

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: P228204

Luminaire Tested: **ISS-AF-1200-LED-E1-SL3-7030-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P228204
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-1200-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: 6846.2 lumens
Efficiency: N/A
Efficacy: 82.8 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

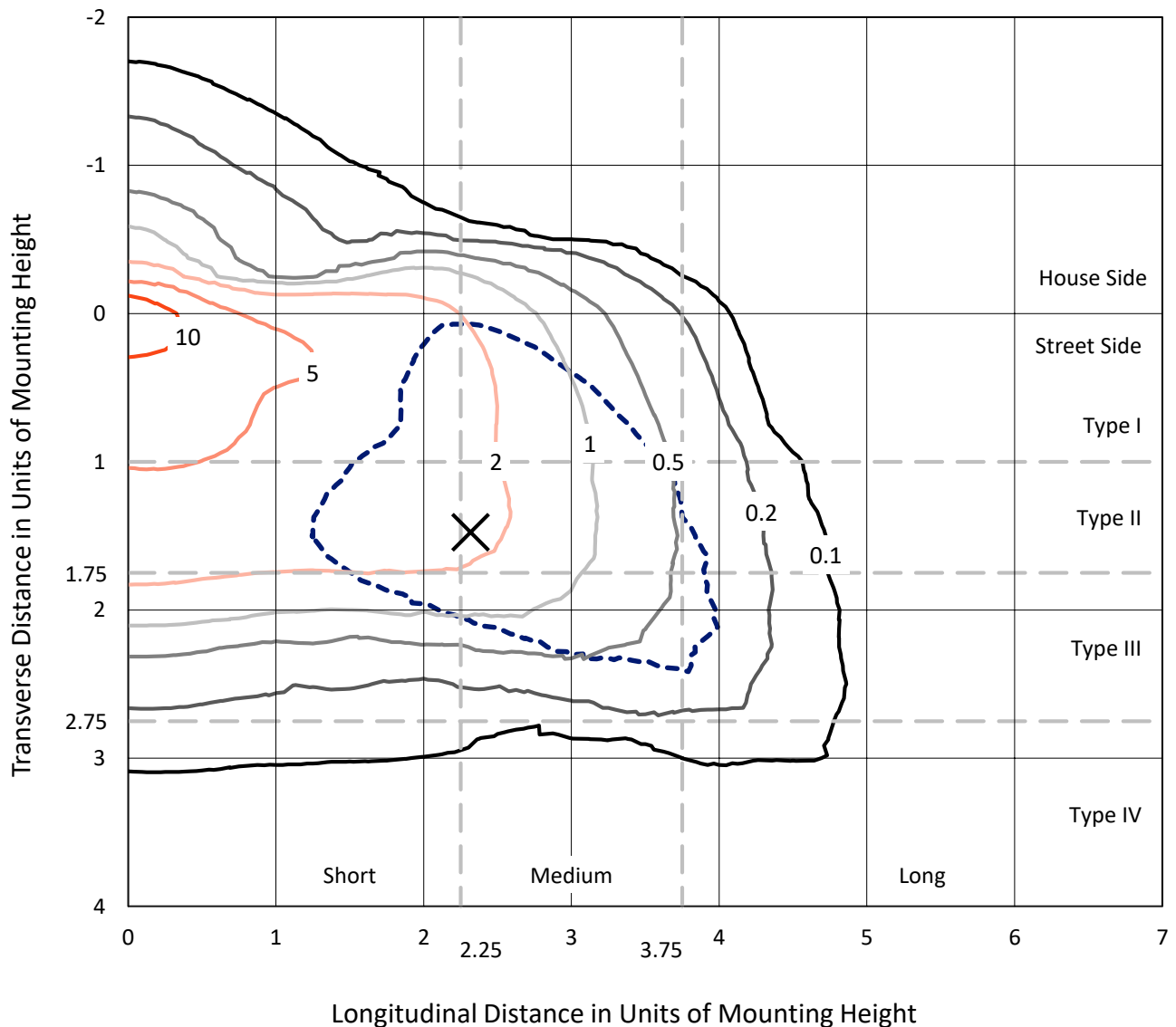
Input Watts (W): 82.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

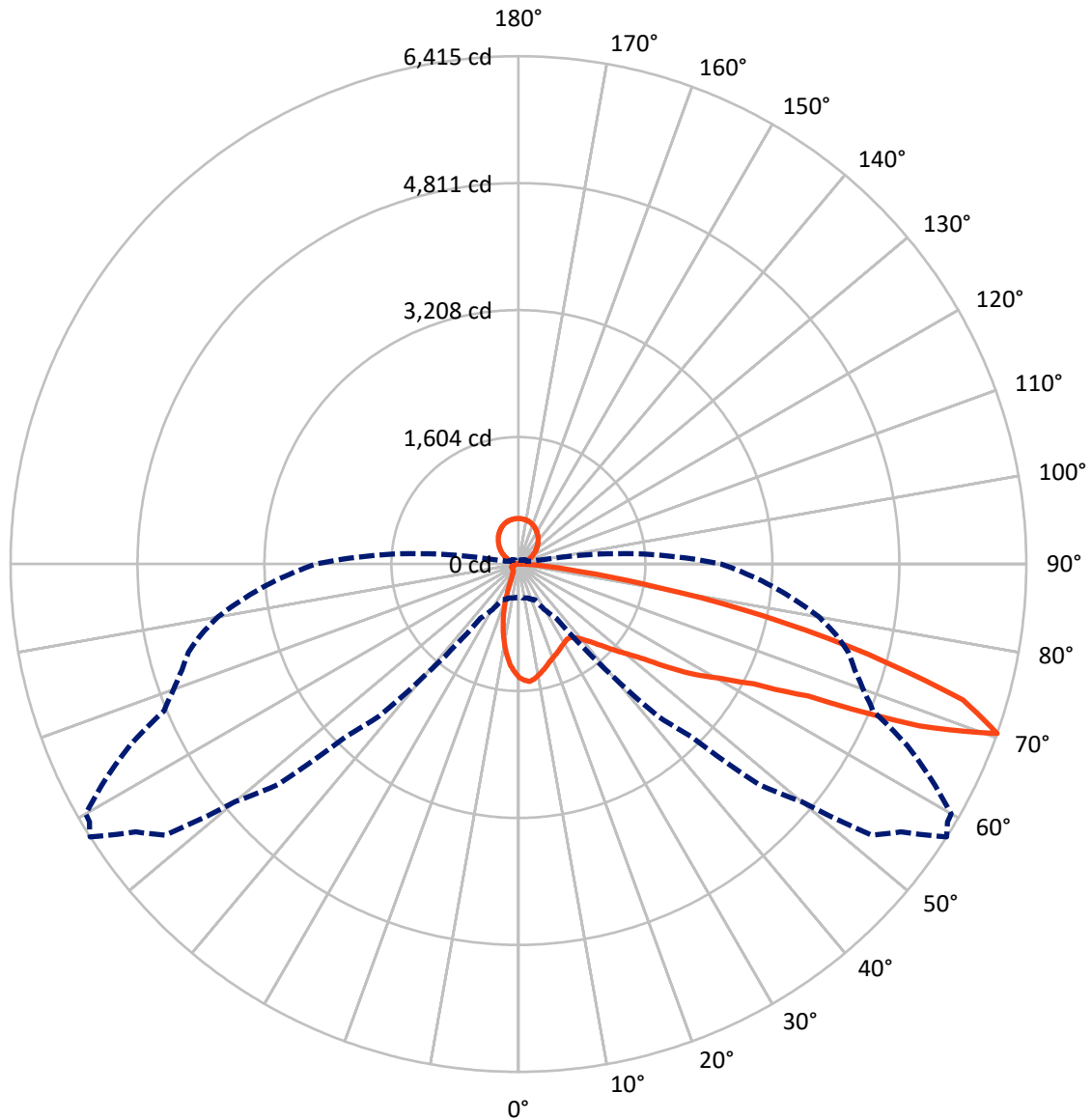


Based on 10 foot mounting height. Maximum calculated value = 14.3 fc
 Type III - Medium - Non-Cutoff

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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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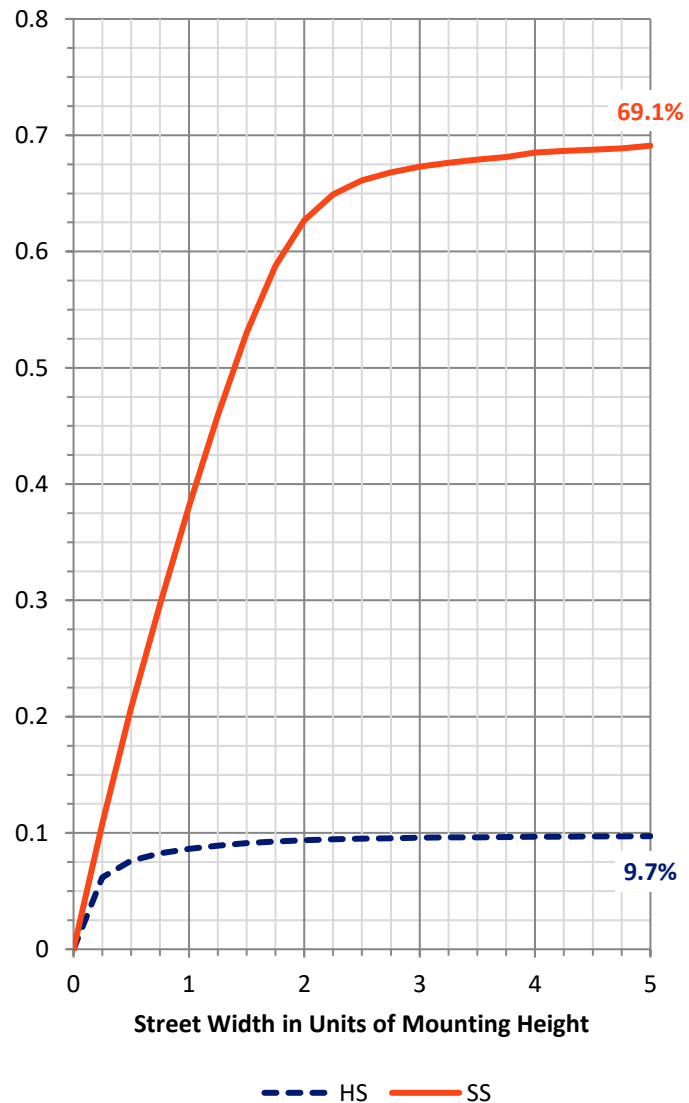
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	670.7	713.1	1383.8
	% Fixture	9.8	10.4	20.2
Street Side	Lumens	4749.3	713.1	5462.4
	% Fixture	69.4	10.4	79.8
Total	Lumens	5420.0	1426.2	6846.2
	% Fixture	79.2	20.8	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.9	1.8
10°-20°	268.9	3.9
20°-30°	338.0	4.9
30°-40°	441.7	6.5
40°-50°	662.7	9.7
50°-60°	1047.6	15.3
60°-70°	1510.0	22.1
70°-80°	934.6	13.7
80°-90°	92.7	1.4
90°-100°	4.7	0.1
100°-110°	69.0	1.0
110°-120°	153.0	2.2
120°-130°	223.9	3.3
130°-140°	265.6	3.9
140°-150°	269.3	3.9
150°-160°	231.1	3.4
160°-170°	155.1	2.3
170°-180°	54.3	0.8
0°-90°	5420.0	79.2
0°-180°	6846.2	100.0



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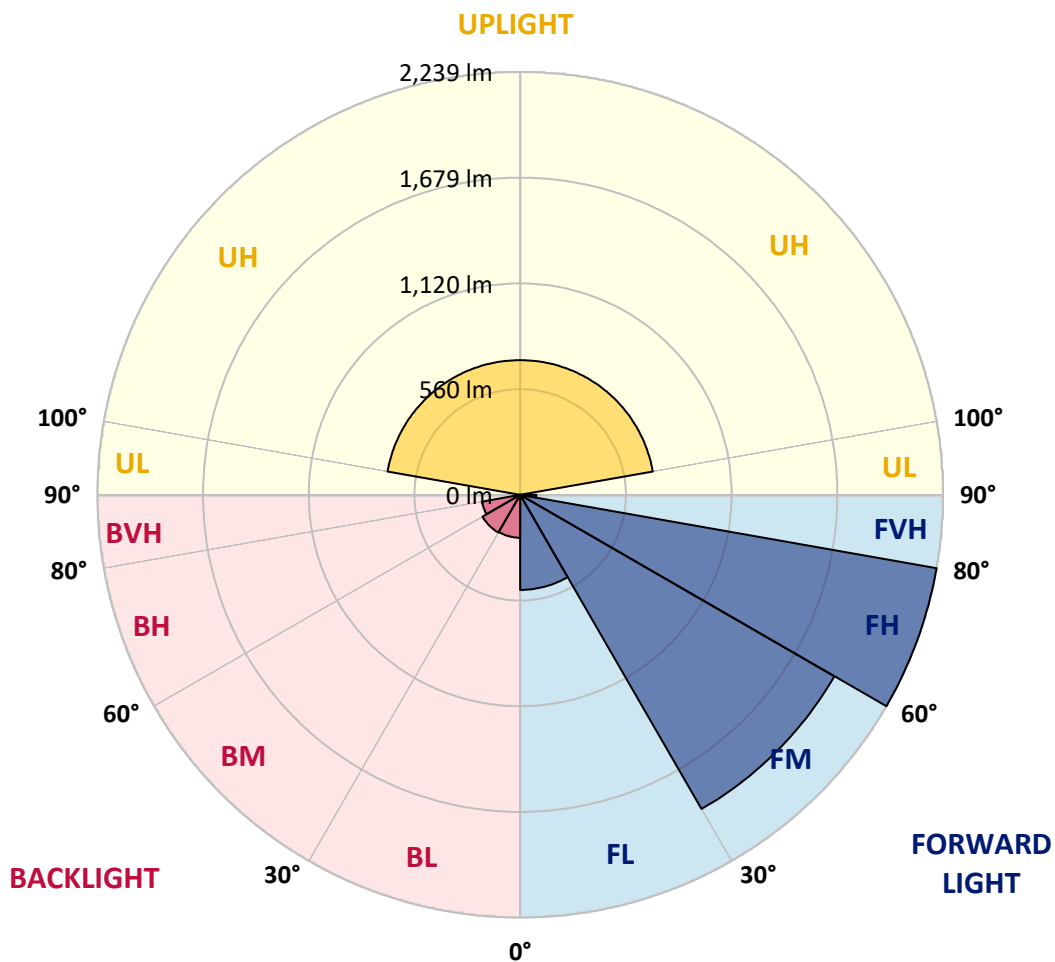
CATALOG NUMBER: ISS-AF-1200-LED-E1-SL3-7030-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	503.4	7.4			
FM (30°-60°)	1921.3	28.1			
FH (60°-80°)	2239.3	32.7			G2/5000
FVH (80°-90°)	85.3	1.2			G1/100
BL (0°-30°)	227.4	3.3	B1/500		
BM (30°-60°)	230.6	3.4	B1/1000		
BH (60°-80°)	205.3	3.0	B1/500		G1/500
BVH (80°-90°)	7.4	0.1			G0/10
UL (90°-100°)	4.7	0.1		U1/10	
UH (100°-180°)	713.1	10.4		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°	1434.6	1434.6	1434.6	1434.6	1434.6	1434.6	1434.6	1434.6	1434.6	1434.6	1434.6
2.5°	1505.7	1503.8	1500.0	1492.3	1488.4	1492.3	1488.4	1482.7	1475.0	1480.7	1476.9
5°	1501.9	1505.7	1498.0	1492.3	1501.9	1505.7	1498.0	1498.0	1490.3	1498.0	1494.2
7.5°	1426.9	1428.8	1430.7	1428.8	1453.8	1453.8	1450.0	1453.8	1455.7	1459.6	1461.5
10°	1332.7	1334.6	1338.4	1344.2	1375.0	1378.8	1380.7	1384.6	1390.4	1394.2	1405.7
12.5°	1238.4	1242.3	1250.0	1269.2	1301.9	1305.7	1311.5	1317.3	1326.9	1332.7	1353.8
15°	1159.6	1161.5	1169.2	1190.4	1238.4	1248.0	1251.9	1259.6	1278.8	1278.8	1301.9
17.5°	1086.5	1090.4	1096.1	1121.1	1169.2	1184.6	1196.1	1200.0	1225.0	1230.7	1257.7
20°	1030.7	1032.7	1034.6	1057.7	1101.9	1125.0	1134.6	1150.0	1169.2	1184.6	1207.7
22.5°	1000.0	1001.9	998.1	1007.7	1046.1	1075.0	1086.5	1101.9	1109.6	1136.5	1150.0
25°	1001.9	1003.8	994.2	988.4	1007.7	1038.4	1048.1	1063.4	1059.6	1098.1	1098.1
27.5°	1021.1	1025.0	1015.4	998.1	1000.0	1025.0	1030.7	1036.5	1025.0	1063.4	1055.7
30°	1059.6	1063.4	1051.9	1038.4	1017.3	1032.7	1032.7	1032.7	1011.5	1044.2	1030.7
32.5°	1100.0	1103.8	1100.0	1090.4	1063.4	1067.3	1059.6	1055.7	1026.9	1053.8	1032.7
35°	1159.6	1161.5	1163.4	1163.4	1125.0	1132.7	1111.5	1100.0	1073.1	1094.2	1065.4
37.5°	1230.7	1230.7	1244.2	1250.0	1207.7	1207.7	1184.6	1169.2	1144.2	1151.9	1123.1
40°	1294.2	1300.0	1330.7	1348.0	1309.6	1294.2	1275.0	1261.5	1242.3	1242.3	1213.4
42.5°	1367.3	1378.8	1415.4	1448.0	1426.9	1403.8	1384.6	1371.1	1361.5	1359.6	1328.8
45°	1457.7	1471.1	1511.5	1542.3	1548.0	1530.7	1515.3	1501.9	1494.2	1490.3	1463.4
47.5°	1559.6	1573.0	1609.6	1646.1	1673.0	1669.2	1651.9	1638.4	1644.2	1640.3	1623.0
50°	1673.0	1680.7	1703.8	1746.1	1807.6	1821.1	1817.3	1807.6	1819.2	1819.2	1803.8
52.5°	1763.4	1769.2	1786.5	1836.5	1938.4	1969.2	1994.2	2013.4	2032.6	2044.2	2034.6
55°	1846.1	1846.1	1848.0	1911.5	2063.4	2113.4	2169.2	2209.6	2234.6	2280.7	2299.9
57.5°	1980.7	1971.1	1969.2	2036.5	2213.4	2265.3	2346.1	2403.8	2438.4	2532.6	2530.7
60°	1942.3	1946.1	2015.3	2213.4	2521.1	2567.2	2640.3	2701.9	2767.2	2836.5	2842.2
62.5°	1675.0	1684.6	1788.4	2084.6	2717.2	2957.6	3182.6	3353.8	3449.9	3511.5	3426.8
65°	1173.0	1196.1	1336.5	1698.0	2501.9	2873.0	3228.8	3624.9	3928.8	4399.9	4536.4
67.5°	584.6	601.9	625.0	890.4	1869.2	2390.3	2880.7	3421.1	3824.9	4517.2	4903.7
70°	419.2	426.9	444.2	500.0	836.5	1251.9	1828.8	2601.9	3076.9	4121.1	4667.2
72.5°	325.0	332.7	355.8	434.6	553.8	611.5	726.9	1188.4	1767.3	2846.1	3584.5
75°	251.9	263.5	296.1	392.3	532.7	565.4	571.1	613.4	700.0	1263.4	2009.6
77.5°	176.9	178.8	211.5	338.5	517.3	580.8	571.1	571.1	582.7	644.2	859.6
80°	117.3	119.2	140.4	234.6	453.8	528.8	584.6	557.7	559.6	569.2	584.6
82.5°	61.5	65.4	82.7	142.3	265.4	357.7	486.5	507.7	500.0	509.6	505.8
85°	17.3	17.3	28.8	53.8	130.8	138.5	215.4	294.2	300.0	340.4	363.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8	7.7	17.3	19.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
97.5°	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°	1434.6	1434.6	1434.6	1434.6	1434.6	1434.6	1434.6	1434.6	1434.6	1434.6	1434.6
2.5°	1480.7	1473.0	1471.1	1467.3	1469.2	1463.4	1461.5	1453.8	1453.8	1450.0	1446.1
5°	1490.3	1482.7	1490.3	1476.9	1478.8	1473.0	1463.4	1463.4	1455.7	1450.0	1438.4
7.5°	1463.4	1463.4	1465.4	1457.7	1459.6	1457.7	1446.1	1444.2	1432.7	1432.7	1419.2
10°	1413.4	1413.4	1421.1	1415.4	1417.3	1415.4	1409.6	1407.7	1403.8	1403.8	1382.7
12.5°	1355.7	1367.3	1378.8	1373.0	1373.0	1376.9	1376.9	1378.8	1376.9	1375.0	1357.7
15°	1307.7	1325.0	1336.5	1334.6	1336.5	1346.1	1350.0	1351.9	1357.7	1355.7	1340.4
17.5°	1263.4	1282.7	1292.3	1300.0	1305.7	1313.4	1325.0	1330.7	1338.4	1336.5	1321.1
20°	1223.0	1240.4	1257.7	1267.3	1269.2	1284.6	1298.0	1315.4	1319.2	1323.0	1303.8
22.5°	1180.7	1196.1	1230.7	1225.0	1238.4	1267.3	1275.0	1300.0	1300.0	1313.4	1286.5
25°	1144.2	1146.1	1200.0	1190.4	1201.9	1253.8	1259.6	1303.8	1292.3	1311.5	1280.7
27.5°	1107.7	1105.7	1171.1	1159.6	1173.0	1244.2	1248.0	1309.6	1298.0	1321.1	1280.7
30°	1080.7	1075.0	1150.0	1126.9	1146.1	1234.6	1236.5	1315.4	1305.7	1336.5	1294.2
32.5°	1075.0	1065.4	1130.7	1113.4	1132.7	1225.0	1236.5	1336.5	1325.0	1363.4	1309.6
35°	1100.0	1084.6	1140.4	1125.0	1140.4	1228.8	1246.1	1369.2	1355.7	1400.0	1346.1
37.5°	1146.1	1134.6	1180.7	1165.4	1176.9	1255.7	1271.1	1411.5	1409.6	1463.4	1401.9
40°	1226.9	1215.4	1251.9	1230.7	1240.4	1313.4	1321.1	1471.1	1476.9	1542.3	1480.7
42.5°	1336.5	1317.3	1346.1	1321.1	1334.6	1400.0	1392.3	1544.2	1561.5	1651.9	1580.7
45°	1476.9	1451.9	1469.2	1442.3	1451.9	1507.7	1486.5	1642.3	1659.6	1771.1	1707.7
47.5°	1630.7	1600.0	1621.1	1586.5	1592.3	1651.9	1613.4	1759.6	1786.5	1926.9	1865.3
50°	1815.3	1775.0	1782.7	1750.0	1753.8	1813.4	1771.1	1903.8	1936.5	2092.3	2038.4
52.5°	2051.9	1994.2	1994.2	1950.0	1951.9	2011.5	1959.6	2075.0	2111.5	2269.2	2232.6
55°	2363.4	2317.3	2307.6	2261.5	2246.1	2257.6	2184.6	2265.3	2305.7	2453.8	2424.9
57.5°	2611.5	2605.7	2634.6	2569.2	2553.8	2557.6	2465.3	2471.1	2517.2	2632.6	2642.2
60°	2913.4	2923.0	2926.9	2873.0	2867.2	2813.4	2719.2	2703.8	2761.5	2840.3	2871.1
62.5°	3394.2	3384.5	3336.5	3296.1	3259.5	3115.3	3063.4	2978.8	3059.5	3103.8	3167.2
65°	4426.8	4326.8	4019.1	4046.1	3949.9	3636.5	3592.2	3421.1	3548.0	3549.9	3669.1
67.5°	5449.9	5646.0	5457.6	5461.4	5244.1	4676.8	4540.3	4199.9	4271.1	4188.4	4249.9
70°	5624.9	5899.9	6415.2	6322.9	6311.4	5874.9	5415.3	4848.0	4634.5	4457.6	4315.3
72.5°	4840.3	5115.3	5871.0	5661.4	5740.3	5872.9	5394.1	4969.1	4492.2	4267.2	3959.5
75°	3405.7	3801.8	4569.1	4459.5	4517.2	4736.4	4324.9	4274.9	3723.0	3573.0	3099.9
77.5°	1825.0	2315.3	3174.9	3040.3	3065.3	3190.3	2761.5	2673.0	2140.3	1992.3	1455.7
80°	821.1	1138.4	1782.7	1632.7	1588.4	1517.3	1117.3	880.7	538.4	357.7	248.1
82.5°	544.2	565.4	790.4	684.6	640.4	528.8	342.3	201.9	159.6	134.6	128.8
85°	365.4	334.6	332.7	294.2	273.1	215.4	159.6	100.0	82.7	69.2	63.5
87.5°	21.2	13.5	19.2	21.2	15.4	13.5	9.6	0.0	1.9	0.0	1.9
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°	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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CATALOG NUMBER: ISS-AF-1200-LED-E1-SL3-7030-ULG

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-1200-LED-E1-SL3-7030-ULG

CANDELA DISTRIBUTION (continued):

	77.5°	80°	85°	90°	95°	100°	102.5°	105°	107.5°	110°	112.5°
0°	1434.6	1434.6	1434.6	1434.6	1434.6	1434.6	1434.6	1434.6	1434.6	1434.6	1434.6
2.5°	1436.5	1436.5	1434.6	1421.1	1413.4	1409.6	1396.1	1394.2	1388.4	1386.5	1386.5
5°	1434.6	1426.9	1417.3	1398.0	1378.8	1361.5	1355.7	1342.3	1332.7	1321.1	1321.1
7.5°	1407.7	1400.0	1378.8	1350.0	1325.0	1300.0	1286.5	1267.3	1251.9	1236.5	1232.7
10°	1376.9	1365.4	1336.5	1298.0	1265.4	1221.1	1203.8	1178.8	1161.5	1138.4	1115.4
12.5°	1344.2	1336.5	1301.9	1257.7	1207.7	1151.9	1125.0	1090.4	1067.3	1040.4	1005.7
15°	1330.7	1315.4	1271.1	1215.4	1153.8	1086.5	1048.1	1011.5	976.9	946.1	900.0
17.5°	1313.4	1294.2	1244.2	1178.8	1101.9	1021.1	971.1	930.7	884.6	851.9	800.0
20°	1294.2	1265.4	1211.5	1132.7	1046.1	950.0	886.5	846.1	784.6	751.9	690.4
22.5°	1278.8	1242.3	1176.9	1088.4	984.6	876.9	801.9	755.8	686.5	648.1	571.1
25°	1275.0	1230.7	1151.9	1051.9	932.7	805.8	715.4	669.2	582.7	538.4	448.1
27.5°	1276.9	1225.0	1136.5	1021.1	886.5	742.3	634.6	580.8	471.1	425.0	321.1
30°	1278.8	1226.9	1121.1	994.2	844.2	676.9	550.0	486.5	355.8	315.4	223.1
32.5°	1298.0	1234.6	1117.3	973.1	805.8	611.5	453.8	396.1	251.9	228.8	165.4
35°	1321.1	1259.6	1125.0	969.2	776.9	546.1	355.8	296.1	180.8	175.0	134.6
37.5°	1369.2	1298.0	1155.7	978.8	759.6	478.8	265.4	226.9	142.3	146.2	117.3
40°	1442.3	1363.4	1205.7	1007.7	757.7	411.5	196.1	176.9	123.1	126.9	107.7
42.5°	1540.3	1453.8	1282.7	1069.2	767.3	348.1	157.7	151.9	113.5	117.3	103.8
45°	1669.2	1580.7	1390.4	1148.1	794.2	296.1	138.5	138.5	109.6	113.5	101.9
47.5°	1832.6	1734.6	1523.0	1253.8	836.5	267.3	130.8	132.7	107.7	113.5	101.9
50°	2017.3	1909.6	1692.3	1390.4	901.9	259.6	132.7	132.7	109.6	113.5	101.9
52.5°	2209.6	2109.6	1875.0	1546.1	992.3	276.9	136.5	134.6	109.6	113.5	100.0
55°	2405.7	2315.3	2076.9	1728.8	1117.3	338.5	146.2	140.4	109.6	113.5	101.9
57.5°	2601.9	2538.4	2288.4	1925.0	1273.0	450.0	184.6	163.5	121.2	123.1	103.8
60°	2823.0	2776.9	2526.9	2182.6	1494.2	623.1	271.1	205.8	144.2	136.5	111.5
62.5°	3109.5	3098.0	2899.9	2553.8	1850.0	873.1	384.6	250.0	155.8	142.3	119.2
65°	3615.3	3646.1	3457.6	2988.4	2086.5	878.8	375.0	219.2	146.2	134.6	117.3
67.5°	4123.0	4032.6	3548.0	2923.0	1882.6	584.6	238.5	171.1	128.8	125.0	109.6
70°	4103.8	3857.6	3217.2	2555.7	1486.5	317.3	173.1	142.3	115.4	115.4	103.8
72.5°	3680.7	3315.3	2630.7	2023.0	992.3	201.9	146.2	125.0	105.8	103.8	96.2
75°	2771.1	2340.3	1690.3	1165.4	442.3	130.8	111.5	101.9	92.3	92.3	84.6
77.5°	1303.8	734.6	407.7	271.1	148.1	88.5	76.9	76.9	75.0	76.9	69.2
80°	176.9	159.6	136.5	119.2	90.4	61.5	55.8	57.7	55.8	57.7	51.9
82.5°	107.7	96.2	78.8	75.0	55.8	42.3	40.4	42.3	38.5	40.4	30.8
85°	51.9	46.2	36.5	34.6	28.8	25.0	21.2	25.0	19.2	21.2	13.5
87.5°	0.0	3.8	1.9	3.8	3.8	3.8	0.0	3.8	0.0	3.8	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
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°
1434.6	1434.6	1434.6	1434.6	1434.6	1434.6	1434.6	1434.6	1434.6	1434.6	1434.6	112.5°	136.0
1376.9	1371.1	1369.2	1361.5	1359.6	1351.9	1350.0	1342.3	1328.8	1323.0	1313.4	115°	158.0
1303.8	1294.2	1286.5	1282.7	1267.3	1259.6	1248.0	1232.7	1203.8	1190.4	1167.3	117.5°	181.0
1201.9	1200.0	1176.9	1169.2	1150.0	1136.5	1119.2	1094.2	1051.9	1026.9	990.4	120°	204.0
1090.4	1082.7	1055.7	1040.4	1015.4	996.1	973.1	936.5	871.1	819.2	763.4	122.5°	228.0
986.5	963.4	932.7	909.6	878.8	851.9	825.0	769.2	665.4	580.8	503.8	125°	254.0
878.8	844.2	811.5	773.1	740.4	698.1	667.3	594.2	457.7	353.8	305.8	127.5°	277.0
769.2	721.1	684.6	632.7	596.1	538.4	505.8	417.3	300.0	253.8	238.5	130°	301.0
653.8	590.4	550.0	486.5	450.0	376.9	351.9	288.5	230.8	213.5	209.6	132.5°	325.0
530.8	453.8	409.6	340.4	315.4	271.1	251.9	221.1	194.2	186.5	190.4	135°	348.0
401.9	319.2	290.4	240.4	230.8	207.7	200.0	184.6	171.1	171.1	176.9	137.5°	369.0
286.5	223.1	215.4	184.6	182.7	171.1	165.4	157.7	153.8	157.7	165.4	140°	390.0
209.6	169.2	169.2	151.9	151.9	144.2	142.3	138.5	138.5	146.2	153.8	142.5°	412.0
165.4	138.5	142.3	128.8	130.8	125.0	126.9	125.0	126.9	132.7	138.5	145°	433.0
138.5	119.2	125.0	113.5	117.3	111.5	115.4	115.4	119.2	121.2	123.1	147.5°	452.0
123.1	109.6	113.5	105.8	109.6	103.8	109.6	109.6	111.5	111.5	111.5	150°	469.0
113.5	101.9	107.7	100.0	105.8	100.0	105.8	105.8	103.8	101.9	103.8	152.5°	486.0
107.7	100.0	105.8	98.1	103.8	98.1	101.9	100.0	96.2	96.2	96.2	155°	503.0
105.8	98.1	101.9	96.2	100.0	94.2	98.1	96.2	90.4	88.5	92.3	157.5°	517.0
105.8	96.2	101.9	94.2	98.1	92.3	96.2	90.4	84.6	84.6	90.4	160°	530.0
105.8	96.2	101.9	94.2	98.1	90.4	92.3	86.5	78.8	80.8	88.5	162.5°	540.0
107.7	100.0	103.8	96.2	98.1	86.5	90.4	82.7	76.9	78.8	84.6	165°	550.0
109.6	100.0	103.8	92.3	94.2	86.5	86.5	82.7	76.9	76.9	82.7	167.5°	558.0
109.6	98.1	100.0	90.4	92.3	82.7	84.6	80.8	75.0	73.1	76.9	170°	564.0
113.5	101.9	101.9	88.5	90.4	80.8	82.7	78.8	73.1	69.2	71.2	172.5°	567.0
117.3	103.8	105.8	92.3	92.3	82.7	84.6	76.9	69.2	65.4	67.3	175°	570.0
117.3	103.8	105.8	94.2	94.2	84.6	84.6	76.9	65.4	61.5	61.5	177.5°	574.0
111.5	101.9	103.8	94.2	94.2	84.6	84.6	75.0	63.5	57.7	55.8	180°	576.0
107.7	98.1	100.0	88.5	90.4	80.8	80.8	71.2	59.6	53.8	50.0		
98.1	90.4	90.4	82.7	80.8	71.2	71.2	65.4	55.8	48.1	44.2		
84.6	76.9	75.0	67.3	67.3	61.5	59.6	53.8	46.2	40.4	38.5		
69.2	59.6	59.6	50.0	50.0	44.2	46.2	40.4	34.6	32.7	30.8		
50.0	40.4	40.4	32.7	32.7	26.9	28.8	26.9	25.0	25.0	23.1		
30.8	21.2	23.1	17.3	21.2	15.4	17.3	15.4	15.4	13.5	13.5		
15.4	7.7	11.5	5.8	9.6	1.9	5.8	3.8	3.8	3.8	3.8		
1.9	0.0	1.9	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		

'228204
 ISS-AF-1200-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°	1434.6	1434.6
158.0	158.0	158.0	158.0	157.5	157.0	156.0	154.0	151.0	149.0	2.5°	1303.8	1309.6
180.8	180.5	180.2	180.0	179.8	179.5	179.0	177.0	174.0	172.0	5°	1159.6	1161.5
204.0	204.0	204.0	204.0	203.5	203.0	202.0	201.0	198.0	196.0	7.5°	984.6	980.7
228.0	228.0	228.0	228.0	227.8	227.5	227.0	226.0	223.0	221.0	10°	751.9	742.3
253.8	253.5	253.2	253.0	252.8	252.5	252.0	251.0	248.0	247.0	12.5°	484.6	471.1
277.2	277.5	277.8	278.0	277.5	277.0	276.0	274.0	272.0	270.0	15°	292.3	288.5
301.0	301.0	301.0	301.0	300.5	300.0	299.0	298.0	294.0	293.0	17.5°	234.6	234.6
325.0	325.0	325.0	325.0	324.2	323.5	322.0	321.0	318.0	317.0	20°	209.6	209.6
348.0	348.0	348.0	348.0	347.2	346.5	345.0	345.0	341.0	339.0	22.5°	194.2	194.2
369.0	369.0	369.0	369.0	368.5	368.0	367.0	367.0	364.0	363.0	25°	182.7	184.6
390.0	390.0	390.0	390.0	389.8	389.5	389.0	388.0	386.0	385.0	27.5°	173.1	173.1
412.0	412.0	412.0	412.0	411.5	411.0	410.0	410.0	407.0	408.0	30°	161.5	161.5
433.2	433.5	433.8	434.0	433.5	433.0	432.0	431.0	428.0	428.0	32.5°	142.3	142.3
452.5	453.0	453.5	454.0	453.8	453.5	453.0	452.0	448.0	447.0	35°	126.9	125.0
469.5	470.0	470.5	471.0	470.8	470.5	470.0	469.0	465.0	464.0	37.5°	113.5	115.4
486.2	486.5	486.8	487.0	486.8	486.5	486.0	485.0	482.0	483.0	40°	103.8	105.8
503.2	503.5	503.8	504.0	503.8	503.5	503.0	503.0	501.0	502.0	42.5°	100.0	100.0
517.5	518.0	518.5	519.0	519.0	519.0	519.0	519.0	516.0	517.0	45°	96.2	96.2
530.5	531.0	531.5	532.0	532.0	532.0	532.0	532.0	529.0	529.0	47.5°	96.2	96.2
540.5	541.0	541.5	542.0	541.8	541.5	541.0	541.0	538.0	539.0	50°	94.2	96.2
550.8	551.5	552.2	553.0	552.8	552.5	552.0	552.0	548.0	549.0	52.5°	92.3	92.3
558.5	559.0	559.5	560.0	560.0	560.0	560.0	561.0	558.0	559.0	55°	86.5	88.5
564.2	564.5	564.8	565.0	565.2	565.5	566.0	567.0	565.0	566.0	57.5°	80.8	82.7
567.5	568.0	568.5	569.0	568.8	568.5	568.0	569.0	567.0	569.0	60°	75.0	75.0
570.8	571.5	572.2	573.0	572.8	572.5	572.0	572.0	569.0	570.0	62.5°	67.3	67.3
574.8	575.5	576.2	577.0	577.0	577.0	577.0	578.0	574.0	575.0	65°	61.5	61.5
576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	67.5°	53.8	53.8
										70°	48.1	48.1
										72.5°	42.3	42.3
										75°	36.5	36.5
										77.5°	30.8	28.8
										80°	23.1	23.1
										82.5°	13.5	13.5
										85°	3.8	3.8
										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
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Scaled Data Report

