

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: P227921

Luminaire Tested: **ISS-AF-800-LED-E1-T4W-8030-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P227921
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29757)-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-T4W-8030-ULG
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE WITH UPLIGHT
LIGHT SQUARE WITH ACCULED OPTICS-TYPE IV WIDE, 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: 5418.2 lumens
Efficiency: N/A
Efficacy: 90.0 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 0.54')
IES Classification: Type IV - 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

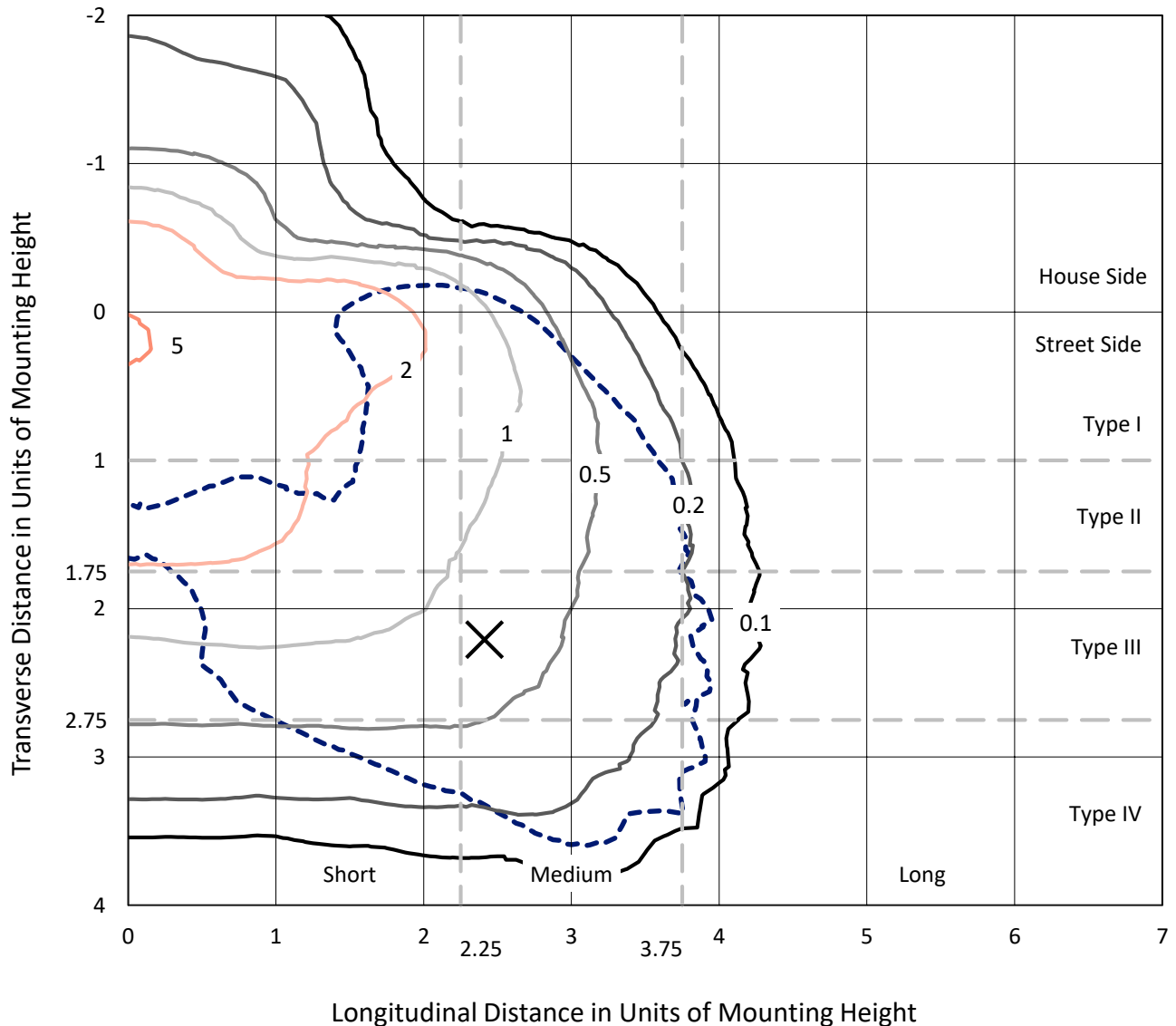


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Iso-Footcandle Lines of Horizontal Illumination

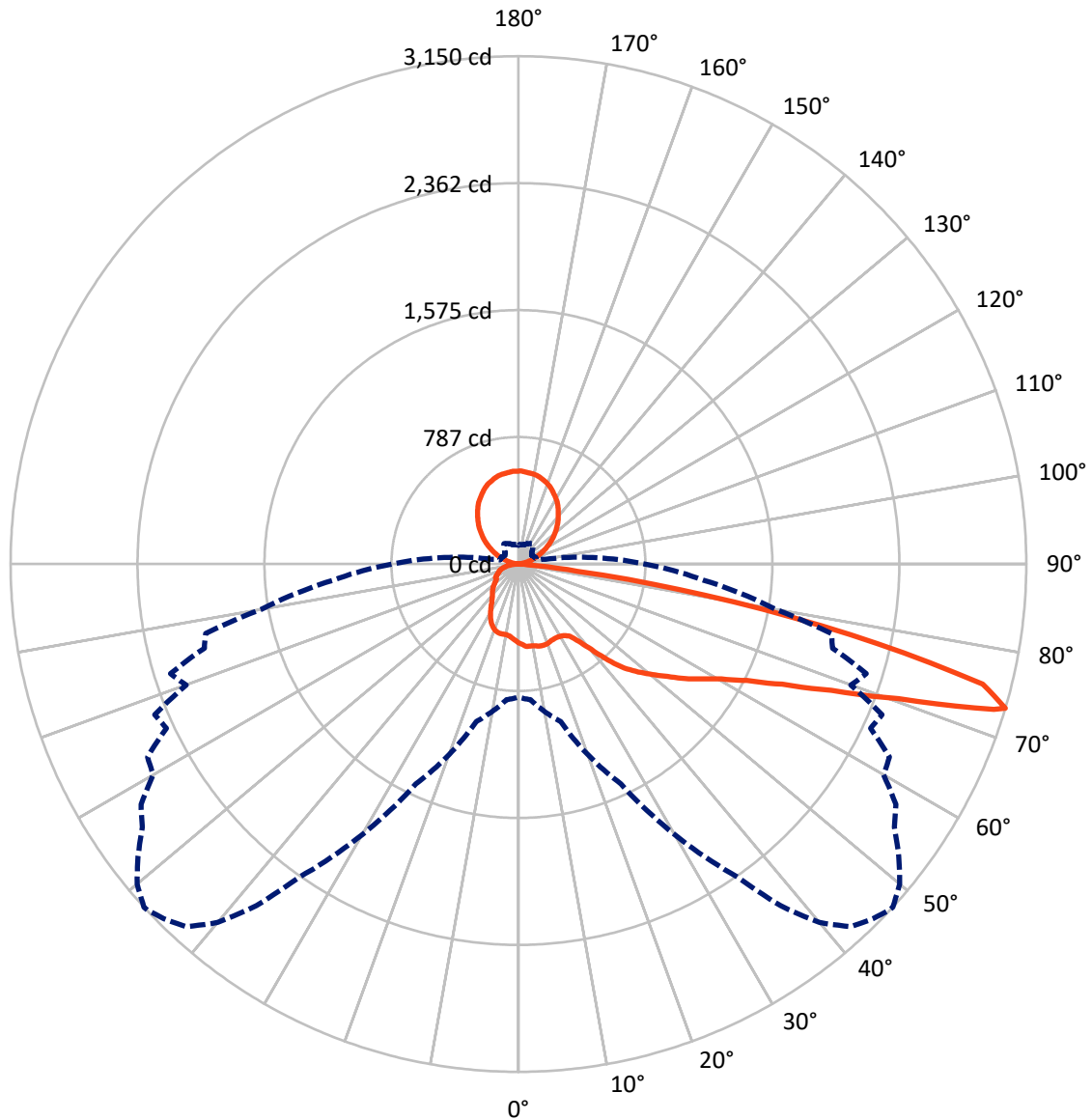
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.7 fc
 Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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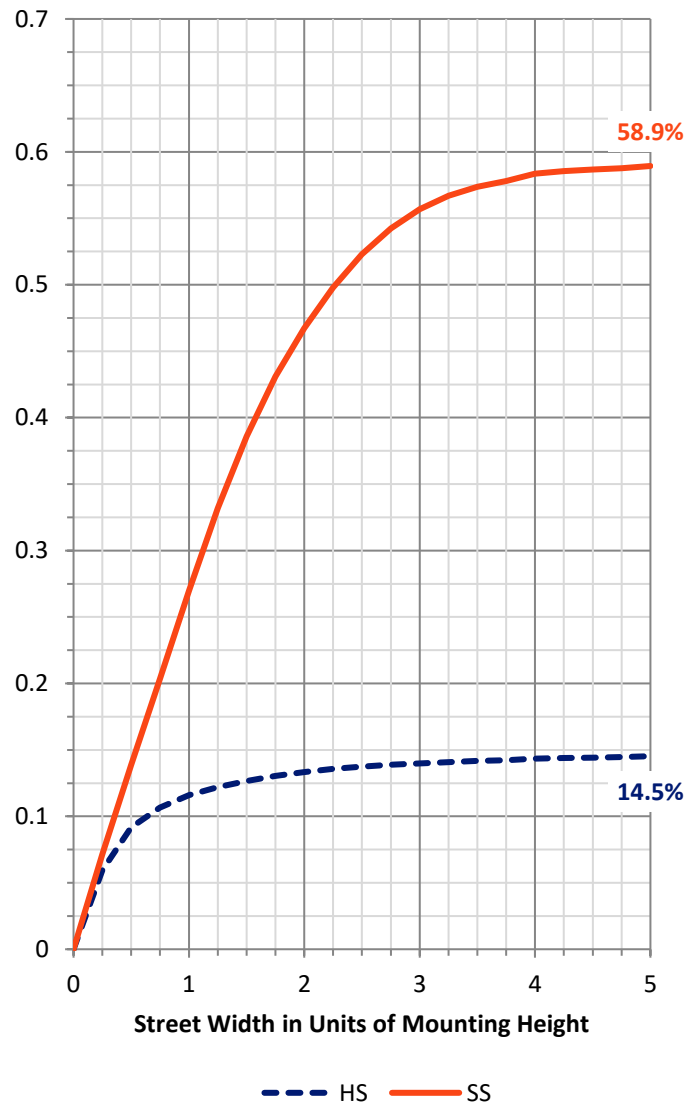
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	797.6	713.1	1510.7
	% Fixture	14.7	13.2	27.9
Street Side	Lumens	3194.4	713.1	3907.5
	% Fixture	59.0	13.2	72.1
Total	Lumens	3992.0	1426.2	5418.2
	% Fixture	73.7	26.3	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.7	0.9
10°-20°	138.9	2.6
20°-30°	213.5	3.9
30°-40°	311.5	5.7
40°-50°	513.6	9.5
50°-60°	804.1	14.8
60°-70°	1090.8	20.1
70°-80°	807.7	14.9
80°-90°	65.3	1.2
90°-100°	4.7	0.1
100°-110°	69.0	1.3
110°-120°	153.0	2.8
120°-130°	223.9	4.1
130°-140°	265.6	4.9
140°-150°	269.3	5.0
150°-160°	231.1	4.3
160°-170°	155.1	2.9
170°-180°	54.3	1.0
0°-90°	3992.0	73.7
0°-180°	5418.2	100.0



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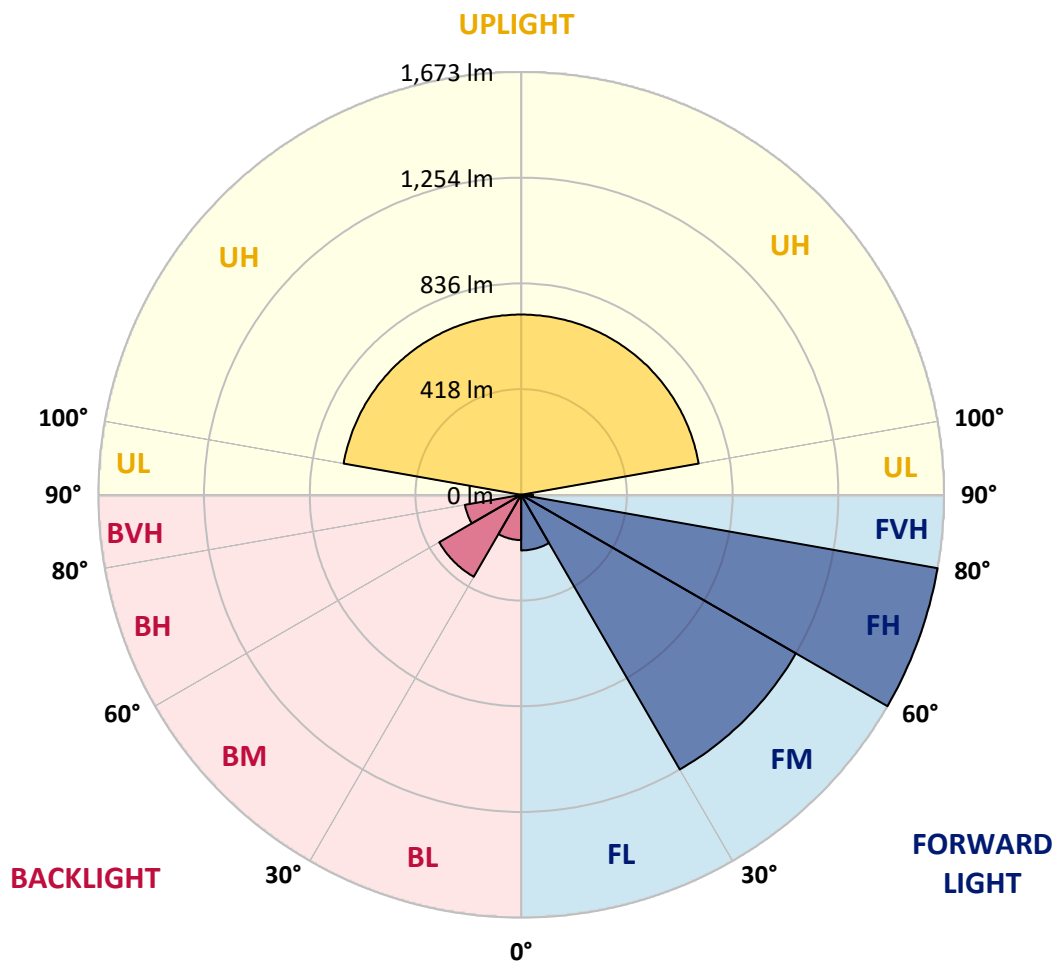
CATALOG NUMBER: ISS-AF-800-LED-E1-T4W-8030-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	220.0	4.1			
FM (30°-60°)	1254.6	23.2			
FH (60°-80°)	1672.7	30.9			G1/1800
FVH (80°-90°)	47.1	0.9			G1/100
BL (0°-30°)	179.0	3.3	B1/500		
BM (30°-60°)	374.5	6.9	B1/1000		
BH (60°-80°)	225.9	4.2	B1/500		G1/500
BVH (80°-90°)	18.2	0.3			G1/100
UL (90°-100°)	4.7	0.1		U1/10	
UH (100°-180°)	713.1	13.2		U4/1000	

BUG Rating: B1-U5-G1

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47°	47.5°
0°	490.2	490.2	490.2	490.2	490.2	490.2	490.2	490.2	490.2	490.2	490.2
2.5°	519.2	517.9	513.9	512.6	508.7	506.0	504.7	503.4	507.3	504.7	500.8
5°	552.2	549.5	544.2	536.3	528.4	523.2	521.8	519.2	519.2	516.6	513.9
7.5°	575.9	574.6	566.7	554.8	541.6	532.4	527.1	523.2	524.5	521.8	513.9
10°	598.3	595.6	582.5	568.0	548.2	537.7	531.1	524.5	529.8	525.8	515.3
12.5°	615.4	612.8	594.3	575.9	553.5	541.6	535.0	531.1	536.3	533.7	521.8
15°	624.6	622.0	603.5	581.1	557.4	544.2	541.6	539.0	542.9	537.7	527.1
17.5°	619.4	619.4	602.2	578.5	558.7	545.6	541.6	539.0	544.2	539.0	527.1
20°	599.6	602.2	590.4	565.3	550.8	541.6	537.7	532.4	537.7	532.4	524.5
22.5°	574.6	577.2	570.6	548.2	537.7	531.1	529.8	524.5	528.4	524.5	516.6
25°	552.2	552.2	549.5	529.8	528.4	523.2	524.5	521.8	524.5	519.2	513.9
27.5°	553.5	553.5	542.9	523.2	521.8	521.8	521.8	521.8	523.2	519.2	513.9
30°	631.2	633.9	603.5	548.2	528.4	525.8	527.1	525.8	527.1	525.8	519.2
32.5°	748.5	748.5	719.5	633.9	564.0	546.9	540.3	539.0	535.0	533.7	528.4
35°	864.5	863.2	834.2	739.3	651.0	618.0	597.0	577.2	568.0	558.7	549.5
37.5°	962.0	958.0	954.1	846.0	753.8	715.6	690.5	661.5	643.1	627.3	606.2
40°	1052.9	1059.5	1074.0	944.9	856.6	821.0	795.9	759.0	740.6	720.8	695.8
42.5°	1178.1	1187.3	1188.6	1051.6	950.1	926.4	906.6	879.0	859.2	835.5	813.1
45°	1299.3	1300.7	1304.6	1166.2	1064.8	1034.5	1020.0	993.6	968.6	938.3	919.8
47.5°	1382.4	1378.4	1395.5	1298.0	1199.2	1164.9	1143.8	1104.3	1066.1	1027.9	1000.2
50°	1483.8	1479.9	1479.9	1448.3	1354.7	1315.2	1278.3	1204.5	1163.6	1116.2	1076.6
52.5°	1573.4	1558.9	1568.2	1586.6	1518.1	1468.0	1403.4	1320.4	1266.4	1208.4	1158.3
55°	1696.0	1620.9	1642.0	1706.5	1680.2	1602.4	1516.8	1428.5	1366.5	1300.7	1254.5
57.5°	1653.8	1602.4	1664.4	1777.7	1776.4	1703.9	1631.4	1523.4	1461.4	1399.5	1342.8
60°	1502.3	1528.6	1663.1	1826.5	1833.0	1776.4	1717.1	1616.9	1568.2	1503.6	1446.9
62.5°	1385.0	1423.2	1607.7	1822.5	1897.6	1844.9	1796.1	1736.8	1702.6	1648.6	1590.6
65°	1378.4	1400.8	1580.0	1818.6	1988.5	1960.9	1938.5	1910.8	1904.2	1864.7	1797.5
67.5°	1441.7	1462.7	1627.5	1920.0	2123.0	2111.1	2144.0	2138.8	2167.8	2148.0	2092.7
70°	1317.8	1329.7	1532.6	1955.6	2430.0	2482.7	2556.5	2552.6	2614.5	2567.1	2502.5
72.5°	925.1	948.8	1128.0	1615.6	2436.6	2718.6	2889.9	3034.9	3102.1	3113.9	3083.6
73°	826.3	844.7	1010.7	1504.9	2370.7	2671.2	2901.8	3050.7	3110.0	3146.9	3149.5
75°	287.3	296.5	441.5	911.9	1895.0	2331.2	2627.7	2762.1	2747.6	2855.7	2974.3
77.5°	92.2	93.6	114.6	235.9	914.5	1446.9	1777.7	1901.6	1830.4	1947.7	2105.8
80°	56.7	59.3	75.1	106.7	239.8	438.8	743.2	930.4	892.1	1001.5	1170.2
82.5°	34.3	35.6	46.1	65.9	96.2	106.7	139.7	189.8	233.2	280.7	367.7
85°	15.8	17.1	22.4	30.3	39.5	40.9	39.5	36.9	42.2	48.8	56.7
87.5°	0.0	0.0	1.3	2.6	1.3	0.0	0.0	0.0	0.0	1.3	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°	2.0	2.0	2.0	3.0	4.0	5.2	6.5	7.8	9.0	9.8	10.0
100°	8.0	8.0	10.0	14.0	22.0	24.0	26.0	28.0	30.0	30.4	30.5
102.5°	28.0	28.0	32.0	38.0	45.0	46.2	47.5	48.8	50.0	50.2	50.2
105°	54.0	54.0	56.0	61.0	66.0	67.0	68.0	69.0	70.0	70.2	70.2
107.5°	78.0	77.0	80.0	84.0	88.0	88.8	89.5	90.2	91.0	91.4	91.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47°	47.5°
110°	101.0	102.0	103.0	106.0	110.0	110.5	111.0	111.5	112.0	112.4	112.5
112.5°	124.0	124.0	126.0	129.0	132.0	132.5	133.0	133.5	134.0	134.4	134.5
115°	146.0	147.0	149.0	151.0	154.0	154.5	155.0	155.5	156.0	156.4	156.5
117.5°	169.0	170.0	172.0	174.0	177.0	177.5	178.0	178.5	179.0	179.2	179.2
120°	193.0	195.0	196.0	198.0	201.0	201.2	201.5	201.8	202.0	202.4	202.5
122.5°	219.0	220.0	221.0	223.0	226.0	226.2	226.5	226.8	227.0	227.2	227.2
125°	244.0	246.0	247.0	248.0	251.0	251.2	251.5	251.8	252.0	252.2	252.2
127.5°	267.0	269.0	270.0	272.0	274.0	274.5	275.0	275.5	276.0	276.4	276.5
130°	290.0	292.0	293.0	294.0	298.0	298.2	298.5	298.8	299.0	299.4	299.5
132.5°	313.0	314.0	317.0	318.0	321.0	321.2	321.5	321.8	322.0	322.6	322.8
135°	336.0	337.0	339.0	341.0	345.0	345.0	345.0	345.0	345.0	345.6	345.8
137.5°	359.0	360.0	363.0	364.0	367.0	367.0	367.0	367.0	367.0	367.4	367.5
140°	382.0	383.0	385.0	386.0	388.0	388.2	388.5	388.8	389.0	389.2	389.2
142.5°	404.0	406.0	408.0	407.0	410.0	410.0	410.0	410.0	410.0	410.4	410.5
145°	425.0	426.0	428.0	428.0	431.0	431.2	431.5	431.8	432.0	432.4	432.5
147.5°	444.0	444.0	447.0	448.0	452.0	452.2	452.5	452.8	453.0	453.2	453.2
150°	461.0	462.0	464.0	465.0	469.0	469.2	469.5	469.8	470.0	470.2	470.2
152.5°	479.0	480.0	483.0	482.0	485.0	485.2	485.5	485.8	486.0	486.2	486.2
155°	499.0	500.0	502.0	501.0	503.0	503.0	503.0	503.0	503.0	503.2	503.2
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	541.2
165°	546.0	547.0	549.0	548.0	552.0	552.0	552.0	552.0	552.0	552.2	552.2
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	565.8
172.5°	565.0	566.0	569.0	567.0	569.0	568.8	568.5	568.2	568.0	568.2	568.2
175°	567.0	569.0	570.0	569.0	572.0	572.0	572.0	572.0	572.0	572.2	572.2
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):

	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°
0°	490.2	490.2	490.2	490.2	490.2	490.2	490.2	490.2	490.2	490.2	490.2
2.5°	504.7	500.8	500.8	495.5	498.1	492.9	495.5	490.2	492.9	486.3	490.2
5°	512.6	506.0	506.0	498.1	499.4	490.2	494.2	483.6	488.9	477.0	484.9
7.5°	516.6	504.7	510.0	495.5	502.1	486.3	494.2	477.0	487.6	469.1	482.3
10°	521.8	504.7	513.9	498.1	506.0	487.6	498.1	477.0	490.2	467.8	479.7
12.5°	529.8	511.3	519.2	500.8	511.3	490.2	500.8	479.7	492.9	467.8	482.3
15°	535.0	516.6	524.5	506.0	513.9	490.2	503.4	478.4	492.9	466.5	482.3
17.5°	533.7	516.6	524.5	503.4	512.6	488.9	502.1	477.0	490.2	462.5	479.7
20°	528.4	513.9	519.2	500.8	508.7	484.9	496.8	471.8	486.3	458.6	475.7
22.5°	521.8	507.3	513.9	496.8	504.7	481.0	491.5	469.1	483.6	456.0	471.8
25°	517.9	506.0	510.0	492.9	503.4	482.3	492.9	467.8	483.6	456.0	474.4
27.5°	516.6	506.0	513.9	498.1	507.3	488.9	499.4	477.0	490.2	461.2	479.7
30°	524.5	515.3	521.8	508.7	516.6	498.1	508.7	487.6	500.8	473.1	494.2
32.5°	533.7	524.5	531.1	519.2	531.1	512.6	525.8	504.7	520.5	492.9	512.6
35°	553.5	542.9	552.2	539.0	552.2	537.7	552.2	529.8	549.5	521.8	542.9
37.5°	604.9	575.9	585.1	570.6	583.8	565.3	590.4	568.0	590.4	564.0	593.0
40°	686.6	635.2	644.4	614.1	633.9	606.2	636.5	619.4	649.7	616.7	653.6
42.5°	793.3	744.6	735.3	689.2	706.3	673.4	703.7	673.4	714.2	682.6	728.7
45°	890.8	839.4	824.9	780.1	792.0	748.5	786.7	744.6	798.6	761.7	819.7
47.5°	971.2	910.6	898.7	847.3	868.4	827.6	875.0	830.2	896.1	859.2	926.4
50°	1045.0	969.9	967.3	911.9	947.5	906.6	973.8	943.5	1008.1	971.2	1050.3
52.5°	1129.3	1034.5	1047.6	997.6	1054.2	1020.0	1097.7	1054.2	1138.6	1099.0	1186.0
55°	1219.0	1118.8	1153.1	1122.8	1190.0	1167.6	1233.5	1193.9	1276.9	1237.4	1329.7
57.5°	1317.8	1232.1	1292.8	1278.3	1337.6	1309.9	1383.7	1348.1	1431.1	1398.2	1490.4
60°	1446.9	1390.3	1449.6	1448.3	1499.6	1498.3	1545.8	1524.7	1603.8	1589.3	1673.6
62.5°	1614.3	1569.5	1632.7	1615.6	1677.5	1667.0	1725.0	1725.0	1781.7	1801.4	1885.8
65°	1839.6	1780.3	1855.4	1829.1	1891.0	1893.7	1930.6	1937.2	2005.7	2028.1	2100.6
67.5°	2145.4	2076.8	2136.1	2086.1	2157.2	2153.3	2184.9	2198.1	2207.3	2261.3	2269.2
70°	2585.5	2482.7	2536.7	2468.2	2481.4	2490.6	2431.3	2474.8	2369.4	2455.0	2339.1
72.5°	3061.2	2943.9	2850.4	2781.9	2646.1	2626.4	2453.7	2490.6	2266.6	2340.4	2105.8
73°	3086.3	2972.9	2846.4	2775.3	2614.5	2593.4	2408.9	2440.5	2192.8	2262.6	2016.2
75°	2805.6	2835.9	2531.5	2560.5	2281.1	2314.0	2025.4	2062.3	1757.9	1810.6	1493.1
77.5°	1891.0	1992.5	1651.2	1779.0	1432.4	1560.3	1168.9	1180.7	861.8	805.2	546.9
80°	936.9	1023.9	726.1	793.3	532.4	523.2	318.9	264.9	225.3	230.6	237.2
82.5°	270.1	304.4	188.4	187.1	133.1	126.5	126.5	134.4	137.1	152.9	148.9
85°	51.4	61.9	54.0	72.5	64.6	71.2	65.9	76.4	71.2	88.3	76.4
87.5°	1.3	0.0	1.3	4.0	4.0	9.2	6.6	10.5	10.5	18.4	17.1
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°	11.0	12.0	13.0	11.5	10.0	8.5	7.0	6.5	6.0	5.5	5.0
100°	31.0	31.5	32.0	31.5	31.0	30.5	30.0	29.2	28.5	27.8	27.0
102.5°	50.5	50.8	51.0	50.8	50.5	50.2	50.0	49.5	49.0	48.5	48.0
105°	70.5	70.8	71.0	71.0	71.0	71.0	71.0	70.5	70.0	69.5	69.0
107.5°	92.0	92.5	93.0	92.8	92.5	92.2	92.0	91.8	91.5	91.2	91.0



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CANDELA DISTRIBUTION (continued):

	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°
110°	113.0	113.5	114.0	114.0	114.0	114.0	114.0	113.8	113.5	113.2	113.0
112.5°	135.0	135.5	136.0	136.0	136.0	136.0	136.0	135.8	135.5	135.2	135.0
115°	157.0	157.5	158.0	158.0	158.0	158.0	158.0	158.0	158.0	158.0	158.0
117.5°	179.5	179.8	180.0	180.2	180.5	180.8	181.0	180.8	180.5	180.2	180.0
120°	203.0	203.5	204.0	204.0	204.0	204.0	204.0	204.0	204.0	204.0	204.0
122.5°	227.5	227.8	228.0	228.0	228.0	228.0	228.0	228.2	228.5	228.8	229.0
125°	252.5	252.8	253.0	253.2	253.5	253.8	254.0	254.0	254.0	254.0	254.0
127.5°	277.0	277.5	278.0	277.8	277.5	277.2	277.0	277.2	277.5	277.8	278.0
130°	300.0	300.5	301.0	301.0	301.0	301.0	301.0	301.2	301.5	301.8	302.0
132.5°	323.5	324.2	325.0	325.0	325.0	325.0	325.0	325.2	325.5	325.8	326.0
135°	346.5	347.2	348.0	348.0	348.0	348.0	348.0	348.2	348.5	348.8	349.0
137.5°	368.0	368.5	369.0	369.0	369.0	369.0	369.0	369.2	369.5	369.8	370.0
140°	389.5	389.8	390.0	390.0	390.0	390.0	390.0	390.5	391.0	391.5	392.0
142.5°	411.0	411.5	412.0	412.0	412.0	412.0	412.0	412.2	412.5	412.8	413.0
145°	433.0	433.5	434.0	433.8	433.5	433.2	433.0	433.2	433.5	433.8	434.0
147.5°	453.5	453.8	454.0	453.5	453.0	452.5	452.0	452.2	452.5	452.8	453.0
150°	470.5	470.8	471.0	470.5	470.0	469.5	469.0	469.0	469.0	469.0	469.0
152.5°	486.5	486.8	487.0	486.8	486.5	486.2	486.0	486.0	486.0	486.0	486.0
155°	503.5	503.8	504.0	503.8	503.5	503.2	503.0	503.2	503.5	503.8	504.0
157.5°	519.0	519.0	519.0	518.5	518.0	517.5	517.0	517.2	517.5	517.8	518.0
160°	532.0	532.0	532.0	531.5	531.0	530.5	530.0	530.0	530.0	530.0	530.0
162.5°	541.5	541.8	542.0	541.5	541.0	540.5	540.0	539.5	539.0	538.5	538.0
165°	552.5	552.8	553.0	552.2	551.5	550.8	550.0	549.5	549.0	548.5	548.0
167.5°	560.0	560.0	560.0	559.5	559.0	558.5	558.0	558.2	558.5	558.8	559.0
170°	565.5	565.2	565.0	564.8	564.5	564.2	564.0	564.5	565.0	565.5	566.0
172.5°	568.5	568.8	569.0	568.5	568.0	567.5	567.0	567.2	567.5	567.8	568.0
175°	572.5	572.8	573.0	572.2	571.5	570.8	570.0	569.5	569.0	568.5	568.0
177.5°	577.0	577.0	577.0	576.2	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°	490.2	490.2	490.2	490.2	490.2	490.2	490.2	490.2	490.2	490.2	490.2
2.5°	484.9	491.5	488.9	486.3	483.6	482.3	477.0	479.7	473.1	478.4	473.1
5°	474.4	482.3	478.4	473.1	470.5	467.8	458.6	465.2	454.6	463.9	456.0
7.5°	462.5	475.7	471.8	466.5	461.2	458.6	440.1	454.6	438.8	452.0	438.8
10°	458.6	473.1	467.8	461.2	456.0	453.3	430.9	448.0	430.9	445.4	428.3
12.5°	456.0	473.1	465.2	458.6	453.3	449.4	424.3	445.4	423.0	444.1	424.3
15°	453.3	473.1	462.5	454.6	449.4	445.4	419.1	442.8	417.7	441.5	419.1
17.5°	450.7	469.1	459.9	450.7	445.4	442.8	413.8	438.8	412.5	438.8	416.4
20°	446.7	465.2	454.6	445.4	440.1	436.2	407.2	433.6	405.9	432.2	407.2
22.5°	441.5	461.2	452.0	442.8	437.5	430.9	399.3	427.0	398.0	424.3	400.6
25°	442.8	463.9	452.0	442.8	434.9	428.3	394.0	424.3	391.4	417.7	391.4
27.5°	449.4	467.8	456.0	448.0	437.5	429.6	394.0	421.7	388.7	411.2	383.5
30°	462.5	481.0	470.5	458.6	449.4	438.8	400.6	423.0	388.7	403.2	375.6
32.5°	484.9	502.1	491.5	482.3	471.8	456.0	413.8	429.6	391.4	398.0	369.0
35°	513.9	535.0	529.8	523.2	510.0	482.3	436.2	438.8	396.7	392.7	359.8
37.5°	561.4	590.4	589.1	587.7	573.2	523.2	461.2	457.3	401.9	388.7	347.9
40°	623.3	657.6	666.8	676.0	645.7	571.9	490.2	475.7	404.6	380.8	329.4
42.5°	695.8	741.9	769.6	786.7	731.4	626.0	523.2	496.8	404.6	369.0	308.4
45°	785.4	839.4	892.1	910.6	826.3	683.9	557.4	513.9	399.3	350.5	280.7
47.5°	894.8	958.0	1030.5	1039.7	929.0	745.9	581.1	525.8	382.2	325.5	255.7
50°	1016.0	1092.4	1199.2	1192.6	1038.4	810.4	597.0	533.7	351.9	296.5	225.3
52.5°	1151.7	1247.9	1399.5	1369.2	1171.5	890.8	611.5	544.2	315.0	262.2	195.0
55°	1321.7	1436.4	1626.2	1561.6	1319.1	979.1	632.5	545.6	266.2	221.4	172.6
57.5°	1504.9	1627.5	1869.9	1752.7	1457.5	1047.6	623.3	503.4	217.4	187.1	155.5
60°	1725.0	1873.9	2113.7	1930.6	1573.4	1071.4	558.7	415.1	185.8	168.7	147.6
62.5°	1971.4	2119.0	2314.0	2054.4	1639.3	1031.8	415.1	287.3	159.5	150.2	135.7
65°	2233.7	2373.3	2410.2	2065.0	1595.8	857.9	257.0	188.4	138.4	134.4	125.2
67.5°	2474.8	2488.0	2319.3	1893.7	1385.0	598.3	175.3	150.2	127.8	126.5	121.2
70°	2536.7	2308.8	1927.9	1474.6	1000.2	355.8	142.3	130.5	122.6	122.6	118.6
72.5°	2119.0	1757.9	1288.8	893.5	545.6	189.8	121.2	118.6	116.0	116.0	113.3
73°	1987.2	1619.6	1154.4	780.1	461.2	170.0	118.6	116.0	114.6	113.3	112.0
75°	1320.4	1017.3	654.9	395.3	214.8	122.6	105.4	105.4	104.1	105.4	104.1
77.5°	508.7	383.5	253.0	170.0	122.6	96.2	89.6	90.9	89.6	92.2	90.9
80°	224.0	221.4	167.4	119.9	89.6	72.5	72.5	72.5	73.8	75.1	75.1
82.5°	152.9	129.1	98.8	73.8	54.0	52.7	54.0	54.0	55.3	56.7	55.3
85°	84.3	71.2	52.7	32.9	29.0	35.6	35.6	35.6	34.3	34.3	32.9
87.5°	26.4	19.8	14.5	4.0	6.6	6.6	9.2	7.9	7.9	9.2	9.2
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°
												72.5°
												73°
												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°
490.2	490.2	490.2	490.2	490.2	490.2	490.2	490.2	490.2	490.2	490.2	110°	114.0
478.4	474.4	478.4	471.8	477.0	471.8	475.7	475.7	474.4	474.4	474.4	112.5°	136.0
462.5	456.0	462.5	458.6	462.5	457.3	461.2	462.5	463.9	467.8	466.5	115°	158.0
450.7	437.5	452.0	438.8	450.7	438.8	449.4	450.7	454.6	459.9	463.9	117.5°	181.0
445.4	428.3	445.4	429.6	444.1	430.9	444.1	445.4	449.4	456.0	462.5	120°	204.0
442.8	424.3	442.8	427.0	442.8	429.6	442.8	446.7	449.4	454.6	462.5	122.5°	228.0
440.1	421.7	442.8	425.6	442.8	429.6	444.1	446.7	450.7	456.0	462.5	125°	254.0
438.8	417.7	440.1	424.3	440.1	427.0	442.8	442.8	448.0	454.6	458.6	127.5°	277.0
433.6	413.8	433.6	417.7	433.6	421.7	434.9	434.9	440.1	442.8	449.4	130°	301.0
425.6	404.6	423.0	408.5	423.0	411.2	421.7	421.7	425.6	429.6	433.6	132.5°	325.0
413.8	394.0	409.8	396.7	407.2	396.7	404.6	403.2	405.9	408.5	411.2	135°	348.0
400.6	380.8	394.0	379.5	386.1	375.6	380.8	378.2	379.5	380.8	382.2	137.5°	369.0
386.1	366.3	372.9	359.8	361.1	350.5	353.2	349.2	347.9	346.6	343.9	140°	390.0
370.3	349.2	349.2	336.0	333.4	324.2	324.2	318.9	315.0	309.7	304.4	142.5°	412.0
350.5	332.1	322.9	312.3	307.0	297.8	296.5	289.9	280.7	271.5	266.2	145°	433.0
330.8	309.7	296.5	286.0	280.7	274.1	272.8	267.5	257.0	246.4	238.5	147.5°	452.0
304.4	283.3	268.8	264.9	260.9	255.7	257.0	250.4	239.8	228.0	221.4	150°	469.0
278.1	259.6	247.7	246.4	243.8	242.5	243.8	238.5	226.7	216.1	208.2	152.5°	486.0
255.7	237.2	225.3	224.0	222.7	228.0	229.3	228.0	214.8	204.3	193.7	155°	503.0
233.2	210.8	202.9	200.3	201.6	209.5	212.2	216.1	204.3	192.4	177.9	157.5°	517.0
206.9	185.8	183.2	180.5	181.9	188.4	195.0	202.9	192.4	175.3	155.5	160°	530.0
183.2	164.7	166.0	163.4	166.0	171.3	176.6	189.8	176.6	159.5	150.2	162.5°	540.0
164.7	150.2	152.9	150.2	152.9	159.5	163.4	173.9	173.9	170.0	162.1	165°	550.0
151.5	141.0	143.6	141.0	145.0	150.2	154.2	176.6	189.8	179.2	163.4	167.5°	558.0
143.6	134.4	135.7	133.1	135.7	143.6	151.5	177.9	199.0	177.9	166.0	170°	564.0
131.8	123.9	122.6	122.6	125.2	138.4	142.3	166.0	196.4	176.6	167.4	172.5°	567.0
123.9	117.3	116.0	114.6	117.3	126.5	130.5	154.2	189.8	167.4	151.5	175°	570.0
119.9	114.6	112.0	109.4	112.0	119.9	123.9	145.0	179.2	159.5	142.3	177.5°	574.0
116.0	110.7	109.4	106.7	108.1	113.3	118.6	133.1	170.0	150.2	133.1	180°	576.0
110.7	105.4	104.1	100.2	101.5	106.7	109.4	125.2	158.1	141.0	123.9		
109.4	104.1	102.8	98.8	100.2	104.1	106.7	122.6	155.5	139.7	122.6		
102.8	97.5	96.2	93.6	94.9	94.9	97.5	112.0	147.6	131.8	114.6		
90.9	87.0	85.7	83.0	81.7	80.4	84.3	98.8	134.4	118.6	92.2		
75.1	71.2	69.8	64.6	64.6	64.6	69.8	84.3	100.2	85.7	71.2		
55.3	52.7	52.7	48.8	47.4	46.1	50.1	58.0	79.1	67.2	55.3		
32.9	31.6	32.9	29.0	30.3	29.0	32.9	40.9	43.5	34.3	26.4		
7.9	9.2	9.2	9.2	7.9	7.9	6.6	5.3	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		
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		

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 ISS-AF-800-LED-E1-T4W-8030-ULG

REPORT NUMBER: P227921
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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°	490.2	490.2
136.0	136.0	136.0	136.0	135.5	135.0	134.0	132.0	129.0	126.0	2.5°	473.1	471.8
158.0	158.0	158.0	158.0	157.5	157.0	156.0	154.0	151.0	149.0	5°	466.5	466.5
180.8	180.5	180.2	180.0	179.8	179.5	179.0	177.0	174.0	172.0	7.5°	463.9	463.9
204.0	204.0	204.0	204.0	203.5	203.0	202.0	201.0	198.0	196.0	10°	465.2	465.2
228.0	228.0	228.0	228.0	227.8	227.5	227.0	226.0	223.0	221.0	12.5°	465.2	467.8
253.8	253.5	253.2	253.0	252.8	252.5	252.0	251.0	248.0	247.0	15°	469.1	467.8
277.2	277.5	277.8	278.0	277.5	277.0	276.0	274.0	272.0	270.0	17.5°	465.2	465.2
301.0	301.0	301.0	301.0	300.5	300.0	299.0	298.0	294.0	293.0	20°	454.6	457.3
325.0	325.0	325.0	325.0	324.2	323.5	322.0	321.0	318.0	317.0	22.5°	440.1	440.1
348.0	348.0	348.0	348.0	347.2	346.5	345.0	345.0	341.0	339.0	25°	416.4	417.7
369.0	369.0	369.0	369.0	368.5	368.0	367.0	367.0	364.0	363.0	27.5°	384.8	387.4
390.0	390.0	390.0	390.0	389.8	389.5	389.0	388.0	386.0	385.0	30°	345.3	347.9
412.0	412.0	412.0	412.0	411.5	411.0	410.0	410.0	407.0	408.0	32.5°	300.5	303.1
433.2	433.5	433.8	434.0	433.5	433.0	432.0	431.0	428.0	428.0	35°	264.9	266.2
452.5	453.0	453.5	454.0	453.8	453.5	453.0	452.0	448.0	447.0	37.5°	241.2	241.2
469.5	470.0	470.5	471.0	470.8	470.5	470.0	469.0	465.0	464.0	40°	221.4	221.4
486.2	486.5	486.8	487.0	486.8	486.5	486.0	485.0	482.0	483.0	42.5°	202.9	201.6
503.2	503.5	503.8	504.0	503.8	503.5	503.0	503.0	501.0	502.0	45°	184.5	181.9
517.5	518.0	518.5	519.0	519.0	519.0	519.0	519.0	516.0	517.0	47.5°	166.0	164.7
530.5	531.0	531.5	532.0	532.0	532.0	532.0	532.0	529.0	529.0	50°	150.2	150.2
540.5	541.0	541.5	542.0	541.8	541.5	541.0	541.0	538.0	539.0	52.5°	152.9	152.9
550.8	551.5	552.2	553.0	552.8	552.5	552.0	552.0	548.0	549.0	55°	164.7	164.7
558.5	559.0	559.5	560.0	560.0	560.0	560.0	561.0	558.0	559.0	57.5°	166.0	164.7
564.2	564.5	564.8	565.0	565.2	565.5	566.0	567.0	565.0	566.0	60°	180.5	179.2
567.5	568.0	568.5	569.0	568.8	568.5	568.0	569.0	567.0	569.0	62.5°	188.4	192.4
570.8	571.5	572.2	573.0	572.8	572.5	572.0	572.0	569.0	570.0	65°	164.7	159.5
574.8	575.5	576.2	577.0	577.0	577.0	577.0	578.0	574.0	575.0	67.5°	156.8	148.9
576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	70°	141.0	129.1
										72.5°	125.2	118.6
										73°	121.2	116.0
										75°	108.1	105.4
										77.5°	81.7	80.4
										80°	68.5	67.2
										82.5°	46.1	43.5
										85°	19.8	18.4
										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

