.5°	486.8	487.0	486.8	486.5	486.2	486.0	486.0	486.0	486.0	486.0	486.0
155°	503.8	504.0	503.8	503.5	503.2	503.0	503.2	503.3	503.5	503.8	504.0
157.5°	519.0	519.0	518.5	518.0	517.5	517.0	517.2	517.3	517.5	517.8	518.0
160°	532.0	532.0	531.5	531.0	530.5	530.0	530.0	530.0	530.0	530.0	530.0
162.5°	541.8	542.0	541.5	541.0	540.5	540.0	539.5	539.4	539.0	538.5	538.0
165°	552.8	553.0	552.2	551.5	550.8	550.0	549.5	549.4	549.0	548.5	548.0
167.5°	560.0	560.0	559.5	559.0	558.5	558.0	558.2	558.3	558.5	558.8	559.0
170°	565.2	565.0	564.8	564.5	564.2	564.0	564.5	564.6	565.0	565.5	566.0
172.5°	568.8	569.0	568.5	568.0	567.5	567.0	567.2	567.3	567.5	567.8	568.0
175°	572.8	573.0	572.2	571.5	570.8	570.0	569.5	569.4	569.0	568.5	568.0
177.5°	577.0	577.0	576.2	575.5	574.8	574.0	574.0	574.0	574.0	574.0	574.0
180°	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0



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CANDELA DISTRIBUTION (continued):

	77.5°	80°	85°	90°	95°	100°	102.5°	105°	107.5°	110°	112.5°
0°	964.4	964.4	964.4	964.4	964.4	964.4	964.4	964.4	964.4	964.4	964.4
2.5°	956.3	964.4	967.7	966.0	962.8	959.6	948.3	956.3	945.0	953.1	943.4
5°	961.2	972.5	974.1	970.9	967.7	961.2	941.8	953.1	940.2	946.7	932.1
7.5°	959.6	977.3	979.0	975.7	969.3	958.0	938.6	946.7	925.7	930.5	911.1
10°	951.5	977.3	979.0	970.9	961.2	943.4	920.8	924.0	903.0	903.0	877.2
12.5°	943.4	974.1	982.2	970.9	954.7	930.5	904.6	901.4	877.2	875.6	846.5
15°	943.4	977.3	988.7	974.1	949.9	916.0	885.3	878.8	851.3	843.3	811.0
17.5°	941.8	977.3	993.5	974.1	945.0	901.4	862.6	856.2	820.6	807.7	770.6
20°	940.2	980.6	996.7	970.9	930.5	883.6	840.0	827.1	788.3	767.3	723.7
22.5°	938.6	987.0	1000.0	967.7	920.8	861.0	815.8	793.2	748.0	720.5	668.8
25°	946.7	995.1	1001.6	964.4	906.3	836.8	788.3	757.6	707.6	672.0	610.6
27.5°	949.9	1003.2	1004.8	958.0	888.5	811.0	759.3	717.3	660.7	617.1	547.6
30°	959.6	1004.8	1000.0	945.0	867.5	778.6	725.3	673.6	610.6	554.1	471.7
32.5°	962.8	1009.7	996.7	930.5	846.5	746.3	686.6	626.8	550.9	484.6	384.5
35°	969.3	1012.9	993.5	922.4	823.9	712.4	646.2	578.3	491.1	407.1	292.4
37.5°	979.0	1027.4	1001.6	919.2	812.6	683.3	600.9	528.3	420.0	321.5	193.9
40°	1003.2	1056.5	1016.1	924.0	804.5	659.1	557.3	476.6	339.2	237.5	134.1
42.5°	1051.7	1106.6	1053.3	948.3	809.3	638.1	512.1	421.6	256.9	169.6	111.5
45°	1124.4	1171.2	1114.7	988.7	828.7	626.8	470.1	365.1	184.2	135.7	101.8
47.5°	1231.0	1276.2	1205.1	1053.3	862.6	621.9	426.5	305.3	142.2	122.8	98.5
50°	1371.5	1424.8	1336.0	1155.0	925.7	626.8	379.6	248.8	124.4	119.5	96.9
52.5°	1544.4	1596.1	1507.2	1305.3	1029.0	654.3	329.6	216.5	117.9	117.9	95.3
55°	1739.8	1812.5	1725.3	1513.7	1189.0	714.0	298.9	205.2	117.9	119.5	93.7
57.5°	1970.8	2032.2	1954.7	1714.0	1381.2	812.6	302.1	216.5	117.9	119.5	92.1
60°	2197.0	2272.9	2184.1	1969.2	1600.9	961.2	368.3	274.6	122.8	124.4	92.1
62.5°	2432.9	2491.0	2418.3	2192.2	1849.7	1145.4	500.8	397.4	142.2	147.0	98.5
65°	2691.3	2786.6	2710.7	2524.9	2201.9	1439.4	752.8	596.1	210.0	171.2	108.2
67.5°	3138.8	3177.6	3140.4	2970.8	2613.8	1681.7	896.6	605.8	210.0	166.4	121.2
70°	3744.6	3657.4	3491.0	3174.4	2657.4	1508.8	642.9	369.9	179.3	158.3	127.6
71°	3885.1	3751.1	3505.5	3124.3	2566.9	1361.8	499.2	292.4	168.0	155.1	127.6
72.5°	3970.8	3770.5	3398.9	2977.3	2389.2	1072.7	329.6	229.4	153.5	147.0	122.8
75°	3859.3	3489.4	3001.5	2576.6	1956.3	557.3	206.8	174.5	130.9	127.6	106.6
77.5°	3064.5	2739.8	2214.8	1872.3	1258.4	247.2	148.6	132.5	103.4	100.2	82.4
80°	1429.7	1147.0	672.0	576.7	395.8	145.4	101.8	90.5	74.3	71.1	58.2
82.5°	260.1	195.5	151.9	147.0	132.5	85.6	59.8	54.9	46.8	45.2	37.2
85°	88.8	85.6	64.6	64.6	66.2	45.2	33.9	32.3	24.2	24.2	16.2
87.5°	1.6	8.1	8.1	11.3	9.7	8.1	3.2	4.8	1.6	4.8	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
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°	4.8	4.5	4.0	4.0	4.0	4.5	4.8	5.0	5.5	6.0	6.5
100°	26.8	26.5	26.0	25.0	26.0	26.5	26.8	27.0	27.8	28.5	29.2
102.5°	48.2	48.5	49.0	48.0	49.0	48.5	48.2	48.0	48.5	49.0	49.5
105°	69.5	70.0	71.0	69.0	71.0	70.0	69.5	69.0	69.5	70.0	70.5
107.5°	91.2	91.5	92.0	91.0	92.0	91.5	91.2	91.0	91.2	91.5	91.8



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REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	77.5°	80°	85°	90°	95°	100°	102.5°	105°	107.5°	110°	112.5°	
110°	113.2	113.5	114.0	113.0	114.0	113.5	113.2	113.0	113.2	113.5	113.8	0°
112.5°	135.5	136.0	137.0	135.0	137.0	136.0	135.5	135.0	135.2	135.5	135.8	2.5°
115°	158.5	159.0	160.0	159.0	160.0	159.0	158.5	158.0	158.0	158.0	158.0	5°
117.5°	180.5	181.0	182.0	180.0	182.0	181.0	180.5	180.0	180.2	180.5	180.8	7.5°
120°	204.5	205.0	206.0	204.0	206.0	205.0	204.5	204.0	204.0	204.0	204.0	10°
122.5°	230.0	231.0	233.0	232.0	233.0	231.0	230.0	229.0	228.8	228.5	228.2	12.5°
125°	254.8	255.5	257.0	256.0	257.0	255.5	254.8	254.0	254.0	254.0	254.0	15°
127.5°	278.8	279.5	281.0	278.0	281.0	279.5	278.8	278.0	277.8	277.5	277.2	17.5°
130°	302.8	303.5	305.0	303.0	305.0	303.5	302.8	302.0	301.8	301.5	301.2	20°
132.5°	326.8	327.5	329.0	327.0	329.0	327.5	326.8	326.0	325.8	325.5	325.2	22.5°
135°	349.5	350.0	351.0	350.0	351.0	350.0	349.5	349.0	348.8	348.5	348.2	25°
137.5°	371.0	372.0	374.0	372.0	374.0	372.0	371.0	370.0	369.8	369.5	369.2	27.5°
140°	393.0	394.0	396.0	394.0	396.0	394.0	393.0	392.0	391.5	391.0	390.5	30°
142.5°	413.8	414.5	416.0	415.0	416.0	414.5	413.8	413.0	412.8	412.5	412.2	32.5°
145°	434.8	435.5	437.0	435.0	437.0	435.5	434.8	434.0	433.8	433.5	433.2	35°
147.5°	453.8	454.5	456.0	453.0	456.0	454.5	453.8	453.0	452.8	452.5	452.2	37.5°
150°	470.0	471.0	473.0	470.0	473.0	471.0	470.0	469.0	469.0	469.0	469.0	40°
152.5°	486.8	487.5	489.0	486.0	489.0	487.5	486.8	486.0	486.0	486.0	486.0	42.5°
155°	504.8	505.5	507.0	505.0	507.0	505.5	504.8	504.0	503.8	503.5	503.2	45°
157.5°	519.2	520.5	523.0	520.0	523.0	520.5	519.2	518.0	517.8	517.5	517.2	47.5°
160°	530.8	531.5	533.0	531.0	533.0	531.5	530.8	530.0	530.0	530.0	530.0	50°
162.5°	538.5	539.0	540.0	537.0	540.0	539.0	538.5	538.0	538.5	539.0	539.5	52.5°
165°	548.5	549.0	550.0	548.0	550.0	549.0	548.5	548.0	548.5	549.0	549.5	55°
167.5°	560.0	561.0	563.0	561.0	563.0	561.0	560.0	559.0	558.8	558.5	558.2	57.5°
170°	567.2	568.5	571.0	569.0	571.0	568.5	567.2	566.0	565.5	565.0	564.5	60°
172.5°	568.8	569.5	571.0	568.0	571.0	569.5	568.8	568.0	567.8	567.5	567.2	62.5°
175°	568.8	569.5	571.0	568.0	571.0	569.5	568.8	568.0	568.5	569.0	569.5	65°
177.5°	574.8	575.5	577.0	574.0	577.0	575.5	574.8	574.0	574.0	574.0	574.0	67.5°
180°	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	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°



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REPORT NUMBER: P
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DISTRIBUTION (continued):

CANDELA DISTRIBUTION

115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°	155°	165°	110°	115°
964.4	964.4	964.4	964.4	964.4	964.4	964.4	964.4	964.4	964.4	964.4	110°	114.0
951.5	938.6	949.9	938.6	945.0	932.1	940.2	935.3	935.3	930.5	927.3	112.5°	136.0
937.0	920.8	928.9	916.0	922.4	903.0	907.9	899.8	883.6	874.0	861.0	115°	158.0
916.0	891.7	898.2	878.8	883.6	857.8	862.6	848.1	817.4	798.0	778.6	117.5°	181.0
878.8	856.2	857.8	833.6	832.0	806.1	801.3	781.9	736.6	704.3	678.5	120°	204.0
841.6	815.8	812.6	783.5	778.6	748.0	741.5	710.8	644.6	581.6	541.2	122.5°	228.0
802.9	770.6	760.9	730.2	712.4	686.6	668.8	623.6	528.3	445.9	392.6	125°	254.0
759.3	717.3	702.7	667.2	641.3	602.6	576.7	515.3	392.6	303.7	266.5	127.5°	277.0
702.7	657.5	631.6	586.4	552.5	505.6	473.3	394.2	261.7	216.5	211.6	130°	301.0
639.7	586.4	554.1	497.6	455.6	405.5	353.8	266.5	185.8	176.1	182.5	132.5°	325.0
573.5	507.3	465.2	395.8	339.2	281.1	232.6	177.7	151.9	150.2	159.9	135°	348.0
494.3	418.4	358.6	276.2	224.5	179.3	158.3	140.5	129.2	130.9	140.5	137.5°	369.0
407.1	308.6	245.5	172.9	150.2	130.9	127.6	121.2	116.3	119.5	126.0	140°	390.0
303.7	197.1	158.3	124.4	122.8	111.5	114.7	111.5	109.9	111.5	116.3	142.5°	412.0
205.2	130.9	124.4	106.6	109.9	101.8	106.6	105.0	103.4	103.4	106.6	145°	433.0
142.2	108.2	111.5	98.5	103.4	96.9	101.8	100.2	98.5	96.9	98.5	147.5°	452.0
117.9	98.5	103.4	93.7	98.5	92.1	96.9	95.3	93.7	90.5	90.5	150°	469.0
108.2	93.7	98.5	88.8	95.3	87.2	93.7	90.5	87.2	84.0	85.6	152.5°	486.0
105.0	90.5	95.3	85.6	92.1	84.0	88.8	87.2	80.8	79.2	80.8	155°	503.0
101.8	88.8	93.7	84.0	88.8	80.8	85.6	82.4	75.9	74.3	75.9	157.5°	517.0
100.2	85.6	90.5	80.8	85.6	79.2	82.4	79.2	72.7	71.1	71.1	160°	530.0
98.5	84.0	88.8	77.5	82.4	72.7	77.5	74.3	67.8	66.2	66.2	162.5°	540.0
98.5	82.4	85.6	74.3	79.2	69.5	72.7	69.5	66.2	63.0	63.0	165°	550.0
96.9	79.2	84.0	71.1	74.3	66.2	69.5	66.2	61.4	59.8	59.8	167.5°	558.0
96.9	77.5	82.4	69.5	72.7	63.0	66.2	63.0	58.2	56.5	56.5	170°	564.0
101.8	80.8	84.0	71.1	72.7	63.0	64.6	59.8	54.9	54.9	53.3	172.5°	567.0
111.5	90.5	90.5	74.3	74.3	63.0	64.6	58.2	51.7	51.7	51.7	175°	570.0
121.2	100.2	98.5	79.2	77.5	63.0	63.0	54.9	48.5	48.5	48.5	177.5°	574.0
127.6	105.0	101.8	80.8	77.5	61.4	59.8	51.7	45.2	45.2	45.2	180°	576.0
126.0	105.0	100.2	79.2	74.3	58.2	58.2	50.1	43.6	43.6	42.0		
119.5	98.5	93.7	74.3	71.1	54.9	54.9	46.8	40.4	40.4	38.8		
101.8	84.0	79.2	63.0	59.8	48.5	46.8	38.8	35.5	33.9	33.9		
79.2	66.2	61.4	50.1	48.5	38.8	37.2	32.3	29.1	29.1	27.5		
56.5	46.8	43.6	33.9	30.7	25.8	27.5	24.2	22.6	22.6	21.0		
33.9	24.2	24.2	19.4	21.0	16.2	17.8	17.8	16.2	12.9	12.9		
17.8	11.3	14.5	8.1	11.3	4.8	8.1	6.5	6.5	4.8	4.8		
3.2	0.0	1.6	0.0	1.6	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	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		
7.0	8.5	10.0	11.5	13.0	12.0	11.0	9.0	4.0	3.0	2.0		
30.0	30.5	31.0	31.5	32.0	31.5	31.0	30.0	22.0	14.0	10.0		
50.0	50.2	50.5	50.8	51.0	50.8	50.5	50.0	45.0	38.0	32.0		
71.0	71.0	71.0	71.0	71.0	70.8	70.5	70.0	66.0	61.0	56.0		
92.0	92.2	92.5	92.8	93.0	92.5	92.0	91.0	88.0	84.0	80.0		

'228053
 ISS-AF-800-LED-E1-SL2-7050-ULG

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TION (continued):

CANDELA DISTRIBUTION (con

117.5°	120°	122.5°	125°	127.5°	130°	135°	145°	155°	165°		175°	180°
114.0	114.0	114.0	114.0	113.5	113.0	112.0	110.0	106.0	103.0	0°	964.4	964.4
136.0	136.0	136.0	136.0	135.5	135.0	134.0	132.0	129.0	126.0	2.5°	917.6	919.2
158.0	158.0	158.0	158.0	157.5	157.0	156.0	154.0	151.0	149.0	5°	854.6	857.8
180.8	180.5	180.2	180.0	179.8	179.5	179.0	177.0	174.0	172.0	7.5°	764.1	769.0
204.0	204.0	204.0	204.0	203.5	203.0	202.0	201.0	198.0	196.0	10°	655.9	659.1
228.0	228.0	228.0	228.0	227.8	227.5	227.0	226.0	223.0	221.0	12.5°	516.9	516.9
253.8	253.5	253.2	253.0	252.8	252.5	252.0	251.0	248.0	247.0	15°	361.9	365.1
277.2	277.5	277.8	278.0	277.5	277.0	276.0	274.0	272.0	270.0	17.5°	253.6	255.2
301.0	301.0	301.0	301.0	300.5	300.0	299.0	298.0	294.0	293.0	20°	213.2	214.9
325.0	325.0	325.0	325.0	324.2	323.5	322.0	321.0	318.0	317.0	22.5°	190.6	192.2
348.0	348.0	348.0	348.0	347.2	346.5	345.0	345.0	341.0	339.0	25°	169.6	171.2
369.0	369.0	369.0	369.0	368.5	368.0	367.0	367.0	364.0	363.0	27.5°	147.0	148.6
390.0	390.0	390.0	390.0	389.8	389.5	389.0	388.0	386.0	385.0	30°	132.5	134.1
412.0	412.0	412.0	412.0	411.5	411.0	410.0	410.0	407.0	408.0	32.5°	119.5	121.2
433.2	433.5	433.8	434.0	433.5	433.0	432.0	431.0	428.0	428.0	35°	108.2	108.2
452.5	453.0	453.5	454.0	453.8	453.5	453.0	452.0	448.0	447.0	37.5°	100.2	100.2
469.5	470.0	470.5	471.0	470.8	470.5	470.0	469.0	465.0	464.0	40°	92.1	92.1
486.2	486.5	486.8	487.0	486.8	486.5	486.0	485.0	482.0	483.0	42.5°	87.2	87.2
503.2	503.5	503.8	504.0	503.8	503.5	503.0	503.0	501.0	502.0	45°	82.4	82.4
517.5	518.0	518.5	519.0	519.0	519.0	519.0	519.0	516.0	517.0	47.5°	77.5	77.5
530.5	531.0	531.5	532.0	532.0	532.0	532.0	532.0	529.0	529.0	50°	72.7	74.3
540.5	541.0	541.5	542.0	541.8	541.5	541.0	541.0	538.0	539.0	52.5°	67.8	67.8
550.8	551.5	552.2	553.0	552.8	552.5	552.0	552.0	548.0	549.0	55°	63.0	63.0
558.5	559.0	559.5	560.0	560.0	560.0	560.0	561.0	558.0	559.0	57.5°	58.2	59.8
564.2	564.5	564.8	565.0	565.2	565.5	566.0	567.0	565.0	566.0	60°	54.9	54.9
567.5	568.0	568.5	569.0	568.8	568.5	568.0	569.0	567.0	569.0	62.5°	51.7	51.7
570.8	571.5	572.2	573.0	572.8	572.5	572.0	572.0	569.0	570.0	65°	50.1	50.1
574.8	575.5	576.2	577.0	577.0	577.0	577.0	578.0	574.0	575.0	67.5°	46.8	46.8
576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	70°	43.6	43.6
										71°	42.0	42.0
										72.5°	38.8	38.8
										75°	33.9	32.3
										77.5°	27.5	27.5
										80°	21.0	19.4
										82.5°	12.9	11.3
										85°	4.8	3.2
										87.5°	0.0	0.0
										90°	0.0	0.0
										92.5°	0.0	0.0
										95°	1.0	1.0
										97.5°	2.0	2.0
										100°	8.0	8.0
										102.5°	28.0	28.0
										105°	54.0	54.0
										107.5°	77.0	78.0



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CANDELA DISTRIBUTION (continued):

	175°	180°
110°	102.0	101.0
112.5°	124.0	124.0
115°	147.0	146.0
117.5°	170.0	169.0
120°	195.0	193.0
122.5°	220.0	219.0
125°	246.0	244.0
127.5°	269.0	267.0
130°	292.0	290.0
132.5°	314.0	313.0
135°	337.0	336.0
137.5°	360.0	359.0
140°	383.0	382.0
142.5°	406.0	404.0
145°	426.0	425.0
147.5°	444.0	444.0
150°	462.0	461.0
152.5°	480.0	479.0
155°	500.0	499.0
157.5°	515.0	513.0
160°	527.0	525.0
162.5°	536.0	535.0
165°	547.0	546.0
167.5°	556.0	555.0
170°	563.0	562.0
172.5°	566.0	565.0
175°	569.0	567.0
177.5°	573.0	572.0
180°	576.0	576.0

(END OF REPORT)

Cooper Lighting Solutions Photometric Lab
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Scaled Data Report

