

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: P228180

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P228180
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29762)-DOWNLIGHT AND
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: ISS-AF-800-LED-E1-SL3-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) 4000K CCT, 70 CRI LEDs and (1) UPLIGHT LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6115.4 lumens
Efficiency: N/A
Efficacy: 101.6 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

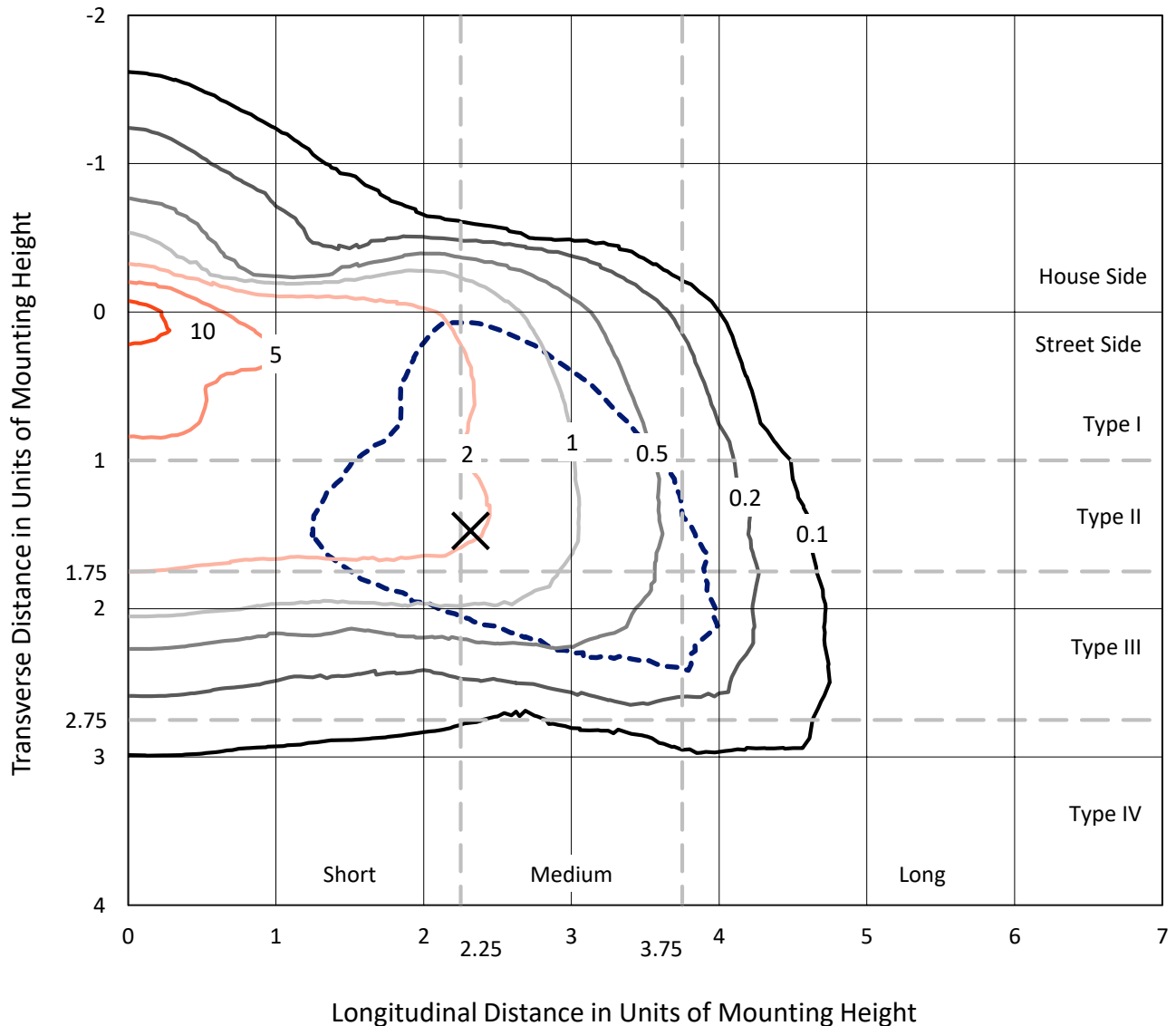
Input Watts (W): 60.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

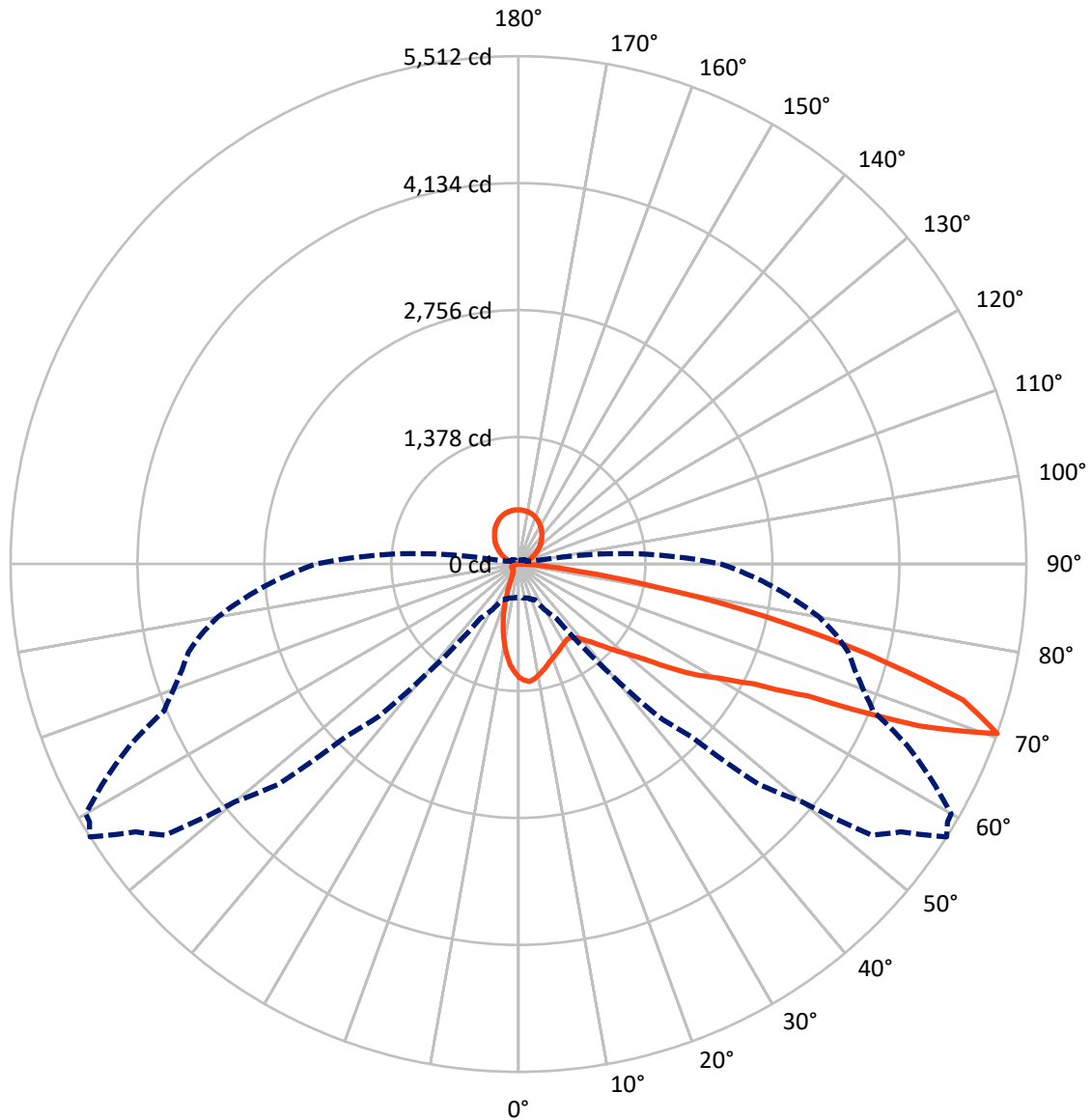
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.3 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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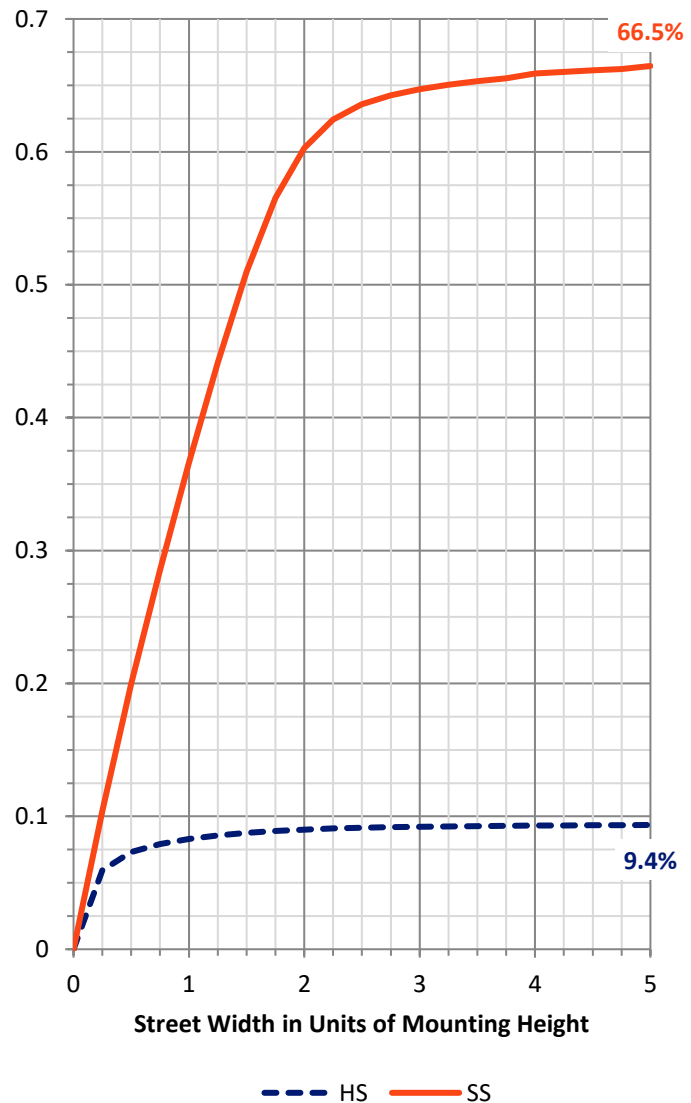
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	576.2	729.4	1305.7
	% Fixture	9.4	11.9	21.4
Street Side	Lumens	4080.2	729.4	4809.7
	% Fixture	66.7	11.9	78.6
Total	Lumens	4656.5	1458.9	6115.4
	% Fixture	76.1	23.9	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.4	1.7
10°-20°	231.0	3.8
20°-30°	290.4	4.7
30°-40°	379.5	6.2
40°-50°	569.3	9.3
50°-60°	900.0	14.7
60°-70°	1297.3	21.2
70°-80°	802.9	13.1
80°-90°	79.6	1.3
90°-100°	4.8	0.1
100°-110°	70.6	1.2
110°-120°	156.6	2.6
120°-130°	229.0	3.7
130°-140°	271.7	4.4
140°-150°	275.5	4.5
150°-160°	236.4	3.9
160°-170°	158.7	2.6
170°-180°	55.6	0.9
0°-90°	4656.5	76.1
0°-180°	6115.4	100.0



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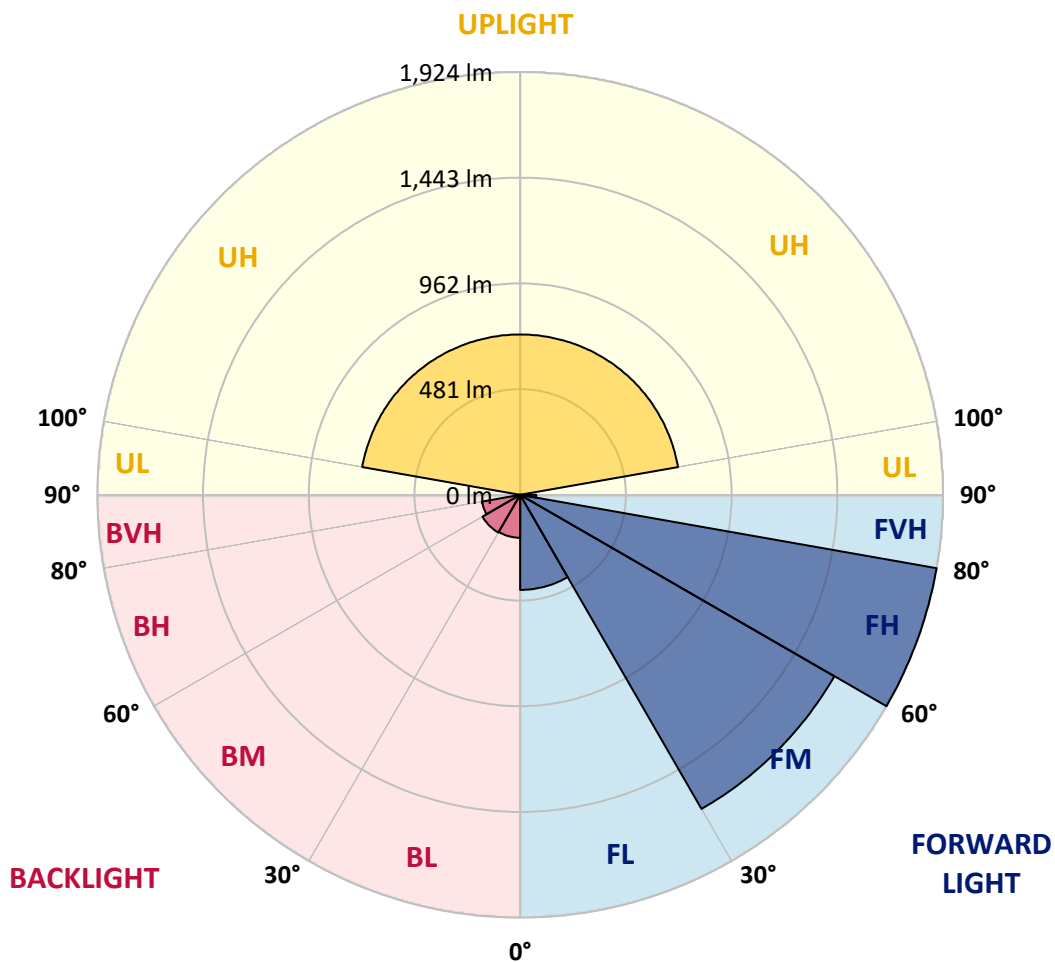
CATALOG NUMBER: ISS-AF-800-LED-E1-SL3-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	432.5	7.1			
FM	(30°-60°)	1650.6	27.0			
FH	(60°-80°)	1923.8	31.5			G2/5000
FVH	(80°-90°)	73.3	1.2			G1/100
BL	(0°-30°)	195.3	3.2	B1/500		
BM	(30°-60°)	198.2	3.2	B0/220		
BH	(60°-80°)	176.4	2.9	B1/500		G1/500
BVH	(80°-90°)	6.4	0.1			G0/10
UL	(90°-100°)	4.8	0.1		U1/10	
UH	(100°-180°)	729.4	11.9		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°	1232.5	1232.5	1232.5	1232.5	1232.5	1232.5	1232.5	1232.5	1232.5	1232.5	1232.5
2.5°	1293.6	1292.0	1288.6	1282.1	1278.8	1282.1	1278.8	1273.8	1267.2	1272.1	1268.9
5°	1290.4	1293.6	1287.0	1282.1	1290.4	1293.6	1287.0	1287.0	1280.4	1287.0	1283.7
7.5°	1225.9	1227.5	1229.2	1227.5	1249.0	1249.0	1245.7	1249.0	1250.7	1253.9	1255.6
10°	1144.9	1146.6	1149.9	1154.8	1181.3	1184.6	1186.2	1189.5	1194.5	1197.8	1207.7
12.5°	1064.0	1067.2	1073.9	1090.4	1118.5	1121.8	1126.8	1131.7	1140.0	1144.9	1163.1
15°	996.3	997.9	1004.5	1022.6	1064.0	1072.3	1075.5	1082.2	1098.6	1098.6	1118.5
17.5°	933.4	936.7	941.7	963.2	1004.5	1017.7	1027.7	1030.9	1052.4	1057.3	1080.5
20°	885.6	887.2	888.8	908.7	946.6	966.5	974.8	988.0	1004.5	1017.7	1037.6
22.5°	859.1	860.7	857.4	865.7	898.8	923.5	933.4	946.6	953.3	976.4	988.0
25°	860.7	862.4	854.2	849.2	865.7	892.1	900.4	913.6	910.3	943.4	943.4
27.5°	877.3	880.6	872.4	857.4	859.1	880.6	885.6	890.5	880.6	913.6	907.1
30°	910.3	913.6	903.7	892.1	874.0	887.2	887.2	887.2	869.0	897.1	885.6
32.5°	945.0	948.3	945.0	936.7	913.6	917.0	910.3	907.1	882.2	905.4	887.2
35°	996.3	997.9	999.5	999.5	966.5	973.1	954.9	945.0	921.9	940.1	915.2
37.5°	1057.3	1057.3	1068.9	1073.9	1037.6	1037.6	1017.7	1004.5	983.1	989.6	964.8
40°	1111.8	1116.9	1143.2	1158.2	1125.1	1111.8	1095.4	1083.8	1067.2	1067.2	1042.5
42.5°	1174.7	1184.6	1216.0	1244.0	1225.9	1206.1	1189.5	1177.9	1169.7	1168.0	1141.6
45°	1252.3	1263.9	1298.5	1325.0	1329.9	1315.1	1301.9	1290.4	1283.7	1280.4	1257.3
47.5°	1339.9	1351.4	1382.8	1414.2	1437.3	1434.1	1419.1	1407.6	1412.6	1409.2	1394.4
50°	1437.3	1444.0	1463.7	1500.2	1553.0	1564.6	1561.2	1553.0	1562.9	1562.9	1549.7
52.5°	1515.0	1520.0	1534.8	1577.8	1665.4	1691.8	1713.2	1729.8	1746.3	1756.2	1747.9
55°	1586.1	1586.1	1587.7	1642.2	1772.8	1815.7	1863.6	1898.3	1919.8	1959.5	1975.9
57.5°	1701.7	1693.4	1691.8	1749.7	1901.6	1946.2	2015.6	2065.1	2094.9	2175.8	2174.2
60°	1668.6	1671.9	1731.4	1901.6	2165.9	2205.6	2268.4	2321.3	2377.4	2436.9	2441.9
62.5°	1439.0	1447.3	1536.5	1790.9	2334.5	2541.0	2734.2	2881.3	2963.9	3016.8	2944.1
65°	1007.8	1027.7	1148.3	1458.8	2149.4	2468.3	2773.9	3114.3	3375.3	3780.1	3897.3
67.5°	502.3	517.1	536.9	765.0	1605.8	2053.6	2474.9	2939.1	3286.1	3880.9	4212.9
70°	360.2	366.7	381.7	429.5	718.7	1075.5	1571.2	2235.4	2643.4	3540.5	4009.8
72.5°	279.2	285.8	305.7	373.4	475.8	525.4	624.5	1021.0	1518.3	2445.2	3079.6
75°	216.5	226.4	254.4	337.1	457.7	485.7	490.7	527.0	601.4	1085.5	1726.4
77.5°	152.0	153.6	181.8	290.8	444.5	498.9	490.7	490.7	500.6	553.4	738.5
80°	100.8	102.4	120.6	201.5	389.9	454.3	502.3	479.2	480.8	489.1	502.3
82.5°	52.9	56.2	71.0	122.2	228.0	307.3	418.0	436.2	429.5	437.8	434.5
85°	14.8	14.8	24.8	46.2	112.3	119.0	185.1	252.8	257.7	292.5	312.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9	6.6	14.8	16.6
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	3.1	4.1	5.3	6.6	8.0	9.2	10.2	11.3
100°	8.2	8.2	10.2	14.3	22.5	24.6	26.6	28.6	30.7	31.2	31.7
102.5°	28.6	28.6	32.7	38.9	46.0	47.3	48.6	49.9	51.1	51.4	51.7
105°	55.2	55.2	57.3	62.4	67.5	68.5	69.6	70.6	71.6	71.8	72.1
107.5°	79.8	78.8	81.8	85.9	90.0	90.8	91.6	92.3	93.1	93.6	94.1
110°	103.3	104.3	105.4	108.4	112.5	113.0	113.5	114.1	114.6	115.1	115.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47.5°	50°
112.5°	126.8	126.8	128.9	132.0	135.0	135.5	136.1	136.6	137.1	137.6	138.1
115°	149.4	150.4	152.4	154.5	157.5	158.0	158.6	159.1	159.6	160.1	160.6
117.5°	172.9	173.9	175.9	178.0	181.1	181.6	182.1	182.6	183.1	183.3	183.6
120°	197.4	199.5	200.5	202.5	205.6	205.8	206.1	206.4	206.6	207.1	207.7
122.5°	224.0	225.0	226.1	228.1	231.2	231.4	231.7	232.0	232.2	232.4	232.7
125°	249.6	251.6	252.7	253.7	256.8	257.0	257.3	257.6	257.8	258.0	258.3
127.5°	273.1	275.2	276.2	278.2	280.3	280.8	281.3	281.8	282.3	282.8	283.4
130°	296.7	298.7	299.7	300.7	304.8	305.0	305.4	305.7	305.9	306.4	306.9
132.5°	320.2	321.2	324.3	325.3	328.4	328.6	328.9	329.2	329.4	330.2	330.9
135°	343.7	344.7	346.8	348.8	352.9	352.9	352.9	352.9	352.9	353.7	354.5
137.5°	367.2	368.3	371.3	372.4	375.4	375.4	375.4	375.4	375.4	375.9	376.4
140°	390.8	391.8	393.8	394.9	396.9	397.1	397.4	397.7	397.9	398.1	398.4
142.5°	413.3	415.3	417.4	416.3	419.4	419.4	419.4	419.4	419.4	419.9	420.4
145°	434.8	435.8	437.8	437.8	440.9	441.1	441.4	441.7	441.9	442.4	442.9
147.5°	454.2	454.2	457.3	458.3	462.4	462.6	462.9	463.2	463.4	463.6	463.9
150°	471.6	472.6	474.6	475.7	479.8	480.0	480.3	480.6	480.8	481.0	481.3
152.5°	490.0	491.0	494.1	493.1	496.1	496.3	496.6	496.9	497.2	497.4	497.7
155°	510.5	511.5	513.5	512.5	514.5	514.5	514.5	514.5	514.5	514.7	515.1
157.5°	524.8	526.8	528.9	527.8	530.9	530.9	530.9	530.9	530.9	530.9	530.9
160°	537.0	539.1	541.1	541.1	544.2	544.2	544.2	544.2	544.2	544.2	544.2
162.5°	547.3	548.3	551.4	550.3	553.4	553.4	553.4	553.4	553.4	553.6	553.9
165°	558.5	559.6	561.6	560.6	564.7	564.7	564.7	564.7	564.7	564.9	565.2
167.5°	567.7	568.8	571.8	570.8	573.9	573.7	573.4	573.1	572.9	572.9	572.9
170°	574.9	575.9	579.0	578.0	580.0	579.8	579.5	579.2	579.0	578.8	578.5
172.5°	578.0	579.0	582.1	580.0	582.1	581.9	581.5	581.2	581.0	581.2	581.5
175°	580.0	582.1	583.1	582.1	585.1	585.1	585.1	585.1	585.1	585.3	585.6
177.5°	585.1	586.2	588.2	587.2	591.3	591.1	590.8	590.4	590.2	590.2	590.2
180°	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2



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CANDELA DISTRIBUTION (continued):

	52.5°	55°	57.5°	59°	60°	62.5°	65°	67.5°	70°	72.5°	75°
0°	1232.5	1232.5	1232.5	1232.5	1232.5	1232.5	1232.5	1232.5	1232.5	1232.5	1232.5
2.5°	1272.1	1265.5	1263.9	1260.6	1262.2	1257.3	1255.6	1249.0	1249.0	1245.7	1242.4
5°	1280.4	1273.8	1280.4	1268.9	1270.5	1265.5	1257.3	1257.3	1250.7	1245.7	1235.8
7.5°	1257.3	1257.3	1258.9	1252.3	1253.9	1252.3	1242.4	1240.7	1230.8	1230.8	1219.3
10°	1214.3	1214.3	1220.9	1216.0	1217.6	1216.0	1211.0	1209.3	1206.1	1206.1	1187.9
12.5°	1164.7	1174.7	1184.6	1179.7	1179.7	1182.9	1182.9	1184.6	1182.9	1181.3	1166.4
15°	1123.4	1138.3	1148.3	1146.6	1148.3	1156.4	1159.8	1161.5	1166.4	1164.7	1151.5
17.5°	1085.5	1101.9	1110.2	1116.9	1121.8	1128.4	1138.3	1143.2	1149.9	1148.3	1135.0
20°	1050.8	1065.6	1080.5	1088.7	1090.4	1103.7	1115.2	1130.1	1133.3	1136.7	1120.1
22.5°	1014.4	1027.7	1057.3	1052.4	1064.0	1088.7	1095.4	1116.9	1116.9	1128.4	1105.3
25°	983.1	984.7	1030.9	1022.6	1032.6	1077.2	1082.2	1120.1	1110.2	1126.8	1100.3
27.5°	951.7	950.0	1006.2	996.3	1007.8	1068.9	1072.3	1125.1	1115.2	1135.0	1100.3
30°	928.5	923.5	988.0	968.1	984.7	1060.7	1062.3	1130.1	1121.8	1148.3	1111.8
32.5°	923.5	915.2	971.5	956.6	973.1	1052.4	1062.3	1148.3	1138.3	1171.4	1125.1
35°	945.0	931.8	979.7	966.5	979.7	1055.7	1070.6	1176.3	1164.7	1202.8	1156.4
37.5°	984.7	974.8	1014.4	1001.2	1011.1	1078.8	1092.1	1212.7	1211.0	1257.3	1204.4
40°	1054.0	1044.1	1075.5	1057.3	1065.6	1128.4	1135.0	1263.9	1268.9	1325.0	1272.1
42.5°	1148.3	1131.7	1156.4	1135.0	1146.6	1202.8	1196.1	1326.7	1341.5	1419.1	1358.1
45°	1268.9	1247.4	1262.2	1239.1	1247.4	1295.3	1277.1	1411.0	1425.8	1521.6	1467.1
47.5°	1401.0	1374.5	1392.7	1363.0	1368.0	1419.1	1386.1	1511.7	1534.8	1655.4	1602.6
50°	1559.6	1524.9	1531.6	1503.4	1506.7	1558.0	1521.6	1635.6	1663.7	1797.5	1751.3
52.5°	1762.9	1713.2	1713.2	1675.3	1676.9	1728.2	1683.5	1782.7	1814.0	1949.5	1918.1
55°	2030.5	1990.9	1982.6	1942.9	1929.7	1939.6	1876.8	1946.2	1980.9	2108.1	2083.3
57.5°	2243.6	2238.6	2263.4	2207.2	2194.0	2197.3	2118.0	2123.0	2162.6	2261.7	2270.0
60°	2503.0	2511.2	2514.5	2468.3	2463.4	2417.0	2336.1	2322.9	2372.4	2440.1	2466.6
62.5°	2916.0	2907.7	2866.4	2831.7	2800.3	2676.4	2631.8	2559.1	2628.6	2666.5	2721.0
65°	3803.2	3717.3	3453.0	3476.1	3393.4	3124.2	3086.1	2939.1	3048.2	3049.8	3152.2
67.5°	4682.1	4850.6	4688.7	4692.1	4505.4	4017.9	3900.7	3608.3	3669.4	3598.3	3651.2
70°	4832.5	5068.7	5511.6	5432.2	5422.3	5047.2	4652.4	4165.0	3981.6	3829.6	3707.4
72.5°	4158.4	4394.7	5044.0	4863.8	4931.6	5045.6	4634.3	4269.1	3859.4	3666.1	3401.7
75°	2925.9	3266.3	3925.5	3831.3	3880.9	4069.2	3715.7	3672.7	3198.6	3069.7	2663.3
77.5°	1567.9	1989.1	2727.7	2612.0	2633.5	2740.9	2372.4	2296.4	1838.9	1711.6	1250.7
80°	705.4	978.0	1531.6	1402.7	1364.6	1303.5	959.9	756.7	462.6	307.3	213.1
82.5°	467.6	485.7	679.0	588.2	550.1	454.3	294.1	173.5	137.2	115.7	110.7
85°	313.9	287.4	285.8	252.8	234.6	185.1	137.2	85.9	71.0	59.4	54.5
87.5°	18.2	11.6	16.6	18.2	13.2	11.6	8.3	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°	12.3	13.3	11.8	10.8	10.2	8.7	7.2	6.6	6.1	5.6	5.1
100°	32.2	32.7	32.2	31.9	31.7	31.2	30.7	29.9	29.2	28.4	27.6
102.5°	52.0	52.2	52.0	51.8	51.7	51.4	51.1	50.6	50.1	49.6	49.1
105°	72.4	72.6	72.6	72.6	72.6	72.6	72.6	72.1	71.6	71.1	70.6
107.5°	94.6	95.1	94.9	94.7	94.6	94.3	94.1	93.9	93.6	93.3	93.1
110°	116.1	116.6	116.6	116.6	116.6	116.6	116.6	116.4	116.1	115.8	115.6



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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°	138.6	139.1	139.1	139.1	139.1	139.1	139.1	138.9	138.6	138.3	138.1
115°	161.1	161.6	161.6	161.6	161.6	161.6	161.6	161.6	161.6	161.6	161.6
117.5°	183.9	184.1	184.3	184.5	184.6	184.9	185.2	184.9	184.6	184.3	184.1
120°	208.2	208.7	208.7	208.7	208.7	208.7	208.7	208.7	208.7	208.7	208.7
122.5°	233.0	233.2	233.2	233.2	233.2	233.2	233.2	233.4	233.7	234.1	234.3
125°	258.6	258.8	259.0	259.2	259.3	259.6	259.8	259.8	259.8	259.8	259.8
127.5°	283.9	284.4	284.2	284.0	283.9	283.6	283.4	283.6	283.9	284.2	284.4
130°	307.4	307.9	307.9	307.9	307.9	307.9	307.9	308.1	308.4	308.7	308.9
132.5°	331.6	332.5	332.5	332.5	332.5	332.5	332.5	332.7	333.0	333.3	333.5
135°	355.2	356.0	356.0	356.0	356.0	356.0	356.0	356.2	356.5	356.8	357.0
137.5°	377.0	377.5	377.5	377.5	377.5	377.5	377.5	377.7	378.0	378.3	378.5
140°	398.7	399.0	399.0	399.0	399.0	399.0	399.0	399.5	400.0	400.5	401.0
142.5°	420.9	421.5	421.5	421.5	421.5	421.5	421.5	421.7	422.0	422.3	422.5
145°	443.4	444.0	443.8	443.6	443.4	443.1	442.9	443.1	443.4	443.8	444.0
147.5°	464.2	464.4	463.9	463.6	463.4	462.9	462.4	462.6	462.9	463.2	463.4
150°	481.6	481.8	481.3	481.0	480.8	480.3	479.8	479.8	479.8	479.8	479.8
152.5°	498.0	498.2	498.0	497.8	497.7	497.4	497.2	497.2	497.2	497.2	497.2
155°	515.4	515.6	515.4	515.2	515.1	514.7	514.5	514.7	515.1	515.4	515.6
157.5°	530.9	530.9	530.4	530.1	529.9	529.4	528.9	529.1	529.4	529.7	529.9
160°	544.2	544.2	543.7	543.4	543.2	542.7	542.2	542.2	542.2	542.2	542.2
162.5°	554.2	554.4	553.9	553.6	553.4	552.9	552.4	551.9	551.4	550.9	550.3
165°	565.5	565.7	564.9	564.5	564.2	563.4	562.6	562.1	561.6	561.1	560.6
167.5°	572.9	572.9	572.3	572.0	571.8	571.3	570.8	571.0	571.3	571.6	571.8
170°	578.2	578.0	577.8	577.6	577.5	577.1	576.9	577.5	578.0	578.5	579.0
172.5°	581.9	582.1	581.5	581.2	581.0	580.5	580.0	580.2	580.5	580.8	581.0
175°	585.9	586.2	585.3	584.9	584.6	583.9	583.1	582.6	582.1	581.5	581.0
177.5°	590.2	590.2	589.4	589.0	588.7	588.0	587.2	587.2	587.2	587.2	587.2
180°	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2



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CANDELA DISTRIBUTION (continued):

	77.5°	80°	85°	90°	95°	100°	102.5°	105°	107.5°	110°	112.5°
0°	1232.5	1232.5	1232.5	1232.5	1232.5	1232.5	1232.5	1232.5	1232.5	1232.5	1232.5
2.5°	1234.2	1234.2	1232.5	1220.9	1214.3	1211.0	1199.4	1197.8	1192.9	1191.2	1191.2
5°	1232.5	1225.9	1217.6	1201.1	1184.6	1169.7	1164.7	1153.2	1144.9	1135.0	1135.0
7.5°	1209.3	1202.8	1184.6	1159.8	1138.3	1116.9	1105.3	1088.7	1075.5	1062.3	1059.1
10°	1182.9	1173.0	1148.3	1115.2	1087.1	1049.1	1034.2	1012.7	997.9	978.0	958.2
12.5°	1154.8	1148.3	1118.5	1080.5	1037.6	989.6	966.5	936.7	917.0	893.8	864.1
15°	1143.2	1130.1	1092.1	1044.1	991.2	933.4	900.4	869.0	839.3	812.8	773.1
17.5°	1128.4	1111.8	1068.9	1012.7	946.6	877.3	834.3	799.6	760.0	731.9	687.3
20°	1111.8	1087.1	1040.9	973.1	898.8	816.1	761.6	726.9	674.0	646.0	593.1
22.5°	1098.6	1067.2	1011.1	935.1	845.9	753.4	689.0	649.3	589.8	556.8	490.7
25°	1095.4	1057.3	989.6	903.7	801.3	692.2	614.6	574.9	500.6	462.6	384.9
27.5°	1097.0	1052.4	976.4	877.3	761.6	637.7	545.2	498.9	404.8	365.1	275.9
30°	1098.6	1054.0	963.2	854.2	725.3	581.5	472.5	418.0	305.7	271.0	191.6
32.5°	1115.2	1060.7	959.9	836.0	692.2	525.4	389.9	340.3	216.5	196.6	142.1
35°	1135.0	1082.2	966.5	832.7	667.5	469.2	305.7	254.4	155.3	150.4	115.7
37.5°	1176.3	1115.2	993.0	841.0	652.5	411.4	228.0	195.0	122.2	125.5	100.8
40°	1239.1	1171.4	1035.8	865.7	650.9	353.5	168.5	152.0	105.8	109.0	92.5
42.5°	1323.4	1249.0	1101.9	918.6	659.2	299.0	135.4	130.5	97.5	100.8	89.2
45°	1434.1	1358.1	1194.5	986.3	682.3	254.4	119.0	119.0	94.2	97.5	87.6
47.5°	1574.5	1490.2	1308.5	1077.2	718.7	229.7	112.3	114.0	92.5	97.5	87.6
50°	1733.1	1640.6	1453.9	1194.5	774.9	223.0	114.0	114.0	94.2	97.5	87.6
52.5°	1898.3	1812.4	1610.8	1328.3	852.5	237.9	117.3	115.7	94.2	97.5	85.9
55°	2066.8	1989.1	1784.3	1485.2	959.9	290.8	125.5	120.6	94.2	97.5	87.6
57.5°	2235.4	2180.8	1966.0	1653.8	1093.7	386.6	158.6	140.5	104.0	105.8	89.2
60°	2425.3	2385.7	2170.9	1875.2	1283.7	535.3	232.9	176.8	123.9	117.3	95.9
62.5°	2671.5	2661.6	2491.4	2194.0	1589.4	750.0	330.4	214.8	133.8	122.2	102.4
65°	3106.0	3132.5	2970.5	2567.4	1792.5	755.0	322.1	188.3	125.5	115.7	100.8
67.5°	3542.2	3464.5	3048.2	2511.2	1617.4	502.3	204.9	147.0	110.7	107.4	94.2
70°	3525.6	3314.2	2764.0	2195.7	1277.1	272.6	148.7	122.2	99.1	99.1	89.2
72.5°	3162.1	2848.3	2260.1	1738.0	852.5	173.5	125.5	107.4	90.8	89.2	82.7
75°	2380.7	2010.6	1452.2	1001.2	380.0	112.3	95.9	87.6	79.3	79.3	72.7
77.5°	1120.1	631.2	350.3	232.9	127.3	76.0	66.1	66.1	64.4	66.1	59.4
80°	152.0	137.2	117.3	102.4	77.6	52.9	47.9	49.6	47.9	49.6	44.6
82.5°	92.5	82.7	67.7	64.4	47.9	36.3	34.7	36.3	33.0	34.7	26.4
85°	44.6	39.7	31.4	29.8	24.8	21.5	18.2	21.5	16.6	18.2	11.6
87.5°	0.0	3.3	1.6	3.3	3.3	3.3	0.0	3.3	0.0	3.3	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°	4.9	4.6	4.1	4.1	4.1	4.6	4.9	5.1	5.6	6.1	6.6
100°	27.4	27.1	26.6	25.6	26.6	27.1	27.4	27.6	28.4	29.2	29.9
102.5°	49.3	49.6	50.1	49.1	50.1	49.6	49.3	49.1	49.6	50.1	50.6
105°	71.1	71.6	72.6	70.6	72.6	71.6	71.1	70.6	71.1	71.6	72.1
107.5°	93.3	93.6	94.1	93.1	94.1	93.6	93.3	93.1	93.3	93.6	93.9
110°	115.8	116.1	116.6	115.6	116.6	116.1	115.8	115.6	115.8	116.1	116.4



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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°	138.6	139.1	140.1	138.1	140.1	139.1	138.6	138.1	138.3	138.6	138.9	0°
115°	162.1	162.6	163.7	162.6	163.7	162.6	162.1	161.6	161.6	161.6	161.6	2.5°
117.5°	184.6	185.2	186.2	184.1	186.2	185.2	184.6	184.1	184.3	184.6	184.9	5°
120°	209.2	209.7	210.7	208.7	210.7	209.7	209.2	208.7	208.7	208.7	208.7	7.5°
122.5°	235.3	236.3	238.3	237.3	238.3	236.3	235.3	234.3	234.1	233.7	233.4	10°
125°	260.6	261.4	262.9	261.9	262.9	261.4	260.6	259.8	259.8	259.8	259.8	12.5°
127.5°	285.2	285.9	287.4	284.4	287.4	285.9	285.2	284.4	284.2	283.9	283.6	15°
130°	309.7	310.5	312.0	310.0	312.0	310.5	309.7	308.9	308.7	308.4	308.1	17.5°
132.5°	334.3	335.0	336.6	334.5	336.6	335.0	334.3	333.5	333.3	333.0	332.7	20°
135°	357.5	358.0	359.1	358.0	359.1	358.0	357.5	357.0	356.8	356.5	356.2	22.5°
137.5°	379.5	380.5	382.6	380.5	382.6	380.5	379.5	378.5	378.3	378.0	377.7	25°
140°	402.0	403.0	405.1	403.0	405.1	403.0	402.0	401.0	400.5	400.0	399.5	27.5°
142.5°	423.3	424.0	425.5	424.5	425.5	424.0	423.3	422.5	422.3	422.0	421.7	30°
145°	444.8	445.5	447.0	445.0	447.0	445.5	444.8	444.0	443.8	443.4	443.1	32.5°
147.5°	464.2	464.9	466.5	463.4	466.5	464.9	464.2	463.4	463.2	462.9	462.6	35°
150°	480.8	481.8	483.9	480.8	483.9	481.8	480.8	479.8	479.8	479.8	479.8	37.5°
152.5°	498.0	498.7	500.2	497.2	500.2	498.7	498.0	497.2	497.2	497.2	497.2	40°
155°	516.4	517.1	518.6	516.6	518.6	517.1	516.4	515.6	515.4	515.1	514.7	42.5°
157.5°	531.1	532.4	535.0	531.9	535.0	532.4	531.1	529.9	529.7	529.4	529.1	45°
160°	543.0	543.7	545.2	543.2	545.2	543.7	543.0	542.2	542.2	542.2	542.2	47.5°
162.5°	550.9	551.4	552.4	549.3	552.4	551.4	550.9	550.3	550.9	551.4	551.9	50°
165°	561.1	561.6	562.6	560.6	562.6	561.6	561.1	560.6	561.1	561.6	562.1	52.5°
167.5°	572.9	573.9	575.9	573.9	575.9	573.9	572.9	571.8	571.6	571.3	571.0	55°
170°	580.2	581.5	584.1	582.1	584.1	581.5	580.2	579.0	578.5	578.0	577.5	57.5°
172.5°	581.9	582.6	584.1	581.0	584.1	582.6	581.9	581.0	580.8	580.5	580.2	60°
175°	581.9	582.6	584.1	581.0	584.1	582.6	581.9	581.0	581.5	582.1	582.6	62.5°
177.5°	588.0	588.7	590.2	587.2	590.2	588.7	588.0	587.2	587.2	587.2	587.2	65°
180°	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	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°
1232.5	1232.5	1232.5	1232.5	1232.5	1232.5	1232.5	1232.5	1232.5	1232.5	1232.5	112.5°	139.1
1182.9	1177.9	1176.3	1169.7	1168.0	1161.5	1159.8	1153.2	1141.6	1136.7	1128.4	115°	161.6
1120.1	1111.8	1105.3	1101.9	1088.7	1082.2	1072.3	1059.1	1034.2	1022.6	1002.8	117.5°	185.2
1032.6	1030.9	1011.1	1004.5	988.0	976.4	961.6	940.1	903.7	882.2	850.9	120°	208.7
936.7	930.2	907.1	893.8	872.4	855.8	836.0	804.6	748.4	703.8	655.9	122.5°	233.2
847.5	827.7	801.3	781.4	755.0	731.9	708.8	660.8	571.6	498.9	432.8	125°	259.8
755.0	725.3	697.2	664.2	636.1	599.8	573.3	510.6	393.2	304.0	262.7	127.5°	283.4
660.8	619.5	588.2	543.6	512.2	462.6	434.5	358.5	257.7	218.1	204.9	130°	307.9
561.7	507.2	472.5	418.0	386.6	323.9	302.4	247.9	198.2	183.4	180.0	132.5°	332.5
456.0	389.9	351.9	292.5	271.0	232.9	216.5	190.0	166.8	160.3	163.6	135°	356.0
345.2	274.3	249.5	206.5	198.2	178.4	171.9	158.6	147.0	147.0	152.0	137.5°	377.5
246.1	191.6	185.1	158.6	156.9	147.0	142.1	135.4	132.2	135.4	142.1	140°	399.0
180.0	145.4	145.4	130.5	130.5	123.9	122.2	119.0	119.0	125.5	132.2	142.5°	421.5
142.1	119.0	122.2	110.7	112.3	107.4	109.0	107.4	109.0	114.0	119.0	145°	442.9
119.0	102.4	107.4	97.5	100.8	95.9	99.1	99.1	102.4	104.0	105.8	147.5°	462.4
105.8	94.2	97.5	90.8	94.2	89.2	94.2	94.2	95.9	95.9	95.9	150°	479.8
97.5	87.6	92.5	85.9	90.8	85.9	90.8	90.8	89.2	87.6	89.2	152.5°	497.2
92.5	85.9	90.8	84.3	89.2	84.3	87.6	85.9	82.7	82.7	82.7	155°	514.5
90.8	84.3	87.6	82.7	85.9	80.9	84.3	82.7	77.6	76.0	79.3	157.5°	528.9
90.8	82.7	87.6	80.9	84.3	79.3	82.7	77.6	72.7	72.7	77.6	160°	542.2
90.8	82.7	87.6	80.9	84.3	77.6	79.3	74.4	67.7	69.4	76.0	162.5°	552.4
92.5	85.9	89.2	82.7	84.3	74.4	77.6	71.0	66.1	67.7	72.7	165°	562.6
94.2	85.9	89.2	79.3	80.9	74.4	74.4	71.0	66.1	66.1	71.0	167.5°	570.8
94.2	84.3	85.9	77.6	79.3	71.0	72.7	69.4	64.4	62.8	66.1	170°	576.9
97.5	87.6	87.6	76.0	77.6	69.4	71.0	67.7	62.8	59.4	61.2	172.5°	580.0
100.8	89.2	90.8	79.3	79.3	71.0	72.7	66.1	59.4	56.2	57.8	175°	583.1
100.8	89.2	90.8	80.9	80.9	72.7	72.7	66.1	56.2	52.9	52.9	177.5°	587.2
95.9	87.6	89.2	80.9	80.9	72.7	72.7	64.4	54.5	49.6	47.9	180°	589.2
92.5	84.3	85.9	76.0	77.6	69.4	69.4	61.2	51.2	46.2	43.0		
84.3	77.6	77.6	71.0	69.4	61.2	61.2	56.2	47.9	41.3	38.0		
72.7	66.1	64.4	57.8	57.8	52.9	51.2	46.2	39.7	34.7	33.0		
59.4	51.2	51.2	43.0	43.0	38.0	39.7	34.7	29.8	28.1	26.4		
43.0	34.7	34.7	28.1	28.1	23.1	24.8	23.1	21.5	21.5	19.8		
26.4	18.2	19.8	14.8	18.2	13.2	14.8	13.2	13.2	11.6	11.6		
13.2	6.6	9.9	4.9	8.3	1.6	4.9	3.3	3.3	3.3	3.3		
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		
7.2	8.7	10.2	11.8	13.3	12.3	11.3	9.2	4.1	3.1	2.0		
30.7	31.2	31.7	32.2	32.7	32.2	31.7	30.7	22.5	14.3	10.2		
51.1	51.4	51.7	52.0	52.2	52.0	51.7	51.1	46.0	38.9	32.7		
72.6	72.6	72.6	72.6	72.6	72.4	72.1	71.6	67.5	62.4	57.3		
94.1	94.3	94.6	94.9	95.1	94.6	94.1	93.1	90.0	85.9	81.8		
116.6	116.6	116.6	116.6	116.6	116.1	115.6	114.6	112.5	108.4	105.4		

'228180
 ISS-AF-800-LED-E1-SL3-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°
139.1	139.1	139.1	139.1	138.6	138.1	137.1	135.0	132.0	128.9	0°	1232.5	1232.5
161.6	161.6	161.6	161.6	161.1	160.6	159.6	157.5	154.5	152.4	2.5°	1120.1	1125.1
184.9	184.6	184.3	184.1	183.9	183.6	183.1	181.1	178.0	175.9	5°	996.3	997.9
208.7	208.7	208.7	208.7	208.2	207.7	206.6	205.6	202.5	200.5	7.5°	845.9	842.6
233.2	233.2	233.2	233.2	233.0	232.7	232.2	231.2	228.1	226.1	10°	646.0	637.7
259.6	259.3	259.0	258.8	258.6	258.3	257.8	256.8	253.7	252.7	12.5°	416.3	404.8
283.6	283.9	284.2	284.4	283.9	283.4	282.3	280.3	278.2	276.2	15°	251.1	247.9
307.9	307.9	307.9	307.9	307.4	306.9	305.9	304.8	300.7	299.7	17.5°	201.5	201.5
332.5	332.5	332.5	332.5	331.6	330.9	329.4	328.4	325.3	324.3	20°	180.0	180.0
356.0	356.0	356.0	356.0	355.2	354.5	352.9	352.9	348.8	346.8	22.5°	166.8	166.8
377.5	377.5	377.5	377.5	377.0	376.4	375.4	375.4	372.4	371.3	25°	156.9	158.6
399.0	399.0	399.0	399.0	398.7	398.4	397.9	396.9	394.9	393.8	27.5°	148.7	148.7
421.5	421.5	421.5	421.5	420.9	420.4	419.4	419.4	416.3	417.4	30°	138.8	138.8
443.1	443.4	443.8	444.0	443.4	442.9	441.9	440.9	437.8	437.8	32.5°	122.2	122.2
462.9	463.4	463.9	464.4	464.2	463.9	463.4	462.4	458.3	457.3	35°	109.0	107.4
480.3	480.8	481.3	481.8	481.6	481.3	480.8	479.8	475.7	474.6	37.5°	97.5	99.1
497.4	497.7	498.0	498.2	498.0	497.7	497.2	496.1	493.1	494.1	40°	89.2	90.8
514.7	515.1	515.4	515.6	515.4	515.1	514.5	514.5	512.5	513.5	42.5°	85.9	85.9
529.4	529.9	530.4	530.9	530.9	530.9	530.9	530.9	527.8	528.9	45°	82.7	82.7
542.7	543.2	543.7	544.2	544.2	544.2	544.2	544.2	541.1	541.1	47.5°	82.7	82.7
552.9	553.4	553.9	554.4	554.2	553.9	553.4	553.4	550.3	551.4	50°	80.9	82.7
563.4	564.2	564.9	565.7	565.5	565.2	564.7	564.7	560.6	561.6	52.5°	79.3	79.3
571.3	571.8	572.3	572.9	572.9	572.9	572.9	573.9	570.8	571.8	55°	74.4	76.0
577.1	577.5	577.8	578.0	578.2	578.5	579.0	580.0	578.0	579.0	57.5°	69.4	71.0
580.5	581.0	581.5	582.1	581.9	581.5	581.0	582.1	580.0	582.1	60°	64.4	64.4
583.9	584.6	585.3	586.2	585.9	585.6	585.1	585.1	582.1	583.1	62.5°	57.8	57.8
588.0	588.7	589.4	590.2	590.2	590.2	590.2	591.3	587.2	588.2	65°	52.9	52.9
589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	67.5°	46.2	46.2
										70°	41.3	41.3
										72.5°	36.3	36.3
										75°	31.4	31.4
										77.5°	26.4	24.8
										80°	19.8	19.8
										82.5°	11.6	11.6
										85°	3.3	3.3
										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°	8.2	8.2
										102.5°	28.6	28.6
										105°	55.2	55.2
										107.5°	78.8	79.8
										110°	104.3	103.3



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CANDELA DISTRIBUTION (continued):

	175°	180°
112.5°	126.8	126.8
115°	150.4	149.4
117.5°	173.9	172.9
120°	199.5	197.4
122.5°	225.0	224.0
125°	251.6	249.6
127.5°	275.2	273.1
130°	298.7	296.7
132.5°	321.2	320.2
135°	344.7	343.7
137.5°	368.3	367.2
140°	391.8	390.8
142.5°	415.3	413.3
145°	435.8	434.8
147.5°	454.2	454.2
150°	472.6	471.6
152.5°	491.0	490.0
155°	511.5	510.5
157.5°	526.8	524.8
160°	539.1	537.0
162.5°	548.3	547.3
165°	559.6	558.5
167.5°	568.8	567.7
170°	575.9	574.9
172.5°	579.0	578.0
175°	582.1	580.0
177.5°	586.2	585.1
180°	589.2	589.2

(END OF REPORT)

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

