

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: P228201

Luminaire Tested: **ISS-AF-1200-LED-E1-SL3-8030-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P228201
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-SL3-8030-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, 80 CRI LEDs and (1) UPLIGHT LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6422.2 lumens
Efficiency: N/A
Efficacy: 77.7 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

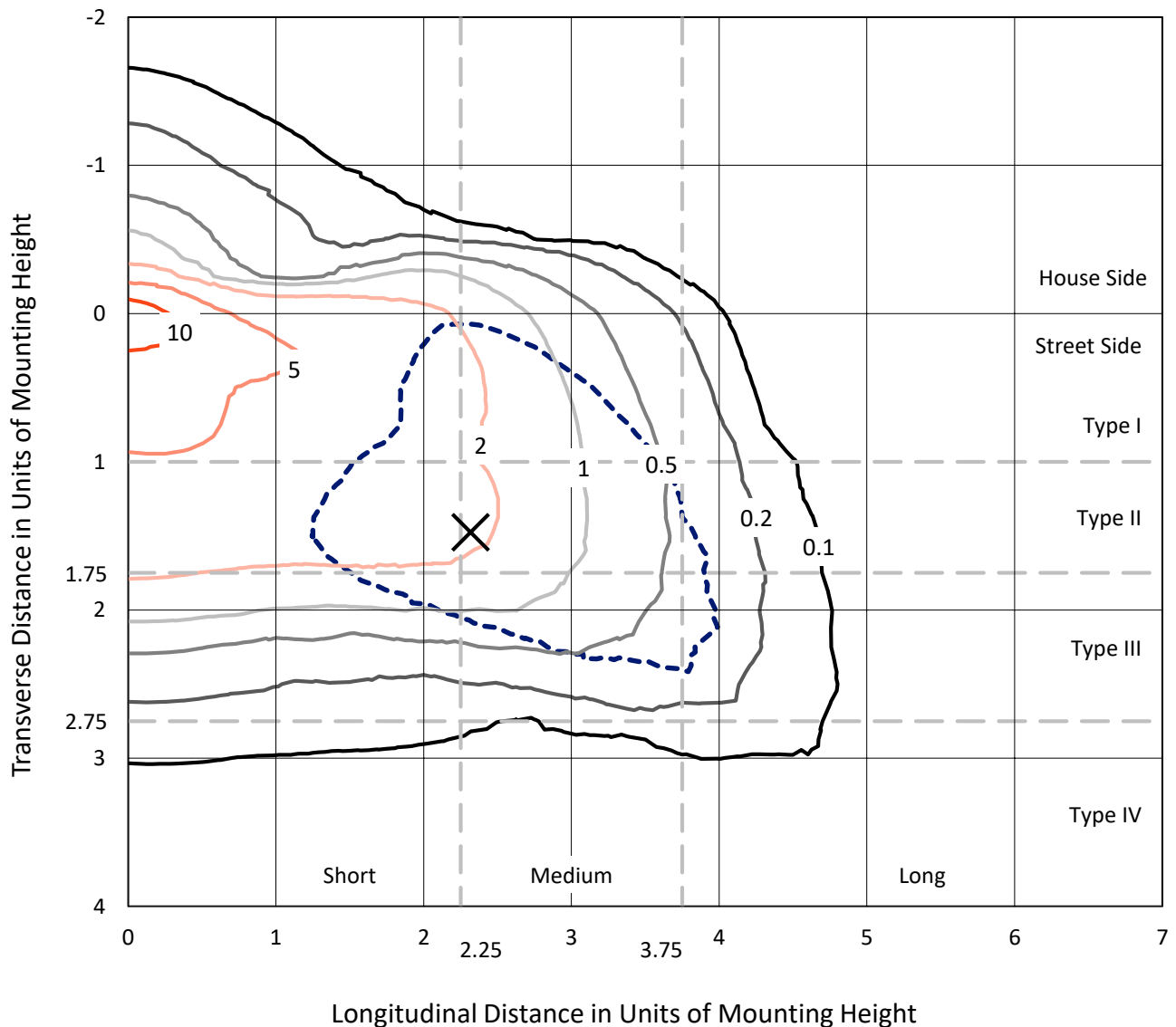


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Iso-Footcandle Lines of Horizontal Illumination

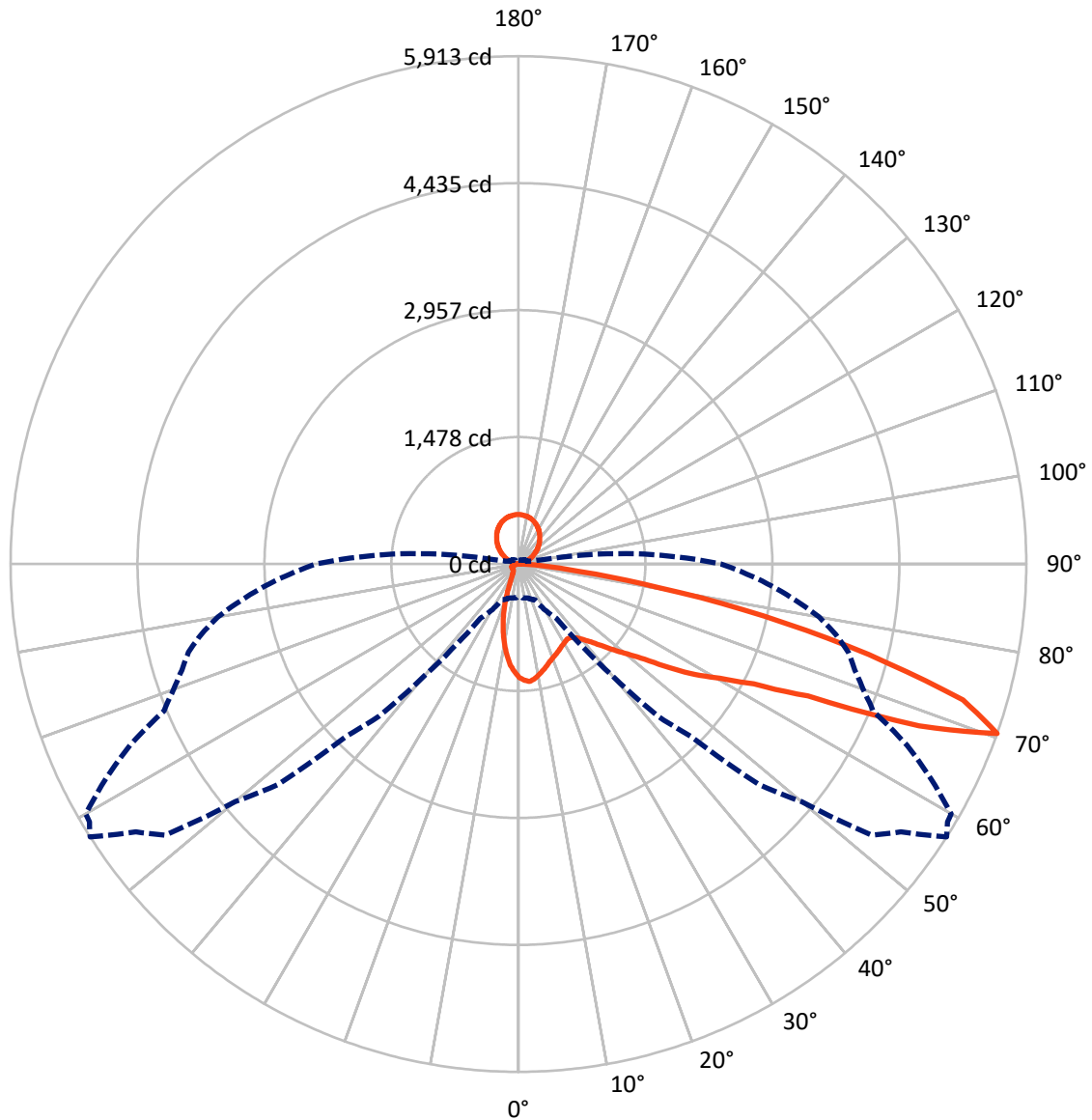
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.2 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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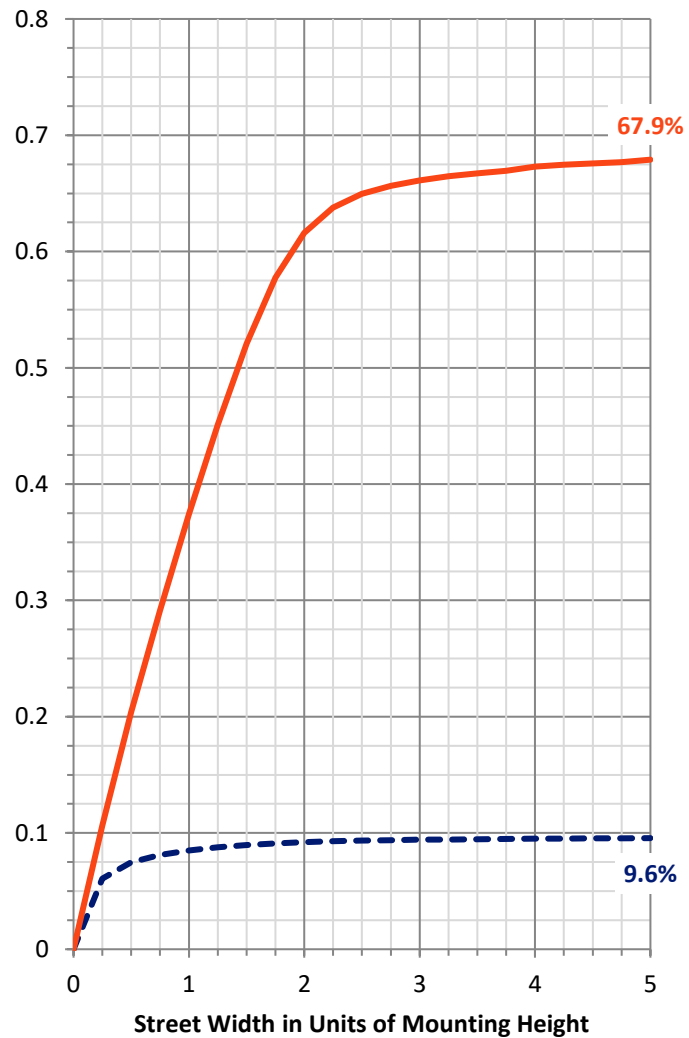
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	618.2	713.1	1331.3
	% Fixture	9.6	11.1	20.7
Street Side	Lumens	4377.8	713.1	5090.8
	% Fixture	68.2	11.1	79.3
Total	Lumens	4996.0	1426.2	6422.2
	% Fixture	77.8	22.2	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.2	1.8
10°-20°	247.9	3.9
20°-30°	311.5	4.9
30°-40°	407.1	6.3
40°-50°	610.8	9.5
50°-60°	965.6	15.0
60°-70°	1391.9	21.7
70°-80°	861.5	13.4
80°-90°	85.4	1.3
90°-100°	4.7	0.1
100°-110°	69.0	1.1
110°-120°	153.0	2.4
120°-130°	223.9	3.5
130°-140°	265.6	4.1
140°-150°	269.3	4.2
150°-160°	231.1	3.6
160°-170°	155.1	2.4
170°-180°	54.3	0.8
0°-90°	4996.0	77.8
0°-180°	6422.2	100.0



--- HS — SS

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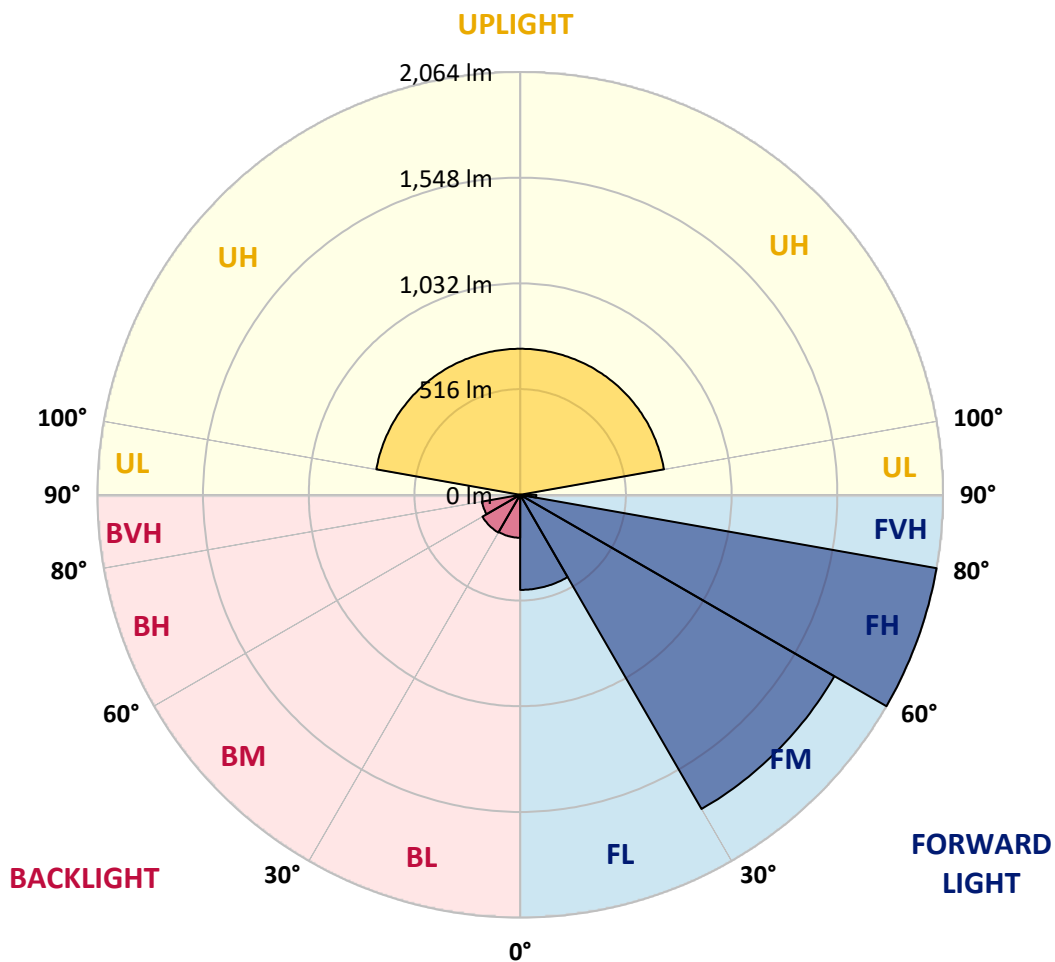
CATALOG NUMBER: ISS-AF-1200-LED-E1-SL3-8030-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	464.0	7.2			
FM (30°-60°)	1771.0	27.6			
FH (60°-80°)	2064.1	32.1			G2/5000
FVH (80°-90°)	78.6	1.2			G1/100
BL (0°-30°)	209.6	3.3	B1/500		
BM (30°-60°)	212.6	3.3	B0/220		
BH (60°-80°)	189.2	2.9	B1/500		G1/500
BVH (80°-90°)	6.8	0.1			G0/10
UL (90°-100°)	4.7	0.1		U1/10	
UH (100°-180°)	713.1	11.1		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°	1322.4	1322.4	1322.4	1322.4	1322.4	1322.4	1322.4	1322.4	1322.4	1322.4	1322.4
2.5°	1387.9	1386.2	1382.6	1375.5	1372.0	1375.5	1372.0	1366.7	1359.6	1364.9	1361.4
5°	1384.4	1387.9	1380.9	1375.5	1384.4	1387.9	1380.9	1380.9	1373.8	1380.9	1377.3
7.5°	1315.3	1317.0	1318.8	1317.0	1340.1	1340.1	1336.5	1340.1	1341.9	1345.4	1347.2
10°	1228.4	1230.2	1233.7	1239.0	1267.4	1271.0	1272.7	1276.3	1281.6	1285.1	1295.8
12.5°	1141.6	1145.1	1152.2	1169.9	1200.0	1203.6	1208.9	1214.2	1223.1	1228.4	1247.9
15°	1068.9	1070.6	1077.7	1097.2	1141.6	1150.4	1154.0	1161.1	1178.8	1178.8	1200.0
17.5°	1001.5	1005.1	1010.4	1033.4	1077.7	1091.9	1102.6	1106.1	1129.1	1134.5	1159.3
20°	950.1	951.9	953.7	974.9	1015.7	1037.0	1045.8	1060.0	1077.7	1091.9	1113.2
22.5°	921.7	923.5	920.0	928.8	964.3	990.9	1001.5	1015.7	1022.8	1047.6	1060.0
25°	923.5	925.3	916.4	911.1	928.8	957.2	966.1	980.2	976.7	1012.2	1012.2
27.5°	941.2	944.8	935.9	920.0	921.7	944.8	950.1	955.4	944.8	980.2	973.2
30°	976.7	980.2	969.6	957.2	937.7	951.9	951.9	951.9	932.4	962.5	950.1
32.5°	1013.9	1017.5	1013.9	1005.1	980.2	983.8	976.7	973.2	946.6	971.4	951.9
35°	1068.9	1070.6	1072.4	1072.4	1037.0	1044.1	1024.6	1013.9	989.1	1008.6	982.0
37.5°	1134.5	1134.5	1146.9	1152.2	1113.2	1113.2	1091.9	1077.7	1054.7	1061.8	1035.2
40°	1193.0	1198.3	1226.6	1242.6	1207.1	1193.0	1175.2	1162.8	1145.1	1145.1	1118.5
42.5°	1260.3	1271.0	1304.6	1334.8	1315.3	1294.0	1276.3	1263.9	1255.0	1253.2	1224.9
45°	1343.6	1356.0	1393.3	1421.6	1426.9	1411.0	1396.8	1384.4	1377.3	1373.8	1348.9
47.5°	1437.6	1450.0	1483.7	1517.3	1542.2	1538.6	1522.7	1510.3	1515.6	1512.0	1496.1
50°	1542.2	1549.2	1570.5	1609.5	1666.2	1678.6	1675.1	1666.2	1676.9	1676.9	1662.7
52.5°	1625.5	1630.8	1646.7	1692.8	1786.8	1815.1	1838.2	1855.9	1873.6	1884.3	1875.4
55°	1701.7	1701.7	1703.5	1762.0	1902.0	1948.1	1999.5	2036.7	2059.8	2102.3	2120.0
57.5°	1825.8	1816.9	1815.1	1877.2	2040.3	2088.1	2162.6	2215.7	2247.7	2334.5	2332.7
60°	1790.3	1793.9	1857.7	2040.3	2323.9	2366.4	2433.8	2490.5	2550.8	2614.6	2619.9
62.5°	1543.9	1552.8	1648.5	1921.5	2504.7	2726.3	2933.6	3091.4	3180.0	3236.8	3158.8
65°	1081.3	1102.6	1232.0	1565.2	2306.1	2648.3	2976.2	3341.3	3621.4	4055.7	4181.6
67.5°	538.9	554.8	576.1	820.7	1723.0	2203.3	2655.3	3153.4	3525.7	4163.8	4520.1
70°	386.4	393.5	409.5	460.9	771.1	1154.0	1685.7	2398.3	2836.2	3798.7	4302.1
72.5°	299.6	306.7	327.9	400.6	510.5	563.7	670.0	1095.5	1629.0	2623.4	3304.1
75°	232.2	242.8	273.0	361.6	491.0	521.1	526.5	565.5	645.2	1164.6	1852.4
77.5°	163.1	164.9	195.0	312.0	476.8	535.3	526.5	526.5	537.1	593.8	792.4
80°	108.1	109.9	129.4	216.3	418.3	487.5	538.9	514.1	515.8	524.7	538.9
82.5°	56.7	60.3	76.2	131.2	244.6	329.7	448.5	468.0	460.9	469.7	466.2
85°	16.0	16.0	26.6	49.6	120.5	127.6	198.5	271.2	276.5	313.7	335.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	7.1	16.0	17.7
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°	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°	1322.4	1322.4	1322.4	1322.4	1322.4	1322.4	1322.4	1322.4	1322.4	1322.4	1322.4
2.5°	1364.9	1357.8	1356.0	1352.5	1354.3	1348.9	1347.2	1340.1	1340.1	1336.5	1333.0
5°	1373.8	1366.7	1373.8	1361.4	1363.1	1357.8	1348.9	1348.9	1341.9	1336.5	1325.9
7.5°	1348.9	1348.9	1350.7	1343.6	1345.4	1343.6	1333.0	1331.2	1320.6	1320.6	1308.2
10°	1302.9	1302.9	1309.9	1304.6	1306.4	1304.6	1299.3	1297.5	1294.0	1294.0	1274.5
12.5°	1249.7	1260.3	1271.0	1265.6	1265.6	1269.2	1269.2	1271.0	1269.2	1267.4	1251.5
15°	1205.4	1221.3	1232.0	1230.2	1232.0	1240.8	1244.4	1246.1	1251.5	1249.7	1235.5
17.5°	1164.6	1182.3	1191.2	1198.3	1203.6	1210.7	1221.3	1226.6	1233.7	1232.0	1217.8
20°	1127.4	1143.3	1159.3	1168.1	1169.9	1184.1	1196.5	1212.5	1216.0	1219.5	1201.8
22.5°	1088.4	1102.6	1134.5	1129.1	1141.6	1168.1	1175.2	1198.3	1198.3	1210.7	1185.9
25°	1054.7	1056.5	1106.1	1097.2	1107.9	1155.7	1161.1	1201.8	1191.2	1208.9	1180.5
27.5°	1021.0	1019.2	1079.5	1068.9	1081.3	1146.9	1150.4	1207.1	1196.5	1217.8	1180.5
30°	996.2	990.9	1060.0	1038.7	1056.5	1138.0	1139.8	1212.5	1203.6	1232.0	1193.0
32.5°	990.9	982.0	1042.3	1026.3	1044.1	1129.1	1139.8	1232.0	1221.3	1256.8	1207.1
35°	1013.9	999.7	1051.1	1037.0	1051.1	1132.7	1148.6	1262.1	1249.7	1290.4	1240.8
37.5°	1056.5	1045.8	1088.4	1074.2	1084.8	1157.5	1171.7	1301.1	1299.3	1348.9	1292.2
40°	1130.9	1120.3	1154.0	1134.5	1143.3	1210.7	1217.8	1356.0	1361.4	1421.6	1364.9
42.5°	1232.0	1214.2	1240.8	1217.8	1230.2	1290.4	1283.4	1423.4	1439.3	1522.7	1457.1
45°	1361.4	1338.3	1354.3	1329.4	1338.3	1389.7	1370.2	1513.8	1529.7	1632.6	1574.1
47.5°	1503.2	1474.8	1494.3	1462.4	1467.7	1522.7	1487.2	1621.9	1646.7	1776.1	1719.4
50°	1673.3	1636.1	1643.2	1613.1	1616.6	1671.6	1632.6	1754.9	1785.0	1928.6	1879.0
52.5°	1891.4	1838.2	1838.2	1797.4	1799.2	1854.1	1806.3	1912.6	1946.3	2091.7	2058.0
55°	2178.5	2136.0	2127.1	2084.6	2070.4	2081.0	2013.7	2088.1	2125.3	2261.8	2235.2
57.5°	2407.2	2401.9	2428.5	2368.2	2354.0	2357.6	2272.5	2277.8	2320.3	2426.7	2435.5
60°	2685.5	2694.3	2697.9	2648.3	2642.9	2593.3	2506.4	2492.3	2545.4	2618.1	2646.5
62.5°	3128.6	3119.8	3075.5	3038.2	3004.5	2871.6	2823.7	2745.8	2820.2	2861.0	2919.5
65°	4080.5	3988.3	3704.7	3729.5	3640.9	3352.0	3311.2	3153.4	3270.4	3272.2	3382.1
67.5°	5023.5	5204.3	5030.6	5034.2	4833.9	4311.0	4185.1	3871.3	3936.9	3860.7	3917.4
70°	5184.8	5438.3	5913.4	5828.3	5817.7	5415.3	4991.6	4468.7	4272.0	4108.9	3977.7
72.5°	4461.6	4715.1	5411.7	5218.5	5291.2	5413.5	4972.1	4580.4	4140.8	3933.4	3649.8
75°	3139.3	3504.4	4211.7	4110.6	4163.8	4365.9	3986.6	3940.5	3431.7	3293.5	2857.4
77.5°	1682.2	2134.2	2926.6	2802.5	2825.5	2940.7	2545.4	2463.9	1972.9	1836.4	1341.9
80°	756.9	1049.4	1643.2	1504.9	1464.2	1398.6	1029.9	811.8	496.3	329.7	228.7
82.5°	501.6	521.1	728.5	631.0	590.3	487.5	315.5	186.1	147.1	124.1	118.8
85°	336.8	308.4	306.7	271.2	251.7	198.5	147.1	92.2	76.2	63.8	58.5
87.5°	19.5	12.4	17.7	19.5	14.2	12.4	8.9	0.0	1.8	0.0	1.8
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°	1322.4	1322.4	1322.4	1322.4	1322.4	1322.4	1322.4	1322.4	1322.4	1322.4	1322.4
2.5°	1324.1	1324.1	1322.4	1309.9	1302.9	1299.3	1286.9	1285.1	1279.8	1278.0	1278.0
5°	1322.4	1315.3	1306.4	1288.7	1271.0	1255.0	1249.7	1237.3	1228.4	1217.8	1217.8
7.5°	1297.5	1290.4	1271.0	1244.4	1221.3	1198.3	1185.9	1168.1	1154.0	1139.8	1136.2
10°	1269.2	1258.5	1232.0	1196.5	1166.4	1125.6	1109.6	1086.6	1070.6	1049.4	1028.1
12.5°	1239.0	1232.0	1200.0	1159.3	1113.2	1061.8	1037.0	1005.1	983.8	959.0	927.1
15°	1226.6	1212.5	1171.7	1120.3	1063.6	1001.5	966.1	932.4	900.5	872.1	829.6
17.5°	1210.7	1193.0	1146.9	1086.6	1015.7	941.2	895.2	857.9	815.4	785.3	737.4
20°	1193.0	1166.4	1116.7	1044.1	964.3	875.7	817.2	779.9	723.2	693.1	636.4
22.5°	1178.8	1145.1	1084.8	1003.3	907.6	808.3	739.2	696.6	632.8	597.4	526.5
25°	1175.2	1134.5	1061.8	969.6	859.7	742.7	659.4	616.9	537.1	496.3	413.0
27.5°	1177.0	1129.1	1047.6	941.2	817.2	684.2	585.0	535.3	434.3	391.7	296.0
30°	1178.8	1130.9	1033.4	916.4	778.2	624.0	507.0	448.5	327.9	290.7	205.6
32.5°	1196.5	1138.0	1029.9	896.9	742.7	563.7	418.3	365.2	232.2	210.9	152.4
35°	1217.8	1161.1	1037.0	893.4	716.1	503.4	327.9	273.0	166.6	161.3	124.1
37.5°	1262.1	1196.5	1065.3	902.3	700.2	441.4	244.6	209.2	131.2	134.7	108.1
40°	1329.4	1256.8	1111.4	928.8	698.4	379.3	180.8	163.1	113.4	117.0	99.3
42.5°	1419.8	1340.1	1182.3	985.6	707.3	320.8	145.4	140.0	104.6	108.1	95.7
45°	1538.6	1457.1	1281.6	1058.2	732.1	273.0	127.6	127.6	101.0	104.6	93.9
47.5°	1689.3	1598.9	1403.9	1155.7	771.1	246.4	120.5	122.3	99.3	104.6	93.9
50°	1859.5	1760.2	1559.9	1281.6	831.3	239.3	122.3	122.3	101.0	104.6	93.9
52.5°	2036.7	1944.5	1728.3	1425.2	914.7	255.3	125.9	124.1	101.0	104.6	92.2
55°	2217.5	2134.2	1914.4	1593.6	1029.9	312.0	134.7	129.4	101.0	104.6	93.9
57.5°	2398.3	2339.8	2109.4	1774.4	1173.5	414.8	170.2	150.7	111.7	113.4	95.7
60°	2602.2	2559.6	2329.2	2011.9	1377.3	574.3	249.9	189.7	132.9	125.9	102.8
62.5°	2866.3	2855.7	2673.1	2354.0	1705.2	804.8	354.5	230.4	143.6	131.2	109.9
65°	3332.5	3360.8	3187.1	2754.6	1923.3	810.1	345.7	202.1	134.7	124.1	108.1
67.5°	3800.4	3717.1	3270.4	2694.3	1735.4	538.9	219.8	157.8	118.8	115.2	101.0
70°	3782.7	3555.8	2965.6	2355.8	1370.2	292.5	159.5	131.2	106.4	106.4	95.7
72.5°	3392.7	3056.0	2424.9	1864.8	914.7	186.1	134.7	115.2	97.5	95.7	88.6
75°	2554.3	2157.2	1558.1	1074.2	407.7	120.5	102.8	93.9	85.1	85.1	78.0
77.5°	1201.8	677.1	375.8	249.9	136.5	81.5	70.9	70.9	69.1	70.9	63.8
80°	163.1	147.1	125.9	109.9	83.3	56.7	51.4	53.2	51.4	53.2	47.9
82.5°	99.3	88.6	72.7	69.1	51.4	39.0	37.2	39.0	35.5	37.2	28.4
85°	47.9	42.5	33.7	31.9	26.6	23.0	19.5	23.0	17.7	19.5	12.4
87.5°	0.0	3.5	1.8	3.5	3.5	3.5	0.0	3.5	0.0	3.5	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°
1322.4	1322.4	1322.4	1322.4	1322.4	1322.4	1322.4	1322.4	1322.4	1322.4	1322.4	112.5°	136.0
1269.2	1263.9	1262.1	1255.0	1253.2	1246.1	1244.4	1237.3	1224.9	1219.5	1210.7	115°	158.0
1201.8	1193.0	1185.9	1182.3	1168.1	1161.1	1150.4	1136.2	1109.6	1097.2	1076.0	117.5°	181.0
1107.9	1106.1	1084.8	1077.7	1060.0	1047.6	1031.7	1008.6	969.6	946.6	912.9	120°	204.0
1005.1	998.0	973.2	959.0	935.9	918.2	896.9	863.3	803.0	755.1	703.7	122.5°	228.0
909.3	888.1	859.7	838.4	810.1	785.3	760.4	709.0	613.3	535.3	464.4	125°	254.0
810.1	778.2	748.0	712.6	682.4	643.5	615.1	547.7	421.9	326.2	281.8	127.5°	277.0
709.0	664.7	631.0	583.2	549.5	496.3	466.2	384.7	276.5	234.0	219.8	130°	301.0
602.7	544.2	507.0	448.5	414.8	347.4	324.4	265.9	212.7	196.8	193.2	132.5°	325.0
489.2	418.3	377.6	313.7	290.7	249.9	232.2	203.8	179.0	171.9	175.5	135°	348.0
370.5	294.3	267.7	221.6	212.7	191.4	184.3	170.2	157.8	157.8	163.1	137.5°	369.0
264.1	205.6	198.5	170.2	168.4	157.8	152.4	145.4	141.8	145.4	152.4	140°	390.0
193.2	156.0	156.0	140.0	140.0	132.9	131.2	127.6	127.6	134.7	141.8	142.5°	412.0
152.4	127.6	131.2	118.8	120.5	115.2	117.0	115.2	117.0	122.3	127.6	145°	433.0
127.6	109.9	115.2	104.6	108.1	102.8	106.4	106.4	109.9	111.7	113.4	147.5°	452.0
113.4	101.0	104.6	97.5	101.0	95.7	101.0	101.0	102.8	102.8	102.8	150°	469.0
104.6	93.9	99.3	92.2	97.5	92.2	97.5	97.5	95.7	93.9	95.7	152.5°	486.0
99.3	92.2	97.5	90.4	95.7	90.4	93.9	92.2	88.6	88.6	88.6	155°	503.0
97.5	90.4	93.9	88.6	92.2	86.9	90.4	88.6	83.3	81.5	85.1	157.5°	517.0
97.5	88.6	93.9	86.9	90.4	85.1	88.6	83.3	78.0	78.0	83.3	160°	530.0
97.5	88.6	93.9	86.9	90.4	83.3	85.1	79.8	72.7	74.4	81.5	162.5°	540.0
99.3	92.2	95.7	88.6	90.4	79.8	83.3	76.2	70.9	72.7	78.0	165°	550.0
101.0	92.2	95.7	85.1	86.9	79.8	79.8	76.2	70.9	70.9	76.2	167.5°	558.0
101.0	90.4	92.2	83.3	85.1	76.2	78.0	74.4	69.1	67.4	70.9	170°	564.0
104.6	93.9	93.9	81.5	83.3	74.4	76.2	72.7	67.4	63.8	65.6	172.5°	567.0
108.1	95.7	97.5	85.1	85.1	76.2	78.0	70.9	63.8	60.3	62.0	175°	570.0
108.1	95.7	97.5	86.9	86.9	78.0	78.0	70.9	60.3	56.7	56.7	177.5°	574.0
102.8	93.9	95.7	86.9	86.9	78.0	78.0	69.1	58.5	53.2	51.4	180°	576.0
99.3	90.4	92.2	81.5	83.3	74.4	74.4	65.6	55.0	49.6	46.1		
90.4	83.3	83.3	76.2	74.4	65.6	65.6	60.3	51.4	44.3	40.8		
78.0	70.9	69.1	62.0	62.0	56.7	55.0	49.6	42.5	37.2	35.5		
63.8	55.0	55.0	46.1	46.1	40.8	42.5	37.2	31.9	30.1	28.4		
46.1	37.2	37.2	30.1	30.1	24.8	26.6	24.8	23.0	23.0	21.3		
28.4	19.5	21.3	16.0	19.5	14.2	16.0	14.2	14.2	12.4	12.4		
14.2	7.1	10.6	5.3	8.9	1.8	5.3	3.5	3.5	3.5	3.5		
1.8	0.0	1.8	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		

'228201
 ISS-AF-1200-LED-E1-SL3-8030-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°	1322.4	1322.4
158.0	158.0	158.0	158.0	157.5	157.0	156.0	154.0	151.0	149.0	2.5°	1201.8	1207.1
180.8	180.5	180.2	180.0	179.8	179.5	179.0	177.0	174.0	172.0	5°	1068.9	1070.6
204.0	204.0	204.0	204.0	203.5	203.0	202.0	201.0	198.0	196.0	7.5°	907.6	904.0
228.0	228.0	228.0	228.0	227.8	227.5	227.0	226.0	223.0	221.0	10°	693.1	684.2
253.8	253.5	253.2	253.0	252.8	252.5	252.0	251.0	248.0	247.0	12.5°	446.7	434.3
277.2	277.5	277.8	278.0	277.5	277.0	276.0	274.0	272.0	270.0	15°	269.4	265.9
301.0	301.0	301.0	301.0	300.5	300.0	299.0	298.0	294.0	293.0	17.5°	216.3	216.3
325.0	325.0	325.0	325.0	324.2	323.5	322.0	321.0	318.0	317.0	20°	193.2	193.2
348.0	348.0	348.0	348.0	347.2	346.5	345.0	345.0	341.0	339.0	22.5°	179.0	179.0
369.0	369.0	369.0	369.0	368.5	368.0	367.0	367.0	364.0	363.0	25°	168.4	170.2
390.0	390.0	390.0	390.0	389.8	389.5	389.0	388.0	386.0	385.0	27.5°	159.5	159.5
412.0	412.0	412.0	412.0	411.5	411.0	410.0	410.0	407.0	408.0	30°	148.9	148.9
433.2	433.5	433.8	434.0	433.5	433.0	432.0	431.0	428.0	428.0	32.5°	131.2	131.2
452.5	453.0	453.5	454.0	453.8	453.5	453.0	452.0	448.0	447.0	35°	117.0	115.2
469.5	470.0	470.5	471.0	470.8	470.5	470.0	469.0	465.0	464.0	37.5°	104.6	106.4
486.2	486.5	486.8	487.0	486.8	486.5	486.0	485.0	482.0	483.0	40°	95.7	97.5
503.2	503.5	503.8	504.0	503.8	503.5	503.0	503.0	501.0	502.0	42.5°	92.2	92.2
517.5	518.0	518.5	519.0	519.0	519.0	519.0	519.0	516.0	517.0	45°	88.6	88.6
530.5	531.0	531.5	532.0	532.0	532.0	532.0	532.0	529.0	529.0	47.5°	88.6	88.6
540.5	541.0	541.5	542.0	541.8	541.5	541.0	541.0	538.0	539.0	50°	86.9	88.6
550.8	551.5	552.2	553.0	552.8	552.5	552.0	552.0	548.0	549.0	52.5°	85.1	85.1
558.5	559.0	559.5	560.0	560.0	560.0	560.0	561.0	558.0	559.0	55°	79.8	81.5
564.2	564.5	564.8	565.0	565.2	565.5	566.0	567.0	565.0	566.0	57.5°	74.4	76.2
567.5	568.0	568.5	569.0	568.8	568.5	568.0	569.0	567.0	569.0	60°	69.1	69.1
570.8	571.5	572.2	573.0	572.8	572.5	572.0	572.0	569.0	570.0	62.5°	62.0	62.0
574.8	575.5	576.2	577.0	577.0	577.0	577.0	578.0	574.0	575.0	65°	56.7	56.7
576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	67.5°	49.6	49.6
										70°	44.3	44.3
										72.5°	39.0	39.0
										75°	33.7	33.7
										77.5°	28.4	26.6
										80°	21.3	21.3
										82.5°	12.4	12.4
										85°	3.5	3.5
										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

