

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: P228051

Luminaire Tested: **ISS-AF-800-LED-E1-SL2-8030-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P228051
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29761)-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-SL2-8030-ULG
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE WITH UPLIGHT
LIGHT SQUARE WITH ACCULED OPTICS-TYPE II 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: 5202.2 lumens
Efficiency: N/A
Efficacy: 86.4 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

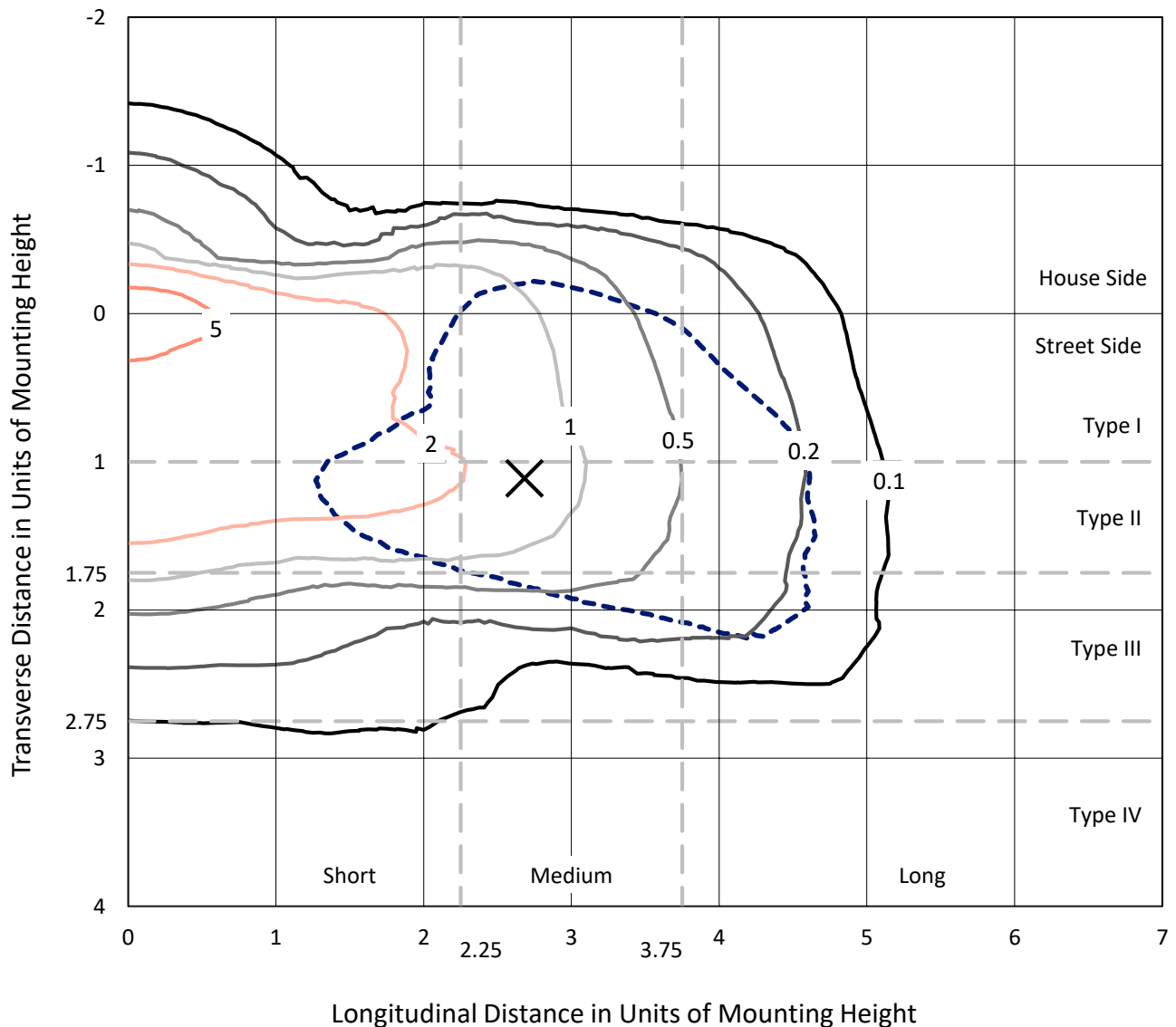
Input Watts (W): 60.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

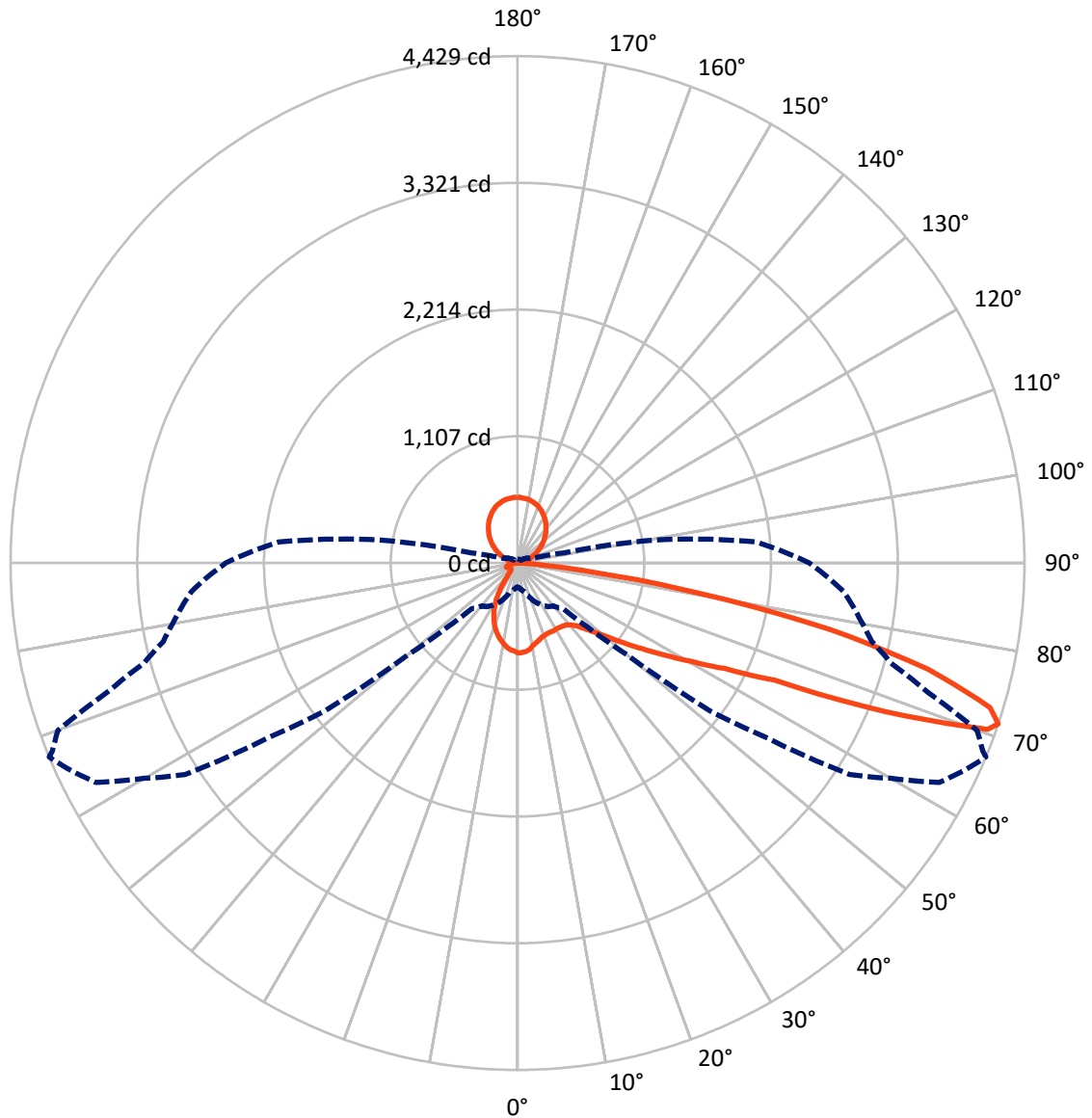
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.9 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67.5-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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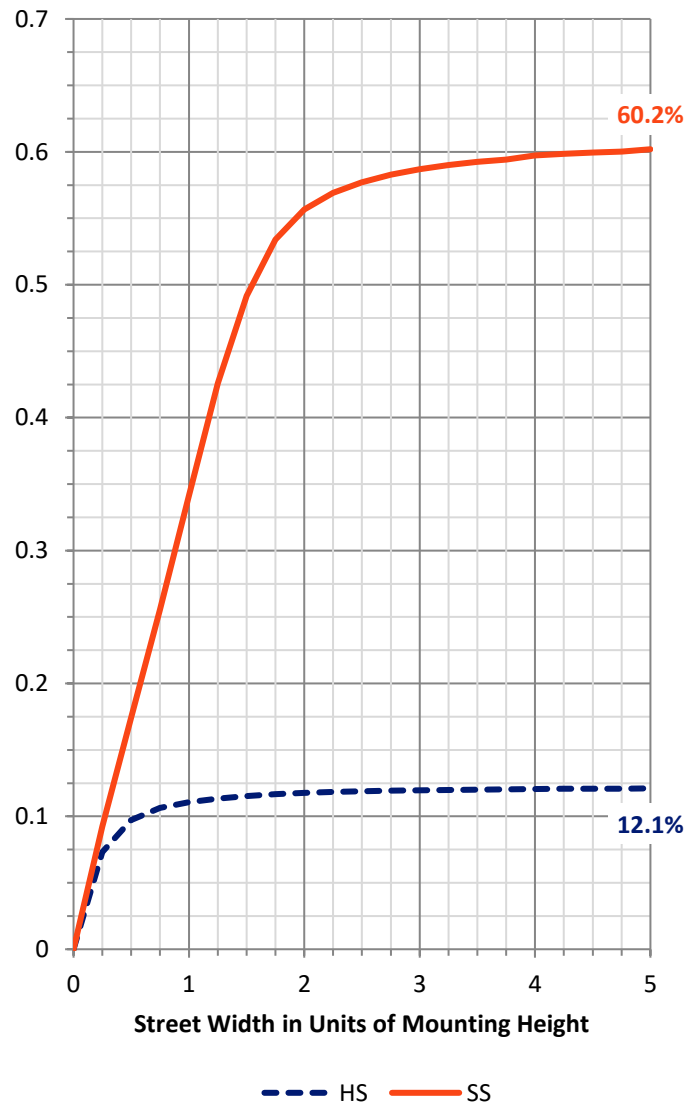
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	636.3	713.1	1349.4
	% Fixture	12.2	13.7	25.9
Street Side	Lumens	3139.7	713.1	3852.8
	% Fixture	60.4	13.7	74.1
Total	Lumens	3776.0	1426.2	5202.2
	% Fixture	72.6	27.4	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.7	1.3
10°-20°	164.3	3.2
20°-30°	223.4	4.3
30°-40°	305.3	5.9
40°-50°	460.0	8.8
50°-60°	729.1	14.0
60°-70°	965.2	18.6
70°-80°	768.9	14.8
80°-90°	91.2	1.8
90°-100°	4.7	0.1
100°-110°	69.0	1.3
110°-120°	153.0	2.9
120°-130°	223.9	4.3
130°-140°	265.6	5.1
140°-150°	269.3	5.2
150°-160°	231.1	4.4
160°-170°	155.1	3.0
170°-180°	54.3	1.0
0°-90°	3776.0	72.6
0°-180°	5202.2	100.0



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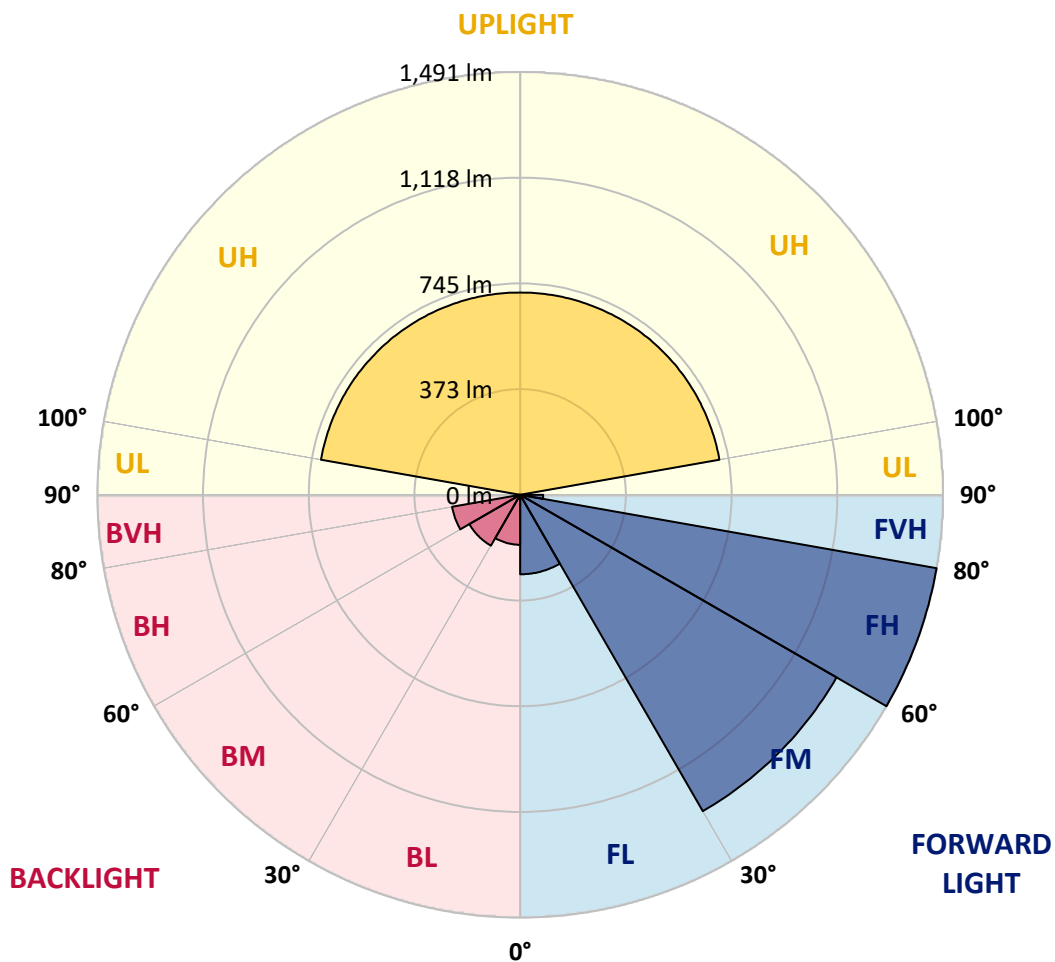
CATALOG NUMBER: ISS-AF-800-LED-E1-SL2-8030-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	280.2	5.4			
FM (30°-60°)	1287.7	24.8			
FH (60°-80°)	1490.6	28.7			G1/1800
FVH (80°-90°)	81.3	1.6			G1/100
BL (0°-30°)	176.1	3.4	B1/500		
BM (30°-60°)	206.8	4.0	B0/220		
BH (60°-80°)	243.5	4.7	B1/500		G1/500
BVH (80°-90°)	9.9	0.2			G0/10
UL (90°-100°)	4.7	0.1		U1/10	
UH (100°-180°)	713.1	13.7		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°	786.9	786.9	786.9	786.9	786.9	786.9	786.9	786.9	786.9	786.9	786.9
2.5°	772.4	769.7	769.7	773.7	780.3	775.0	779.0	779.0	780.3	784.2	785.6
5°	715.7	710.4	715.7	721.0	735.5	732.8	736.8	740.7	748.7	750.0	760.5
7.5°	664.3	661.7	665.6	676.2	694.6	689.3	694.6	699.9	709.1	713.1	723.6
10°	624.8	620.8	626.1	634.0	652.4	651.1	653.8	660.3	670.9	673.5	686.7
12.5°	595.8	595.8	598.4	608.9	624.8	623.4	631.3	635.3	644.5	647.2	661.7
15°	581.3	577.3	582.6	591.8	607.6	607.6	612.9	616.8	630.0	631.3	644.5
17.5°	568.1	569.4	570.7	581.3	595.8	593.1	599.7	602.3	616.8	614.2	630.0
20°	568.1	570.7	569.4	576.0	586.5	581.3	589.2	590.5	606.3	602.3	619.5
22.5°	583.9	586.5	582.6	581.3	585.2	581.3	585.2	587.8	599.7	597.1	612.9
25°	611.6	616.8	611.6	602.3	598.4	587.8	590.5	594.4	603.7	597.1	611.6
27.5°	655.1	659.0	649.8	640.6	622.1	610.3	606.3	605.0	615.5	605.0	616.8
30°	705.2	710.4	702.5	685.4	659.0	639.3	631.3	627.4	634.0	618.2	630.0
32.5°	759.2	764.5	759.2	746.0	710.4	681.4	670.9	661.7	666.9	645.8	651.1
35°	814.6	819.8	825.1	817.2	771.1	738.1	721.0	713.1	711.7	685.4	686.7
37.5°	863.3	868.6	885.7	893.6	851.5	806.6	790.8	773.7	775.0	738.1	738.1
40°	922.6	929.2	951.6	970.1	942.4	888.4	869.9	851.5	851.5	802.7	804.0
42.5°	1003.0	1010.9	1025.4	1050.5	1041.3	985.9	966.1	941.1	943.7	885.7	884.4
45°	1116.4	1121.7	1121.7	1137.5	1138.8	1086.1	1072.9	1047.8	1053.1	979.3	983.3
47.5°	1264.0	1257.4	1231.1	1240.3	1250.8	1195.5	1183.6	1167.8	1174.4	1095.3	1103.2
50°	1401.1	1395.8	1341.8	1344.4	1382.6	1326.0	1322.0	1302.2	1311.5	1232.4	1244.2
52.5°	1452.5	1443.3	1389.2	1418.2	1525.0	1493.3	1499.9	1490.7	1496.0	1411.6	1409.0
55°	1394.5	1394.5	1361.5	1414.3	1631.7	1648.9	1702.9	1724.0	1746.4	1662.1	1643.6
57.5°	1233.7	1244.2	1249.5	1343.1	1614.6	1688.4	1791.2	1880.9	1995.5	1990.3	2017.9
60°	967.4	985.9	1016.2	1169.1	1540.8	1662.1	1795.2	1929.6	2087.8	2189.3	2339.5
62.5°	678.8	694.6	719.7	825.1	1326.0	1534.2	1726.6	1933.6	2135.2	2294.7	2492.4
65°	461.3	477.1	529.9	587.8	800.1	1103.2	1397.1	1739.8	2046.9	2343.5	2609.7
67.5°	332.1	341.4	382.2	479.8	532.5	587.8	697.2	1100.6	1478.8	2075.9	2464.7
70°	249.1	258.3	295.2	403.3	467.9	482.4	508.8	579.9	676.2	1166.5	1676.6
71°	208.3	221.4	266.2	379.6	465.3	477.1	489.0	531.2	562.8	825.1	1244.2
72.5°	146.3	155.5	197.7	350.6	446.8	474.5	502.2	500.9	498.2	562.8	752.6
75°	93.6	93.6	93.6	197.7	477.1	460.0	470.5	527.2	498.2	473.2	495.6
77.5°	73.8	72.5	68.5	98.9	373.0	466.6	494.3	508.8	536.4	494.3	471.9
80°	55.4	54.0	54.0	61.9	172.7	301.8	417.8	464.0	483.7	525.9	479.8
82.5°	29.0	29.0	31.6	36.9	64.6	105.4	216.2	355.9	398.1	400.7	404.6
85°	9.2	7.9	10.5	17.1	27.7	34.3	60.6	143.7	213.5	258.3	272.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	5.3	9.2	11.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
97.5°	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



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47.5°	50°
110°	101.0	102.0	103.0	106.0	110.0	110.5	111.0	111.5	112.0	112.5	113.0
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°	60°	62.5°	65°	67.5°	68°	70°	72.5°	75°
0°	786.9	786.9	786.9	786.9	786.9	786.9	786.9	786.9	786.9	786.9	786.9
2.5°	781.6	786.9	782.9	788.2	781.6	789.5	782.9	786.9	788.2	782.9	789.5
5°	753.9	769.7	764.5	776.3	771.1	781.6	776.3	786.9	786.9	782.9	792.1
7.5°	719.7	735.5	736.8	748.7	748.7	761.8	761.8	772.4	777.6	777.6	790.8
10°	685.4	699.9	702.5	715.7	718.3	734.2	734.2	748.7	759.2	763.1	779.0
12.5°	659.0	677.5	677.5	692.0	689.3	713.1	715.7	728.9	739.4	748.7	769.7
15°	643.2	660.3	660.3	674.8	672.2	695.9	699.9	713.1	728.9	734.2	763.1
17.5°	627.4	644.5	640.6	660.3	659.0	685.4	682.7	702.5	715.7	723.6	756.6
20°	614.2	634.0	631.3	651.1	645.8	674.8	674.8	694.6	707.8	714.4	752.6
22.5°	607.6	628.7	623.4	643.2	639.3	668.3	668.3	688.0	702.5	713.1	751.3
25°	607.6	626.1	620.8	643.2	636.6	668.3	666.9	686.7	701.2	710.4	752.6
27.5°	610.3	628.7	624.8	645.8	640.6	668.3	670.9	688.0	702.5	713.1	755.2
30°	619.5	636.6	627.4	647.2	643.2	669.6	668.3	686.7	701.2	714.4	755.2
32.5°	639.3	648.5	636.6	653.8	645.8	672.2	672.2	685.4	702.5	718.3	755.2
35°	666.9	673.5	655.1	666.9	652.4	678.8	677.5	692.0	705.2	718.3	757.9
37.5°	706.5	714.4	685.4	695.9	672.2	693.3	688.0	705.2	718.3	726.2	771.1
40°	765.8	768.4	730.2	738.1	705.2	723.6	710.4	734.2	740.7	746.0	790.8
42.5°	838.3	840.9	792.1	797.4	755.2	771.1	748.7	773.7	782.9	781.6	830.4
45°	927.9	929.2	873.9	877.8	829.1	842.2	814.6	835.6	842.2	838.3	888.4
47.5°	1025.4	1036.0	974.0	979.3	927.9	934.5	900.2	924.0	924.0	920.0	971.4
50°	1154.6	1170.4	1097.9	1105.8	1046.5	1051.8	1012.3	1037.3	1034.7	1024.1	1082.1
52.5°	1315.4	1329.9	1253.5	1264.0	1200.7	1203.4	1154.6	1183.6	1175.7	1158.6	1225.8
55°	1511.8	1513.1	1441.9	1451.2	1387.9	1384.0	1323.3	1358.9	1347.0	1323.3	1385.3
57.5°	1826.8	1788.6	1671.3	1668.6	1600.1	1594.8	1517.1	1560.6	1540.8	1490.7	1572.4
60°	2334.3	2346.1	2046.9	2000.8	1872.9	1849.2	1746.4	1796.5	1772.8	1691.1	1771.5
62.5°	2620.3	2808.8	2790.3	2624.2	2294.7	2205.1	2031.1	2090.4	2028.5	1908.5	1983.7
65°	2832.5	3088.2	3235.8	3395.3	3247.7	2881.3	2470.0	2553.1	2401.5	2173.5	2246.0
67.5°	2911.6	3220.0	3531.0	3757.8	3912.0	3939.6	3463.8	3486.2	3113.2	2657.2	2666.4
70°	2497.7	2952.4	3561.4	3848.7	4154.5	4304.7	4354.8	4331.1	4089.9	3444.1	3197.6
71°	2116.8	2667.7	3440.1	3760.4	4151.9	4296.8	4428.6	4383.8	4271.8	3756.4	3378.2
72.5°	1434.0	2126.0	3085.5	3491.5	4013.5	4118.9	4316.6	4237.5	4213.8	3989.7	3546.9
75°	674.8	1059.7	2007.4	2621.6	3396.6	3498.1	3705.0	3607.5	3545.5	3622.0	3374.2
77.5°	496.9	578.6	1101.9	1629.1	2470.0	2613.7	2791.6	2671.7	2592.6	2669.0	2496.4
80°	452.1	454.7	570.7	859.4	1473.6	1559.3	1626.5	1528.9	1409.0	1403.7	1244.2
82.5°	416.5	394.1	370.4	454.7	755.2	718.3	664.3	615.5	478.5	383.6	276.8
85°	264.9	290.0	263.6	249.1	300.5	247.8	196.4	188.5	133.1	89.6	83.0
87.5°	18.5	21.1	25.0	29.0	35.6	29.0	18.5	22.4	13.2	0.0	6.6
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	10.0	8.5	7.0	6.5	6.4	6.0	5.5	5.0
100°	31.5	32.0	31.5	31.0	30.5	30.0	29.2	29.1	28.5	27.8	27.0
102.5°	50.8	51.0	50.8	50.5	50.2	50.0	49.5	49.4	49.0	48.5	48.0
105°	70.8	71.0	71.0	71.0	71.0	71.0	70.5	70.4	70.0	69.5	69.0
107.5°	92.5	93.0	92.8	92.5	92.2	92.0	91.8	91.7	91.5	91.2	91.0



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CANDELA DISTRIBUTION (continued):

	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	68°	70°	72.5°	75°
110°	113.5	114.0	114.0	114.0	114.0	114.0	113.8	113.7	113.5	113.2	113.0
112.5°	135.5	136.0	136.0	136.0	136.0	136.0	135.8	135.7	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	180.5	180.8	181.0	180.8	180.7	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	228.2	228.3	228.5	228.8	229.0
125°	252.8	253.0	253.2	253.5	253.8	254.0	254.0	254.0	254.0	254.0	254.0
127.5°	277.5	278.0	277.8	277.5	277.2	277.0	277.2	277.3	277.5	277.8	278.0
130°	300.5	301.0	301.0	301.0	301.0	301.0	301.2	301.3	301.5	301.8	302.0
132.5°	324.2	325.0	325.0	325.0	325.0	325.0	325.2	325.3	325.5	325.8	326.0
135°	347.2	348.0	348.0	348.0	348.0	348.0	348.2	348.3	348.5	348.8	349.0
137.5°	368.5	369.0	369.0	369.0	369.0	369.0	369.2	369.3	369.5	369.8	370.0
140°	389.8	390.0	390.0	390.0	390.0	390.0	390.5	390.6	391.0	391.5	392.0
142.5°	411.5	412.0	412.0	412.0	412.0	412.0	412.2	412.3	412.5	412.8	413.0
145°	433.5	434.0	433.8	433.5	433.2	433.0	433.2	433.3	433.5	433.8	434.0
147.5°	453.8	454.0	453.5	453.0	452.5	452.0	452.2	452.3	452.5	452.8	453.0
150°	470.8	471.0	470.5	470.0	469.5	469.0	469.0	469.0	469.0	469.0	469.0
152.5°	486.8	487.0	486.8	486.5	486.2	486.0	486.0	486.0	486.0	486.0	486.0
155°	503.8	504.0	503.8	503.5	503.2	503.0	503.2	503.3	503.5	503.8	504.0
157.5°	519.0	519.0	518.5	518.0	517.5	517.0	517.2	517.3	517.5	517.8	518.0
160°	532.0	532.0	531.5	531.0	530.5	530.0	530.0	530.0	530.0	530.0	530.0
162.5°	541.8	542.0	541.5	541.0	540.5	540.0	539.5	539.4	539.0	538.5	538.0
165°	552.8	553.0	552.2	551.5	550.8	550.0	549.5	549.4	549.0	548.5	548.0
167.5°	560.0	560.0	559.5	559.0	558.5	558.0	558.2	558.3	558.5	558.8	559.0
170°	565.2	565.0	564.8	564.5	564.2	564.0	564.5	564.6	565.0	565.5	566.0
172.5°	568.8	569.0	568.5	568.0	567.5	567.0	567.2	567.3	567.5	567.8	568.0
175°	572.8	573.0	572.2	571.5	570.8	570.0	569.5	569.4	569.0	568.5	568.0
177.5°	577.0	577.0	576.2	575.5	574.8	574.0	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°	786.9	786.9	786.9	786.9	786.9	786.9	786.9	786.9	786.9	786.9	786.9
2.5°	780.3	786.9	789.5	788.2	785.6	782.9	773.7	780.3	771.1	777.6	769.7
5°	784.2	793.5	794.8	792.1	789.5	784.2	768.4	777.6	767.1	772.4	760.5
7.5°	782.9	797.4	798.7	796.1	790.8	781.6	765.8	772.4	755.2	759.2	743.4
10°	776.3	797.4	798.7	792.1	784.2	769.7	751.3	753.9	736.8	736.8	715.7
12.5°	769.7	794.8	801.4	792.1	779.0	759.2	738.1	735.5	715.7	714.4	690.7
15°	769.7	797.4	806.6	794.8	775.0	747.3	722.3	717.0	694.6	688.0	661.7
17.5°	768.4	797.4	810.6	794.8	771.1	735.5	703.8	698.6	669.6	659.0	628.7
20°	767.1	800.1	813.2	792.1	759.2	721.0	685.4	674.8	643.2	626.1	590.5
22.5°	765.8	805.3	815.9	789.5	751.3	702.5	665.6	647.2	610.3	587.8	545.7
25°	772.4	811.9	817.2	786.9	739.4	682.7	643.2	618.2	577.3	548.3	498.2
27.5°	775.0	818.5	819.8	781.6	724.9	661.7	619.5	585.2	539.1	503.5	446.8
30°	782.9	819.8	815.9	771.1	707.8	635.3	591.8	549.6	498.2	452.1	384.9
32.5°	785.6	823.8	813.2	759.2	690.7	608.9	560.2	511.4	449.5	395.4	313.7
35°	790.8	826.4	810.6	752.6	672.2	581.3	527.2	471.9	400.7	332.1	238.6
37.5°	798.7	838.3	817.2	750.0	663.0	557.5	490.3	431.0	342.7	262.3	158.2
40°	818.5	862.0	829.1	753.9	656.4	537.8	454.7	388.8	276.8	193.8	109.4
42.5°	858.0	902.9	859.4	773.7	660.3	520.6	417.8	344.0	209.6	138.4	90.9
45°	917.4	955.6	909.5	806.6	676.2	511.4	383.6	297.9	150.3	110.7	83.0
47.5°	1004.4	1041.3	983.3	859.4	703.8	507.4	348.0	249.1	116.0	100.2	80.4
50°	1119.0	1162.5	1090.0	942.4	755.2	511.4	309.7	203.0	101.5	97.5	79.1
52.5°	1260.1	1302.2	1229.7	1065.0	839.6	533.8	268.9	176.6	96.2	96.2	77.8
55°	1419.5	1478.8	1407.7	1235.0	970.1	582.6	243.8	167.4	96.2	97.5	76.4
57.5°	1608.0	1658.1	1594.8	1398.4	1126.9	663.0	246.5	176.6	96.2	97.5	75.1
60°	1792.5	1854.5	1782.0	1606.7	1306.2	784.2	300.5	224.1	100.2	101.5	75.1
62.5°	1985.0	2032.4	1973.1	1788.6	1509.2	934.5	408.6	324.2	116.0	119.9	80.4
65°	2195.9	2273.6	2211.7	2060.1	1796.5	1174.4	614.2	486.4	171.3	139.7	88.3
67.5°	2561.0	2592.6	2562.3	2423.9	2132.6	1372.1	731.5	494.3	171.3	135.8	98.9
70°	3055.2	2984.1	2848.3	2590.0	2168.2	1231.1	524.6	301.8	146.3	129.2	104.1
71°	3169.9	3060.5	2860.2	2549.1	2094.4	1111.1	407.3	238.6	137.1	126.5	104.1
72.5°	3239.8	3076.3	2773.2	2429.2	1949.4	875.2	268.9	187.2	125.2	119.9	100.2
75°	3148.8	2847.0	2448.9	2102.3	1596.2	454.7	168.7	142.3	106.8	104.1	87.0
77.5°	2500.3	2235.4	1807.0	1527.6	1026.8	201.7	121.3	108.1	84.4	81.7	67.2
80°	1166.5	935.8	548.3	470.5	322.9	118.6	83.0	73.8	60.6	58.0	47.4
82.5°	212.2	159.5	123.9	119.9	108.1	69.9	48.8	44.8	38.2	36.9	30.3
85°	72.5	69.9	52.7	52.7	54.0	36.9	27.7	26.4	19.8	19.8	13.2
87.5°	1.3	6.6	6.6	9.2	7.9	6.6	2.6	4.0	1.3	4.0	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



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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°	
110°	113.2	113.5	114.0	113.0	114.0	113.5	113.2	113.0	113.2	113.5	113.8	0°
112.5°	135.5	136.0	137.0	135.0	137.0	136.0	135.5	135.0	135.2	135.5	135.8	2.5°
115°	158.5	159.0	160.0	159.0	160.0	159.0	158.5	158.0	158.0	158.0	158.0	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	7.5°
120°	204.5	205.0	206.0	204.0	206.0	205.0	204.5	204.0	204.0	204.0	204.0	10°
122.5°	230.0	231.0	233.0	232.0	233.0	231.0	230.0	229.0	228.8	228.5	228.2	12.5°
125°	254.8	255.5	257.0	256.0	257.0	255.5	254.8	254.0	254.0	254.0	254.0	15°
127.5°	278.8	279.5	281.0	278.0	281.0	279.5	278.8	278.0	277.8	277.5	277.2	17.5°
130°	302.8	303.5	305.0	303.0	305.0	303.5	302.8	302.0	301.8	301.5	301.2	20°
132.5°	326.8	327.5	329.0	327.0	329.0	327.5	326.8	326.0	325.8	325.5	325.2	22.5°
135°	349.5	350.0	351.0	350.0	351.0	350.0	349.5	349.0	348.8	348.5	348.2	25°
137.5°	371.0	372.0	374.0	372.0	374.0	372.0	371.0	370.0	369.8	369.5	369.2	27.5°
140°	393.0	394.0	396.0	394.0	396.0	394.0	393.0	392.0	391.5	391.0	390.5	30°
142.5°	413.8	414.5	416.0	415.0	416.0	414.5	413.8	413.0	412.8	412.5	412.2	32.5°
145°	434.8	435.5	437.0	435.0	437.0	435.5	434.8	434.0	433.8	433.5	433.2	35°
147.5°	453.8	454.5	456.0	453.0	456.0	454.5	453.8	453.0	452.8	452.5	452.2	37.5°
150°	470.0	471.0	473.0	470.0	473.0	471.0	470.0	469.0	469.0	469.0	469.0	40°
152.5°	486.8	487.5	489.0	486.0	489.0	487.5	486.8	486.0	486.0	486.0	486.0	42.5°
155°	504.8	505.5	507.0	505.0	507.0	505.5	504.8	504.0	503.8	503.5	503.2	45°
157.5°	519.2	520.5	523.0	520.0	523.0	520.5	519.2	518.0	517.8	517.5	517.2	47.5°
160°	530.8	531.5	533.0	531.0	533.0	531.5	530.8	530.0	530.0	530.0	530.0	50°
162.5°	538.5	539.0	540.0	537.0	540.0	539.0	538.5	538.0	538.5	539.0	539.5	52.5°
165°	548.5	549.0	550.0	548.0	550.0	549.0	548.5	548.0	548.5	549.0	549.5	55°
167.5°	560.0	561.0	563.0	561.0	563.0	561.0	560.0	559.0	558.8	558.5	558.2	57.5°
170°	567.2	568.5	571.0	569.0	571.0	568.5	567.2	566.0	565.5	565.0	564.5	60°
172.5°	568.8	569.5	571.0	568.0	571.0	569.5	568.8	568.0	567.8	567.5	567.2	62.5°
175°	568.8	569.5	571.0	568.0	571.0	569.5	568.8	568.0	568.5	569.0	569.5	65°
177.5°	574.8	575.5	577.0	574.0	577.0	575.5	574.8	574.0	574.0	574.0	574.0	67.5°
180°	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	70°
												71°
												72.5°
												75°
												77.5°
												80°
												82.5°
												85°
												87.5°
												90°
												92.5°
												95°
												97.5°
												100°
												102.5°
												105°
												107.5°



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DISTRIBUTION (continued):

CANDELA DISTRIBUTION

115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°	155°	165°	110°	115°
786.9	786.9	786.9	786.9	786.9	786.9	786.9	786.9	786.9	786.9	786.9	110°	114.0
776.3	765.8	775.0	765.8	771.1	760.5	767.1	763.1	763.1	759.2	756.6	112.5°	136.0
764.5	751.3	757.9	747.3	752.6	736.8	740.7	734.2	721.0	713.1	702.5	115°	158.0
747.3	727.6	732.8	717.0	721.0	699.9	703.8	692.0	666.9	651.1	635.3	117.5°	181.0
717.0	698.6	699.9	680.1	678.8	657.7	653.8	637.9	601.0	574.7	553.6	120°	204.0
686.7	665.6	663.0	639.3	635.3	610.3	605.0	579.9	525.9	474.5	441.5	122.5°	228.0
655.1	628.7	620.8	595.8	581.3	560.2	545.7	508.8	431.0	363.8	320.3	125°	254.0
619.5	585.2	573.4	544.4	523.3	491.6	470.5	420.5	320.3	247.8	217.5	127.5°	277.0
573.4	536.4	515.4	478.5	450.8	412.5	386.2	321.6	213.5	176.6	172.7	130°	301.0
521.9	478.5	452.1	406.0	371.7	330.8	288.7	217.5	151.6	143.7	148.9	132.5°	325.0
467.9	413.9	379.6	322.9	276.8	229.3	189.8	145.0	123.9	122.6	130.5	135°	348.0
403.3	341.4	292.6	225.4	183.2	146.3	129.2	114.7	105.4	106.8	114.7	137.5°	369.0
332.1	251.7	200.3	141.0	122.6	106.8	104.1	98.9	94.9	97.5	102.8	140°	390.0
247.8	160.8	129.2	101.5	100.2	90.9	93.6	90.9	89.6	90.9	94.9	142.5°	412.0
167.4	106.8	101.5	87.0	89.6	83.0	87.0	85.7	84.4	84.4	87.0	145°	433.0
116.0	88.3	90.9	80.4	84.4	79.1	83.0	81.7	80.4	79.1	80.4	147.5°	452.0
96.2	80.4	84.4	76.4	80.4	75.1	79.1	77.8	76.4	73.8	73.8	150°	469.0
88.3	76.4	80.4	72.5	77.8	71.2	76.4	73.8	71.2	68.5	69.9	152.5°	486.0
85.7	73.8	77.8	69.9	75.1	68.5	72.5	71.2	65.9	64.6	65.9	155°	503.0
83.0	72.5	76.4	68.5	72.5	65.9	69.9	67.2	61.9	60.6	61.9	157.5°	517.0
81.7	69.9	73.8	65.9	69.9	64.6	67.2	64.6	59.3	58.0	58.0	160°	530.0
80.4	68.5	72.5	63.3	67.2	59.3	63.3	60.6	55.4	54.0	54.0	162.5°	540.0
80.4	67.2	69.9	60.6	64.6	56.7	59.3	56.7	54.0	51.4	51.4	165°	550.0
79.1	64.6	68.5	58.0	60.6	54.0	56.7	54.0	50.1	48.8	48.8	167.5°	558.0
79.1	63.3	67.2	56.7	59.3	51.4	54.0	51.4	47.4	46.1	46.1	170°	564.0
83.0	65.9	68.5	58.0	59.3	51.4	52.7	48.8	44.8	44.8	43.5	172.5°	567.0
90.9	73.8	73.8	60.6	60.6	51.4	52.7	47.4	42.2	42.2	42.2	175°	570.0
98.9	81.7	80.4	64.6	63.3	51.4	51.4	44.8	39.5	39.5	39.5	177.5°	574.0
104.1	85.7	83.0	65.9	63.3	50.1	48.8	42.2	36.9	36.9	36.9	180°	576.0
102.8	85.7	81.7	64.6	60.6	47.4	47.4	40.9	35.6	35.6	34.3		
97.5	80.4	76.4	60.6	58.0	44.8	44.8	38.2	33.0	33.0	31.6		
83.0	68.5	64.6	51.4	48.8	39.5	38.2	31.6	29.0	27.7	27.7		
64.6	54.0	50.1	40.9	39.5	31.6	30.3	26.4	23.7	23.7	22.4		
46.1	38.2	35.6	27.7	25.0	21.1	22.4	19.8	18.5	18.5	17.1		
27.7	19.8	19.8	15.8	17.1	13.2	14.5	14.5	13.2	10.5	10.5		
14.5	9.2	11.9	6.6	9.2	4.0	6.6	5.3	5.3	4.0	4.0		
2.6	0.0	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		
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		

'228051
 ISS-AF-800-LED-E1-SL2-8030-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°
114.0	114.0	114.0	114.0	113.5	113.0	112.0	110.0	106.0	103.0	0°	786.9	786.9
136.0	136.0	136.0	136.0	135.5	135.0	134.0	132.0	129.0	126.0	2.5°	748.7	750.0
158.0	158.0	158.0	158.0	157.5	157.0	156.0	154.0	151.0	149.0	5°	697.2	699.9
180.8	180.5	180.2	180.0	179.8	179.5	179.0	177.0	174.0	172.0	7.5°	623.4	627.4
204.0	204.0	204.0	204.0	203.5	203.0	202.0	201.0	198.0	196.0	10°	535.1	537.8
228.0	228.0	228.0	228.0	227.8	227.5	227.0	226.0	223.0	221.0	12.5°	421.8	421.8
253.8	253.5	253.2	253.0	252.8	252.5	252.0	251.0	248.0	247.0	15°	295.2	297.9
277.2	277.5	277.8	278.0	277.5	277.0	276.0	274.0	272.0	270.0	17.5°	206.9	208.3
301.0	301.0	301.0	301.0	300.5	300.0	299.0	298.0	294.0	293.0	20°	174.0	175.3
325.0	325.0	325.0	325.0	324.2	323.5	322.0	321.0	318.0	317.0	22.5°	155.5	156.8
348.0	348.0	348.0	348.0	347.2	346.5	345.0	345.0	341.0	339.0	25°	138.4	139.7
369.0	369.0	369.0	369.0	368.5	368.0	367.0	367.0	364.0	363.0	27.5°	119.9	121.3
390.0	390.0	390.0	390.0	389.8	389.5	389.0	388.0	386.0	385.0	30°	108.1	109.4
412.0	412.0	412.0	412.0	411.5	411.0	410.0	410.0	407.0	408.0	32.5°	97.5	98.9
433.2	433.5	433.8	434.0	433.5	433.0	432.0	431.0	428.0	428.0	35°	88.3	88.3
452.5	453.0	453.5	454.0	453.8	453.5	453.0	452.0	448.0	447.0	37.5°	81.7	81.7
469.5	470.0	470.5	471.0	470.8	470.5	470.0	469.0	465.0	464.0	40°	75.1	75.1
486.2	486.5	486.8	487.0	486.8	486.5	486.0	485.0	482.0	483.0	42.5°	71.2	71.2
503.2	503.5	503.8	504.0	503.8	503.5	503.0	503.0	501.0	502.0	45°	67.2	67.2
517.5	518.0	518.5	519.0	519.0	519.0	519.0	519.0	516.0	517.0	47.5°	63.3	63.3
530.5	531.0	531.5	532.0	532.0	532.0	532.0	532.0	529.0	529.0	50°	59.3	60.6
540.5	541.0	541.5	542.0	541.8	541.5	541.0	541.0	538.0	539.0	52.5°	55.4	55.4
550.8	551.5	552.2	553.0	552.8	552.5	552.0	552.0	548.0	549.0	55°	51.4	51.4
558.5	559.0	559.5	560.0	560.0	560.0	560.0	561.0	558.0	559.0	57.5°	47.4	48.8
564.2	564.5	564.8	565.0	565.2	565.5	566.0	567.0	565.0	566.0	60°	44.8	44.8
567.5	568.0	568.5	569.0	568.8	568.5	568.0	569.0	567.0	569.0	62.5°	42.2	42.2
570.8	571.5	572.2	573.0	572.8	572.5	572.0	572.0	569.0	570.0	65°	40.9	40.9
574.8	575.5	576.2	577.0	577.0	577.0	577.0	578.0	574.0	575.0	67.5°	38.2	38.2
576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	70°	35.6	35.6
										71°	34.3	34.3
										72.5°	31.6	31.6
										75°	27.7	26.4
										77.5°	22.4	22.4
										80°	17.1	15.8
										82.5°	10.5	9.2
										85°	4.0	2.6
										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



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CANDELA DISTRIBUTION (continued):

	175°	180°
110°	102.0	101.0
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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Peachtree City, GA 30269

Scaled Data Report

