

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: P228184

Luminaire Tested: **ISS-AF-800-LED-E1-SL3-7030-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P228184
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29762)-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-SL3-7030-ULG
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE WITH UPLIGHT
LIGHT SQUARE WITH ACCULED OPTICS-TYPE III W/SPILL CONTROL, WITH UPLIGHT
GLOW
Light Source: (16) 3000K CCT, 70 CRI LEDs and (1) UPLIGHT LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5455.2 lumens
Efficiency: N/A
Efficacy: 90.6 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 - 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

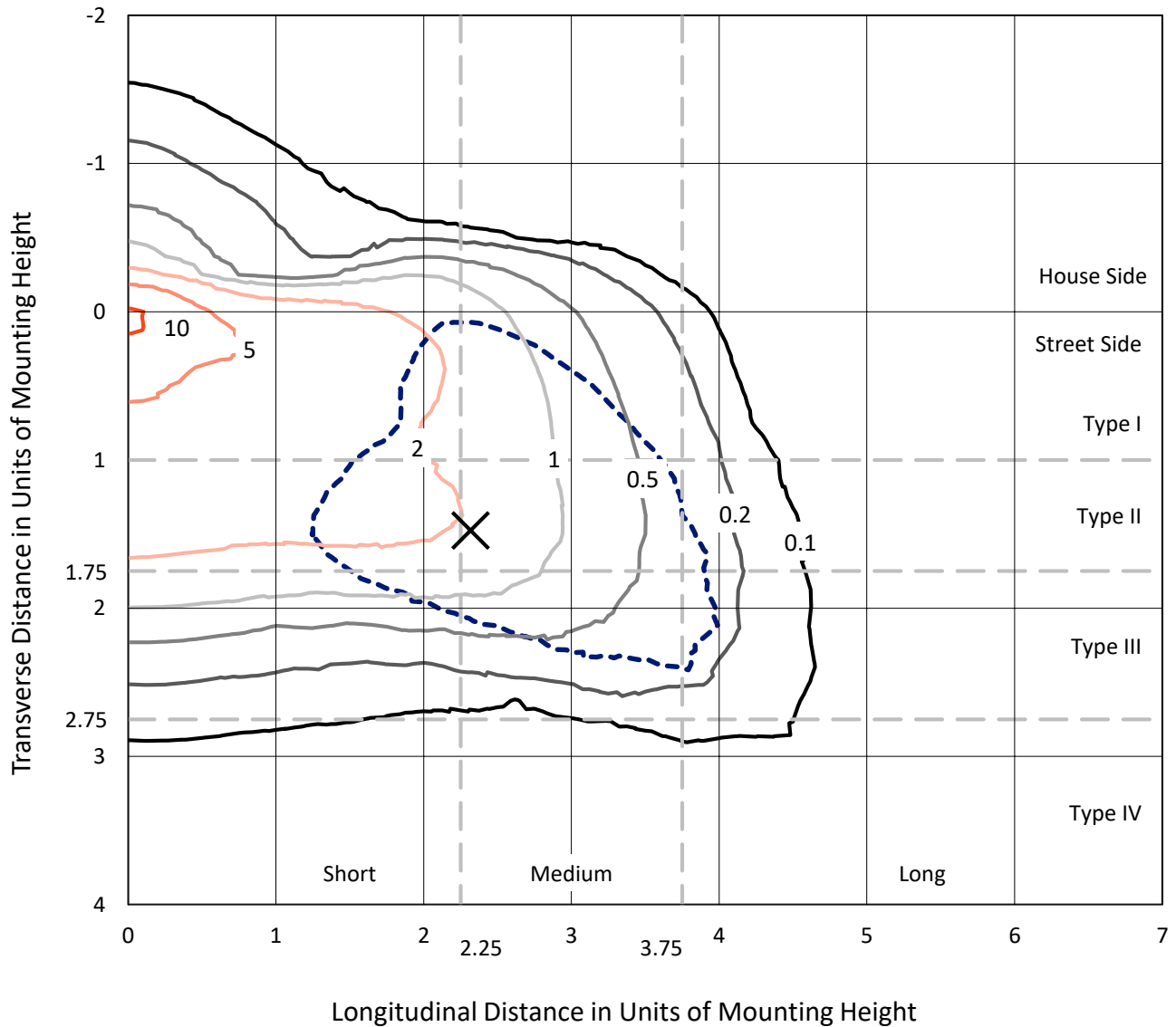


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

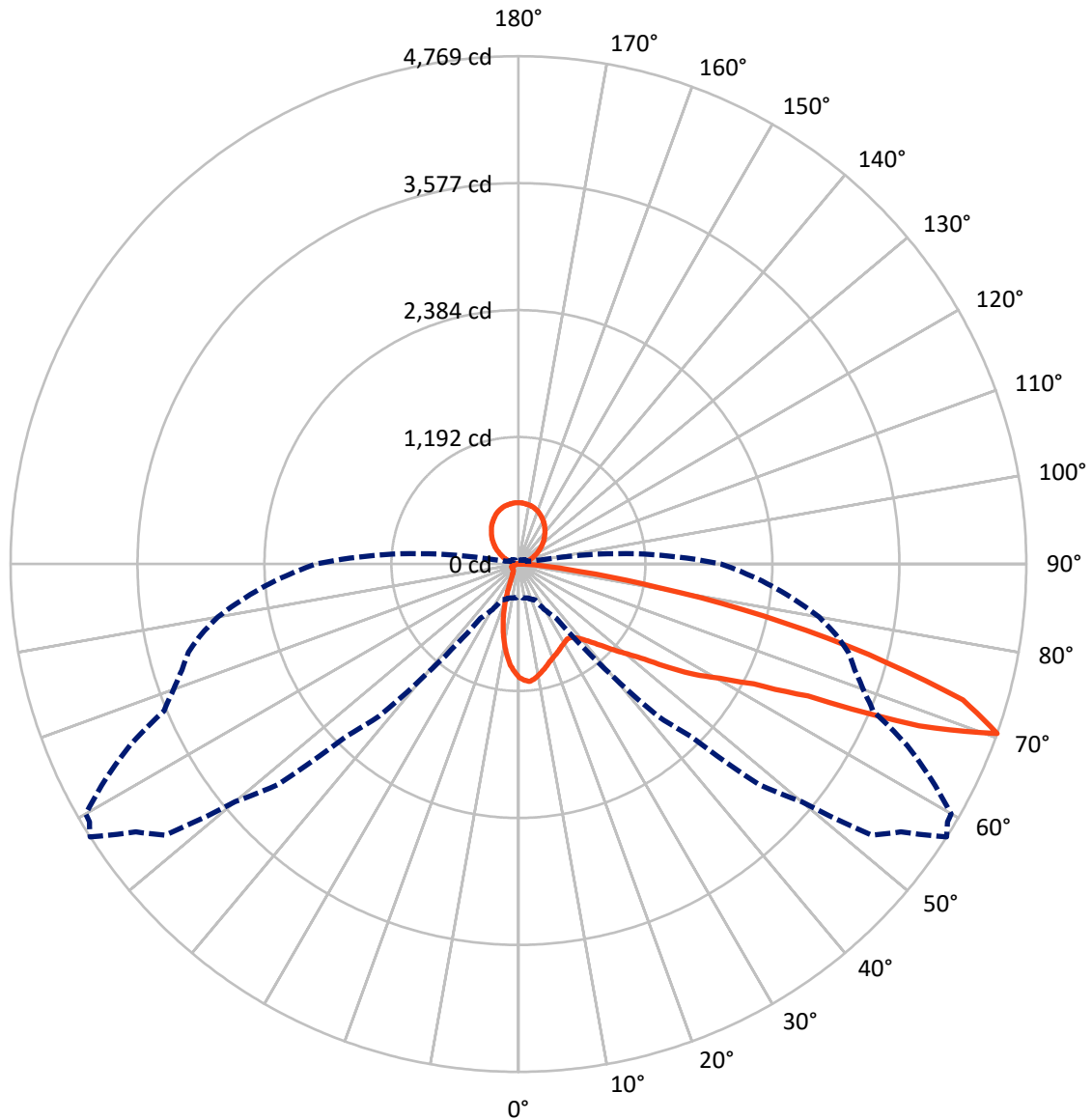


Based on 10 foot mounting height. Maximum calculated value = 10.7 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 57.5-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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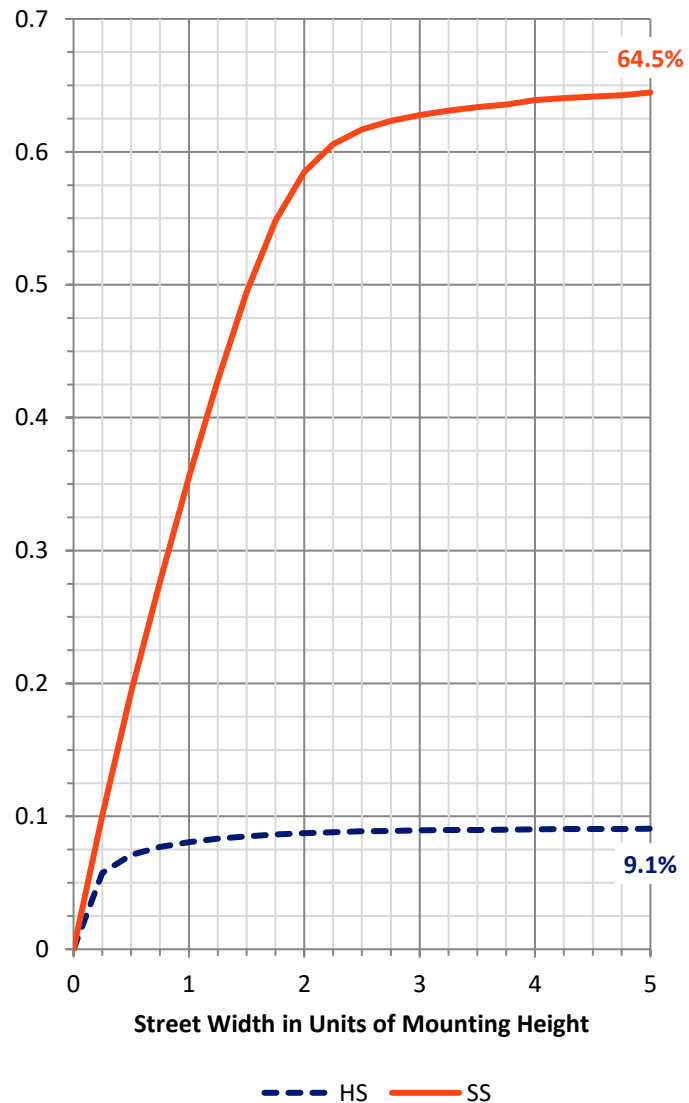
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	498.6	713.1	1211.7
	% Fixture	9.1	13.1	22.2
Street Side	Lumens	3530.4	713.1	4243.5
	% Fixture	64.7	13.1	77.8
Total	Lumens	4029.0	1426.2	5455.2
	% Fixture	73.9	26.1	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.1	1.7
10°-20°	199.9	3.7
20°-30°	251.2	4.6
30°-40°	328.3	6.0
40°-50°	492.6	9.0
50°-60°	778.7	14.3
60°-70°	1122.5	20.6
70°-80°	694.7	12.7
80°-90°	68.9	1.3
90°-100°	4.7	0.1
100°-110°	69.0	1.3
110°-120°	153.0	2.8
120°-130°	223.9	4.1
130°-140°	265.6	4.9
140°-150°	269.3	4.9
150°-160°	231.1	4.2
160°-170°	155.1	2.8
170°-180°	54.3	1.0
0°-90°	4029.0	73.9
0°-180°	5455.2	100.0



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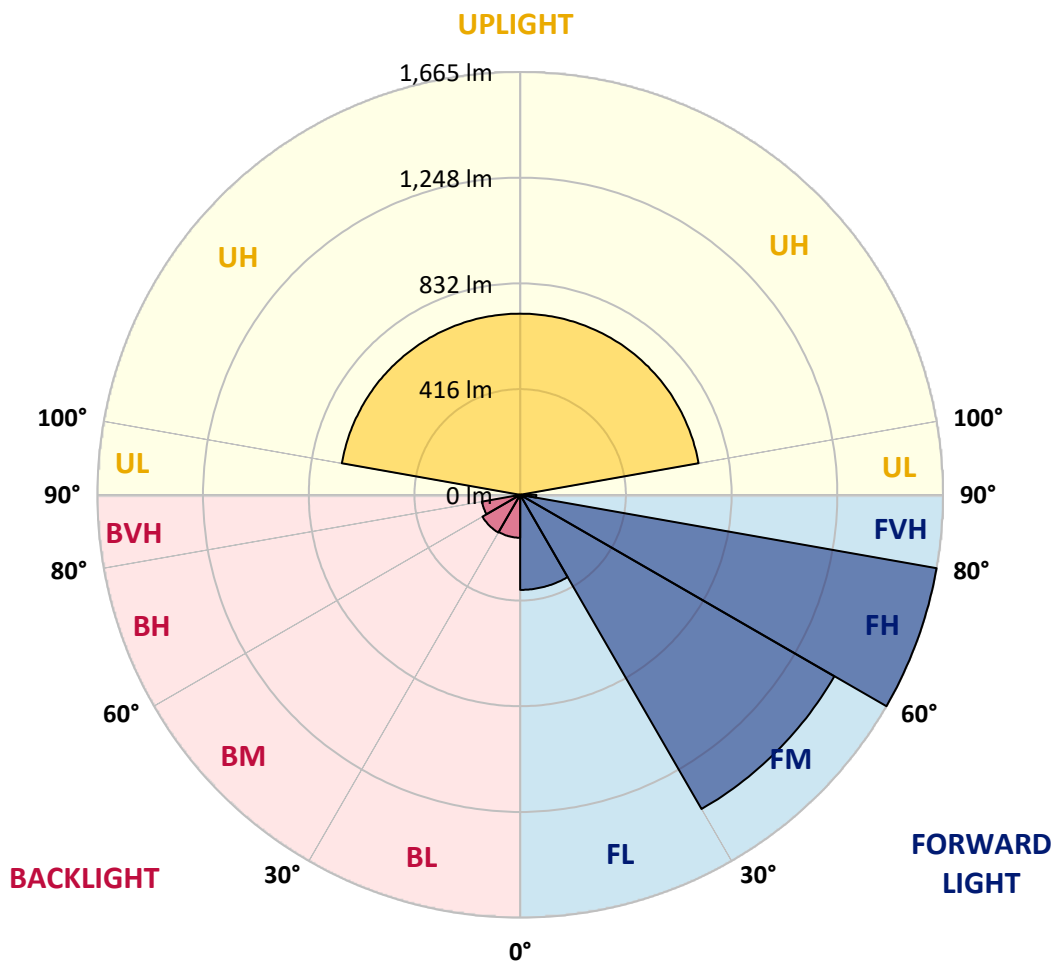
CATALOG NUMBER: ISS-AF-800-LED-E1-SL3-7030-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	374.2	6.9			
FM	(30°-60°)	1428.2	26.2			
FH	(60°-80°)	1664.6	30.5			G1/1800
FVH	(80°-90°)	63.4	1.2			G1/100
BL	(0°-30°)	169.0	3.1	B1/500		
BM	(30°-60°)	171.4	3.1	B0/220		
BH	(60°-80°)	152.6	2.8	B1/500		G1/500
BVH	(80°-90°)	5.5	0.1			G0/10
UL	(90°-100°)	4.7	0.1		U1/10	
UH	(100°-180°)	713.1	13.1		U4/1000	

BUG Rating: B1-U5-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°	1066.4	1066.4	1066.4	1066.4	1066.4	1066.4	1066.4	1066.4	1066.4	1066.4	1066.4
2.5°	1119.3	1117.9	1115.0	1109.3	1106.4	1109.3	1106.4	1102.1	1096.4	1100.7	1097.9
5°	1116.4	1119.3	1113.6	1109.3	1116.4	1119.3	1113.6	1113.6	1107.9	1113.6	1110.7
7.5°	1060.7	1062.1	1063.5	1062.1	1080.7	1080.7	1077.8	1080.7	1082.1	1085.0	1086.4
10°	990.6	992.1	994.9	999.2	1022.1	1025.0	1026.4	1029.2	1033.5	1036.4	1045.0
12.5°	920.6	923.5	929.2	943.5	967.8	970.6	974.9	979.2	986.4	990.6	1006.4
15°	862.0	863.4	869.1	884.9	920.6	927.7	930.6	936.3	950.6	950.6	967.8
17.5°	807.7	810.5	814.8	833.4	869.1	880.6	889.1	892.0	910.6	914.9	934.9
20°	766.2	767.6	769.1	786.2	819.1	836.3	843.4	854.8	869.1	880.6	897.7
22.5°	743.3	744.8	741.9	749.1	777.6	799.1	807.7	819.1	824.8	844.8	854.8
25°	744.8	746.2	739.1	734.8	749.1	771.9	779.1	790.5	787.7	816.2	816.2
27.5°	759.1	761.9	754.8	741.9	743.3	761.9	766.2	770.5	761.9	790.5	784.8
30°	787.7	790.5	781.9	771.9	756.2	767.6	767.6	767.6	751.9	776.2	766.2
32.5°	817.7	820.5	817.7	810.5	790.5	793.4	787.7	784.8	763.4	783.4	767.6
35°	862.0	863.4	864.8	864.8	836.3	842.0	826.3	817.7	797.7	813.4	791.9
37.5°	914.9	914.9	924.9	929.2	897.7	897.7	880.6	869.1	850.6	856.3	834.8
40°	962.1	966.3	989.2	1002.1	973.5	962.1	947.8	937.8	923.5	923.5	902.0
42.5°	1016.4	1025.0	1052.1	1076.4	1060.7	1043.5	1029.2	1019.2	1012.1	1010.7	987.8
45°	1083.6	1093.6	1123.6	1146.5	1150.7	1137.9	1126.4	1116.4	1110.7	1107.9	1087.9
47.5°	1159.3	1169.3	1196.5	1223.7	1243.7	1240.8	1227.9	1217.9	1222.2	1219.4	1206.5
50°	1243.7	1249.4	1266.5	1298.0	1343.7	1353.7	1350.9	1343.7	1352.3	1352.3	1340.9
52.5°	1310.9	1315.1	1328.0	1365.2	1440.9	1463.8	1482.4	1496.7	1511.0	1519.6	1512.4
55°	1372.3	1372.3	1373.8	1420.9	1533.9	1571.0	1612.5	1642.5	1661.1	1695.4	1709.7
57.5°	1472.4	1465.2	1463.8	1513.8	1645.4	1684.0	1744.0	1786.9	1812.6	1882.7	1881.2
60°	1443.8	1446.7	1498.1	1645.4	1874.1	1908.4	1962.7	2008.4	2057.1	2108.5	2112.8
62.5°	1245.1	1252.2	1329.4	1549.6	2019.9	2198.6	2365.8	2493.0	2564.5	2610.3	2547.4
65°	872.0	889.1	993.5	1262.2	1859.8	2135.7	2400.1	2694.6	2920.5	3270.7	3372.2
67.5°	434.6	447.4	464.6	661.9	1389.5	1776.9	2141.4	2543.1	2843.3	3357.9	3645.2
70°	311.6	317.3	330.2	371.7	621.8	930.6	1359.5	1934.1	2287.2	3063.4	3469.4
72.5°	241.6	247.3	264.5	323.1	411.7	454.6	540.4	883.4	1313.7	2115.7	2664.6
75°	187.3	195.8	220.1	291.6	396.0	420.3	424.6	456.0	520.3	939.2	1493.8
77.5°	131.5	132.9	157.2	251.6	384.5	431.7	424.6	424.6	433.1	478.9	639.0
80°	87.2	88.6	104.4	174.4	337.4	393.1	434.6	414.6	416.0	423.1	434.6
82.5°	45.7	48.6	61.5	105.8	197.3	265.9	361.7	377.4	371.7	378.8	376.0
85°	12.9	12.9	21.4	40.0	97.2	102.9	160.1	218.7	223.0	253.0	270.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	5.7	12.9	14.3
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	5.2	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
110°	101.0	102.0	103.0	106.0	110.0	110.5	111.0	111.5	112.0	112.5	113.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47.5°	50°
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°	59°	60°	62.5°	65°	67.5°	70°	72.5°	75°
0°	1066.4	1066.4	1066.4	1066.4	1066.4	1066.4	1066.4	1066.4	1066.4	1066.4	1066.4
2.5°	1100.7	1095.0	1093.6	1090.7	1092.1	1087.9	1086.4	1080.7	1080.7	1077.8	1075.0
5°	1107.9	1102.1	1107.9	1097.9	1099.3	1095.0	1087.9	1087.9	1082.1	1077.8	1069.3
7.5°	1087.9	1087.9	1089.3	1083.6	1085.0	1083.6	1075.0	1073.6	1065.0	1065.0	1055.0
10°	1050.7	1050.7	1056.4	1052.1	1053.5	1052.1	1047.8	1046.4	1043.5	1043.5	1027.8
12.5°	1007.8	1016.4	1025.0	1020.7	1020.7	1023.5	1023.5	1025.0	1023.5	1022.1	1009.2
15°	972.1	984.9	993.5	992.1	993.5	1000.7	1003.5	1004.9	1009.2	1007.8	996.4
17.5°	939.2	953.5	960.6	966.3	970.6	976.3	984.9	989.2	994.9	993.5	982.1
20°	909.2	922.0	934.9	942.0	943.5	954.9	964.9	977.8	980.6	983.5	969.2
22.5°	877.7	889.1	914.9	910.6	920.6	942.0	947.8	966.3	966.3	976.3	956.3
25°	850.6	852.0	892.0	884.9	893.4	932.0	936.3	969.2	960.6	974.9	952.0
27.5°	823.4	822.0	870.6	862.0	872.0	924.9	927.7	973.5	964.9	982.1	952.0
30°	803.4	799.1	854.8	837.7	852.0	917.7	919.2	977.8	970.6	993.5	962.1
32.5°	799.1	791.9	840.5	827.7	842.0	910.6	919.2	993.5	984.9	1013.5	973.5
35°	817.7	806.2	847.7	836.3	847.7	913.5	926.3	1017.8	1007.8	1040.7	1000.7
37.5°	852.0	843.4	877.7	866.3	874.9	933.5	944.9	1049.3	1047.8	1087.9	1042.1
40°	912.0	903.4	930.6	914.9	922.0	976.3	982.1	1093.6	1097.9	1146.5	1100.7
42.5°	993.5	979.2	1000.7	982.1	992.1	1040.7	1035.0	1147.9	1160.8	1227.9	1175.0
45°	1097.9	1079.3	1092.1	1072.1	1079.3	1120.7	1105.0	1220.8	1233.7	1316.6	1269.4
47.5°	1212.2	1189.3	1205.1	1179.3	1183.6	1227.9	1199.4	1308.0	1328.0	1432.4	1386.6
50°	1349.4	1319.4	1325.1	1300.8	1303.7	1348.0	1316.6	1415.2	1439.5	1555.3	1515.3
52.5°	1525.3	1482.4	1482.4	1449.5	1450.9	1495.3	1456.7	1542.4	1569.6	1686.8	1659.7
55°	1756.9	1722.5	1715.4	1681.1	1669.7	1678.2	1623.9	1684.0	1714.0	1824.0	1802.6
57.5°	1941.3	1937.0	1958.4	1909.8	1898.4	1901.2	1832.6	1836.9	1871.2	1957.0	1964.1
60°	2165.7	2172.8	2175.7	2135.7	2131.4	2091.4	2021.3	2009.9	2052.8	2111.4	2134.2
62.5°	2523.1	2515.9	2480.2	2450.2	2423.0	2315.8	2277.2	2214.3	2274.3	2307.2	2354.4
65°	3290.7	3216.4	2987.7	3007.7	2936.2	2703.2	2670.3	2543.1	2637.4	2638.9	2727.5
67.5°	4051.2	4197.0	4056.9	4059.8	3898.2	3476.5	3375.1	3122.0	3174.9	3113.5	3159.2
70°	4181.3	4385.7	4768.8	4700.2	4691.6	4367.1	4025.5	3603.8	3445.1	3313.6	3207.8
72.5°	3598.1	3802.5	4364.3	4208.5	4267.1	4365.7	4009.8	3693.8	3339.3	3172.1	2943.3
75°	2531.6	2826.1	3396.5	3315.0	3357.9	3520.9	3214.9	3177.8	2767.5	2656.0	2304.4
77.5°	1356.6	1721.1	2360.1	2260.0	2278.6	2371.5	2052.8	1987.0	1591.0	1481.0	1082.1
80°	610.4	846.3	1325.1	1213.6	1180.8	1127.9	830.5	654.7	400.3	265.9	184.4
82.5°	404.5	420.3	587.5	508.9	476.0	393.1	254.5	150.1	118.6	100.1	95.8
85°	271.6	248.7	247.3	218.7	203.0	160.1	118.6	74.3	61.5	51.5	47.2
87.5°	15.7	10.0	14.3	15.7	11.4	10.0	7.1	0.0	1.4	0.0	1.4
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°	12.0	13.0	11.5	10.6	10.0	8.5	7.0	6.5	6.0	5.5	5.0
100°	31.5	32.0	31.5	31.2	31.0	30.5	30.0	29.2	28.5	27.8	27.0
102.5°	50.8	51.0	50.8	50.6	50.5	50.2	50.0	49.5	49.0	48.5	48.0
105°	70.8	71.0	71.0	71.0	71.0	71.0	71.0	70.5	70.0	69.5	69.0
107.5°	92.5	93.0	92.8	92.6	92.5	92.2	92.0	91.8	91.5	91.2	91.0
110°	113.5	114.0	114.0	114.0	114.0	114.0	114.0	113.8	113.5	113.2	113.0



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CANDELA DISTRIBUTION (continued):

	52.5°	55°	57.5°	59°	60°	62.5°	65°	67.5°	70°	72.5°	75°
112.5°	135.5	136.0	136.0	136.0	136.0	136.0	136.0	135.8	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	180.4	180.5	180.8	181.0	180.8	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	228.0	228.2	228.5	228.8	229.0
125°	252.8	253.0	253.2	253.4	253.5	253.8	254.0	254.0	254.0	254.0	254.0
127.5°	277.5	278.0	277.8	277.6	277.5	277.2	277.0	277.2	277.5	277.8	278.0
130°	300.5	301.0	301.0	301.0	301.0	301.0	301.0	301.2	301.5	301.8	302.0
132.5°	324.2	325.0	325.0	325.0	325.0	325.0	325.0	325.2	325.5	325.8	326.0
135°	347.2	348.0	348.0	348.0	348.0	348.0	348.0	348.2	348.5	348.8	349.0
137.5°	368.5	369.0	369.0	369.0	369.0	369.0	369.0	369.2	369.5	369.8	370.0
140°	389.8	390.0	390.0	390.0	390.0	390.0	390.0	390.5	391.0	391.5	392.0
142.5°	411.5	412.0	412.0	412.0	412.0	412.0	412.0	412.2	412.5	412.8	413.0
145°	433.5	434.0	433.8	433.6	433.5	433.2	433.0	433.2	433.5	433.8	434.0
147.5°	453.8	454.0	453.5	453.2	453.0	452.5	452.0	452.2	452.5	452.8	453.0
150°	470.8	471.0	470.5	470.2	470.0	469.5	469.0	469.0	469.0	469.0	469.0
152.5°	486.8	487.0	486.8	486.6	486.5	486.2	486.0	486.0	486.0	486.0	486.0
155°	503.8	504.0	503.8	503.6	503.5	503.2	503.0	503.2	503.5	503.8	504.0
157.5°	519.0	519.0	518.5	518.2	518.0	517.5	517.0	517.2	517.5	517.8	518.0
160°	532.0	532.0	531.5	531.2	531.0	530.5	530.0	530.0	530.0	530.0	530.0
162.5°	541.8	542.0	541.5	541.2	541.0	540.5	540.0	539.5	539.0	538.5	538.0
165°	552.8	553.0	552.2	551.8	551.5	550.8	550.0	549.5	549.0	548.5	548.0
167.5°	560.0	560.0	559.5	559.2	559.0	558.5	558.0	558.2	558.5	558.8	559.0
170°	565.2	565.0	564.8	564.6	564.5	564.2	564.0	564.5	565.0	565.5	566.0
172.5°	568.8	569.0	568.5	568.2	568.0	567.5	567.0	567.2	567.5	567.8	568.0
175°	572.8	573.0	572.2	571.8	571.5	570.8	570.0	569.5	569.0	568.5	568.0
177.5°	577.0	577.0	576.2	575.8	575.5	574.8	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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CATALOG NUMBER: ISS-AF-800-LED-E1-SL3-7030-ULG

CANDELA DISTRIBUTION (continued):

	77.5°	80°	85°	90°	95°	100°	102.5°	105°	107.5°	110°	112.5°
0°	1066.4	1066.4	1066.4	1066.4	1066.4	1066.4	1066.4	1066.4	1066.4	1066.4	1066.4
2.5°	1067.8	1067.8	1066.4	1056.4	1050.7	1047.8	1037.8	1036.4	1032.1	1030.7	1030.7
5°	1066.4	1060.7	1053.5	1039.2	1025.0	1012.1	1007.8	997.8	990.6	982.1	982.1
7.5°	1046.4	1040.7	1025.0	1003.5	984.9	966.3	956.3	942.0	930.6	919.2	916.3
10°	1023.5	1014.9	993.5	964.9	940.6	907.7	894.9	876.3	863.4	846.3	829.1
12.5°	999.2	993.5	967.8	934.9	897.7	856.3	836.3	810.5	793.4	773.4	747.6
15°	989.2	977.8	944.9	903.4	857.7	807.7	779.1	751.9	726.2	703.3	669.0
17.5°	976.3	962.1	924.9	876.3	819.1	759.1	721.9	691.9	657.6	633.3	594.7
20°	962.1	940.6	900.6	842.0	777.6	706.2	659.0	629.0	583.2	558.9	513.2
22.5°	950.6	923.5	874.9	809.1	731.9	651.9	596.1	561.8	510.3	481.7	424.6
25°	947.8	914.9	856.3	781.9	693.3	599.0	531.8	497.5	433.1	400.3	333.1
27.5°	949.2	910.6	844.8	759.1	659.0	551.8	471.7	431.7	350.2	315.9	238.7
30°	950.6	912.0	833.4	739.1	627.6	503.2	408.8	361.7	264.5	234.4	165.8
32.5°	964.9	917.7	830.5	723.3	599.0	454.6	337.4	294.5	187.3	170.1	122.9
35°	982.1	936.3	836.3	720.5	577.5	406.0	264.5	220.1	134.4	130.1	100.1
37.5°	1017.8	964.9	859.1	727.6	564.7	355.9	197.3	168.7	105.8	108.6	87.2
40°	1072.1	1013.5	896.3	749.1	563.2	305.9	145.8	131.5	91.5	94.3	80.1
42.5°	1145.0	1080.7	953.5	794.8	570.4	258.7	117.2	112.9	84.3	87.2	77.2
45°	1240.8	1175.0	1033.5	853.4	590.4	220.1	102.9	102.9	81.5	84.3	75.8
47.5°	1362.3	1289.4	1132.2	932.0	621.8	198.7	97.2	98.6	80.1	84.3	75.8
50°	1499.5	1419.5	1258.0	1033.5	670.4	193.0	98.6	98.6	81.5	84.3	75.8
52.5°	1642.5	1568.2	1393.8	1149.3	737.6	205.8	101.5	100.1	81.5	84.3	74.3
55°	1788.3	1721.1	1543.9	1285.1	830.5	251.6	108.6	104.4	81.5	84.3	75.8
57.5°	1934.1	1886.9	1701.1	1430.9	946.3	334.5	137.2	121.5	90.1	91.5	77.2
60°	2098.5	2064.2	1878.4	1622.5	1110.7	463.2	201.6	153.0	107.2	101.5	82.9
62.5°	2311.5	2302.9	2155.7	1898.4	1375.2	649.0	285.9	185.8	115.8	105.8	88.6
65°	2687.5	2710.3	2570.2	2221.4	1551.0	653.3	278.8	163.0	108.6	100.1	87.2
67.5°	3064.9	2997.7	2637.4	2172.8	1399.5	434.6	177.3	127.2	95.8	92.9	81.5
70°	3050.6	2867.6	2391.6	1899.8	1105.0	235.9	128.7	105.8	85.8	85.8	77.2
72.5°	2736.1	2464.5	1955.6	1503.8	737.6	150.1	108.6	92.9	78.6	77.2	71.5
75°	2059.9	1739.7	1256.5	866.3	328.8	97.2	82.9	75.8	68.6	68.6	62.9
77.5°	969.2	546.1	303.1	201.6	110.1	65.8	57.2	57.2	55.8	57.2	51.5
80°	131.5	118.6	101.5	88.6	67.2	45.7	41.5	42.9	41.5	42.9	38.6
82.5°	80.1	71.5	58.6	55.8	41.5	31.4	30.0	31.4	28.6	30.0	22.9
85°	38.6	34.3	27.2	25.7	21.4	18.6	15.7	18.6	14.3	15.7	10.0
87.5°	0.0	2.9	1.4	2.9	2.9	2.9	0.0	2.9	0.0	2.9	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
110°	113.2	113.5	114.0	113.0	114.0	113.5	113.2	113.0	113.2	113.5	113.8



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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°	
112.5°	135.5	136.0	137.0	135.0	137.0	136.0	135.5	135.0	135.2	135.5	135.8	0°
115°	158.5	159.0	160.0	159.0	160.0	159.0	158.5	158.0	158.0	158.0	158.0	2.5°
117.5°	180.5	181.0	182.0	180.0	182.0	181.0	180.5	180.0	180.2	180.5	180.8	5°
120°	204.5	205.0	206.0	204.0	206.0	205.0	204.5	204.0	204.0	204.0	204.0	7.5°
122.5°	230.0	231.0	233.0	232.0	233.0	231.0	230.0	229.0	228.8	228.5	228.2	10°
125°	254.8	255.5	257.0	256.0	257.0	255.5	254.8	254.0	254.0	254.0	254.0	12.5°
127.5°	278.8	279.5	281.0	278.0	281.0	279.5	278.8	278.0	277.8	277.5	277.2	15°
130°	302.8	303.5	305.0	303.0	305.0	303.5	302.8	302.0	301.8	301.5	301.2	17.5°
132.5°	326.8	327.5	329.0	327.0	329.0	327.5	326.8	326.0	325.8	325.5	325.2	20°
135°	349.5	350.0	351.0	350.0	351.0	350.0	349.5	349.0	348.8	348.5	348.2	22.5°
137.5°	371.0	372.0	374.0	372.0	374.0	372.0	371.0	370.0	369.8	369.5	369.2	25°
140°	393.0	394.0	396.0	394.0	396.0	394.0	393.0	392.0	391.5	391.0	390.5	27.5°
142.5°	413.8	414.5	416.0	415.0	416.0	414.5	413.8	413.0	412.8	412.5	412.2	30°
145°	434.8	435.5	437.0	435.0	437.0	435.5	434.8	434.0	433.8	433.5	433.2	32.5°
147.5°	453.8	454.5	456.0	453.0	456.0	454.5	453.8	453.0	452.8	452.5	452.2	35°
150°	470.0	471.0	473.0	470.0	473.0	471.0	470.0	469.0	469.0	469.0	469.0	37.5°
152.5°	486.8	487.5	489.0	486.0	489.0	487.5	486.8	486.0	486.0	486.0	486.0	40°
155°	504.8	505.5	507.0	505.0	507.0	505.5	504.8	504.0	503.8	503.5	503.2	42.5°
157.5°	519.2	520.5	523.0	520.0	523.0	520.5	519.2	518.0	517.8	517.5	517.2	45°
160°	530.8	531.5	533.0	531.0	533.0	531.5	530.8	530.0	530.0	530.0	530.0	47.5°
162.5°	538.5	539.0	540.0	537.0	540.0	539.0	538.5	538.0	538.5	539.0	539.5	50°
165°	548.5	549.0	550.0	548.0	550.0	549.0	548.5	548.0	548.5	549.0	549.5	52.5°
167.5°	560.0	561.0	563.0	561.0	563.0	561.0	560.0	559.0	558.8	558.5	558.2	55°
170°	567.2	568.5	571.0	569.0	571.0	568.5	567.2	566.0	565.5	565.0	564.5	57.5°
172.5°	568.8	569.5	571.0	568.0	571.0	569.5	568.8	568.0	567.8	567.5	567.2	60°
175°	568.8	569.5	571.0	568.0	571.0	569.5	568.8	568.0	568.5	569.0	569.5	62.5°
177.5°	574.8	575.5	577.0	574.0	577.0	575.5	574.8	574.0	574.0	574.0	574.0	65°
180°	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	67.5°
												70°
												72.5°
												75°
												77.5°
												80°
												82.5°
												85°
												87.5°
												90°
												92.5°
												95°
												97.5°
												100°
												102.5°
												105°
												107.5°
												110°

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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°	115°	115°
1066.4	1066.4	1066.4	1066.4	1066.4	1066.4	1066.4	1066.4	1066.4	1066.4	1066.4	112.5°	136.0
1023.5	1019.2	1017.8	1012.1	1010.7	1004.9	1003.5	997.8	987.8	983.5	976.3	115°	158.0
969.2	962.1	956.3	953.5	942.0	936.3	927.7	916.3	894.9	884.9	867.7	117.5°	181.0
893.4	892.0	874.9	869.1	854.8	844.8	832.0	813.4	781.9	763.4	736.2	120°	204.0
810.5	804.8	784.8	773.4	754.8	740.5	723.3	696.2	647.6	609.0	567.5	122.5°	228.0
733.3	716.2	693.3	676.2	653.3	633.3	613.3	571.8	494.6	431.7	374.5	125°	254.0
653.3	627.6	603.2	574.7	550.4	518.9	496.0	441.7	340.2	263.0	227.3	127.5°	277.0
571.8	536.1	508.9	470.3	443.1	400.3	376.0	310.2	223.0	188.7	177.3	130°	301.0
486.0	438.9	408.8	361.7	334.5	280.2	261.6	214.4	171.5	158.7	155.8	132.5°	325.0
394.5	337.4	304.5	253.0	234.4	201.6	187.3	164.4	144.4	138.7	141.5	135°	348.0
298.8	237.3	215.9	178.7	171.5	154.4	148.7	137.2	127.2	127.2	131.5	137.5°	369.0
213.0	165.8	160.1	137.2	135.8	127.2	122.9	117.2	114.4	117.2	122.9	140°	390.0
155.8	125.8	125.8	112.9	112.9	107.2	105.8	102.9	102.9	108.6	114.4	142.5°	412.0
122.9	102.9	105.8	95.8	97.2	92.9	94.3	92.9	94.3	98.6	102.9	145°	433.0
102.9	88.6	92.9	84.3	87.2	82.9	85.8	85.8	88.6	90.1	91.5	147.5°	452.0
91.5	81.5	84.3	78.6	81.5	77.2	81.5	81.5	82.9	82.9	82.9	150°	469.0
84.3	75.8	80.1	74.3	78.6	74.3	78.6	78.6	77.2	75.8	77.2	152.5°	486.0
80.1	74.3	78.6	72.9	77.2	72.9	75.8	74.3	71.5	71.5	71.5	155°	503.0
78.6	72.9	75.8	71.5	74.3	70.0	72.9	71.5	67.2	65.8	68.6	157.5°	517.0
78.6	71.5	75.8	70.0	72.9	68.6	71.5	67.2	62.9	62.9	67.2	160°	530.0
78.6	71.5	75.8	70.0	72.9	67.2	68.6	64.3	58.6	60.0	65.8	162.5°	540.0
80.1	74.3	77.2	71.5	72.9	64.3	67.2	61.5	57.2	58.6	62.9	165°	550.0
81.5	74.3	77.2	68.6	70.0	64.3	64.3	61.5	57.2	57.2	61.5	167.5°	558.0
81.5	72.9	74.3	67.2	68.6	61.5	62.9	60.0	55.8	54.3	57.2	170°	564.0
84.3	75.8	75.8	65.8	67.2	60.0	61.5	58.6	54.3	51.5	52.9	172.5°	567.0
87.2	77.2	78.6	68.6	68.6	61.5	62.9	57.2	51.5	48.6	50.0	175°	570.0
87.2	77.2	78.6	70.0	70.0	62.9	62.9	57.2	48.6	45.7	45.7	177.5°	574.0
82.9	75.8	77.2	70.0	70.0	62.9	62.9	55.8	47.2	42.9	41.5	180°	576.0
80.1	72.9	74.3	65.8	67.2	60.0	60.0	52.9	44.3	40.0	37.2		
72.9	67.2	67.2	61.5	60.0	52.9	52.9	48.6	41.5	35.7	32.9		
62.9	57.2	55.8	50.0	50.0	45.7	44.3	40.0	34.3	30.0	28.6		
51.5	44.3	44.3	37.2	37.2	32.9	34.3	30.0	25.7	24.3	22.9		
37.2	30.0	30.0	24.3	24.3	20.0	21.4	20.0	18.6	18.6	17.2		
22.9	15.7	17.2	12.9	15.7	11.4	12.9	11.4	11.4	10.0	10.0		
11.4	5.7	8.6	4.3	7.1	1.4	4.3	2.9	2.9	2.9	2.9		
1.4	0.0	1.4	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	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		
114.0	114.0	114.0	114.0	114.0	113.5	113.0	112.0	110.0	106.0	103.0		

'228184
 ISS-AF-800-LED-E1-SL3-7030-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°
136.0	136.0	136.0	136.0	135.5	135.0	134.0	132.0	129.0	126.0	0°	1066.4	1066.4
158.0	158.0	158.0	158.0	157.5	157.0	156.0	154.0	151.0	149.0	2.5°	969.2	973.5
180.8	180.5	180.2	180.0	179.8	179.5	179.0	177.0	174.0	172.0	5°	862.0	863.4
204.0	204.0	204.0	204.0	203.5	203.0	202.0	201.0	198.0	196.0	7.5°	731.9	729.0
228.0	228.0	228.0	228.0	227.8	227.5	227.0	226.0	223.0	221.0	10°	558.9	551.8
253.8	253.5	253.2	253.0	252.8	252.5	252.0	251.0	248.0	247.0	12.5°	360.2	350.2
277.2	277.5	277.8	278.0	277.5	277.0	276.0	274.0	272.0	270.0	15°	217.3	214.4
301.0	301.0	301.0	301.0	300.5	300.0	299.0	298.0	294.0	293.0	17.5°	174.4	174.4
325.0	325.0	325.0	325.0	324.2	323.5	322.0	321.0	318.0	317.0	20°	155.8	155.8
348.0	348.0	348.0	348.0	347.2	346.5	345.0	345.0	341.0	339.0	22.5°	144.4	144.4
369.0	369.0	369.0	369.0	368.5	368.0	367.0	367.0	364.0	363.0	25°	135.8	137.2
390.0	390.0	390.0	390.0	389.8	389.5	389.0	388.0	386.0	385.0	27.5°	128.7	128.7
412.0	412.0	412.0	412.0	411.5	411.0	410.0	410.0	407.0	408.0	30°	120.1	120.1
433.2	433.5	433.8	434.0	433.5	433.0	432.0	431.0	428.0	428.0	32.5°	105.8	105.8
452.5	453.0	453.5	454.0	453.8	453.5	453.0	452.0	448.0	447.0	35°	94.3	92.9
469.5	470.0	470.5	471.0	470.8	470.5	470.0	469.0	465.0	464.0	37.5°	84.3	85.8
486.2	486.5	486.8	487.0	486.8	486.5	486.0	485.0	482.0	483.0	40°	77.2	78.6
503.2	503.5	503.8	504.0	503.8	503.5	503.0	503.0	501.0	502.0	42.5°	74.3	74.3
517.5	518.0	518.5	519.0	519.0	519.0	519.0	519.0	516.0	517.0	45°	71.5	71.5
530.5	531.0	531.5	532.0	532.0	532.0	532.0	532.0	529.0	529.0	47.5°	71.5	71.5
540.5	541.0	541.5	542.0	541.8	541.5	541.0	541.0	538.0	539.0	50°	70.0	71.5
550.8	551.5	552.2	553.0	552.8	552.5	552.0	552.0	548.0	549.0	52.5°	68.6	68.6
558.5	559.0	559.5	560.0	560.0	560.0	560.0	561.0	558.0	559.0	55°	64.3	65.8
564.2	564.5	564.8	565.0	565.2	565.5	566.0	567.0	565.0	566.0	57.5°	60.0	61.5
567.5	568.0	568.5	569.0	568.8	568.5	568.0	569.0	567.0	569.0	60°	55.8	55.8
570.8	571.5	572.2	573.0	572.8	572.5	572.0	572.0	569.0	570.0	62.5°	50.0	50.0
574.8	575.5	576.2	577.0	577.0	577.0	577.0	578.0	574.0	575.0	65°	45.7	45.7
576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	67.5°	40.0	40.0
										70°	35.7	35.7
										72.5°	31.4	31.4
										75°	27.2	27.2
										77.5°	22.9	21.4
										80°	17.2	17.2
										82.5°	10.0	10.0
										85°	2.9	2.9
										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
										110°	102.0	101.0



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CANDELA DISTRIBUTION (continued):

	175°	180°
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
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

