

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: P228206

Luminaire Tested: **ISS-AF-1000-LED-E1-SL3-8030-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P228206
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-SL3-8030-ULG
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE WITH UPLIGHT
LIGHT SQUARE WITH ACCUELED OPTICS-TYPE III W/SPILL CONTROL, WITH UPLIGHT
GLOW
Light Source: (16) 3000K CCT, 80 CRI LEDs and (1) UPLIGHT LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5816.2 lumens
Efficiency: N/A
Efficacy: 81.6 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

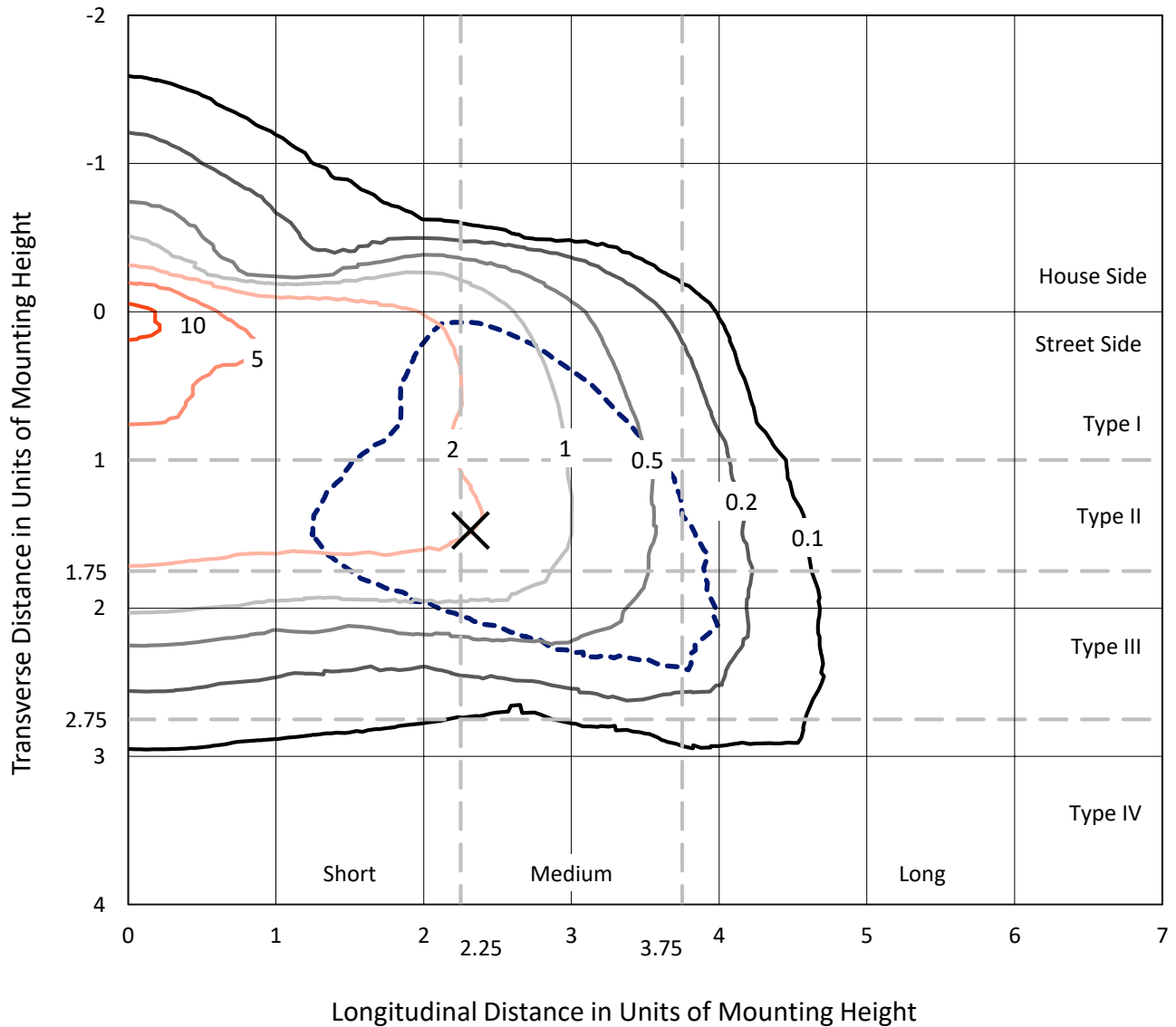
Input Watts (W): 71.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

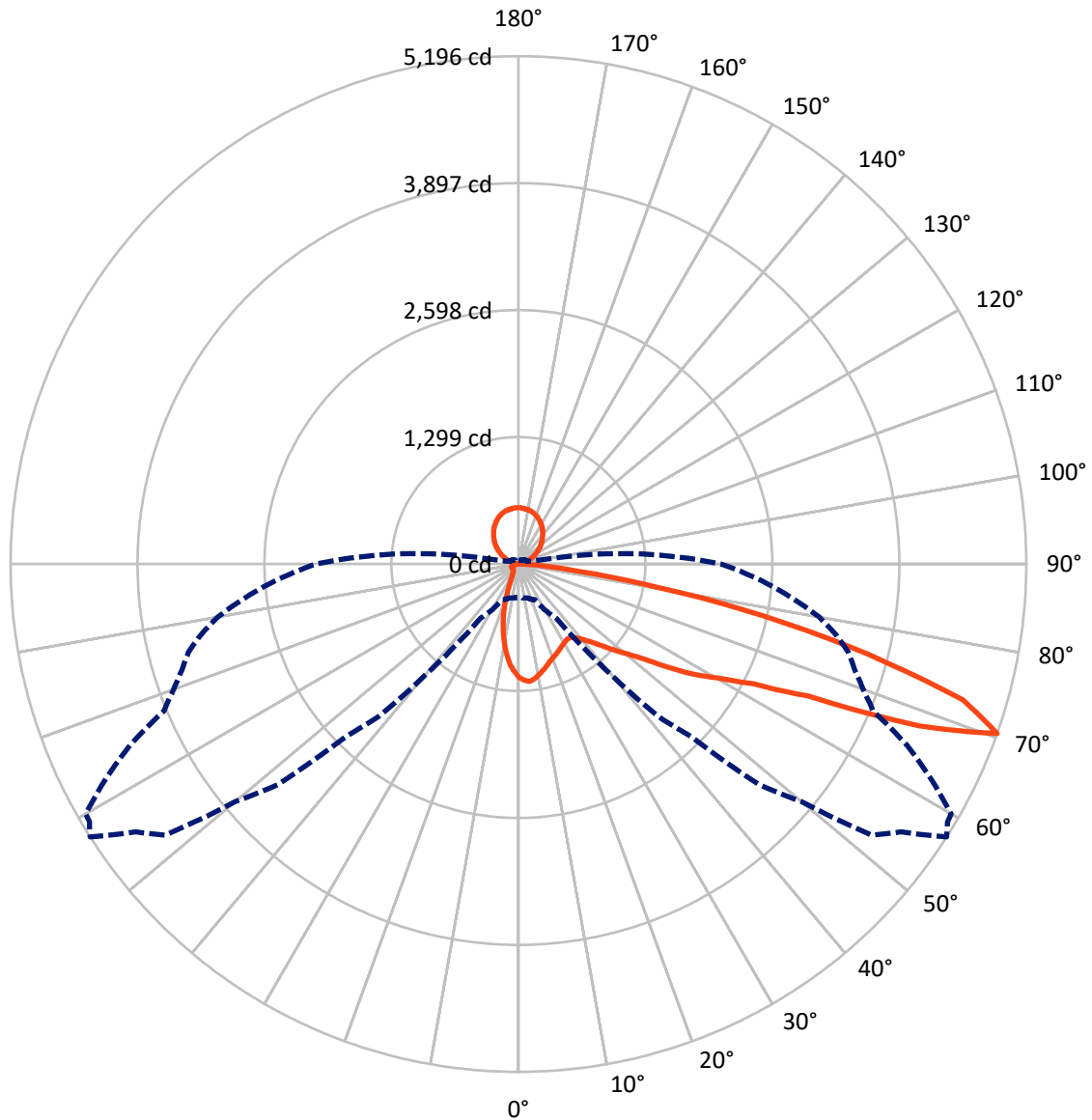
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.6 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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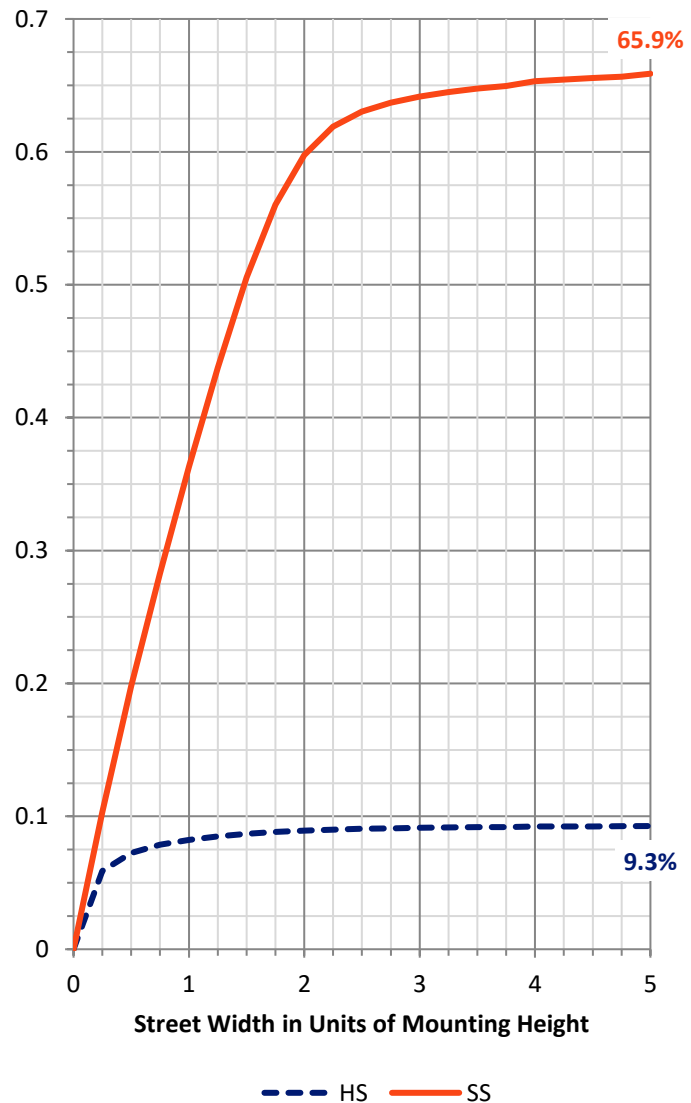
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	543.2	713.1	1256.3
	% Fixture	9.3	12.3	21.6
Street Side	Lumens	3846.7	713.1	4559.8
	% Fixture	66.1	12.3	78.4
Total	Lumens	4390.0	1426.2	5816.2
	% Fixture	75.5	24.5	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.3	1.7
10°-20°	217.8	3.7
20°-30°	273.7	4.7
30°-40°	357.8	6.2
40°-50°	536.7	9.2
50°-60°	848.5	14.6
60°-70°	1223.1	21.0
70°-80°	757.0	13.0
80°-90°	75.1	1.3
90°-100°	4.7	0.1
100°-110°	69.0	1.2
110°-120°	153.0	2.6
120°-130°	223.9	3.8
130°-140°	265.6	4.6
140°-150°	269.3	4.6
150°-160°	231.1	4.0
160°-170°	155.1	2.7
170°-180°	54.3	0.9
0°-90°	4390.0	75.5
0°-180°	5816.2	100.0



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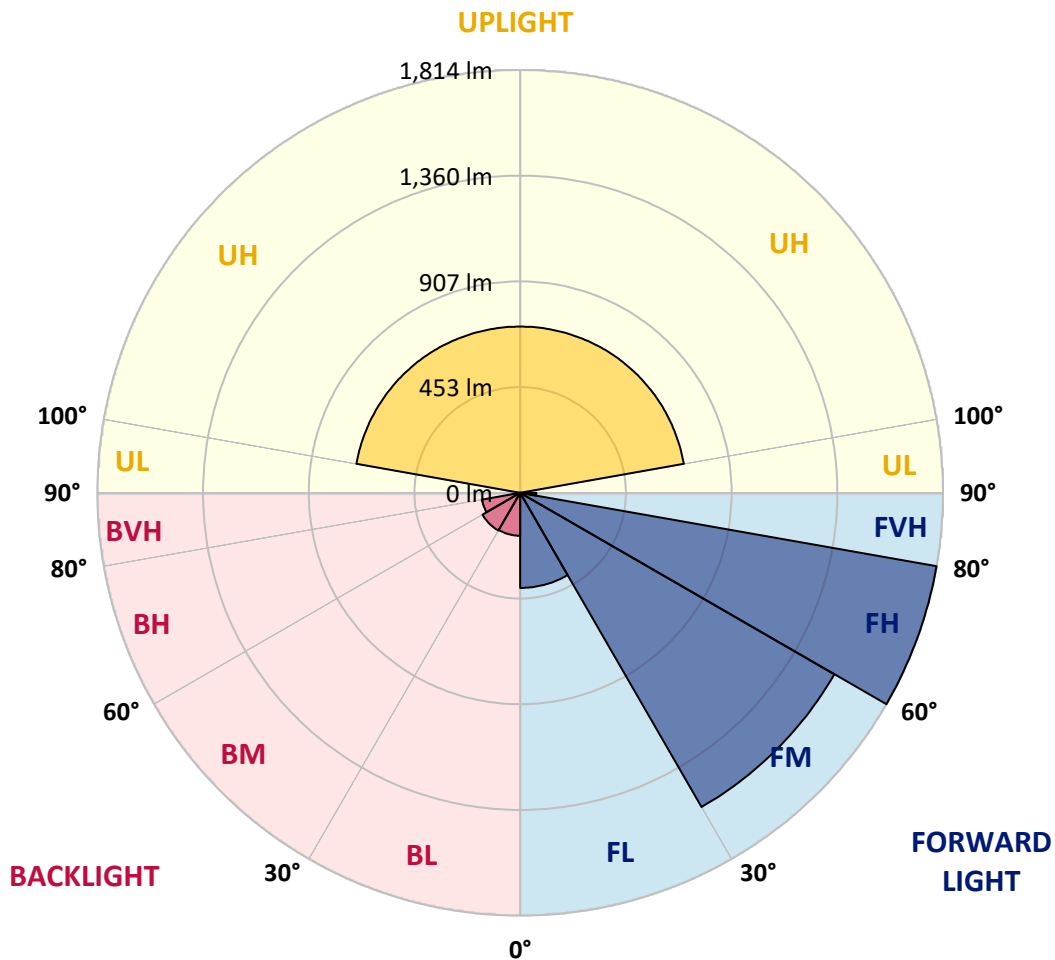
CATALOG NUMBER: ISS-AF-1000-LED-E1-SL3-8030-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	407.7	7.0			
FM (30°-60°)	1556.2	26.8			
FH (60°-80°)	1813.7	31.2			G2/5000
FVH (80°-90°)	69.1	1.2			G1/100
BL (0°-30°)	184.2	3.2	B1/500		
BM (30°-60°)	186.8	3.2	B0/220		
BH (60°-80°)	166.3	2.9	B1/500		G1/500
BVH (80°-90°)	6.0	0.1			G0/10
UL (90°-100°)	4.7	0.1		U1/10	
UH (100°-180°)	713.1	12.3		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°	1162.0	1162.0	1162.0	1162.0	1162.0	1162.0	1162.0	1162.0	1162.0	1162.0	1162.0
2.5°	1219.6	1218.0	1214.9	1208.7	1205.6	1208.7	1205.6	1200.9	1194.7	1199.3	1196.2
5°	1216.5	1219.6	1213.4	1208.7	1216.5	1219.6	1213.4	1213.4	1207.1	1213.4	1210.2
7.5°	1155.7	1157.3	1158.8	1157.3	1177.5	1177.5	1174.4	1177.5	1179.1	1182.2	1183.8
10°	1079.4	1081.0	1084.1	1088.8	1113.7	1116.8	1118.3	1121.5	1126.1	1129.2	1138.6
12.5°	1003.1	1006.2	1012.4	1028.0	1054.5	1057.6	1062.3	1066.9	1074.7	1079.4	1096.5
15°	939.2	940.8	947.0	964.1	1003.1	1010.9	1014.0	1020.2	1035.8	1035.8	1054.5
17.5°	880.0	883.2	887.8	908.1	947.0	959.5	968.8	971.9	992.2	996.9	1018.7
20°	834.9	836.4	838.0	856.7	892.5	911.2	919.0	931.4	947.0	959.5	978.2
22.5°	809.9	811.5	808.4	816.2	847.3	870.7	880.0	892.5	898.7	920.5	931.4
25°	811.5	813.1	805.3	800.6	816.2	841.1	848.9	861.3	858.2	889.4	889.4
27.5°	827.1	830.2	822.4	808.4	809.9	830.2	834.9	839.5	830.2	861.3	855.1
30°	858.2	861.3	852.0	841.1	824.0	836.4	836.4	836.4	819.3	845.8	834.9
32.5°	890.9	894.1	890.9	883.2	861.3	864.5	858.2	855.1	831.8	853.6	836.4
35°	939.2	940.8	942.3	942.3	911.2	917.4	900.3	890.9	869.1	886.3	862.9
37.5°	996.9	996.9	1007.8	1012.4	978.2	978.2	959.5	947.0	926.8	933.0	909.6
40°	1048.3	1052.9	1077.8	1091.9	1060.7	1048.3	1032.7	1021.8	1006.2	1006.2	982.8
42.5°	1107.4	1116.8	1146.4	1172.9	1155.7	1137.0	1121.5	1110.6	1102.8	1101.2	1076.3
45°	1180.6	1191.6	1224.3	1249.2	1253.9	1239.8	1227.4	1216.5	1210.2	1207.1	1185.3
47.5°	1263.2	1274.1	1303.7	1333.3	1355.1	1352.0	1338.0	1327.1	1331.7	1328.6	1314.6
50°	1355.1	1361.3	1380.0	1414.3	1464.1	1475.0	1471.9	1464.1	1473.5	1473.5	1461.0
52.5°	1428.3	1433.0	1447.0	1487.5	1570.0	1595.0	1615.2	1630.8	1646.4	1655.7	1647.9
55°	1495.3	1495.3	1496.8	1548.2	1671.3	1711.8	1757.0	1789.7	1809.9	1847.3	1862.9
57.5°	1604.3	1596.5	1595.0	1649.5	1792.8	1834.8	1900.3	1947.0	1975.0	2051.3	2049.8
60°	1573.2	1576.3	1632.3	1792.8	2042.0	2079.4	2138.6	2188.4	2241.4	2297.4	2302.1
62.5°	1356.7	1364.4	1448.6	1688.4	2200.9	2395.6	2577.8	2716.4	2794.3	2844.1	2775.6
65°	950.1	968.8	1082.5	1375.3	2026.4	2327.0	2615.2	2936.0	3182.1	3563.8	3674.3
67.5°	473.5	487.5	506.2	721.2	1514.0	1936.1	2333.3	2770.9	3098.0	3658.8	3971.8
70°	339.6	345.8	359.8	405.0	677.5	1014.0	1481.3	2107.4	2492.1	3337.9	3780.3
72.5°	263.2	269.5	288.2	352.0	448.6	495.3	588.8	962.6	1431.4	2305.2	2903.3
75°	204.0	213.4	239.9	317.7	431.5	457.9	462.6	496.9	567.0	1023.3	1627.7
77.5°	143.3	144.9	171.3	274.1	419.0	470.4	462.6	462.6	471.9	521.8	696.2
80°	95.0	96.6	113.7	190.0	367.6	428.3	473.5	451.7	453.3	461.0	473.5
82.5°	49.8	53.0	67.0	115.3	214.9	289.7	394.1	411.2	405.0	412.8	409.6
85°	14.0	14.0	23.4	43.6	105.9	112.1	174.4	238.3	243.0	275.7	294.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.7	6.2	14.0	15.6
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°	1162.0	1162.0	1162.0	1162.0	1162.0	1162.0	1162.0	1162.0	1162.0	1162.0	1162.0
2.5°	1199.3	1193.1	1191.6	1188.4	1190.0	1185.3	1183.8	1177.5	1177.5	1174.4	1171.3
5°	1207.1	1200.9	1207.1	1196.2	1197.8	1193.1	1185.3	1185.3	1179.1	1174.4	1165.1
7.5°	1185.3	1185.3	1186.9	1180.6	1182.2	1180.6	1171.3	1169.7	1160.4	1160.4	1149.5
10°	1144.8	1144.8	1151.1	1146.4	1147.9	1146.4	1141.7	1140.2	1137.0	1137.0	1119.9
12.5°	1098.1	1107.4	1116.8	1112.1	1112.1	1115.2	1115.2	1116.8	1115.2	1113.7	1099.7
15°	1059.2	1073.2	1082.5	1081.0	1082.5	1090.3	1093.4	1095.0	1099.7	1098.1	1085.6
17.5°	1023.3	1038.9	1046.7	1052.9	1057.6	1063.8	1073.2	1077.8	1084.1	1082.5	1070.1
20°	990.6	1004.6	1018.7	1026.4	1028.0	1040.5	1051.4	1065.4	1068.5	1071.6	1056.0
22.5°	956.4	968.8	996.9	992.2	1003.1	1026.4	1032.7	1052.9	1052.9	1063.8	1042.0
25°	926.8	928.3	971.9	964.1	973.5	1015.5	1020.2	1056.0	1046.7	1062.3	1037.4
27.5°	897.2	895.6	948.6	939.2	950.1	1007.8	1010.9	1060.7	1051.4	1070.1	1037.4
30°	875.4	870.7	931.4	912.7	928.3	1000.0	1001.5	1065.4	1057.6	1082.5	1048.3
32.5°	870.7	862.9	915.9	901.8	917.4	992.2	1001.5	1082.5	1073.2	1104.3	1060.7
35°	890.9	878.5	923.6	911.2	923.6	995.3	1009.3	1109.0	1098.1	1133.9	1090.3
37.5°	928.3	919.0	956.4	943.9	953.2	1017.1	1029.6	1143.3	1141.7	1185.3	1135.5
40°	993.7	984.4	1014.0	996.9	1004.6	1063.8	1070.1	1191.6	1196.2	1249.2	1199.3
42.5°	1082.5	1066.9	1090.3	1070.1	1081.0	1133.9	1127.7	1250.7	1264.8	1338.0	1280.3
45°	1196.2	1176.0	1190.0	1168.2	1176.0	1221.1	1204.0	1330.2	1344.2	1434.5	1383.1
47.5°	1320.8	1295.9	1313.0	1285.0	1289.7	1338.0	1306.8	1425.2	1447.0	1560.7	1510.9
50°	1470.4	1437.7	1443.9	1417.4	1420.5	1468.8	1434.5	1542.0	1568.5	1694.7	1651.0
52.5°	1661.9	1615.2	1615.2	1579.4	1580.9	1629.2	1587.2	1680.6	1710.2	1838.0	1808.4
55°	1914.3	1876.9	1869.1	1831.7	1819.3	1828.6	1769.4	1834.8	1867.5	1987.5	1964.1
57.5°	2115.2	2110.5	2133.9	2080.9	2068.5	2071.6	1996.8	2001.5	2038.9	2132.3	2140.1
60°	2359.7	2367.5	2370.6	2327.0	2322.4	2278.7	2202.4	2190.0	2236.7	2300.6	2325.5
62.5°	2749.1	2741.3	2702.4	2669.7	2640.1	2523.3	2481.2	2412.7	2478.1	2513.9	2565.3
65°	3585.6	3504.6	3255.4	3277.2	3199.3	2945.4	2909.6	2770.9	2873.7	2875.3	2971.9
67.5°	4414.2	4573.1	4420.4	4423.5	4247.5	3788.0	3677.5	3401.8	3459.4	3392.4	3442.3
70°	4555.9	4778.7	5196.1	5121.3	5112.0	4758.4	4386.2	3926.7	3753.8	3610.5	3495.2
72.5°	3920.4	4143.2	4755.3	4585.5	4649.4	4756.9	4369.0	4024.8	3638.5	3456.3	3207.1
75°	2758.5	3079.3	3700.8	3612.0	3658.8	3836.3	3503.0	3462.5	3015.5	2894.0	2510.8
77.5°	1478.1	1875.3	2571.6	2462.5	2482.8	2584.0	2236.7	2165.0	1733.6	1613.7	1179.1
80°	665.1	922.1	1443.9	1322.4	1286.6	1228.9	905.0	713.4	436.1	289.7	200.9
82.5°	440.8	457.9	640.2	554.5	518.7	428.3	277.3	163.5	129.3	109.0	104.4
85°	295.9	271.0	269.5	238.3	221.2	174.4	129.3	81.0	67.0	56.1	51.4
87.5°	17.1	10.9	15.6	17.1	12.5	10.9	7.8	0.0	1.6	0.0	1.6
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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CANDELA DISTRIBUTION (continued):

	77.5°	80°	85°	90°	95°	100°	102.5°	105°	107.5°	110°	112.5°
0°	1162.0	1162.0	1162.0	1162.0	1162.0	1162.0	1162.0	1162.0	1162.0	1162.0	1162.0
2.5°	1163.5	1163.5	1162.0	1151.1	1144.8	1141.7	1130.8	1129.2	1124.6	1123.0	1123.0
5°	1162.0	1155.7	1147.9	1132.4	1116.8	1102.8	1098.1	1087.2	1079.4	1070.1	1070.1
7.5°	1140.2	1133.9	1116.8	1093.4	1073.2	1052.9	1042.0	1026.4	1014.0	1001.5	998.4
10°	1115.2	1105.9	1082.5	1051.4	1024.9	989.1	975.0	954.8	940.8	922.1	903.4
12.5°	1088.8	1082.5	1054.5	1018.7	978.2	933.0	911.2	883.2	864.5	842.7	814.6
15°	1077.8	1065.4	1029.6	984.4	934.6	880.0	848.9	819.3	791.3	766.3	728.9
17.5°	1063.8	1048.3	1007.8	954.8	892.5	827.1	786.6	753.9	716.5	690.0	648.0
20°	1048.3	1024.9	981.3	917.4	847.3	769.4	718.0	685.3	635.5	609.0	559.2
22.5°	1035.8	1006.2	953.2	881.6	797.5	710.3	649.5	612.1	556.1	524.9	462.6
25°	1032.7	996.9	933.0	852.0	755.4	652.6	579.4	542.0	471.9	436.1	362.9
27.5°	1034.2	992.2	920.5	827.1	718.0	601.2	514.0	470.4	381.6	344.2	260.1
30°	1035.8	993.7	908.1	805.3	683.8	548.3	445.5	394.1	288.2	255.4	180.7
32.5°	1051.4	1000.0	905.0	788.1	652.6	495.3	367.6	320.9	204.0	185.4	134.0
35°	1070.1	1020.2	911.2	785.0	629.3	442.4	288.2	239.9	146.4	141.7	109.0
37.5°	1109.0	1051.4	936.1	792.8	615.2	387.8	214.9	183.8	115.3	118.4	95.0
40°	1168.2	1104.3	976.6	816.2	613.7	333.3	158.9	143.3	99.7	102.8	87.2
42.5°	1247.6	1177.5	1038.9	866.0	621.5	281.9	127.7	123.0	91.9	95.0	84.1
45°	1352.0	1280.3	1126.1	929.9	643.3	239.9	112.1	112.1	88.8	91.9	82.6
47.5°	1484.4	1404.9	1233.6	1015.5	677.5	216.5	105.9	107.5	87.2	91.9	82.6
50°	1633.9	1546.7	1370.7	1126.1	730.5	210.3	107.5	107.5	88.8	91.9	82.6
52.5°	1789.7	1708.7	1518.6	1252.3	803.7	224.3	110.6	109.0	88.8	91.9	81.0
55°	1948.5	1875.3	1682.2	1400.3	905.0	274.1	118.4	113.7	88.8	91.9	82.6
57.5°	2107.4	2056.0	1853.5	1559.1	1031.1	364.5	149.5	132.4	98.1	99.7	84.1
60°	2286.5	2249.2	2046.7	1767.9	1210.2	504.7	219.6	166.7	116.8	110.6	90.3
62.5°	2518.6	2509.3	2348.8	2068.5	1498.4	707.1	311.5	202.5	126.2	115.3	96.6
65°	2928.3	2953.2	2800.5	2420.5	1690.0	711.8	303.7	177.6	118.4	109.0	95.0
67.5°	3339.5	3266.3	2873.7	2367.5	1524.9	473.5	193.1	138.6	104.4	101.2	88.8
70°	3323.9	3124.5	2605.8	2070.0	1204.0	257.0	140.2	115.3	93.5	93.5	84.1
72.5°	2981.2	2685.3	2130.8	1638.6	803.7	163.5	118.4	101.2	85.7	84.1	77.9
75°	2244.5	1895.6	1369.1	943.9	358.2	105.9	90.3	82.6	74.8	74.8	68.5
77.5°	1056.0	595.0	330.2	219.6	119.9	71.6	62.3	62.3	60.7	62.3	56.1
80°	143.3	129.3	110.6	96.6	73.2	49.8	45.2	46.7	45.2	46.7	42.1
82.5°	87.2	77.9	63.9	60.7	45.2	34.3	32.7	34.3	31.2	32.7	24.9
85°	42.1	37.4	29.6	28.0	23.4	20.2	17.1	20.2	15.6	17.1	10.9
87.5°	0.0	3.1	1.6	3.1	3.1	3.1	0.0	3.1	0.0	3.1	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°
1162.0	1162.0	1162.0	1162.0	1162.0	1162.0	1162.0	1162.0	1162.0	1162.0	1162.0	112.5°	136.0
1115.2	1110.6	1109.0	1102.8	1101.2	1095.0	1093.4	1087.2	1076.3	1071.6	1063.8	115°	158.0
1056.0	1048.3	1042.0	1038.9	1026.4	1020.2	1010.9	998.4	975.0	964.1	945.5	117.5°	181.0
973.5	971.9	953.2	947.0	931.4	920.5	906.5	886.3	852.0	831.8	802.2	120°	204.0
883.2	876.9	855.1	842.7	822.4	806.8	788.1	758.5	705.6	663.5	618.4	122.5°	228.0
799.0	780.4	755.4	736.7	711.8	690.0	668.2	623.0	538.9	470.4	408.1	125°	254.0
711.8	683.8	657.3	626.1	599.7	565.4	540.5	481.3	370.7	286.6	247.7	127.5°	277.0
623.0	584.1	554.5	512.4	482.9	436.1	409.6	338.0	243.0	205.6	193.1	130°	301.0
529.6	478.2	445.5	394.1	364.5	305.3	285.0	233.6	186.9	172.9	169.8	132.5°	325.0
429.9	367.6	331.8	275.7	255.4	219.6	204.0	179.1	157.3	151.1	154.2	135°	348.0
325.5	258.6	235.2	194.7	186.9	168.2	162.0	149.5	138.6	138.6	143.3	137.5°	369.0
232.1	180.7	174.4	149.5	148.0	138.6	134.0	127.7	124.6	127.7	134.0	140°	390.0
169.8	137.1	137.1	123.0	123.0	116.8	115.3	112.1	112.1	118.4	124.6	142.5°	412.0
134.0	112.1	115.3	104.4	105.9	101.2	102.8	101.2	102.8	107.5	112.1	145°	433.0
112.1	96.6	101.2	91.9	95.0	90.3	93.5	93.5	96.6	98.1	99.7	147.5°	452.0
99.7	88.8	91.9	85.7	88.8	84.1	88.8	88.8	90.3	90.3	90.3	150°	469.0
91.9	82.6	87.2	81.0	85.7	81.0	85.7	85.7	84.1	82.6	84.1	152.5°	486.0
87.2	81.0	85.7	79.4	84.1	79.4	82.6	81.0	77.9	77.9	77.9	155°	503.0
85.7	79.4	82.6	77.9	81.0	76.3	79.4	77.9	73.2	71.6	74.8	157.5°	517.0
85.7	77.9	82.6	76.3	79.4	74.8	77.9	73.2	68.5	68.5	73.2	160°	530.0
85.7	77.9	82.6	76.3	79.4	73.2	74.8	70.1	63.9	65.4	71.6	162.5°	540.0
87.2	81.0	84.1	77.9	79.4	70.1	73.2	67.0	62.3	63.9	68.5	165°	550.0
88.8	81.0	84.1	74.8	76.3	70.1	70.1	67.0	62.3	62.3	67.0	167.5°	558.0
88.8	79.4	81.0	73.2	74.8	67.0	68.5	65.4	60.7	59.2	62.3	170°	564.0
91.9	82.6	82.6	71.6	73.2	65.4	67.0	63.9	59.2	56.1	57.6	172.5°	567.0
95.0	84.1	85.7	74.8	74.8	67.0	68.5	62.3	56.1	53.0	54.5	175°	570.0
95.0	84.1	85.7	76.3	76.3	68.5	68.5	62.3	53.0	49.8	49.8	177.5°	574.0
90.3	82.6	84.1	76.3	76.3	68.5	68.5	60.7	51.4	46.7	45.2	180°	576.0
87.2	79.4	81.0	71.6	73.2	65.4	67.0	63.9	59.2	56.1	57.6		
79.4	73.2	73.2	67.0	65.4	57.6	57.6	53.0	45.2	38.9	35.8		
68.5	62.3	60.7	54.5	54.5	49.8	48.3	43.6	37.4	32.7	31.2		
56.1	48.3	48.3	40.5	40.5	35.8	37.4	32.7	28.0	26.5	24.9		
40.5	32.7	32.7	26.5	26.5	21.8	23.4	21.8	20.2	20.2	18.7		
24.9	17.1	18.7	14.0	17.1	12.5	14.0	12.5	12.5	10.9	10.9		
12.5	6.2	9.3	4.7	7.8	1.6	4.7	3.1	3.1	3.1	3.1		
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	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		

'228206
 ISS-AF-1000-LED-E1-SL3-8030-ULG

REPORT NUMBER: P228206
 CATALOG NUMBER: ISS-AF-10

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°	1162.0	1162.0
158.0	158.0	158.0	158.0	157.5	157.0	156.0	154.0	151.0	149.0	2.5°	1056.0	1060.7
180.8	180.5	180.2	180.0	179.8	179.5	179.0	177.0	174.0	172.0	5°	939.2	940.8
204.0	204.0	204.0	204.0	203.5	203.0	202.0	201.0	198.0	196.0	7.5°	797.5	794.4
228.0	228.0	228.0	228.0	227.8	227.5	227.0	226.0	223.0	221.0	10°	609.0	601.2
253.8	253.5	253.2	253.0	252.8	252.5	252.0	251.0	248.0	247.0	12.5°	392.5	381.6
277.2	277.5	277.8	278.0	277.5	277.0	276.0	274.0	272.0	270.0	15°	236.8	233.6
301.0	301.0	301.0	301.0	300.5	300.0	299.0	298.0	294.0	293.0	17.5°	190.0	190.0
325.0	325.0	325.0	325.0	324.2	323.5	322.0	321.0	318.0	317.0	20°	169.8	169.8
348.0	348.0	348.0	348.0	347.2	346.5	345.0	345.0	341.0	339.0	22.5°	157.3	157.3
369.0	369.0	369.0	369.0	368.5	368.0	367.0	367.0	364.0	363.0	25°	148.0	149.5
390.0	390.0	390.0	390.0	389.8	389.5	389.0	388.0	386.0	385.0	27.5°	140.2	140.2
412.0	412.0	412.0	412.0	411.5	411.0	410.0	410.0	407.0	408.0	30°	130.8	130.8
433.2	433.5	433.8	434.0	433.5	433.0	432.0	431.0	428.0	428.0	32.5°	115.3	115.3
452.5	453.0	453.5	454.0	453.8	453.5	453.0	452.0	448.0	447.0	35°	102.8	101.2
469.5	470.0	470.5	471.0	470.8	470.5	470.0	469.0	465.0	464.0	37.5°	91.9	93.5
486.2	486.5	486.8	487.0	486.8	486.5	486.0	485.0	482.0	483.0	40°	84.1	85.7
503.2	503.5	503.8	504.0	503.8	503.5	503.0	503.0	501.0	502.0	42.5°	81.0	81.0
517.5	518.0	518.5	519.0	519.0	519.0	519.0	519.0	516.0	517.0	45°	77.9	77.9
530.5	531.0	531.5	532.0	532.0	532.0	532.0	532.0	529.0	529.0	47.5°	77.9	77.9
540.5	541.0	541.5	542.0	541.8	541.5	541.0	541.0	538.0	539.0	50°	76.3	77.9
550.8	551.5	552.2	553.0	552.8	552.5	552.0	552.0	548.0	549.0	52.5°	74.8	74.8
558.5	559.0	559.5	560.0	560.0	560.0	560.0	561.0	558.0	559.0	55°	70.1	71.6
564.2	564.5	564.8	565.0	565.2	565.5	566.0	567.0	565.0	566.0	57.5°	65.4	67.0
567.5	568.0	568.5	569.0	568.8	568.5	568.0	569.0	567.0	569.0	60°	60.7	60.7
570.8	571.5	572.2	573.0	572.8	572.5	572.0	572.0	569.0	570.0	62.5°	54.5	54.5
574.8	575.5	576.2	577.0	577.0	577.0	577.0	578.0	574.0	575.0	65°	49.8	49.8
576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	67.5°	43.6	43.6
										70°	38.9	38.9
										72.5°	34.3	34.3
										75°	29.6	29.6
										77.5°	24.9	23.4
										80°	18.7	18.7
										82.5°	10.9	10.9
										85°	3.1	3.1
										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

