

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: P228209

Luminaire Tested: **ISS-AF-1000-LED-E1-SL3-7030-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P228209
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-1000-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: 6188.2 lumens
Efficiency: N/A
Efficacy: 86.8 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 - G2

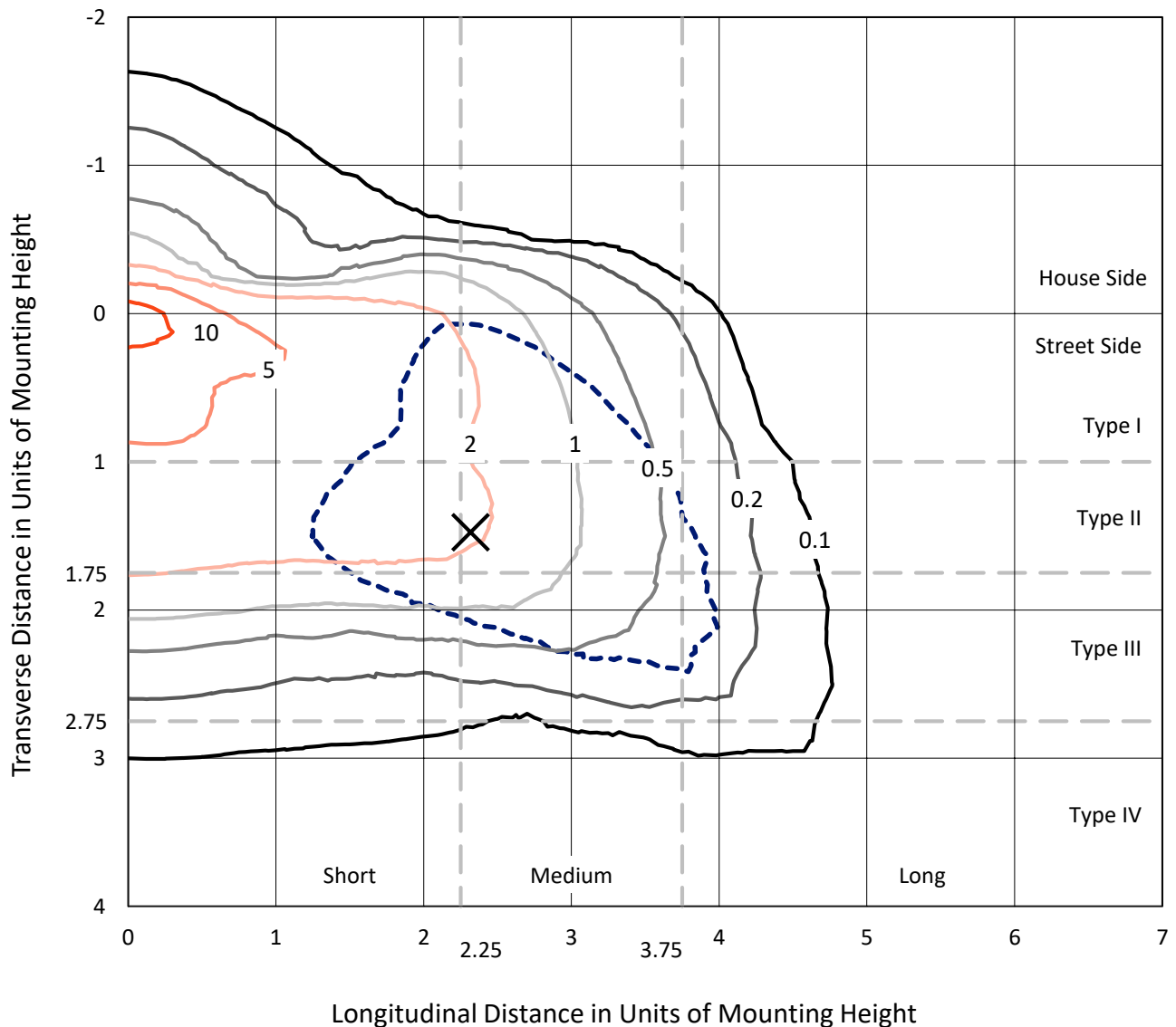
Input Watts (W): 71.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

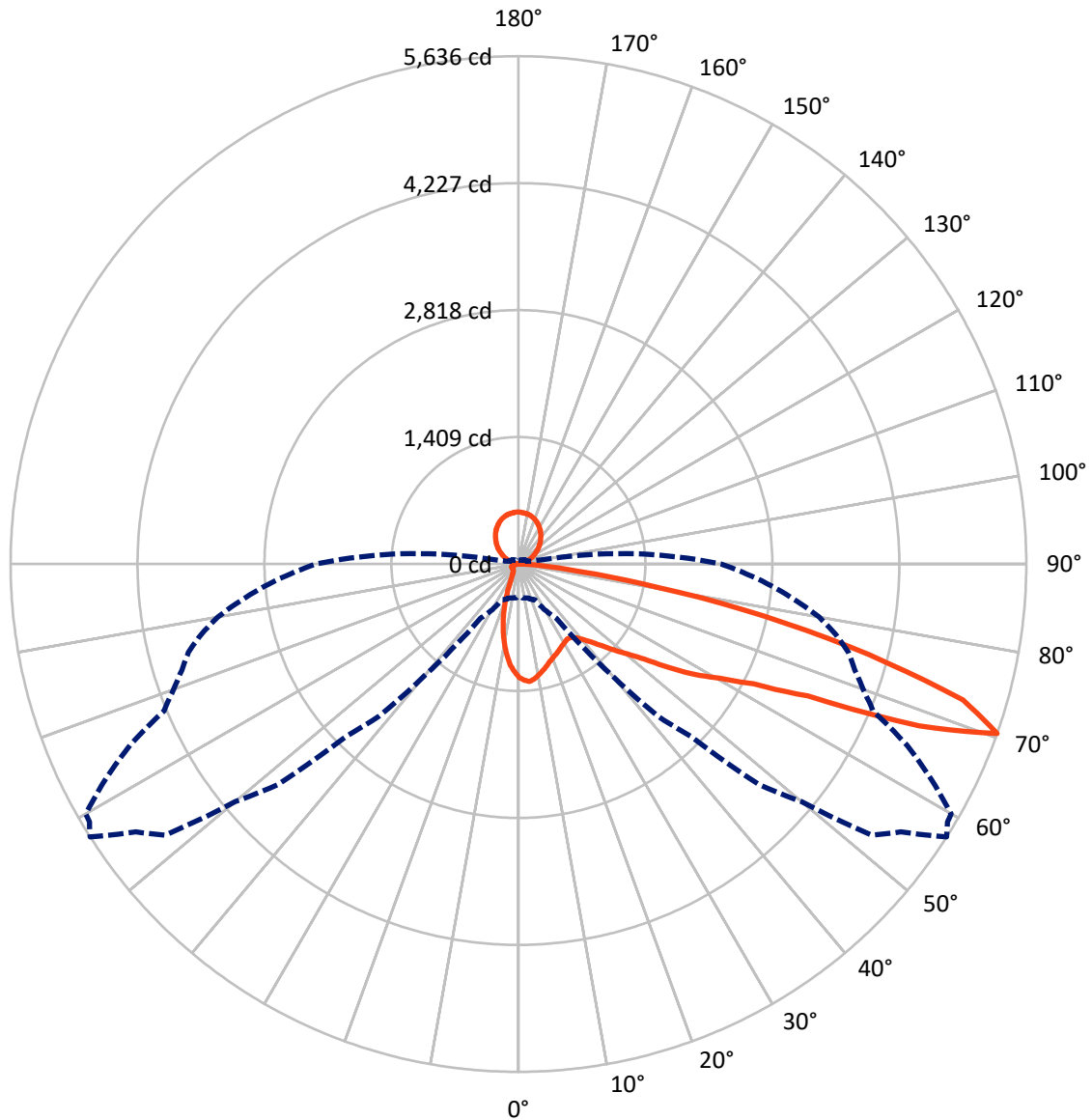
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.6 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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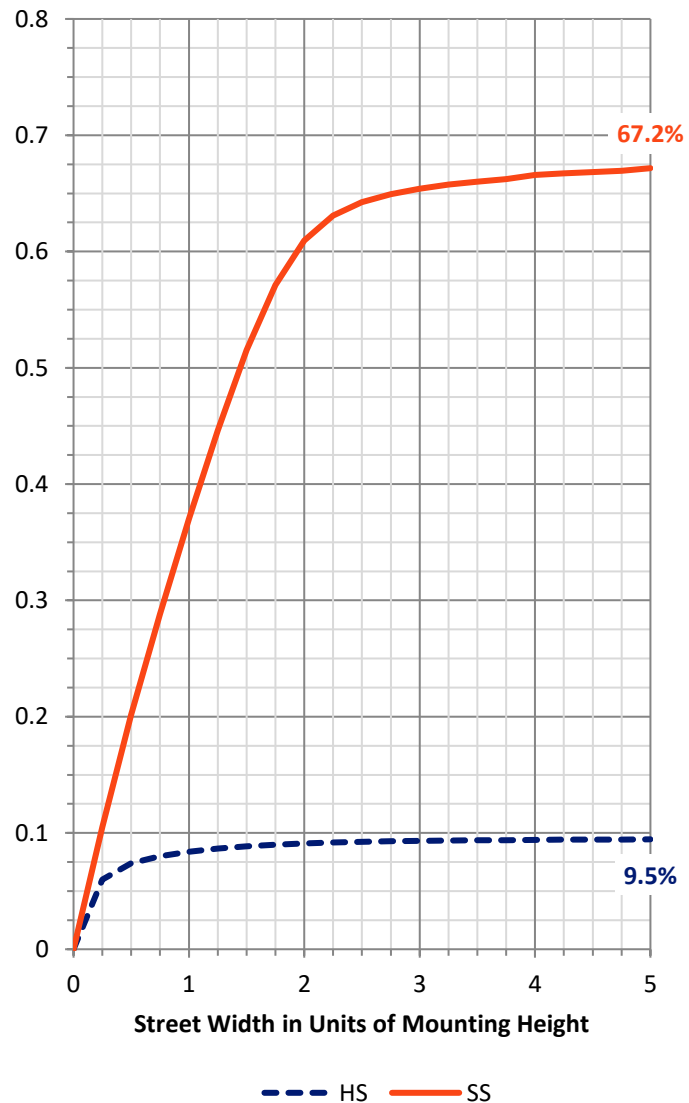
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	589.3	713.1	1302.4
	% Fixture	9.5	11.5	21.0
Street Side	Lumens	4172.7	713.1	4885.8
	% Fixture	67.4	11.5	79.0
Total	Lumens	4762.0	1426.2	6188.2
	% Fixture	77.0	23.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.8	1.8
10°-20°	236.3	3.8
20°-30°	296.9	4.8
30°-40°	388.1	6.3
40°-50°	582.2	9.4
50°-60°	920.4	14.9
60°-70°	1326.7	21.4
70°-80°	821.1	13.3
80°-90°	81.4	1.3
90°-100°	4.7	0.1
100°-110°	69.0	1.1
110°-120°	153.0	2.5
120°-130°	223.9	3.6
130°-140°	265.6	4.3
140°-150°	269.3	4.4
150°-160°	231.1	3.7
160°-170°	155.1	2.5
170°-180°	54.3	0.9
0°-90°	4762.0	77.0
0°-180°	6188.2	100.0

Coefficient of Utilization



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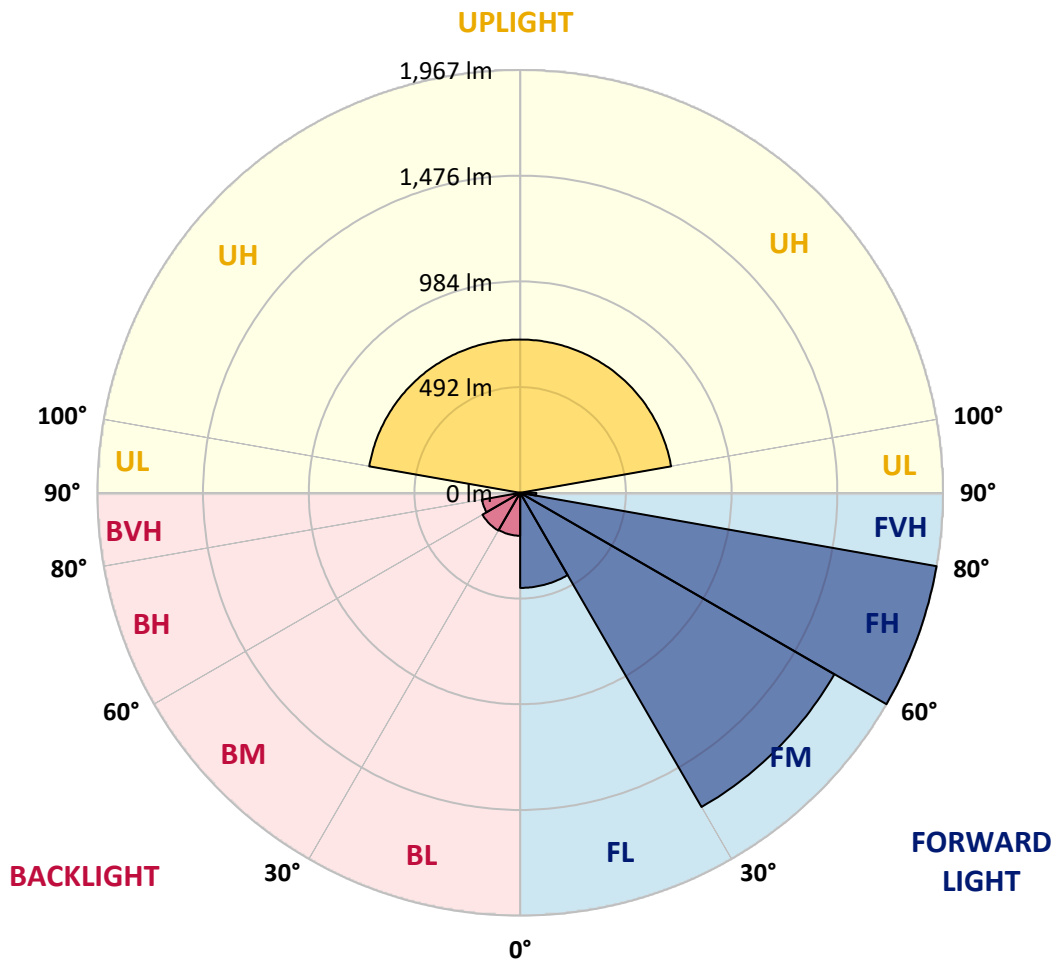
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	442.3	7.1			
FM	(30°-60°)	1688.1	27.3			
FH	(60°-80°)	1967.4	31.8			G2/5000
FVH	(80°-90°)	74.9	1.2			G1/100
BL	(0°-30°)	199.8	3.2	B1/500		
BM	(30°-60°)	202.6	3.3	B0/220		
BH	(60°-80°)	180.4	2.9	B1/500		G1/500
BVH	(80°-90°)	6.5	0.1			G0/10
UL	(90°-100°)	4.7	0.1		U1/10	
UH	(100°-180°)	713.1	11.5		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°	1260.4	1260.4	1260.4	1260.4	1260.4	1260.4	1260.4	1260.4	1260.4	1260.4	1260.4
2.5°	1322.9	1321.2	1317.9	1311.1	1307.7	1311.1	1307.7	1302.7	1295.9	1301.0	1297.6
5°	1319.6	1322.9	1316.2	1311.1	1319.6	1322.9	1316.2	1316.2	1309.4	1316.2	1312.8
7.5°	1253.7	1255.4	1257.0	1255.4	1277.3	1277.3	1273.9	1277.3	1279.0	1282.4	1284.1
10°	1170.9	1172.6	1175.9	1181.0	1208.0	1211.4	1213.1	1216.5	1221.6	1224.9	1235.1
12.5°	1088.1	1091.5	1098.2	1115.1	1143.8	1147.2	1152.3	1157.4	1165.8	1170.9	1189.5
15°	1018.8	1020.5	1027.3	1045.8	1088.1	1096.5	1099.9	1106.7	1123.6	1123.6	1143.8
17.5°	954.6	958.0	963.1	985.0	1027.3	1040.8	1050.9	1054.3	1076.3	1081.3	1105.0
20°	905.6	907.3	909.0	929.3	968.1	988.4	996.8	1010.4	1027.3	1040.8	1061.1
22.5°	878.6	880.3	876.9	885.3	919.1	944.5	954.6	968.1	974.9	998.5	1010.4
25°	880.3	882.0	873.5	868.4	885.3	912.4	920.8	934.3	931.0	964.7	964.7
27.5°	897.2	900.5	892.1	876.9	878.6	900.5	905.6	910.7	900.5	934.3	927.6
30°	931.0	934.3	924.2	912.4	893.8	907.3	907.3	907.3	888.7	917.4	905.6
32.5°	966.4	969.8	966.4	958.0	934.3	937.7	931.0	927.6	902.2	925.9	907.3
35°	1018.8	1020.5	1022.2	1022.2	988.4	995.2	976.6	966.4	942.8	961.4	936.0
37.5°	1081.3	1081.3	1093.2	1098.2	1061.1	1061.1	1040.8	1027.3	1005.3	1012.1	986.7
40°	1137.1	1142.2	1169.2	1184.4	1150.6	1137.1	1120.2	1108.4	1091.5	1091.5	1066.1
42.5°	1201.3	1211.4	1243.5	1272.2	1253.7	1233.4	1216.5	1204.7	1196.2	1194.5	1167.5
45°	1280.7	1292.5	1328.0	1355.0	1360.1	1344.9	1331.4	1319.6	1312.8	1309.4	1285.8
47.5°	1370.2	1382.1	1414.2	1446.3	1469.9	1466.5	1451.3	1439.5	1444.6	1441.2	1426.0
50°	1469.9	1476.7	1497.0	1534.1	1588.2	1600.0	1596.6	1588.2	1598.3	1598.3	1584.8
52.5°	1549.3	1554.4	1569.6	1613.5	1703.1	1730.1	1752.1	1769.0	1785.9	1796.0	1787.6
55°	1622.0	1622.0	1623.7	1679.4	1812.9	1856.8	1905.8	1941.3	1963.3	2003.8	2020.7
57.5°	1740.3	1731.8	1730.1	1789.3	1944.7	1990.3	2061.3	2112.0	2142.4	2225.2	2223.5
60°	1706.5	1709.8	1770.7	1944.7	2215.0	2255.6	2319.8	2373.8	2431.3	2492.1	2497.2
62.5°	1471.6	1480.1	1571.3	1831.5	2387.4	2598.6	2796.2	2946.6	3031.1	3085.2	3010.8
65°	1030.6	1050.9	1174.3	1491.9	2198.1	2524.2	2836.8	3184.8	3451.8	3865.7	3985.7
67.5°	513.6	528.8	549.1	782.3	1642.3	2100.1	2531.0	3005.7	3360.6	3968.8	4308.4
70°	368.3	375.1	390.3	439.3	735.0	1099.9	1606.8	2286.0	2703.3	3620.8	4100.6
72.5°	285.5	292.3	312.6	381.8	486.6	537.3	638.7	1044.2	1552.7	2500.6	3149.4
75°	221.3	231.5	260.2	344.7	468.0	496.7	501.8	539.0	615.0	1110.0	1765.6
77.5°	155.4	157.1	185.9	297.4	454.5	510.3	501.8	501.8	511.9	566.0	755.2
80°	103.1	104.8	123.3	206.1	398.7	464.6	513.6	490.0	491.7	500.1	513.6
82.5°	54.1	57.4	72.7	125.0	233.2	314.3	427.5	446.0	439.3	447.7	444.4
85°	15.2	15.2	25.3	47.3	114.9	121.6	189.2	258.5	263.6	299.1	319.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.1	6.8	15.2	16.9
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°	1260.4	1260.4	1260.4	1260.4	1260.4	1260.4	1260.4	1260.4	1260.4	1260.4	1260.4
2.5°	1301.0	1294.2	1292.5	1289.1	1290.8	1285.8	1284.1	1277.3	1277.3	1273.9	1270.6
5°	1309.4	1302.7	1309.4	1297.6	1299.3	1294.2	1285.8	1285.8	1279.0	1273.9	1263.8
7.5°	1285.8	1285.8	1287.5	1280.7	1282.4	1280.7	1270.6	1268.9	1258.7	1258.7	1246.9
10°	1241.8	1241.8	1248.6	1243.5	1245.2	1243.5	1238.5	1236.8	1233.4	1233.4	1214.8
12.5°	1191.1	1201.3	1211.4	1206.4	1206.4	1209.7	1209.7	1211.4	1209.7	1208.0	1192.8
15°	1148.9	1164.1	1174.3	1172.6	1174.3	1182.7	1186.1	1187.8	1192.8	1191.1	1177.6
17.5°	1110.0	1126.9	1135.4	1142.2	1147.2	1154.0	1164.1	1169.2	1175.9	1174.3	1160.7
20°	1074.6	1089.8	1105.0	1113.4	1115.1	1128.6	1140.5	1155.7	1159.0	1162.4	1145.5
22.5°	1037.4	1050.9	1081.3	1076.3	1088.1	1113.4	1120.2	1142.2	1142.2	1154.0	1130.3
25°	1005.3	1007.0	1054.3	1045.8	1056.0	1101.6	1106.7	1145.5	1135.4	1152.3	1125.3
27.5°	973.2	971.5	1028.9	1018.8	1030.6	1093.2	1096.5	1150.6	1140.5	1160.7	1125.3
30°	949.5	944.5	1010.4	990.1	1007.0	1084.7	1086.4	1155.7	1147.2	1174.3	1137.1
32.5°	944.5	936.0	993.5	978.3	995.2	1076.3	1086.4	1174.3	1164.1	1197.9	1150.6
35°	966.4	952.9	1001.9	988.4	1001.9	1079.6	1094.8	1203.0	1191.1	1230.0	1182.7
37.5°	1007.0	996.8	1037.4	1023.9	1034.0	1103.3	1116.8	1240.1	1238.5	1285.8	1231.7
40°	1077.9	1067.8	1099.9	1081.3	1089.8	1154.0	1160.7	1292.5	1297.6	1355.0	1301.0
42.5°	1174.3	1157.4	1182.7	1160.7	1172.6	1230.0	1223.2	1356.7	1371.9	1451.3	1388.8
45°	1297.6	1275.6	1290.8	1267.2	1275.6	1324.6	1306.0	1442.9	1458.1	1556.1	1500.3
47.5°	1432.8	1405.7	1424.3	1393.9	1399.0	1451.3	1417.6	1546.0	1569.6	1693.0	1638.9
50°	1595.0	1559.5	1566.2	1537.5	1540.9	1593.3	1556.1	1672.7	1701.4	1838.3	1790.9
52.5°	1802.8	1752.1	1752.1	1713.2	1714.9	1767.3	1721.7	1823.0	1855.1	1993.7	1961.6
55°	2076.5	2035.9	2027.5	1986.9	1973.4	1983.6	1919.4	1990.3	2025.8	2155.9	2130.5
57.5°	2294.4	2289.4	2314.7	2257.3	2243.8	2247.1	2166.0	2171.1	2211.6	2313.0	2321.5
60°	2559.7	2568.1	2571.5	2524.2	2519.2	2471.8	2389.1	2375.5	2426.2	2495.5	2522.5
62.5°	2982.1	2973.6	2931.4	2895.9	2863.8	2737.1	2691.5	2617.1	2688.1	2727.0	2782.7
65°	3889.4	3801.5	3531.2	3554.9	3470.4	3195.0	3156.1	3005.7	3117.3	3118.9	3223.7
67.5°	4788.2	4960.6	4795.0	4798.4	4607.5	4109.0	3989.1	3690.0	3752.5	3679.9	3734.0
70°	4942.0	5183.6	5636.4	5555.3	5545.2	5161.6	4757.8	4259.4	4071.9	3916.4	3791.4
72.5°	4252.7	4494.3	5158.3	4974.1	5043.4	5160.0	4739.2	4365.9	3946.8	3749.2	3478.8
75°	2992.2	3340.3	4014.4	3918.1	3968.8	4161.4	3799.8	3755.9	3271.0	3139.2	2723.6
77.5°	1603.4	2034.2	2789.5	2671.2	2693.2	2803.0	2426.2	2348.5	1880.5	1750.4	1279.0
80°	721.4	1000.2	1566.2	1434.4	1395.6	1333.1	981.6	773.8	473.1	314.3	218.0
82.5°	478.1	496.7	694.4	601.5	562.6	464.6	300.7	177.4	140.2	118.3	113.2
85°	321.0	294.0	292.3	258.5	239.9	189.2	140.2	87.9	72.7	60.8	55.8
87.5°	18.6	11.8	16.9	18.6	13.5	11.8	8.4	0.0	1.7	0.0	1.7
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-1000-LED-E1-SL3-7030-ULG

CANDELA DISTRIBUTION (continued):

	77.5°	80°	85°	90°	95°	100°	102.5°	105°	107.5°	110°	112.5°
0°	1260.4	1260.4	1260.4	1260.4	1260.4	1260.4	1260.4	1260.4	1260.4	1260.4	1260.4
2.5°	1262.1	1262.1	1260.4	1248.6	1241.8	1238.5	1226.6	1224.9	1219.9	1218.2	1218.2
5°	1260.4	1253.7	1245.2	1228.3	1211.4	1196.2	1191.1	1179.3	1170.9	1160.7	1160.7
7.5°	1236.8	1230.0	1211.4	1186.1	1164.1	1142.2	1130.3	1113.4	1099.9	1086.4	1083.0
10°	1209.7	1199.6	1174.3	1140.5	1111.7	1072.9	1057.7	1035.7	1020.5	1000.2	980.0
12.5°	1181.0	1174.3	1143.8	1105.0	1061.1	1012.1	988.4	958.0	937.7	914.1	883.6
15°	1169.2	1155.7	1116.8	1067.8	1013.7	954.6	920.8	888.7	858.3	831.3	790.7
17.5°	1154.0	1137.1	1093.2	1035.7	968.1	897.2	853.2	817.8	777.2	748.5	702.9
20°	1137.1	1111.7	1064.4	995.2	919.1	834.6	778.9	743.4	689.3	660.6	606.6
22.5°	1123.6	1091.5	1034.0	956.3	865.1	770.4	704.6	664.0	603.2	569.4	501.8
25°	1120.2	1081.3	1012.1	924.2	819.4	707.9	628.5	588.0	511.9	473.1	393.7
27.5°	1121.9	1076.3	998.5	897.2	778.9	652.2	557.6	510.3	413.9	373.4	282.2
30°	1123.6	1077.9	985.0	873.5	741.7	594.7	483.2	427.5	312.6	277.1	196.0
32.5°	1140.5	1084.7	981.6	854.9	707.9	537.3	398.7	348.1	221.3	201.1	145.3
35°	1160.7	1106.7	988.4	851.5	682.6	479.8	312.6	260.2	158.8	153.8	118.3
37.5°	1203.0	1140.5	1015.4	860.0	667.4	420.7	233.2	199.4	125.0	128.4	103.1
40°	1267.2	1197.9	1059.4	885.3	665.7	361.6	172.3	155.4	108.1	111.5	94.6
42.5°	1353.3	1277.3	1126.9	939.4	674.1	305.8	138.5	133.5	99.7	103.1	91.2
45°	1466.5	1388.8	1221.6	1008.7	697.8	260.2	121.6	121.6	96.3	99.7	89.5
47.5°	1610.2	1524.0	1338.1	1101.6	735.0	234.9	114.9	116.6	94.6	99.7	89.5
50°	1772.4	1677.7	1486.8	1221.6	792.4	228.1	116.6	116.6	96.3	99.7	89.5
52.5°	1941.3	1853.5	1647.3	1358.4	871.8	243.3	120.0	118.3	96.3	99.7	87.9
55°	2113.7	2034.2	1824.7	1518.9	981.6	297.4	128.4	123.3	96.3	99.7	89.5
57.5°	2286.0	2230.2	2010.6	1691.3	1118.5	395.4	162.2	143.6	106.4	108.1	91.2
60°	2480.3	2439.7	2220.1	1917.7	1312.8	547.4	238.2	180.8	126.7	120.0	98.0
62.5°	2732.0	2721.9	2547.9	2243.8	1625.4	767.1	337.9	219.6	136.9	125.0	104.8
65°	3176.4	3203.4	3037.8	2625.6	1833.2	772.1	329.5	192.6	128.4	118.3	103.1
67.5°	3622.4	3543.0	3117.3	2568.1	1654.1	513.6	209.5	150.4	113.2	109.8	96.3
70°	3605.5	3389.3	2826.7	2245.4	1306.0	278.8	152.1	125.0	101.4	101.4	91.2
72.5°	3233.8	2912.8	2311.3	1777.4	871.8	177.4	128.4	109.8	92.9	91.2	84.5
75°	2434.7	2056.2	1485.1	1023.9	388.6	114.9	98.0	89.5	81.1	81.1	74.3
77.5°	1145.5	645.4	358.2	238.2	130.1	77.7	67.6	67.6	65.9	67.6	60.8
80°	155.4	140.2	120.0	104.8	79.4	54.1	49.0	50.7	49.0	50.7	45.6
82.5°	94.6	84.5	69.3	65.9	49.0	37.2	35.5	37.2	33.8	35.5	27.0
85°	45.6	40.5	32.1	30.4	25.3	22.0	18.6	22.0	16.9	18.6	11.8
87.5°	0.0	3.4	1.7	3.4	3.4	3.4	0.0	3.4	0.0	3.4	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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DISTRIBUTION (continued):

CANDELA DISTRIBUTION

115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°	155°	165°	115°	115°
1260.4	1260.4	1260.4	1260.4	1260.4	1260.4	1260.4	1260.4	1260.4	1260.4	1260.4	112.5°	136.0
1209.7	1204.7	1203.0	1196.2	1194.5	1187.8	1186.1	1179.3	1167.5	1162.4	1154.0	115°	158.0
1145.5	1137.1	1130.3	1126.9	1113.4	1106.7	1096.5	1083.0	1057.7	1045.8	1025.6	117.5°	181.0
1056.0	1054.3	1034.0	1027.3	1010.4	998.5	983.3	961.4	924.2	902.2	870.1	120°	204.0
958.0	951.2	927.6	914.1	892.1	875.2	854.9	822.8	765.4	719.8	670.8	122.5°	228.0
866.8	846.5	819.4	799.2	772.1	748.5	724.8	675.8	584.6	510.3	442.7	125°	254.0
772.1	741.7	713.0	679.2	650.5	613.3	586.3	522.1	402.1	310.9	268.6	127.5°	277.0
675.8	633.6	601.5	555.9	523.8	473.1	444.4	366.6	263.6	223.0	209.5	130°	301.0
574.5	518.7	483.2	427.5	395.4	331.2	309.2	253.4	202.7	187.5	184.2	132.5°	325.0
466.3	398.7	359.9	299.1	277.1	238.2	221.3	194.3	170.6	163.9	167.3	135°	348.0
353.1	280.5	255.1	211.2	202.7	182.5	175.7	162.2	150.4	150.4	155.4	137.5°	369.0
251.7	196.0	189.2	162.2	160.5	150.4	145.3	138.5	135.2	138.5	145.3	140°	390.0
184.2	148.7	148.7	133.5	133.5	126.7	125.0	121.6	121.6	128.4	135.2	142.5°	412.0
145.3	121.6	125.0	113.2	114.9	109.8	111.5	109.8	111.5	116.6	121.6	145°	433.0
121.6	104.8	109.8	99.7	103.1	98.0	101.4	101.4	104.8	106.4	108.1	147.5°	452.0
108.1	96.3	99.7	92.9	96.3	91.2	96.3	96.3	98.0	98.0	98.0	150°	469.0
99.7	89.5	94.6	87.9	92.9	87.9	92.9	92.9	91.2	89.5	91.2	152.5°	486.0
94.6	87.9	92.9	86.2	91.2	86.2	89.5	87.9	84.5	84.5	84.5	155°	503.0
92.9	86.2	89.5	84.5	87.9	82.8	86.2	84.5	79.4	77.7	81.1	157.5°	517.0
92.9	84.5	89.5	82.8	86.2	81.1	84.5	79.4	74.3	74.3	79.4	160°	530.0
92.9	84.5	89.5	82.8	86.2	79.4	81.1	76.0	69.3	71.0	77.7	162.5°	540.0
94.6	87.9	91.2	84.5	86.2	76.0	79.4	72.7	67.6	69.3	74.3	165°	550.0
96.3	87.9	91.2	81.1	82.8	76.0	76.0	72.7	67.6	67.6	72.7	167.5°	558.0
96.3	86.2	87.9	79.4	81.1	72.7	74.3	71.0	65.9	64.2	67.6	170°	564.0
99.7	89.5	89.5	77.7	79.4	71.0	72.7	69.3	64.2	60.8	62.5	172.5°	567.0
103.1	91.2	92.9	81.1	81.1	72.7	74.3	67.6	60.8	57.4	59.1	175°	570.0
103.1	91.2	92.9	82.8	82.8	74.3	74.3	67.6	57.4	54.1	54.1	177.5°	574.0
98.0	89.5	91.2	82.8	82.8	74.3	74.3	65.9	55.8	50.7	49.0	180°	576.0
94.6	86.2	87.9	77.7	79.4	71.0	72.7	69.3	64.2	60.8	62.5		
86.2	79.4	79.4	72.7	71.0	62.5	62.5	57.4	49.0	42.2	38.9		
74.3	67.6	65.9	59.1	59.1	54.1	52.4	47.3	40.5	35.5	33.8		
60.8	52.4	52.4	43.9	43.9	38.9	40.5	35.5	30.4	28.7	27.0		
43.9	35.5	35.5	28.7	28.7	23.7	25.3	23.7	22.0	22.0	20.3		
27.0	18.6	20.3	15.2	18.6	13.5	15.2	13.5	13.5	11.8	11.8		
13.5	6.8	10.1	5.1	8.4	1.7	5.1	3.4	3.4	3.4	3.4		
1.7	0.0	1.7	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		

'228209
 ISS-AF-1000-LED-E1-SL3-7030-ULG

REPORT NUMBER: P228209
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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°	1260.4	1260.4
158.0	158.0	158.0	158.0	157.5	157.0	156.0	154.0	151.0	149.0	2.5°	1145.5	1150.6
180.8	180.5	180.2	180.0	179.8	179.5	179.0	177.0	174.0	172.0	5°	1018.8	1020.5
204.0	204.0	204.0	204.0	203.5	203.0	202.0	201.0	198.0	196.0	7.5°	865.1	861.7
228.0	228.0	228.0	228.0	227.8	227.5	227.0	226.0	223.0	221.0	10°	660.6	652.2
253.8	253.5	253.2	253.0	252.8	252.5	252.0	251.0	248.0	247.0	12.5°	425.8	413.9
277.2	277.5	277.8	278.0	277.5	277.0	276.0	274.0	272.0	270.0	15°	256.8	253.4
301.0	301.0	301.0	301.0	300.5	300.0	299.0	298.0	294.0	293.0	17.5°	206.1	206.1
325.0	325.0	325.0	325.0	324.2	323.5	322.0	321.0	318.0	317.0	20°	184.2	184.2
348.0	348.0	348.0	348.0	347.2	346.5	345.0	345.0	341.0	339.0	22.5°	170.6	170.6
369.0	369.0	369.0	369.0	368.5	368.0	367.0	367.0	364.0	363.0	25°	160.5	162.2
390.0	390.0	390.0	390.0	389.8	389.5	389.0	388.0	386.0	385.0	27.5°	152.1	152.1
412.0	412.0	412.0	412.0	411.5	411.0	410.0	410.0	407.0	408.0	30°	141.9	141.9
433.2	433.5	433.8	434.0	433.5	433.0	432.0	431.0	428.0	428.0	32.5°	125.0	125.0
452.5	453.0	453.5	454.0	453.8	453.5	453.0	452.0	448.0	447.0	35°	111.5	109.8
469.5	470.0	470.5	471.0	470.8	470.5	470.0	469.0	465.0	464.0	37.5°	99.7	101.4
486.2	486.5	486.8	487.0	486.8	486.5	486.0	485.0	482.0	483.0	40°	91.2	92.9
503.2	503.5	503.8	504.0	503.8	503.5	503.0	503.0	501.0	502.0	42.5°	87.9	87.9
517.5	518.0	518.5	519.0	519.0	519.0	519.0	519.0	516.0	517.0	45°	84.5	84.5
530.5	531.0	531.5	532.0	532.0	532.0	532.0	532.0	529.0	529.0	47.5°	84.5	84.5
540.5	541.0	541.5	542.0	541.8	541.5	541.0	541.0	538.0	539.0	50°	82.8	84.5
550.8	551.5	552.2	553.0	552.8	552.5	552.0	552.0	548.0	549.0	52.5°	81.1	81.1
558.5	559.0	559.5	560.0	560.0	560.0	560.0	561.0	558.0	559.0	55°	76.0	77.7
564.2	564.5	564.8	565.0	565.2	565.5	566.0	567.0	565.0	566.0	57.5°	71.0	72.7
567.5	568.0	568.5	569.0	568.8	568.5	568.0	569.0	567.0	569.0	60°	65.9	65.9
570.8	571.5	572.2	573.0	572.8	572.5	572.0	572.0	569.0	570.0	62.5°	59.1	59.1
574.8	575.5	576.2	577.0	577.0	577.0	577.0	578.0	574.0	575.0	65°	54.1	54.1
576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	67.5°	47.3	47.3
										70°	42.2	42.2
										72.5°	37.2	37.2
										75°	32.1	32.1
										77.5°	27.0	25.3
										80°	20.3	20.3
										82.5°	11.8	11.8
										85°	3.4	3.4
										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

