

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: P228059

Luminaire Tested: **ISS-AF-600-LED-E1-SL2-7030-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P228059
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-600-LED-E1-SL2-7030-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, 70 CRI LEDs and (1) UPLIGHT LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4698.2 lumens
Efficiency: N/A
Efficacy: 93.2 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): 50.4
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

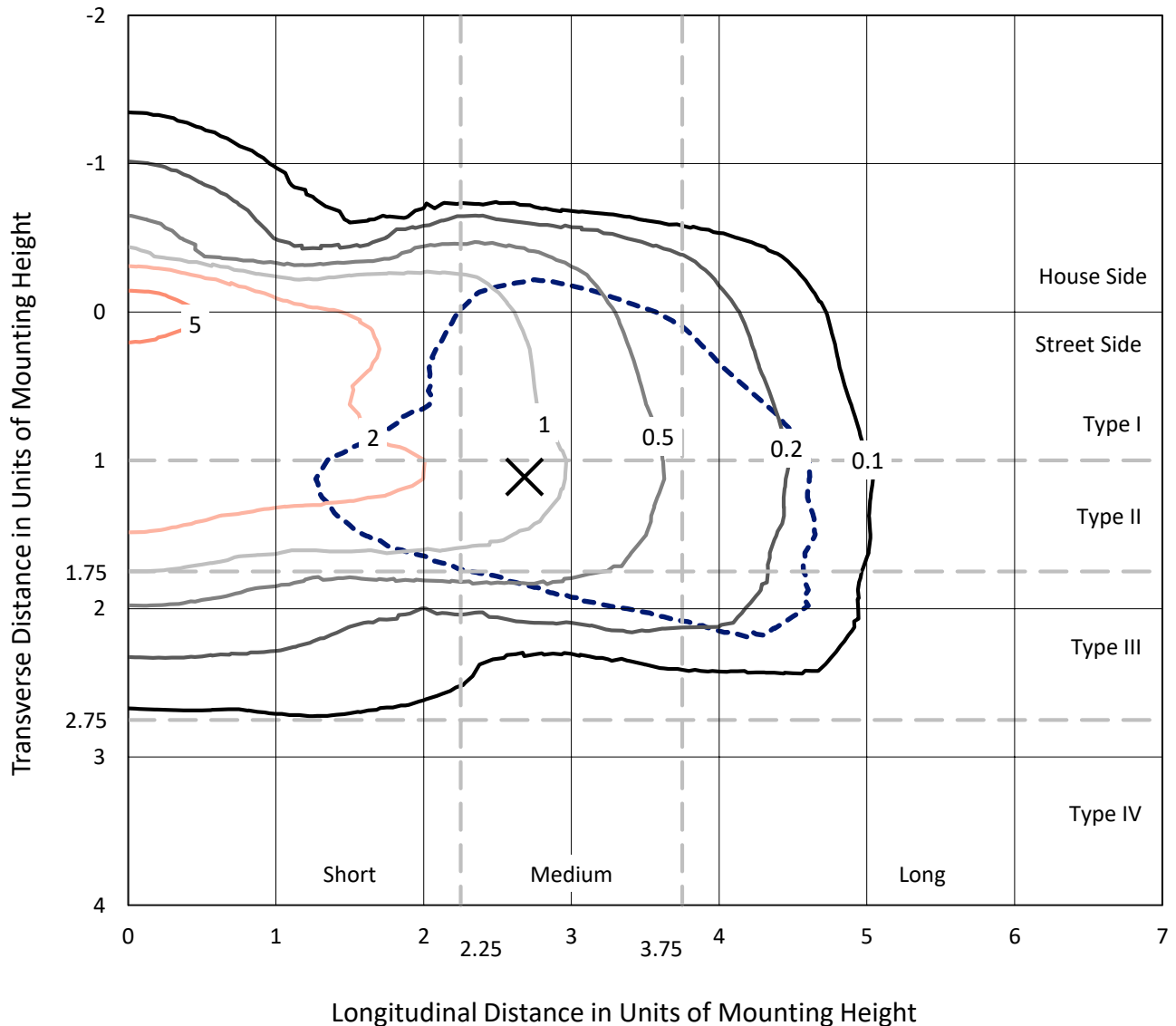


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Iso-Footcandle Lines of Horizontal Illumination

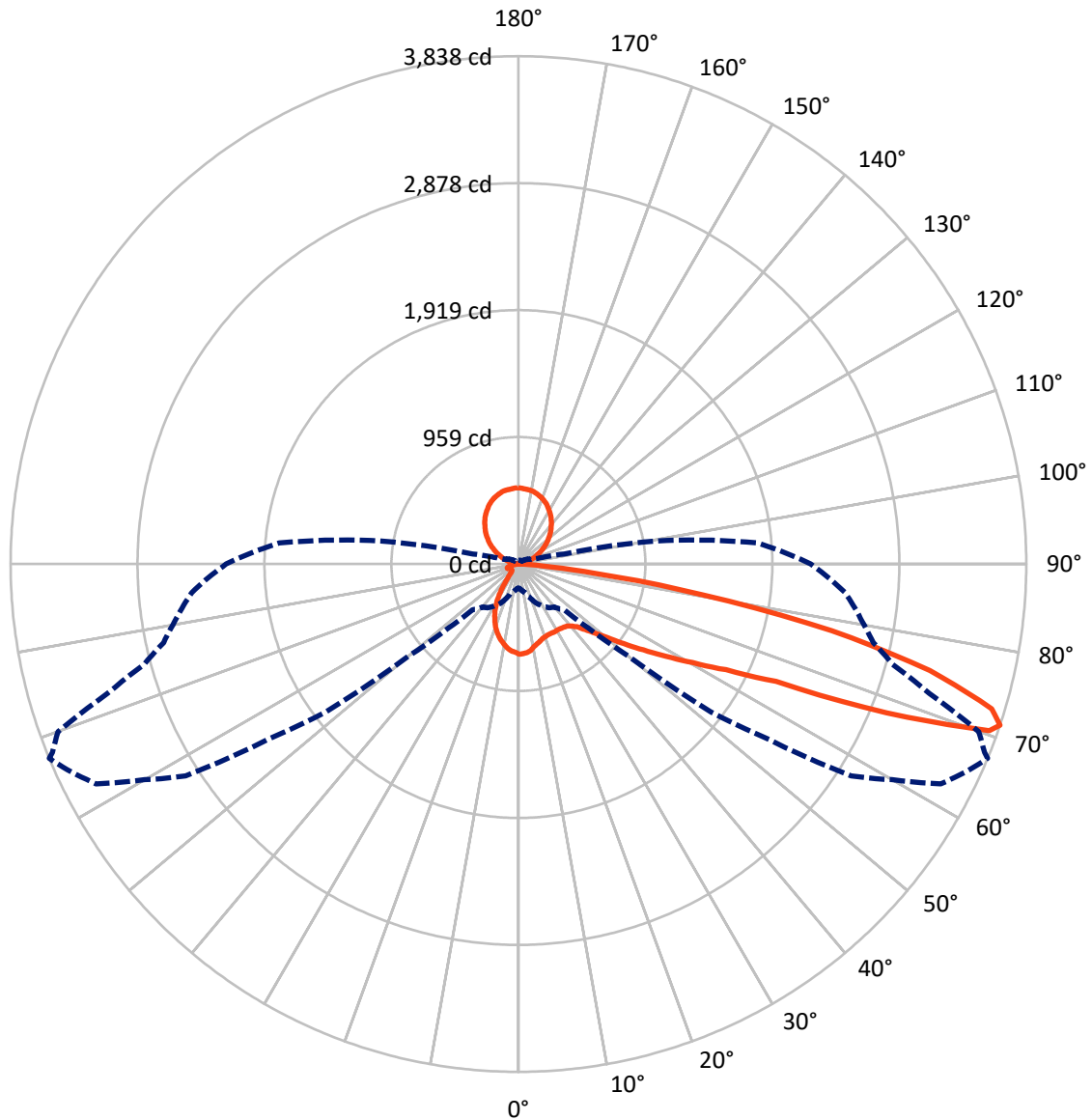
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.8 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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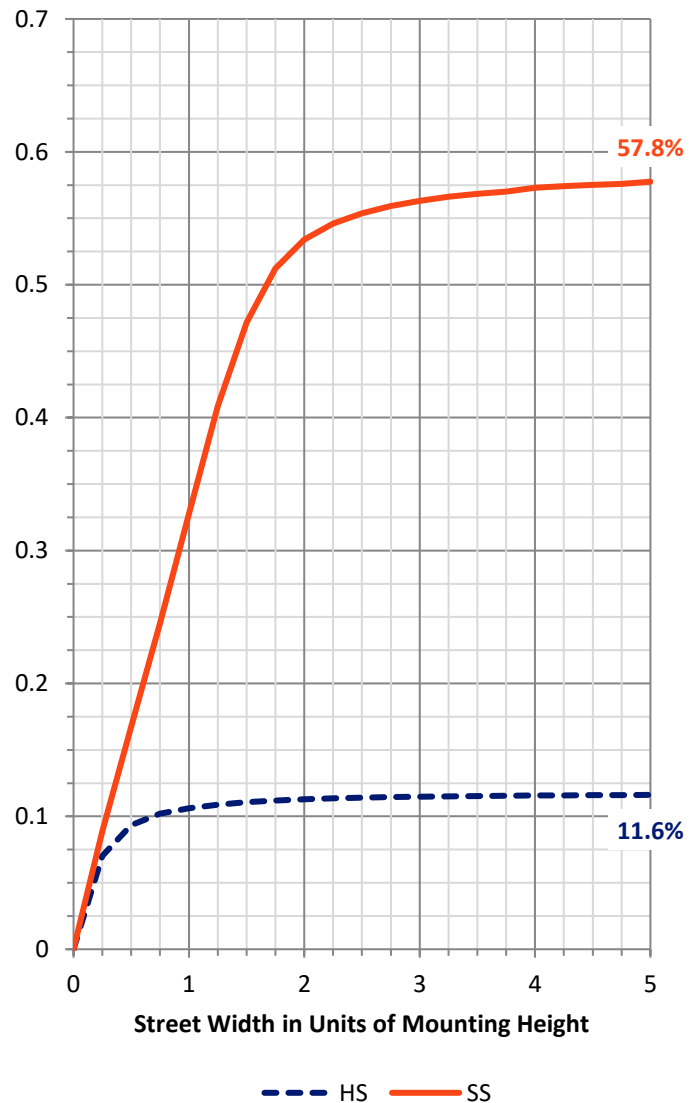
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	551.4	713.1	1264.4
	% Fixture	11.7	15.2	26.9
Street Side	Lumens	2720.6	713.1	3433.7
	% Fixture	57.9	15.2	73.1
Total	Lumens	3272.0	1426.2	4698.2
	% Fixture	69.6	30.4	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.5	1.3
10°-20°	142.3	3.0
20°-30°	193.6	4.1
30°-40°	264.6	5.6
40°-50°	398.6	8.5
50°-60°	631.8	13.4
60°-70°	836.4	17.8
70°-80°	666.3	14.2
80°-90°	79.0	1.7
90°-100°	4.7	0.1
100°-110°	69.0	1.5
110°-120°	153.0	3.3
120°-130°	223.9	4.8
130°-140°	265.6	5.7
140°-150°	269.3	5.7
150°-160°	231.1	4.9
160°-170°	155.1	3.3
170°-180°	54.3	1.2
0°-90°	3272.0	69.6
0°-180°	4698.2	100.0



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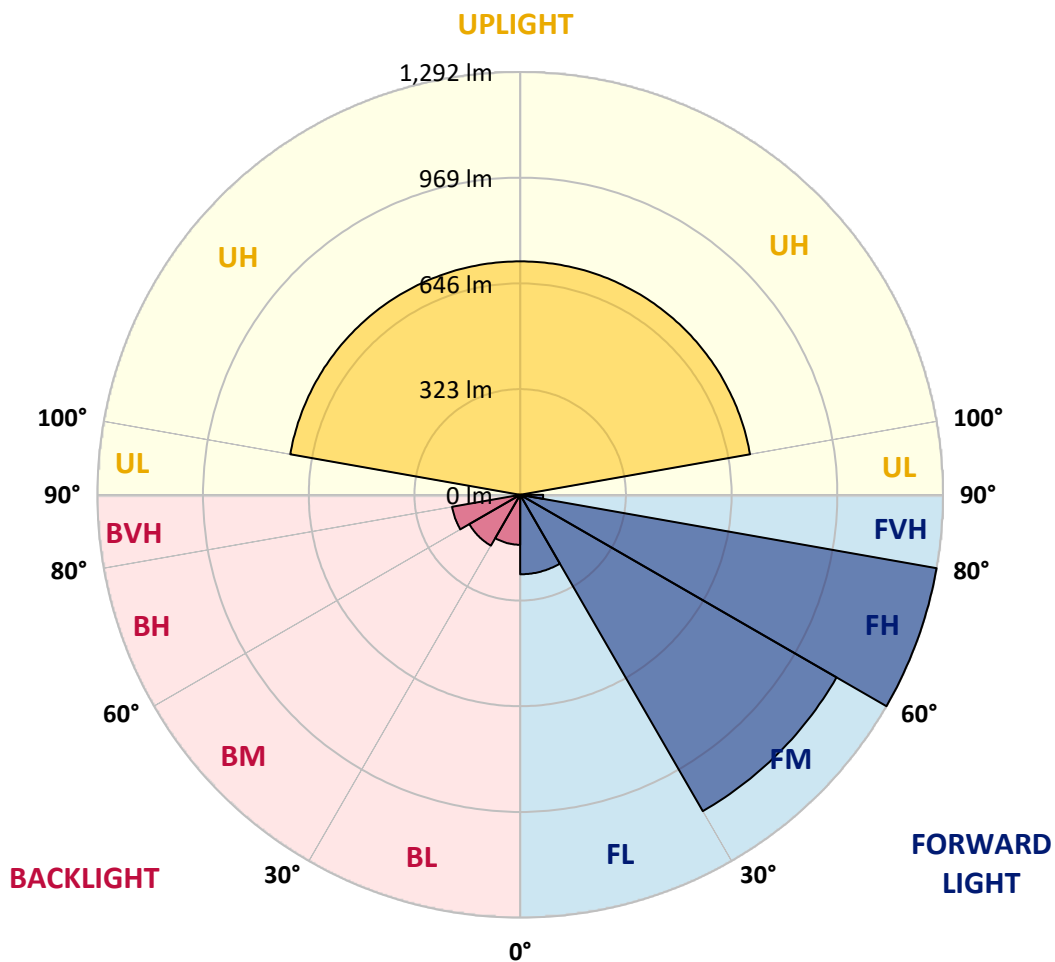
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	242.8	5.2			
FM	(30°-60°)	1115.8	23.7			
FH	(60°-80°)	1291.6	27.5			G1/1800
FVH	(80°-90°)	70.4	1.5			G1/100
BL	(0°-30°)	152.6	3.2	B1/500		
BM	(30°-60°)	179.2	3.8	B0/220		
BH	(60°-80°)	211.0	4.5	B1/500		G1/500
BVH	(80°-90°)	8.5	0.2			G0/10
UL	(90°-100°)	4.7	0.1		U1/10	
UH	(100°-180°)	713.1	15.2		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°	681.8	681.8	681.8	681.8	681.8	681.8	681.8	681.8	681.8	681.8	681.8
2.5°	669.3	667.0	667.0	670.4	676.1	671.6	675.0	675.0	676.1	679.6	680.7
5°	620.2	615.6	620.2	624.7	637.3	635.0	638.4	641.9	648.7	649.9	659.0
7.5°	575.6	573.3	576.8	585.9	601.9	597.3	601.9	606.5	614.5	617.9	627.0
10°	541.4	537.9	542.5	549.4	565.4	564.2	566.5	572.2	581.3	583.6	595.0
12.5°	516.2	516.2	518.5	527.7	541.4	540.2	547.1	550.5	558.5	560.8	573.3
15°	503.7	500.2	504.8	512.8	526.5	526.5	531.1	534.5	545.9	547.1	558.5
17.5°	492.3	493.4	494.5	503.7	516.2	514.0	519.7	521.9	534.5	532.2	545.9
20°	492.3	494.5	493.4	499.1	508.2	503.7	510.5	511.7	525.4	521.9	536.8
22.5°	506.0	508.2	504.8	503.7	507.1	503.7	507.1	509.4	519.7	517.4	531.1
25°	529.9	534.5	529.9	521.9	518.5	509.4	511.7	515.1	523.1	517.4	529.9
27.5°	567.6	571.1	563.1	555.1	539.1	528.8	525.4	524.2	533.4	524.2	534.5
30°	611.0	615.6	608.8	593.9	571.1	553.9	547.1	543.6	549.4	535.7	545.9
32.5°	657.9	662.4	657.9	646.4	615.6	590.5	581.3	573.3	577.9	559.6	564.2
35°	705.8	710.4	715.0	708.1	668.1	639.6	624.7	617.9	616.7	593.9	595.0
37.5°	748.1	752.7	767.5	774.4	737.8	699.0	685.3	670.4	671.6	639.6	639.6
40°	799.5	805.2	824.6	840.6	816.6	769.8	753.8	737.8	737.8	695.6	696.7
42.5°	869.2	876.0	888.6	910.3	902.3	854.3	837.2	815.5	817.8	767.5	766.4
45°	967.4	971.9	971.9	985.7	986.8	941.1	929.7	908.0	912.6	848.6	852.0
47.5°	1095.3	1089.6	1066.7	1074.7	1083.9	1035.9	1025.6	1011.9	1017.6	949.1	956.0
50°	1214.1	1209.5	1162.7	1165.0	1198.1	1149.0	1145.5	1128.4	1136.4	1067.9	1078.2
52.5°	1258.6	1250.6	1203.8	1228.9	1321.4	1294.0	1299.7	1291.7	1296.3	1223.2	1220.9
55°	1208.4	1208.4	1179.8	1225.5	1413.9	1428.8	1475.6	1493.9	1513.3	1440.2	1424.2
57.5°	1069.0	1078.2	1082.7	1163.8	1399.1	1463.1	1552.1	1629.8	1729.2	1724.6	1748.6
60°	838.3	854.3	880.6	1013.1	1335.1	1440.2	1555.6	1672.1	1809.1	1897.1	2027.3
62.5°	588.2	601.9	623.6	715.0	1149.0	1329.4	1496.2	1675.5	1850.2	1988.4	2159.8
65°	399.7	413.4	459.1	509.4	693.3	956.0	1210.6	1507.6	1773.7	2030.7	2261.4
67.5°	287.8	295.8	331.2	415.7	461.4	509.4	604.2	953.7	1281.5	1798.8	2135.8
70°	215.9	223.9	255.8	349.5	405.5	418.0	440.9	502.5	585.9	1010.8	1452.8
71°	180.5	191.9	230.7	328.9	403.2	413.4	423.7	460.3	487.7	715.0	1078.2
72.5°	126.8	134.8	171.3	303.8	387.2	411.2	435.1	434.0	431.7	487.7	652.2
75°	81.1	81.1	81.1	171.3	413.4	398.6	407.7	456.8	431.7	410.0	429.4
77.5°	64.0	62.8	59.4	85.7	323.2	404.3	428.3	440.9	464.8	428.3	408.9
80°	48.0	46.8	46.8	53.7	149.6	261.5	362.1	402.0	419.2	455.7	415.7
82.5°	25.1	25.1	27.4	32.0	56.0	91.4	187.3	308.4	344.9	347.2	350.6
85°	8.0	6.9	9.1	14.8	24.0	29.7	52.5	124.5	185.0	223.9	236.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	4.6	8.0	10.3
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°	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°	681.8	681.8	681.8	681.8	681.8	681.8	681.8	681.8	681.8	681.8	681.8
2.5°	677.3	681.8	678.4	683.0	677.3	684.1	678.4	681.8	683.0	678.4	684.1
5°	653.3	667.0	662.4	672.7	668.1	677.3	672.7	681.8	681.8	678.4	686.4
7.5°	623.6	637.3	638.4	648.7	648.7	660.1	660.1	669.3	673.9	673.9	685.3
10°	593.9	606.5	608.8	620.2	622.5	636.2	636.2	648.7	657.9	661.3	675.0
12.5°	571.1	587.1	587.1	599.6	597.3	617.9	620.2	631.6	640.7	648.7	667.0
15°	557.4	572.2	572.2	584.8	582.5	603.0	606.5	617.9	631.6	636.2	661.3
17.5°	543.6	558.5	555.1	572.2	571.1	593.9	591.6	608.8	620.2	627.0	655.6
20°	532.2	549.4	547.1	564.2	559.6	584.8	584.8	601.9	613.3	619.0	652.2
22.5°	526.5	544.8	540.2	557.4	553.9	579.1	579.1	596.2	608.8	617.9	651.0
25°	526.5	542.5	537.9	557.4	551.6	579.1	577.9	595.0	607.6	615.6	652.2
27.5°	528.8	544.8	541.4	559.6	555.1	579.1	581.3	596.2	608.8	617.9	654.4
30°	536.8	551.6	543.6	560.8	557.4	580.2	579.1	595.0	607.6	619.0	654.4
32.5°	553.9	561.9	551.6	566.5	559.6	582.5	582.5	593.9	608.8	622.5	654.4
35°	577.9	583.6	567.6	577.9	565.4	588.2	587.1	599.6	611.0	622.5	656.7
37.5°	612.2	619.0	593.9	603.0	582.5	600.8	596.2	611.0	622.5	629.3	668.1
40°	663.6	665.9	632.7	639.6	611.0	627.0	615.6	636.2	641.9	646.4	685.3
42.5°	726.4	728.7	686.4	691.0	654.4	668.1	648.7	670.4	678.4	677.3	719.5
45°	804.1	805.2	757.2	760.7	718.4	729.8	705.8	724.1	729.8	726.4	769.8
47.5°	888.6	897.7	844.0	848.6	804.1	809.8	780.1	800.6	800.6	797.2	841.7
50°	1000.5	1014.2	951.4	958.2	906.8	911.4	877.1	898.8	896.6	887.4	937.7
52.5°	1139.8	1152.4	1086.2	1095.3	1040.5	1042.8	1000.5	1025.6	1018.8	1003.9	1062.2
55°	1310.0	1311.2	1249.5	1257.5	1202.7	1199.2	1146.7	1177.5	1167.2	1146.7	1200.4
57.5°	1583.0	1549.9	1448.2	1445.9	1386.5	1382.0	1314.6	1352.3	1335.1	1291.7	1362.6
60°	2022.7	2033.0	1773.7	1733.7	1623.0	1602.4	1513.3	1556.7	1536.2	1465.3	1535.0
62.5°	2270.5	2433.9	2417.9	2274.0	1988.4	1910.8	1760.0	1811.4	1757.7	1653.8	1718.9
65°	2454.4	2676.0	2803.9	2942.1	2814.2	2496.7	2140.3	2212.3	2080.9	1883.4	1946.2
67.5°	2522.9	2790.2	3059.7	3256.2	3389.8	3413.8	3001.5	3020.9	2697.7	2302.5	2310.5
70°	2164.3	2558.4	3086.0	3335.0	3600.0	3730.2	3773.6	3753.0	3544.0	2984.4	2770.8
71°	1834.2	2311.7	2980.9	3258.5	3597.7	3723.3	3837.5	3798.7	3701.6	3255.0	2927.3
72.5°	1242.6	1842.2	2673.7	3025.5	3477.8	3569.1	3740.4	3671.9	3651.4	3457.2	3073.4
75°	584.8	918.3	1739.5	2271.7	2943.2	3031.2	3210.5	3126.0	3072.3	3138.6	2923.8
77.5°	430.6	501.4	954.8	1411.7	2140.3	2264.8	2419.0	2315.1	2246.6	2312.8	2163.2
80°	391.7	394.0	494.5	744.7	1276.9	1351.1	1409.4	1324.9	1220.9	1216.4	1078.2
82.5°	360.9	341.5	320.9	394.0	654.4	622.5	575.6	533.4	414.6	332.4	239.8
85°	229.6	251.3	228.4	215.9	260.4	214.7	170.2	163.3	115.4	77.7	72.0
87.5°	16.0	18.3	21.7	25.1	30.8	25.1	16.0	19.4	11.4	0.0	5.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
97.5°	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°	681.8	681.8	681.8	681.8	681.8	681.8	681.8	681.8	681.8	681.8	681.8
2.5°	676.1	681.8	684.1	683.0	680.7	678.4	670.4	676.1	668.1	673.9	667.0
5°	679.6	687.6	688.7	686.4	684.1	679.6	665.9	673.9	664.7	669.3	659.0
7.5°	678.4	691.0	692.1	689.8	685.3	677.3	663.6	669.3	654.4	657.9	644.2
10°	672.7	691.0	692.1	686.4	679.6	667.0	651.0	653.3	638.4	638.4	620.2
12.5°	667.0	688.7	694.4	686.4	675.0	657.9	639.6	637.3	620.2	619.0	598.5
15°	667.0	691.0	699.0	688.7	671.6	647.6	625.9	621.3	601.9	596.2	573.3
17.5°	665.9	691.0	702.4	688.7	668.1	637.3	609.9	605.3	580.2	571.1	544.8
20°	664.7	693.3	704.7	686.4	657.9	624.7	593.9	584.8	557.4	542.5	511.7
22.5°	663.6	697.8	707.0	684.1	651.0	608.8	576.8	560.8	528.8	509.4	472.8
25°	669.3	703.5	708.1	681.8	640.7	591.6	557.4	535.7	500.2	475.1	431.7
27.5°	671.6	709.3	710.4	677.3	628.2	573.3	536.8	507.1	467.1	436.3	387.2
30°	678.4	710.4	707.0	668.1	613.3	550.5	512.8	476.3	431.7	391.7	333.5
32.5°	680.7	713.8	704.7	657.9	598.5	527.7	485.4	443.1	389.5	342.6	271.8
35°	685.3	716.1	702.4	652.2	582.5	503.7	456.8	408.9	347.2	287.8	206.7
37.5°	692.1	726.4	708.1	649.9	574.5	483.1	424.9	373.5	297.0	227.3	137.1
40°	709.3	746.9	718.4	653.3	568.8	466.0	394.0	336.9	239.8	167.9	94.8
42.5°	743.5	782.4	744.7	670.4	572.2	451.1	362.1	298.1	181.6	119.9	78.8
45°	794.9	828.0	788.1	699.0	585.9	443.1	332.4	258.1	130.2	95.9	72.0
47.5°	870.3	902.3	852.0	744.7	609.9	439.7	301.5	215.9	100.5	86.8	69.7
50°	969.7	1007.4	944.5	816.6	654.4	443.1	268.4	175.9	87.9	84.5	68.5
52.5°	1091.9	1128.4	1065.6	922.8	727.5	462.6	233.0	153.0	83.4	83.4	67.4
55°	1230.1	1281.5	1219.8	1070.2	840.6	504.8	211.3	145.0	83.4	84.5	66.2
57.5°	1393.4	1436.8	1382.0	1211.8	976.5	574.5	213.6	153.0	83.4	84.5	65.1
60°	1553.3	1607.0	1544.1	1392.2	1131.8	679.6	260.4	194.2	86.8	87.9	65.1
62.5°	1720.0	1761.2	1709.8	1549.9	1307.7	809.8	354.1	281.0	100.5	103.9	69.7
65°	1902.8	1970.2	1916.5	1785.1	1556.7	1017.6	532.2	421.4	148.5	121.1	76.5
67.5°	2219.1	2246.6	2220.3	2100.4	1848.0	1188.9	633.9	428.3	148.5	117.6	85.7
70°	2647.4	2585.8	2468.1	2244.3	1878.8	1066.7	454.6	261.5	126.8	111.9	90.2
71°	2746.8	2652.0	2478.4	2208.9	1814.8	962.8	352.9	206.7	118.8	109.6	90.2
72.5°	2807.3	2665.7	2403.0	2104.9	1689.2	758.4	233.0	162.2	108.5	103.9	86.8
75°	2728.5	2467.0	2122.1	1821.7	1383.1	394.0	146.2	123.3	92.5	90.2	75.4
77.5°	2166.6	1937.0	1565.8	1323.7	889.7	174.7	105.1	93.7	73.1	70.8	58.2
80°	1010.8	810.9	475.1	407.7	279.8	102.8	72.0	64.0	52.5	50.3	41.1
82.5°	183.9	138.2	107.4	103.9	93.7	60.5	42.3	38.8	33.1	32.0	26.3
85°	62.8	60.5	45.7	45.7	46.8	32.0	24.0	22.8	17.1	17.1	11.4
87.5°	1.1	5.7	5.7	8.0	6.9	5.7	2.3	3.4	1.1	3.4	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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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°	110°	115°
681.8	681.8	681.8	681.8	681.8	681.8	681.8	681.8	681.8	681.8	681.8	110°	114.0
672.7	663.6	671.6	663.6	668.1	659.0	664.7	661.3	661.3	657.9	655.6	112.5°	136.0
662.4	651.0	656.7	647.6	652.2	638.4	641.9	636.2	624.7	617.9	608.8	115°	158.0
647.6	630.5	635.0	621.3	624.7	606.5	609.9	599.6	577.9	564.2	550.5	117.5°	181.0
621.3	605.3	606.5	589.3	588.2	569.9	566.5	552.8	520.8	498.0	479.7	120°	204.0
595.0	576.8	574.5	553.9	550.5	528.8	524.2	502.5	455.7	411.2	382.6	122.5°	228.0
567.6	544.8	537.9	516.2	503.7	485.4	472.8	440.9	373.5	315.2	277.5	125°	254.0
536.8	507.1	496.8	471.7	453.4	426.0	407.7	364.3	277.5	214.7	188.5	127.5°	277.0
496.8	464.8	446.6	414.6	390.6	357.5	334.6	278.7	185.0	153.0	149.6	130°	301.0
452.3	414.6	391.7	351.8	322.1	286.7	250.1	188.5	131.3	124.5	129.1	132.5°	325.0
405.5	358.6	328.9	279.8	239.8	198.7	164.5	125.6	107.4	106.2	113.1	135°	348.0
349.5	295.8	253.6	195.3	158.8	126.8	111.9	99.4	91.4	92.5	99.4	137.5°	369.0
287.8	218.1	173.6	122.2	106.2	92.5	90.2	85.7	82.2	84.5	89.1	140°	390.0
214.7	139.3	111.9	87.9	86.8	78.8	81.1	78.8	77.7	78.8	82.2	142.5°	412.0
145.0	92.5	87.9	75.4	77.7	72.0	75.4	74.2	73.1	73.1	75.4	145°	433.0
100.5	76.5	78.8	69.7	73.1	68.5	72.0	70.8	69.7	68.5	69.7	147.5°	452.0
83.4	69.7	73.1	66.2	69.7	65.1	68.5	67.4	66.2	64.0	64.0	150°	469.0
76.5	66.2	69.7	62.8	67.4	61.7	66.2	64.0	61.7	59.4	60.5	152.5°	486.0
74.2	64.0	67.4	60.5	65.1	59.4	62.8	61.7	57.1	56.0	57.1	155°	503.0
72.0	62.8	66.2	59.4	62.8	57.1	60.5	58.2	53.7	52.5	53.7	157.5°	517.0
70.8	60.5	64.0	57.1	60.5	56.0	58.2	56.0	51.4	50.3	50.3	160°	530.0
69.7	59.4	62.8	54.8	58.2	51.4	54.8	52.5	48.0	46.8	46.8	162.5°	540.0
69.7	58.2	60.5	52.5	56.0	49.1	51.4	49.1	46.8	44.5	44.5	165°	550.0
68.5	56.0	59.4	50.3	52.5	46.8	49.1	46.8	43.4	42.3	42.3	167.5°	558.0
68.5	54.8	58.2	49.1	51.4	44.5	46.8	44.5	41.1	40.0	40.0	170°	564.0
72.0	57.1	59.4	50.3	51.4	44.5	45.7	42.3	38.8	38.8	37.7	172.5°	567.0
78.8	64.0	64.0	52.5	52.5	44.5	45.7	41.1	36.5	36.5	36.5	175°	570.0
85.7	70.8	69.7	56.0	54.8	44.5	44.5	38.8	34.3	34.3	34.3	177.5°	574.0
90.2	74.2	72.0	57.1	54.8	43.4	42.3	36.5	32.0	32.0	32.0	180°	576.0
89.1	74.2	70.8	56.0	52.5	41.1	41.1	35.4	30.8	30.8	29.7		
84.5	69.7	66.2	52.5	50.3	38.8	38.8	33.1	28.6	28.6	27.4		
72.0	59.4	56.0	44.5	42.3	34.3	33.1	27.4	25.1	24.0	24.0		
56.0	46.8	43.4	35.4	34.3	27.4	26.3	22.8	20.6	20.6	19.4		
40.0	33.1	30.8	24.0	21.7	18.3	19.4	17.1	16.0	16.0	14.8		
24.0	17.1	17.1	13.7	14.8	11.4	12.6	12.6	11.4	9.1	9.1		
12.6	8.0	10.3	5.7	8.0	3.4	5.7	4.6	4.6	3.4	3.4		
2.3	0.0	1.1	0.0	1.1	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		

'228059
 ISS-AF-600-LED-E1-SL2-7030-ULG

REPORT NUMBER: P228059
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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°	681.8	681.8
136.0	136.0	136.0	136.0	135.5	135.0	134.0	132.0	129.0	126.0	2.5°	648.7	649.9
158.0	158.0	158.0	158.0	157.5	157.0	156.0	154.0	151.0	149.0	5°	604.2	606.5
180.8	180.5	180.2	180.0	179.8	179.5	179.0	177.0	174.0	172.0	7.5°	540.2	543.6
204.0	204.0	204.0	204.0	203.5	203.0	202.0	201.0	198.0	196.0	10°	463.7	466.0
228.0	228.0	228.0	228.0	227.8	227.5	227.0	226.0	223.0	221.0	12.5°	365.5	365.5
253.8	253.5	253.2	253.0	252.8	252.5	252.0	251.0	248.0	247.0	15°	255.8	258.1
277.2	277.5	277.8	278.0	277.5	277.0	276.0	274.0	272.0	270.0	17.5°	179.3	180.5
301.0	301.0	301.0	301.0	300.5	300.0	299.0	298.0	294.0	293.0	20°	150.8	151.9
325.0	325.0	325.0	325.0	324.2	323.5	322.0	321.0	318.0	317.0	22.5°	134.8	135.9
348.0	348.0	348.0	348.0	347.2	346.5	345.0	345.0	341.0	339.0	25°	119.9	121.1
369.0	369.0	369.0	369.0	368.5	368.0	367.0	367.0	364.0	363.0	27.5°	103.9	105.1
390.0	390.0	390.0	390.0	389.8	389.5	389.0	388.0	386.0	385.0	30°	93.7	94.8
412.0	412.0	412.0	412.0	411.5	411.0	410.0	410.0	407.0	408.0	32.5°	84.5	85.7
433.2	433.5	433.8	434.0	433.5	433.0	432.0	431.0	428.0	428.0	35°	76.5	76.5
452.5	453.0	453.5	454.0	453.8	453.5	453.0	452.0	448.0	447.0	37.5°	70.8	70.8
469.5	470.0	470.5	471.0	470.8	470.5	470.0	469.0	465.0	464.0	40°	65.1	65.1
486.2	486.5	486.8	487.0	486.8	486.5	486.0	485.0	482.0	483.0	42.5°	61.7	61.7
503.2	503.5	503.8	504.0	503.8	503.5	503.0	503.0	501.0	502.0	45°	58.2	58.2
517.5	518.0	518.5	519.0	519.0	519.0	519.0	519.0	516.0	517.0	47.5°	54.8	54.8
530.5	531.0	531.5	532.0	532.0	532.0	532.0	532.0	529.0	529.0	50°	51.4	52.5
540.5	541.0	541.5	542.0	541.8	541.5	541.0	541.0	538.0	539.0	52.5°	48.0	48.0
550.8	551.5	552.2	553.0	552.8	552.5	552.0	552.0	548.0	549.0	55°	44.5	44.5
558.5	559.0	559.5	560.0	560.0	560.0	560.0	561.0	558.0	559.0	57.5°	41.1	42.3
564.2	564.5	564.8	565.0	565.2	565.5	566.0	567.0	565.0	566.0	60°	38.8	38.8
567.5	568.0	568.5	569.0	568.8	568.5	568.0	569.0	567.0	569.0	62.5°	36.5	36.5
570.8	571.5	572.2	573.0	572.8	572.5	572.0	572.0	569.0	570.0	65°	35.4	35.4
574.8	575.5	576.2	577.0	577.0	577.0	577.0	578.0	574.0	575.0	67.5°	33.1	33.1
576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	70°	30.8	30.8
										71°	29.7	29.7
										72.5°	27.4	27.4
										75°	24.0	22.8
										77.5°	19.4	19.4
										80°	14.8	13.7
										82.5°	9.1	8.0
										85°	3.4	2.3
										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°	8.0	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
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

