

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: P271593

Luminaire Tested: **ISS-AF-800-LED-E1-SL3-7027-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271593
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-SL3-7027-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) 2700K CCT, 70 CRI LEDs and (1) UPLIGHT LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5354.2 lumens
Efficiency: N/A
Efficacy: 88.9 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 - G1

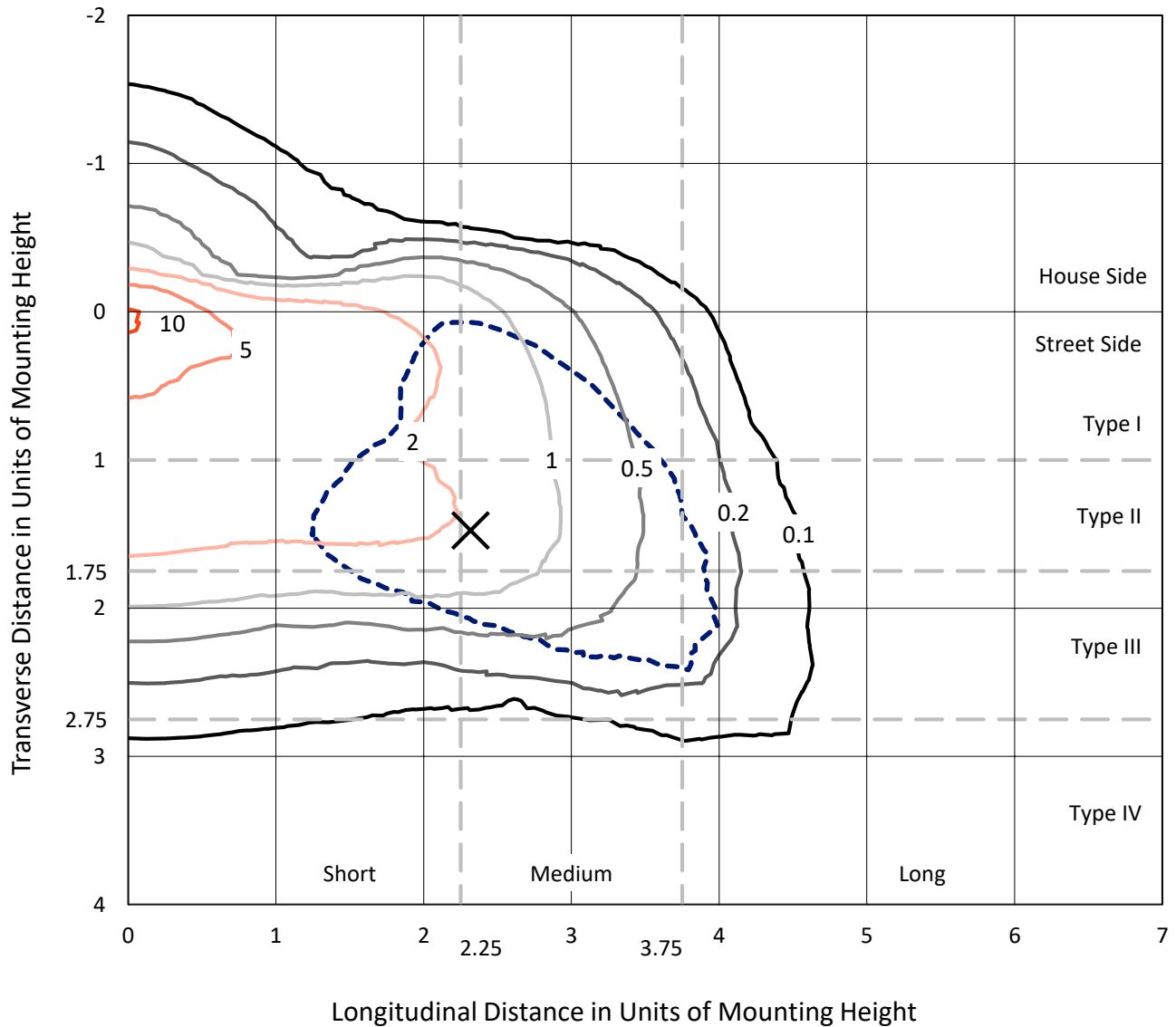
Input Watts (W): 60.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

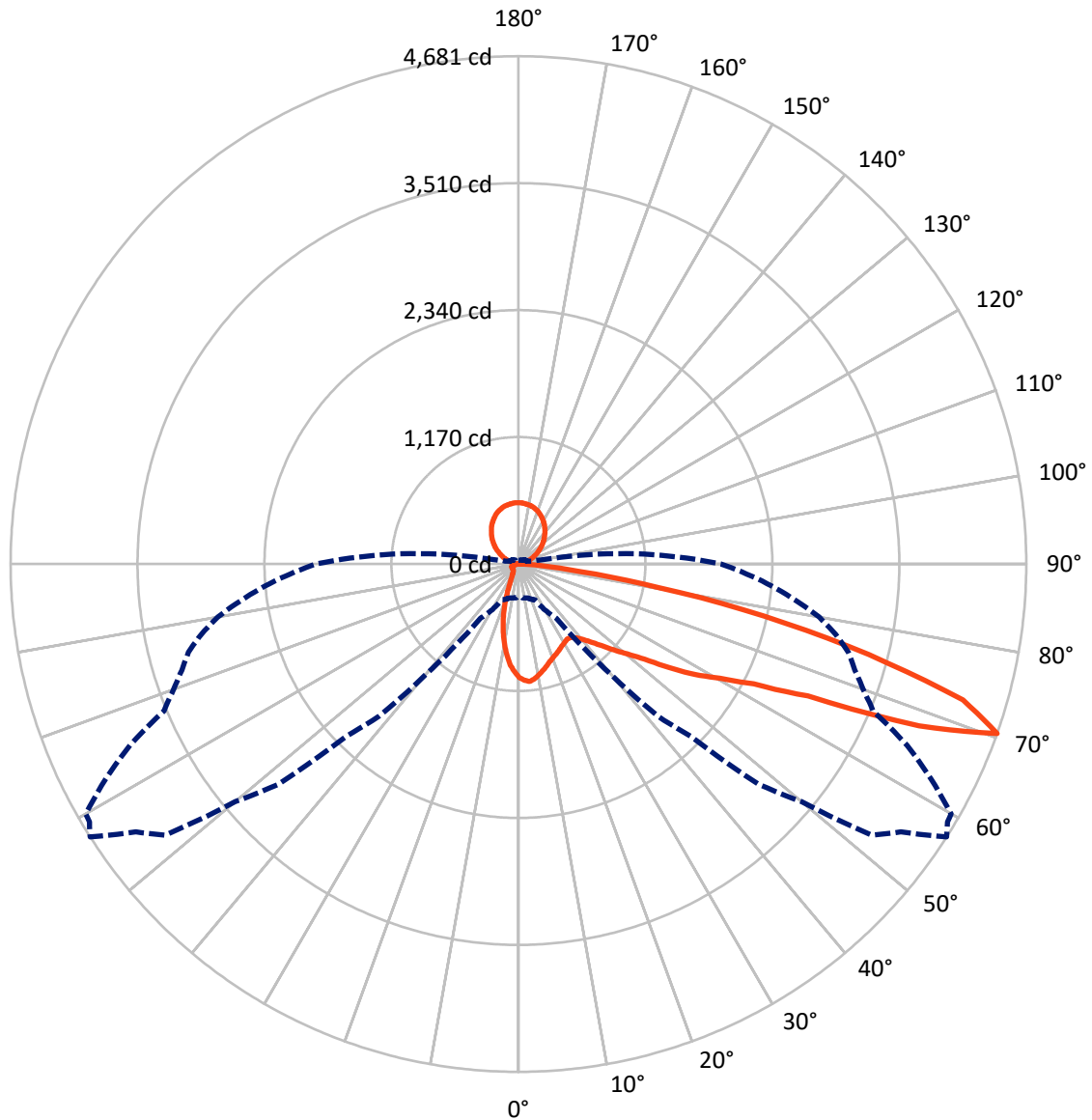
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.5 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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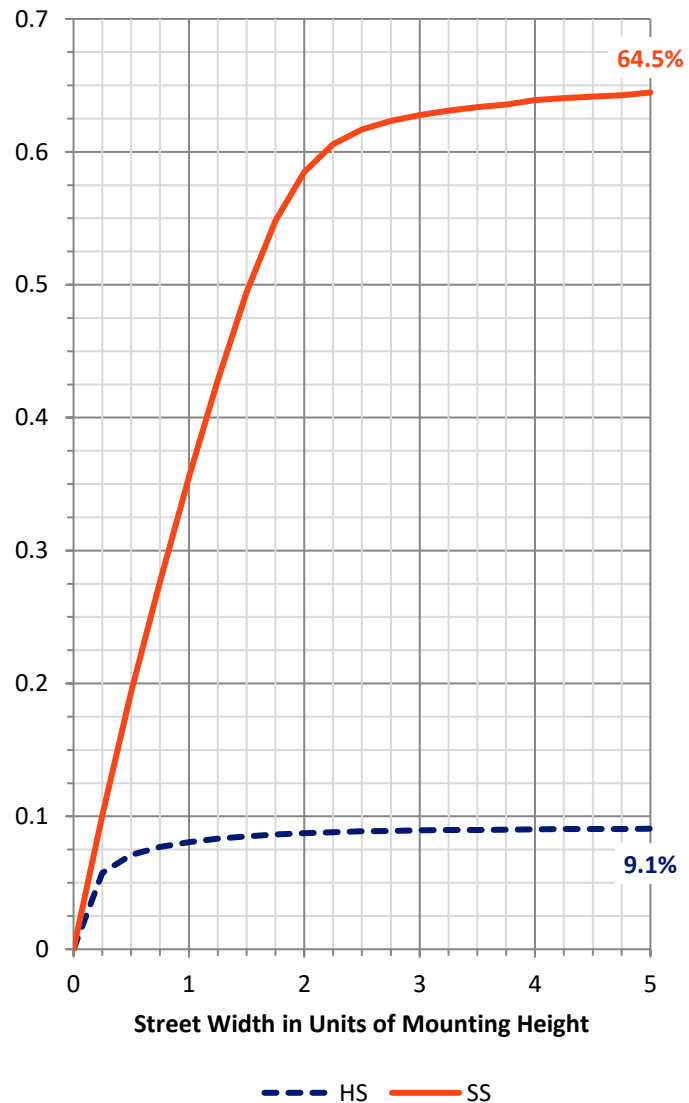
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	489.3	699.9	1189.2
	% Fixture	9.1	13.1	22.2
Street Side	Lumens	3465.1	699.9	4164.9
	% Fixture	64.7	13.1	77.8
Total	Lumens	3954.4	1399.8	5354.2
	% Fixture	73.9	26.1	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.4	1.7
10°-20°	196.2	3.7
20°-30°	246.6	4.6
30°-40°	322.2	6.0
40°-50°	483.5	9.0
50°-60°	764.3	14.3
60°-70°	1101.7	20.6
70°-80°	681.8	12.7
80°-90°	67.6	1.3
90°-100°	4.7	0.1
100°-110°	67.7	1.3
110°-120°	150.2	2.8
120°-130°	219.7	4.1
130°-140°	260.7	4.9
140°-150°	264.3	4.9
150°-160°	226.8	4.2
160°-170°	152.2	2.8
170°-180°	53.3	1.0
0°-90°	3954.4	73.9
0°-180°	5354.2	100.0



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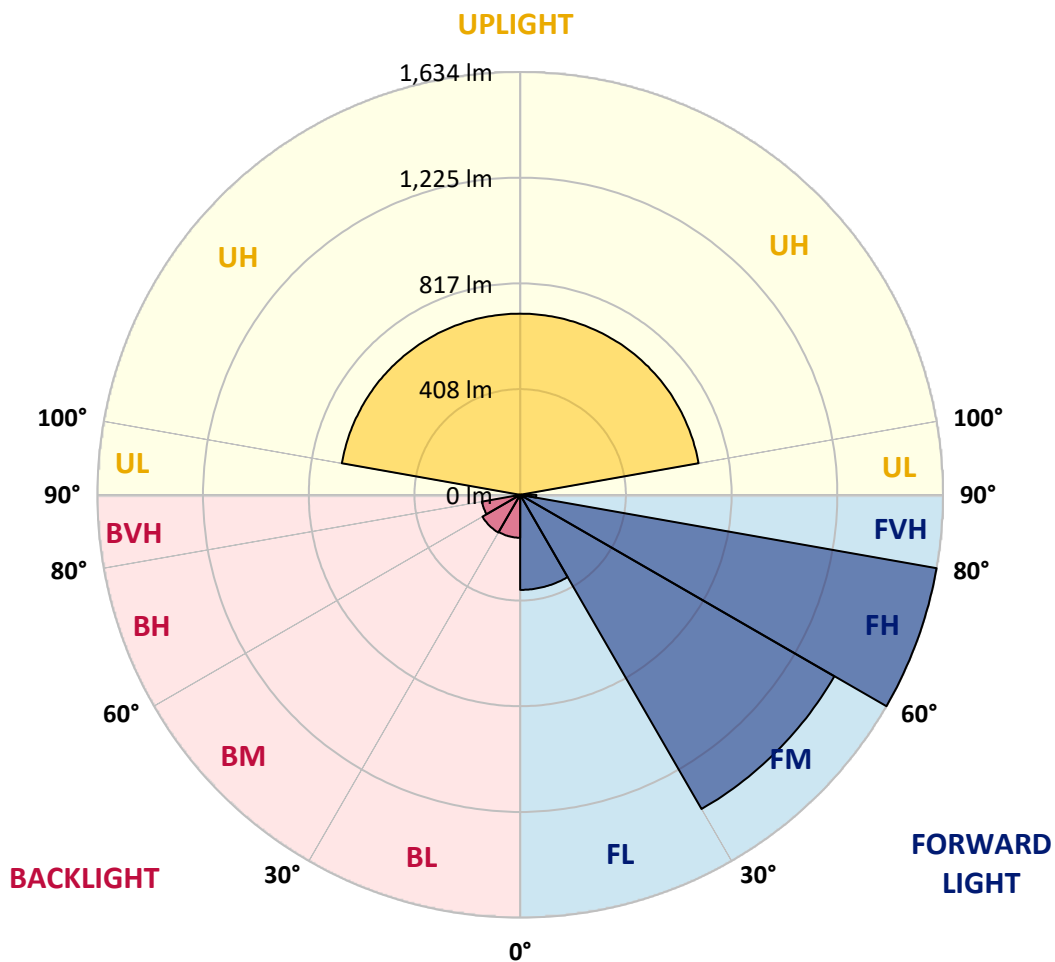
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	367.3	6.9			
FM	(30°-60°)	1401.8	26.2			
FH	(60°-80°)	1633.8	30.5			G1/1800
FVH	(80°-90°)	62.2	1.2			G1/100
BL	(0°-30°)	165.9	3.1	B1/500		
BM	(30°-60°)	168.3	3.1	B0/220		
BH	(60°-80°)	149.8	2.8	B1/500		G1/500
BVH	(80°-90°)	5.4	0.1			G0/10
UL	(90°-100°)	4.7	0.1		U1/10	
UH	(100°-180°)	699.9	13.1		U4/1000	

BUG Rating: B1-U5-G1

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°	1046.6	1046.6	1046.6	1046.6	1046.6	1046.6	1046.6	1046.6	1046.6	1046.6	1046.6
2.5°	1098.5	1097.2	1094.3	1088.7	1085.9	1088.7	1085.9	1081.6	1076.1	1080.3	1077.6
5°	1095.8	1098.5	1093.0	1088.7	1095.8	1098.5	1093.0	1093.0	1087.4	1093.0	1090.1
7.5°	1041.0	1042.4	1043.8	1042.4	1060.7	1060.7	1057.8	1060.7	1062.1	1064.9	1066.3
10°	972.2	973.8	976.5	980.7	1003.1	1006.0	1007.4	1010.1	1014.4	1017.2	1025.7
12.5°	903.5	906.4	912.0	926.1	949.9	952.7	956.9	961.1	968.1	972.2	987.8
15°	846.0	847.4	853.0	868.5	903.5	910.5	913.4	919.0	933.0	933.0	949.9
17.5°	792.8	795.4	799.7	818.0	853.0	864.3	872.6	875.5	893.7	897.9	917.6
20°	752.0	753.4	754.8	771.6	803.9	820.8	827.8	838.9	853.0	864.3	881.1
22.5°	729.5	731.0	728.2	735.3	763.2	784.3	792.8	803.9	809.6	829.1	838.9
25°	731.0	732.4	725.4	721.2	735.3	757.6	764.6	775.9	773.1	801.1	801.1
27.5°	745.1	747.7	740.8	728.2	729.5	747.7	752.0	756.2	747.7	775.9	770.3
30°	773.1	775.9	767.4	757.6	742.2	753.4	753.4	753.4	738.0	761.9	752.0
32.5°	802.5	805.3	802.5	795.4	775.9	778.7	773.1	770.3	749.3	768.9	753.4
35°	846.0	847.4	848.8	848.8	820.8	826.4	811.0	802.5	783.0	798.3	777.2
37.5°	897.9	897.9	907.7	912.0	881.1	881.1	864.3	853.0	834.9	840.5	819.3
40°	944.3	948.4	970.9	983.6	955.4	944.3	930.3	920.4	906.4	906.4	885.3
42.5°	997.6	1006.0	1032.6	1056.5	1041.0	1024.2	1010.1	1000.4	993.3	992.0	969.5
45°	1063.5	1073.4	1102.8	1125.3	1129.3	1116.9	1105.5	1095.8	1090.1	1087.4	1067.7
47.5°	1137.8	1147.7	1174.4	1201.0	1220.7	1217.8	1205.2	1195.4	1199.6	1196.8	1184.1
50°	1220.7	1226.3	1243.1	1274.0	1318.8	1328.6	1325.9	1318.8	1327.2	1327.2	1316.1
52.5°	1286.6	1290.8	1303.4	1339.9	1414.2	1436.7	1455.0	1469.0	1483.0	1491.5	1484.4
55°	1346.9	1346.9	1348.4	1394.6	1505.5	1541.9	1582.6	1612.1	1630.3	1664.0	1678.0
57.5°	1445.1	1438.1	1436.7	1485.8	1615.0	1652.8	1711.7	1753.9	1779.0	1847.8	1846.4
60°	1417.1	1420.0	1470.3	1615.0	1839.4	1873.1	1926.3	1971.2	2019.0	2069.4	2073.6
62.5°	1222.1	1229.0	1304.8	1520.9	1982.5	2157.9	2322.0	2446.8	2517.1	2562.0	2500.3
65°	855.8	872.6	975.1	1238.9	1825.4	2096.1	2355.6	2644.7	2866.4	3210.1	3309.7
67.5°	426.5	439.1	456.0	649.7	1363.8	1744.0	2101.8	2496.0	2790.7	3295.7	3577.7
70°	305.9	311.4	324.1	364.8	610.3	913.4	1334.3	1898.3	2244.9	3006.6	3405.1
72.5°	237.2	242.7	259.6	317.1	404.1	446.2	530.4	867.0	1289.3	2076.5	2615.2
75°	183.8	192.1	216.0	286.2	388.7	412.5	416.7	447.5	510.7	921.8	1466.1
77.5°	129.1	130.4	154.3	246.9	377.4	423.7	416.7	416.7	425.1	470.0	627.2
80°	85.6	87.0	102.5	171.1	331.1	385.8	426.5	406.9	408.3	415.3	426.5
82.5°	44.8	47.7	60.4	103.8	193.7	261.0	355.0	370.4	364.8	371.8	369.0
85°	12.7	12.7	21.0	39.3	95.4	101.0	157.1	214.7	218.8	248.3	265.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	5.6	12.7	14.0
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°	2.0	2.0	2.0	3.0	4.0	5.1	6.4	7.6	8.8	9.8	10.8
100°	7.8	7.8	9.8	13.7	21.6	23.5	25.5	27.5	29.5	29.9	30.5
102.5°	27.5	27.5	31.4	37.3	44.2	45.4	46.6	47.9	49.0	49.2	49.6
105°	53.0	53.0	55.0	59.8	64.8	65.8	66.7	67.7	68.7	68.9	69.2
107.5°	76.5	75.5	78.5	82.5	86.3	87.1	87.9	88.6	89.3	89.8	90.3
110°	99.2	100.1	101.1	104.0	108.0	108.4	109.0	109.4	110.0	110.4	110.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47.5°	50°
112.5°	121.7	121.7	123.7	126.6	129.5	130.1	130.5	131.1	131.5	132.1	132.5
115°	143.3	144.3	146.2	148.2	151.2	151.6	152.2	152.6	153.1	153.6	154.1
117.5°	165.8	166.8	168.8	170.8	173.7	174.2	174.7	175.2	175.7	175.9	176.2
120°	189.5	191.4	192.3	194.3	197.3	197.4	197.8	198.1	198.3	198.7	199.2
122.5°	215.0	216.0	216.9	218.8	221.8	222.0	222.3	222.6	222.8	223.0	223.3
125°	239.5	241.5	242.5	243.4	246.3	246.6	246.9	247.1	247.3	247.6	247.8
127.5°	262.0	264.0	265.0	267.0	269.0	269.4	269.9	270.4	270.9	271.4	271.8
130°	284.7	286.6	287.5	288.5	292.5	292.7	292.9	293.3	293.5	293.9	294.5
132.5°	307.2	308.2	311.2	312.1	315.0	315.2	315.6	315.8	316.0	316.8	317.6
135°	329.8	330.8	332.7	334.7	338.6	338.6	338.6	338.6	338.6	339.4	340.1
137.5°	352.3	353.3	356.3	357.3	360.2	360.2	360.2	360.2	360.2	360.7	361.2
140°	375.0	375.9	377.8	378.8	380.8	381.0	381.3	381.6	381.8	382.0	382.3
142.5°	396.5	398.5	400.5	399.5	402.4	402.4	402.4	402.4	402.4	402.9	403.4
145°	417.2	418.1	420.0	420.0	423.0	423.2	423.6	423.8	424.0	424.4	425.0
147.5°	435.8	435.8	438.7	439.7	443.7	443.9	444.1	444.4	444.6	444.8	445.1
150°	452.5	453.5	455.4	456.4	460.3	460.5	460.8	461.1	461.3	461.5	461.8
152.5°	470.2	471.1	474.0	473.0	476.0	476.2	476.6	476.8	477.0	477.2	477.4
155°	489.8	490.7	492.7	491.7	493.7	493.7	493.7	493.7	493.7	493.9	494.2
157.5°	503.5	505.5	507.5	506.5	509.4	509.4	509.4	509.4	509.4	509.4	509.4
160°	515.3	517.2	519.2	519.2	522.2	522.2	522.2	522.2	522.2	522.2	522.2
162.5°	525.1	526.0	529.0	528.0	531.0	531.0	531.0	531.0	531.0	531.2	531.4
165°	535.9	536.8	538.8	537.8	541.8	541.8	541.8	541.8	541.8	541.9	542.3
167.5°	544.7	545.7	548.7	547.7	550.6	550.4	550.1	549.9	549.7	549.7	549.7
170°	551.6	552.5	555.5	554.5	556.5	556.3	556.1	555.7	555.5	555.3	555.1
172.5°	554.5	555.5	558.5	556.5	558.5	558.3	557.9	557.7	557.5	557.7	557.9
175°	556.5	558.5	559.5	558.5	561.4	561.4	561.4	561.4	561.4	561.6	561.9
177.5°	561.4	562.4	564.3	563.3	567.3	567.1	566.8	566.5	566.3	566.3	566.3
180°	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3



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CANDELA DISTRIBUTION (continued):

	52.5°	55°	57.5°	59°	60°	62.5°	65°	67.5°	70°	72.5°	75°
0°	1046.6	1046.6	1046.6	1046.6	1046.6	1046.6	1046.6	1046.6	1046.6	1046.6	1046.6
2.5°	1080.3	1074.7	1073.4	1070.5	1071.9	1067.7	1066.3	1060.7	1060.7	1057.8	1055.1
5°	1087.4	1081.6	1087.4	1077.6	1079.0	1074.7	1067.7	1067.7	1062.1	1057.8	1049.5
7.5°	1067.7	1067.7	1069.2	1063.5	1064.9	1063.5	1055.1	1053.7	1045.3	1045.3	1035.5
10°	1031.3	1031.3	1036.8	1032.6	1033.9	1032.6	1028.4	1027.0	1024.2	1024.2	1008.8
12.5°	989.1	997.6	1006.0	1001.8	1001.8	1004.6	1004.6	1006.0	1004.6	1003.1	990.5
15°	954.1	966.7	975.1	973.8	975.1	982.2	984.9	986.2	990.5	989.1	978.0
17.5°	921.8	935.9	942.8	948.4	952.7	958.2	966.7	970.9	976.5	975.1	963.9
20°	892.4	905.0	917.6	924.5	926.1	937.2	947.0	959.7	962.4	965.3	951.2
22.5°	861.5	872.6	897.9	893.7	903.5	924.5	930.3	948.4	948.4	958.2	938.5
25°	834.9	836.2	875.5	868.5	876.8	914.7	919.0	951.2	942.8	956.9	934.3
27.5°	808.1	806.8	854.5	846.0	855.8	907.7	910.5	955.4	947.0	963.9	934.3
30°	788.5	784.3	838.9	822.2	836.2	900.7	902.2	959.7	952.7	975.1	944.3
32.5°	784.3	777.2	824.9	812.3	826.4	893.7	902.2	975.1	966.7	994.7	955.4
35°	802.5	791.2	832.0	820.8	832.0	896.6	909.2	998.9	989.1	1021.5	982.2
37.5°	836.2	827.8	861.5	850.2	858.7	916.2	927.4	1029.9	1028.4	1067.7	1022.8
40°	895.1	886.6	913.4	897.9	905.0	958.2	963.9	1073.4	1077.6	1125.3	1080.3
42.5°	975.1	961.1	982.2	963.9	973.8	1021.5	1015.8	1126.7	1139.3	1205.2	1153.2
45°	1077.6	1059.3	1071.9	1052.3	1059.3	1100.0	1084.5	1198.2	1210.8	1292.2	1245.9
47.5°	1189.7	1167.3	1182.8	1157.5	1161.7	1205.2	1177.2	1283.8	1303.4	1405.8	1360.9
50°	1324.4	1295.0	1300.6	1276.7	1279.5	1323.0	1292.2	1389.0	1412.9	1526.5	1487.2
52.5°	1497.0	1455.0	1455.0	1422.6	1424.0	1467.7	1429.7	1513.8	1540.5	1655.6	1629.0
55°	1724.4	1690.6	1683.6	1650.0	1638.8	1647.1	1593.9	1652.8	1682.3	1790.2	1769.2
57.5°	1905.3	1901.2	1922.1	1874.4	1863.3	1866.0	1798.7	1802.9	1836.6	1920.8	1927.8
60°	2125.6	2132.6	2135.5	2096.1	2092.0	2052.6	1983.9	1972.7	2014.8	2072.3	2094.7
62.5°	2476.4	2469.4	2434.2	2404.9	2378.2	2272.9	2235.1	2173.3	2232.2	2264.4	2310.8
65°	3229.8	3156.8	2932.3	2952.0	2881.9	2653.1	2620.9	2496.0	2588.6	2590.0	2676.9
67.5°	3976.2	4119.3	3981.7	3984.6	3826.0	3412.1	3312.6	3064.2	3116.1	3055.9	3100.7
70°	4103.9	4304.5	4680.5	4613.2	4604.7	4286.3	3950.9	3537.1	3381.3	3252.2	3148.4
72.5°	3531.5	3732.1	4283.5	4130.6	4188.1	4284.8	3935.6	3625.4	3277.5	3113.3	2888.8
75°	2484.7	2773.8	3333.6	3253.6	3295.7	3455.7	3155.4	3118.9	2716.3	2606.8	2261.8
77.5°	1331.5	1689.3	2316.4	2218.2	2236.4	2327.6	2014.8	1950.2	1561.5	1453.5	1062.1
80°	599.1	830.7	1300.6	1191.2	1158.9	1107.0	815.1	642.6	392.9	261.0	181.0
82.5°	397.1	412.5	576.6	499.5	467.2	385.8	249.8	147.3	116.4	98.3	94.1
85°	266.5	244.1	242.7	214.7	199.2	157.1	116.4	72.9	60.4	50.6	46.4
87.5°	15.5	9.8	14.0	15.5	11.2	9.8	7.0	0.0	1.3	0.0	1.3
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°	11.8	12.8	11.3	10.4	9.8	8.4	6.8	6.4	5.9	5.4	4.9
100°	30.9	31.4	30.9	30.6	30.5	29.9	29.5	28.7	27.9	27.3	26.5
102.5°	49.9	50.0	49.9	49.7	49.6	49.2	49.0	48.6	48.1	47.6	47.1
105°	69.5	69.7	69.7	69.7	69.7	69.7	69.7	69.2	68.7	68.2	67.7
107.5°	90.8	91.3	91.1	90.9	90.8	90.5	90.3	90.1	89.8	89.5	89.3
110°	111.4	111.9	111.9	111.9	111.9	111.9	111.9	111.7	111.4	111.1	110.9



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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°	132.9	133.5	133.5	133.5	133.5	133.5	133.5	133.3	132.9	132.7	132.5
115°	154.6	155.0	155.0	155.0	155.0	155.0	155.0	155.0	155.0	155.0	155.0
117.5°	176.4	176.7	176.9	177.1	177.1	177.4	177.7	177.4	177.1	176.9	176.7
120°	199.7	200.2	200.2	200.2	200.2	200.2	200.2	200.2	200.2	200.2	200.2
122.5°	223.6	223.8	223.8	223.8	223.8	223.8	223.8	223.9	224.3	224.6	224.8
125°	248.1	248.3	248.5	248.7	248.8	249.1	249.3	249.3	249.3	249.3	249.3
127.5°	272.4	272.8	272.6	272.5	272.4	272.1	271.8	272.1	272.4	272.6	272.8
130°	294.9	295.5	295.5	295.5	295.5	295.5	295.5	295.6	295.9	296.2	296.4
132.5°	318.2	319.0	319.0	319.0	319.0	319.0	319.0	319.2	319.4	319.8	320.0
135°	340.7	341.5	341.5	341.5	341.5	341.5	341.5	341.7	342.1	342.3	342.5
137.5°	361.7	362.2	362.2	362.2	362.2	362.2	362.2	362.4	362.6	362.9	363.2
140°	382.6	382.8	382.8	382.8	382.8	382.8	382.8	383.3	383.8	384.3	384.7
142.5°	403.9	404.3	404.3	404.3	404.3	404.3	404.3	404.6	404.9	405.1	405.3
145°	425.4	426.0	425.8	425.5	425.4	425.2	425.0	425.2	425.4	425.8	426.0
147.5°	445.4	445.6	445.1	444.8	444.6	444.1	443.7	443.9	444.1	444.4	444.6
150°	462.1	462.3	461.8	461.5	461.3	460.8	460.3	460.3	460.3	460.3	460.3
152.5°	477.8	478.0	477.8	477.6	477.4	477.2	477.0	477.0	477.0	477.0	477.0
155°	494.4	494.7	494.4	494.2	494.2	493.9	493.7	493.9	494.2	494.4	494.7
157.5°	509.4	509.4	508.9	508.6	508.4	507.9	507.5	507.6	507.9	508.2	508.4
160°	522.2	522.2	521.6	521.4	521.2	520.7	520.2	520.2	520.2	520.2	520.2
162.5°	531.8	532.0	531.4	531.2	531.0	530.4	530.0	529.6	529.0	528.6	528.0
165°	542.6	542.8	541.9	541.6	541.3	540.6	539.8	539.3	538.8	538.4	537.8
167.5°	549.7	549.7	549.1	548.9	548.7	548.1	547.7	547.9	548.1	548.4	548.7
170°	554.7	554.5	554.3	554.2	554.1	553.7	553.5	554.1	554.5	555.1	555.5
172.5°	558.3	558.5	557.9	557.7	557.5	556.9	556.5	556.7	556.9	557.3	557.5
175°	562.2	562.4	561.6	561.2	560.9	560.3	559.5	558.9	558.5	557.9	557.5
177.5°	566.3	566.3	565.6	565.1	564.9	564.1	563.3	563.3	563.3	563.3	563.3
180°	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3



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CANDELA DISTRIBUTION (continued):

	77.5°	80°	85°	90°	95°	100°	102.5°	105°	107.5°	110°	112.5°
0°	1046.6	1046.6	1046.6	1046.6	1046.6	1046.6	1046.6	1046.6	1046.6	1046.6	1046.6
2.5°	1048.1	1048.1	1046.6	1036.8	1031.3	1028.4	1018.6	1017.2	1013.0	1011.6	1011.6
5°	1046.6	1041.0	1033.9	1019.9	1006.0	993.3	989.1	979.3	972.2	963.9	963.9
7.5°	1027.0	1021.5	1006.0	984.9	966.7	948.4	938.5	924.5	913.4	902.2	899.3
10°	1004.6	996.1	975.1	947.0	923.2	890.8	878.4	860.0	847.4	830.7	813.8
12.5°	980.7	975.1	949.9	917.6	881.1	840.5	820.8	795.4	778.7	759.1	733.7
15°	970.9	959.7	927.4	886.6	841.8	792.8	764.6	738.0	712.7	690.3	656.6
17.5°	958.2	944.3	907.7	860.0	803.9	745.1	708.5	679.1	645.4	621.5	583.7
20°	944.3	923.2	883.9	826.4	763.2	693.1	646.8	617.3	572.4	548.5	503.7
22.5°	933.0	906.4	858.7	794.1	718.4	639.9	585.1	551.4	500.9	472.8	416.7
25°	930.3	897.9	840.5	767.4	680.5	587.9	521.9	488.3	425.1	392.9	326.9
27.5°	931.6	893.7	829.1	745.1	646.8	541.6	463.0	423.7	343.7	310.1	234.3
30°	933.0	895.1	818.0	725.4	616.0	493.9	401.3	355.0	259.6	230.1	162.8
32.5°	947.0	900.7	815.1	709.9	587.9	446.2	331.1	289.1	183.8	166.9	120.6
35°	963.9	919.0	820.8	707.1	566.8	398.5	259.6	216.0	131.9	127.6	98.3
37.5°	998.9	947.0	843.1	714.2	554.3	349.4	193.7	165.6	103.8	106.6	85.6
40°	1052.3	994.7	879.7	735.3	552.7	300.2	143.1	129.1	89.8	92.5	78.6
42.5°	1123.8	1060.7	935.9	780.1	559.8	254.0	115.1	110.9	82.7	85.6	75.7
45°	1217.8	1153.2	1014.4	837.6	579.5	216.0	101.0	101.0	79.9	82.7	74.4
47.5°	1337.0	1265.5	1111.2	914.7	610.3	195.0	95.4	96.7	78.6	82.7	74.4
50°	1471.7	1393.2	1234.7	1014.4	658.0	189.5	96.7	96.7	79.9	82.7	74.4
52.5°	1612.1	1539.2	1368.0	1128.0	723.9	202.0	99.6	98.3	79.9	82.7	72.9
55°	1755.2	1689.3	1515.4	1261.3	815.1	246.9	106.6	102.5	79.9	82.7	74.4
57.5°	1898.3	1851.9	1669.6	1404.4	928.8	328.3	134.7	119.3	88.4	89.8	75.7
60°	2059.6	2025.9	1843.6	1592.4	1090.1	454.6	197.9	150.2	105.2	99.6	81.4
62.5°	2268.7	2260.2	2115.8	1863.3	1349.7	637.0	280.6	182.4	113.6	103.8	87.0
65°	2637.7	2660.2	2522.6	2180.3	1522.3	641.2	273.6	160.0	106.6	98.3	85.6
67.5°	3008.2	2942.2	2588.6	2132.6	1373.6	426.5	174.0	124.9	94.1	91.2	79.9
70°	2994.1	2814.5	2347.3	1864.6	1084.5	231.5	126.3	103.8	84.2	84.2	75.7
72.5°	2685.4	2418.9	1919.4	1475.9	723.9	147.3	106.6	91.2	77.2	75.7	70.2
75°	2021.7	1707.5	1233.2	850.2	322.7	95.4	81.4	74.4	67.4	67.4	61.7
77.5°	951.2	536.0	297.5	197.9	108.1	64.6	56.1	56.1	54.8	56.1	50.6
80°	129.1	116.4	99.6	87.0	65.9	44.8	40.7	42.1	40.7	42.1	37.9
82.5°	78.6	70.2	57.5	54.8	40.7	30.8	29.5	30.8	28.0	29.5	22.5
85°	37.9	33.7	26.7	25.2	21.0	18.2	15.5	18.2	14.0	15.5	9.8
87.5°	0.0	2.9	1.3	2.9	2.9	2.9	0.0	2.9	0.0	2.9	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°	4.7	4.4	4.0	4.0	4.0	4.4	4.7	4.9	5.4	5.9	6.4
100°	26.3	26.1	25.5	24.5	25.5	26.1	26.3	26.5	27.3	27.9	28.7
102.5°	47.3	47.6	48.1	47.1	48.1	47.6	47.3	47.1	47.6	48.1	48.6
105°	68.2	68.7	69.7	67.7	69.7	68.7	68.2	67.7	68.2	68.7	69.2
107.5°	89.5	89.8	90.3	89.3	90.3	89.8	89.5	89.3	89.5	89.8	90.1
110°	111.1	111.4	111.9	110.9	111.9	111.4	111.1	110.9	111.1	111.4	111.7



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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°	132.9	133.5	134.5	132.5	134.5	133.5	132.9	132.5	132.7	132.9	133.3	0°
115°	155.6	156.0	157.0	156.0	157.0	156.0	155.6	155.0	155.0	155.0	155.0	2.5°
117.5°	177.1	177.7	178.7	176.7	178.7	177.7	177.1	176.7	176.9	177.1	177.4	5°
120°	200.7	201.2	202.2	200.2	202.2	201.2	200.7	200.2	200.2	200.2	200.2	7.5°
122.5°	225.7	226.7	228.7	227.7	228.7	226.7	225.7	224.8	224.6	224.3	223.9	10°
125°	250.1	250.8	252.2	251.3	252.2	250.8	250.1	249.3	249.3	249.3	249.3	12.5°
127.5°	273.6	274.3	275.8	272.8	275.8	274.3	273.6	272.8	272.6	272.4	272.1	15°
130°	297.2	297.9	299.3	297.4	299.3	297.9	297.2	296.4	296.2	295.9	295.6	17.5°
132.5°	320.8	321.4	322.9	321.0	322.9	321.4	320.8	320.0	319.8	319.4	319.2	20°
135°	343.1	343.5	344.5	343.5	344.5	343.5	343.1	342.5	342.3	342.1	341.7	22.5°
137.5°	364.2	365.1	367.0	365.1	367.0	365.1	364.2	363.2	362.9	362.6	362.4	25°
140°	385.7	386.7	388.7	386.7	388.7	386.7	385.7	384.7	384.3	383.8	383.3	27.5°
142.5°	406.1	406.8	408.3	407.3	408.3	406.8	406.1	405.3	405.1	404.9	404.6	30°
145°	426.8	427.4	428.9	427.0	428.9	427.4	426.8	426.0	425.8	425.4	425.2	32.5°
147.5°	445.4	446.1	447.5	444.6	447.5	446.1	445.4	444.6	444.4	444.1	443.9	35°
150°	461.3	462.3	464.2	461.3	464.2	462.3	461.3	460.3	460.3	460.3	460.3	37.5°
152.5°	477.8	478.4	480.0	477.0	480.0	478.4	477.8	477.0	477.0	477.0	477.0	40°
155°	495.4	496.1	497.6	495.7	497.6	496.1	495.4	494.7	494.4	494.2	493.9	42.5°
157.5°	509.6	510.9	513.3	510.3	513.3	510.9	509.6	508.4	508.2	507.9	507.6	45°
160°	520.9	521.6	523.2	521.2	523.2	521.6	520.9	520.2	520.2	520.2	520.2	47.5°
162.5°	528.6	529.0	530.0	527.0	530.0	529.0	528.6	528.0	528.6	529.0	529.6	50°
165°	538.4	538.8	539.8	537.8	539.8	538.8	538.4	537.8	538.4	538.8	539.3	52.5°
167.5°	549.7	550.6	552.5	550.6	552.5	550.6	549.7	548.7	548.4	548.1	547.9	55°
170°	556.7	557.9	560.5	558.5	560.5	557.9	556.7	555.5	555.1	554.5	554.1	57.5°
172.5°	558.3	558.9	560.5	557.5	560.5	558.9	558.3	557.5	557.3	556.9	556.7	60°
175°	558.3	558.9	560.5	557.5	560.5	558.9	558.3	557.5	557.9	558.5	558.9	62.5°
177.5°	564.1	564.9	566.3	563.3	566.3	564.9	564.1	563.3	563.3	563.3	563.3	65°
180°	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	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°
1046.6	1046.6	1046.6	1046.6	1046.6	1046.6	1046.6	1046.6	1046.6	1046.6	1046.6	112.5°	133.5
1004.6	1000.4	998.9	993.3	992.0	986.2	984.9	979.3	969.5	965.3	958.2	115°	155.0
951.2	944.3	938.5	935.9	924.5	919.0	910.5	899.3	878.4	868.5	851.6	117.5°	177.7
876.8	875.5	858.7	853.0	838.9	829.1	816.6	798.3	767.4	749.3	722.6	120°	200.2
795.4	789.9	770.3	759.1	740.8	726.8	709.9	683.3	635.6	597.7	556.9	122.5°	223.8
719.7	702.9	680.5	663.7	641.2	621.5	602.0	561.2	485.4	423.7	367.6	125°	249.3
641.2	616.0	592.1	564.0	540.2	509.2	486.8	433.5	333.9	258.2	223.0	127.5°	271.8
561.2	526.1	499.5	461.5	434.9	392.9	369.0	304.4	218.8	185.2	174.0	130°	295.5
477.0	430.7	401.3	355.0	328.3	275.0	256.7	210.5	168.3	155.8	152.9	132.5°	319.0
387.2	331.1	298.9	248.3	230.1	197.9	183.8	161.3	141.8	136.1	138.9	135°	341.5
293.3	232.9	211.9	175.3	168.3	151.5	146.0	134.7	124.9	124.9	129.1	137.5°	362.2
209.0	162.8	157.1	134.7	133.3	124.9	120.6	115.1	112.3	115.1	120.6	140°	382.8
152.9	123.4	123.4	110.9	110.9	105.2	103.8	101.0	101.0	106.6	112.3	142.5°	404.3
120.6	101.0	103.8	94.1	95.4	91.2	92.5	91.2	92.5	96.7	101.0	145°	425.0
101.0	87.0	91.2	82.7	85.6	81.4	84.2	84.2	87.0	88.4	89.8	147.5°	443.7
89.8	79.9	82.7	77.2	79.9	75.7	79.9	79.9	81.4	81.4	81.4	150°	460.3
82.7	74.4	78.6	72.9	77.2	72.9	77.2	77.2	75.7	74.4	75.7	152.5°	477.0
78.6	72.9	77.2	71.5	75.7	71.5	74.4	72.9	70.2	70.2	70.2	155°	493.7
77.2	71.5	74.4	70.2	72.9	68.7	71.5	70.2	65.9	64.6	67.4	157.5°	507.5
77.2	70.2	74.4	68.7	71.5	67.4	70.2	65.9	61.7	61.7	65.9	160°	520.2
77.2	70.2	74.4	68.7	71.5	65.9	67.4	63.2	57.5	58.9	64.6	162.5°	530.0
78.6	72.9	75.7	70.2	71.5	63.2	65.9	60.4	56.1	57.5	61.7	165°	539.8
79.9	72.9	75.7	67.4	68.7	63.2	63.2	60.4	56.1	56.1	60.4	167.5°	547.7
79.9	71.5	72.9	65.9	67.4	60.4	61.7	58.9	54.8	53.3	56.1	170°	553.5
82.7	74.4	74.4	64.6	65.9	58.9	60.4	57.5	53.3	50.6	51.9	172.5°	556.5
85.6	75.7	77.2	67.4	67.4	60.4	61.7	56.1	50.6	47.7	49.0	175°	559.5
85.6	75.7	77.2	68.7	68.7	61.7	61.7	56.1	47.7	44.8	44.8	177.5°	563.3
81.4	74.4	75.7	68.7	68.7	61.7	61.7	54.8	46.4	42.1	40.7	180°	565.3
78.6	71.5	72.9	64.6	65.9	58.9	58.9	51.9	43.5	39.3	36.5		
71.5	65.9	65.9	60.4	58.9	51.9	51.9	47.7	40.7	35.0	32.2		
61.7	56.1	54.8	49.0	49.0	44.8	43.5	39.3	33.7	29.5	28.0		
50.6	43.5	43.5	36.5	36.5	32.2	33.7	29.5	25.2	23.9	22.5		
36.5	29.5	29.5	23.9	23.9	19.7	21.0	19.7	18.2	18.2	16.9		
22.5	15.5	16.9	12.7	15.5	11.2	12.7	11.2	11.2	9.8	9.8		
11.2	5.6	8.4	4.2	7.0	1.3	4.2	2.9	2.9	2.9	2.9		
1.3	0.0	1.3	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		
6.8	8.4	9.8	11.3	12.8	11.8	10.8	8.8	4.0	3.0	2.0		
29.5	29.9	30.5	30.9	31.4	30.9	30.5	29.5	21.6	13.7	9.8		
49.0	49.2	49.6	49.9	50.0	49.9	49.6	49.0	44.2	37.3	31.4		
69.7	69.7	69.7	69.7	69.7	69.5	69.2	68.7	64.8	59.8	55.0		
90.3	90.5	90.8	91.1	91.3	90.8	90.3	89.3	86.3	82.5	78.5		
111.9	111.9	111.9	111.9	111.9	111.4	110.9	110.0	108.0	104.0	101.1		

271593
 ISS-AF-800-LED-E1-SL3-7027-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°
133.5	133.5	133.5	133.5	132.9	132.5	131.5	129.5	126.6	123.7	0°	1046.6	1046.6
155.0	155.0	155.0	155.0	154.6	154.1	153.1	151.2	148.2	146.2	2.5°	951.2	955.4
177.4	177.1	176.9	176.7	176.4	176.2	175.7	173.7	170.8	168.8	5°	846.0	847.4
200.2	200.2	200.2	200.2	199.7	199.2	198.3	197.3	194.3	192.3	7.5°	718.4	715.5
223.8	223.8	223.8	223.8	223.6	223.3	222.8	221.8	218.8	216.9	10°	548.5	541.6
249.1	248.8	248.5	248.3	248.1	247.8	247.3	246.3	243.4	242.5	12.5°	353.6	343.7
272.1	272.4	272.6	272.8	272.4	271.8	270.9	269.0	267.0	265.0	15°	213.3	210.5
295.5	295.5	295.5	295.5	294.9	294.5	293.5	292.5	288.5	287.5	17.5°	171.1	171.1
319.0	319.0	319.0	319.0	318.2	317.6	316.0	315.0	312.1	311.2	20°	152.9	152.9
341.5	341.5	341.5	341.5	340.7	340.1	338.6	338.6	334.7	332.7	22.5°	141.8	141.8
362.2	362.2	362.2	362.2	361.7	361.2	360.2	360.2	357.3	356.3	25°	133.3	134.7
382.8	382.8	382.8	382.8	382.6	382.3	381.8	380.8	378.8	377.8	27.5°	126.3	126.3
404.3	404.3	404.3	404.3	403.9	403.4	402.4	402.4	399.5	400.5	30°	117.9	117.9
425.2	425.4	425.8	426.0	425.4	425.0	424.0	423.0	420.0	420.0	32.5°	103.8	103.8
444.1	444.6	445.1	445.6	445.4	445.1	444.6	443.7	439.7	438.7	35°	92.5	91.2
460.8	461.3	461.8	462.3	462.1	461.8	461.3	460.3	456.4	455.4	37.5°	82.7	84.2
477.2	477.4	477.8	478.0	477.8	477.4	477.0	476.0	473.0	474.0	40°	75.7	77.2
493.9	494.2	494.4	494.7	494.4	494.2	493.7	493.7	491.7	492.7	42.5°	72.9	72.9
507.9	508.4	508.9	509.4	509.4	509.4	509.4	509.4	506.5	507.5	45°	70.2	70.2
520.7	521.2	521.6	522.2	522.2	522.2	522.2	522.2	519.2	519.2	47.5°	70.2	70.2
530.4	531.0	531.4	532.0	531.8	531.4	531.0	531.0	528.0	529.0	50°	68.7	70.2
540.6	541.3	541.9	542.8	542.6	542.3	541.8	541.8	537.8	538.8	52.5°	67.4	67.4
548.1	548.7	549.1	549.7	549.7	549.7	549.7	550.6	547.7	548.7	55°	63.2	64.6
553.7	554.1	554.3	554.5	554.7	555.1	555.5	556.5	554.5	555.5	57.5°	58.9	60.4
556.9	557.5	557.9	558.5	558.3	557.9	557.5	558.5	556.5	558.5	60°	54.8	54.8
560.3	560.9	561.6	562.4	562.2	561.9	561.4	561.4	558.5	559.5	62.5°	49.0	49.0
564.1	564.9	565.6	566.3	566.3	566.3	566.3	567.3	563.3	564.3	65°	44.8	44.8
565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	67.5°	39.3	39.3
										70°	35.0	35.0
										72.5°	30.8	30.8
										75°	26.7	26.7
										77.5°	22.5	21.0
										80°	16.9	16.9
										82.5°	9.8	9.8
										85°	2.9	2.9
										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°	7.8	7.8
										102.5°	27.5	27.5
										105°	53.0	53.0
										107.5°	75.5	76.5
										110°	100.1	99.2



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	175°	180°
112.5°	121.7	121.7
115°	144.3	143.3
117.5°	166.8	165.8
120°	191.4	189.5
122.5°	216.0	215.0
125°	241.5	239.5
127.5°	264.0	262.0
130°	286.6	284.7
132.5°	308.2	307.2
135°	330.8	329.8
137.5°	353.3	352.3
140°	375.9	375.0
142.5°	398.5	396.5
145°	418.1	417.2
147.5°	435.8	435.8
150°	453.5	452.5
152.5°	471.1	470.2
155°	490.7	489.8
157.5°	505.5	503.5
160°	517.2	515.3
162.5°	526.0	525.1
165°	536.8	535.9
167.5°	545.7	544.7
170°	552.5	551.6
172.5°	555.5	554.5
175°	558.5	556.5
177.5°	562.4	561.4
180°	565.3	565.3

(END OF REPORT)

Cooper Lighting Solutions Photometric Lab
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Peachtree City, GA 30269

Scaled Data Report

