

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: P271563

Luminaire Tested: **ISS-AF-350-LED-E1-SL3-7027-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271563
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-350-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: 3328.4 lumens
Efficiency: N/A
Efficacy: 90.5 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: B0 - U5 - G1

Input Watts (W): 36.79
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

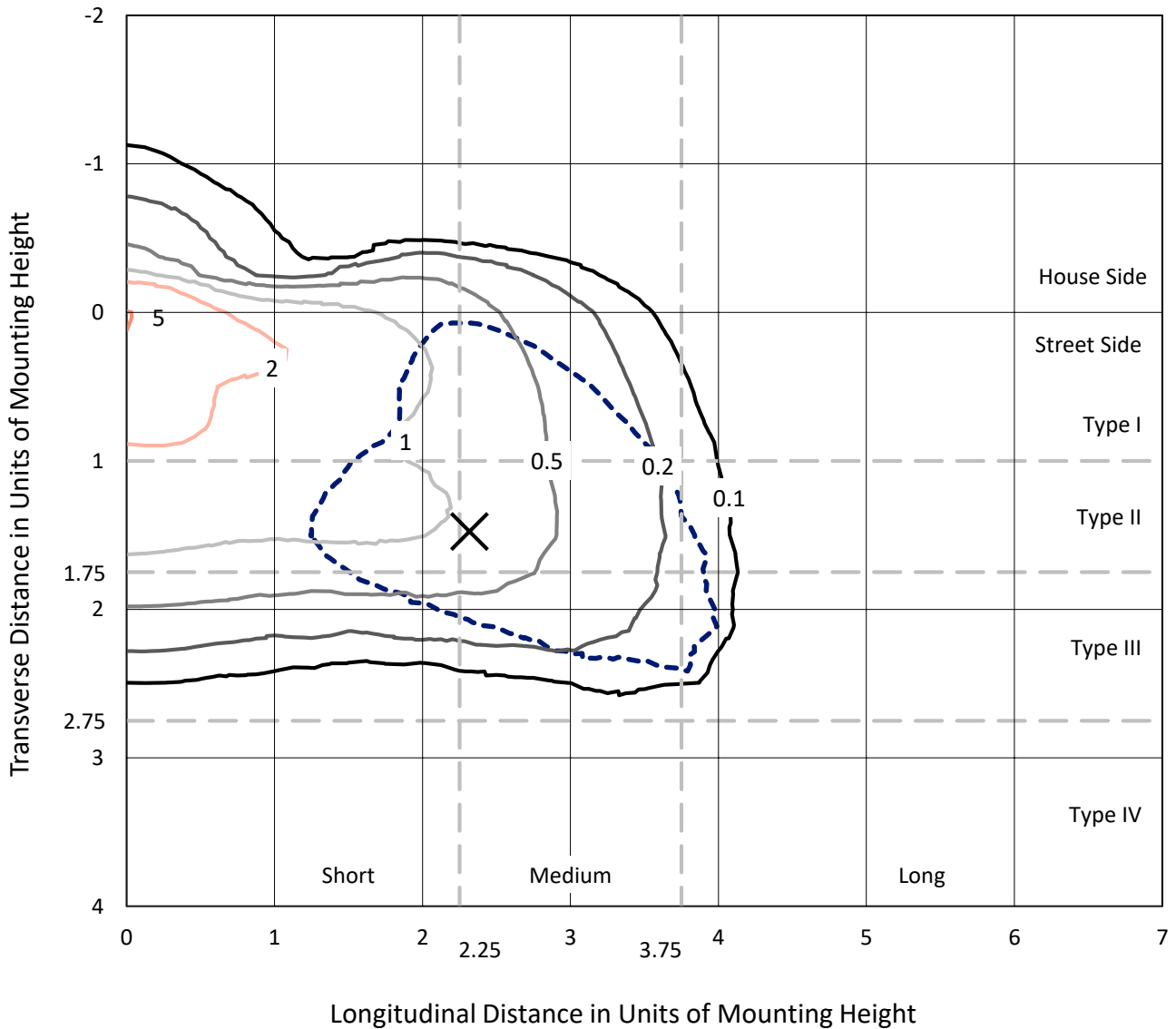


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Iso-Footcandle Lines of Horizontal Illumination

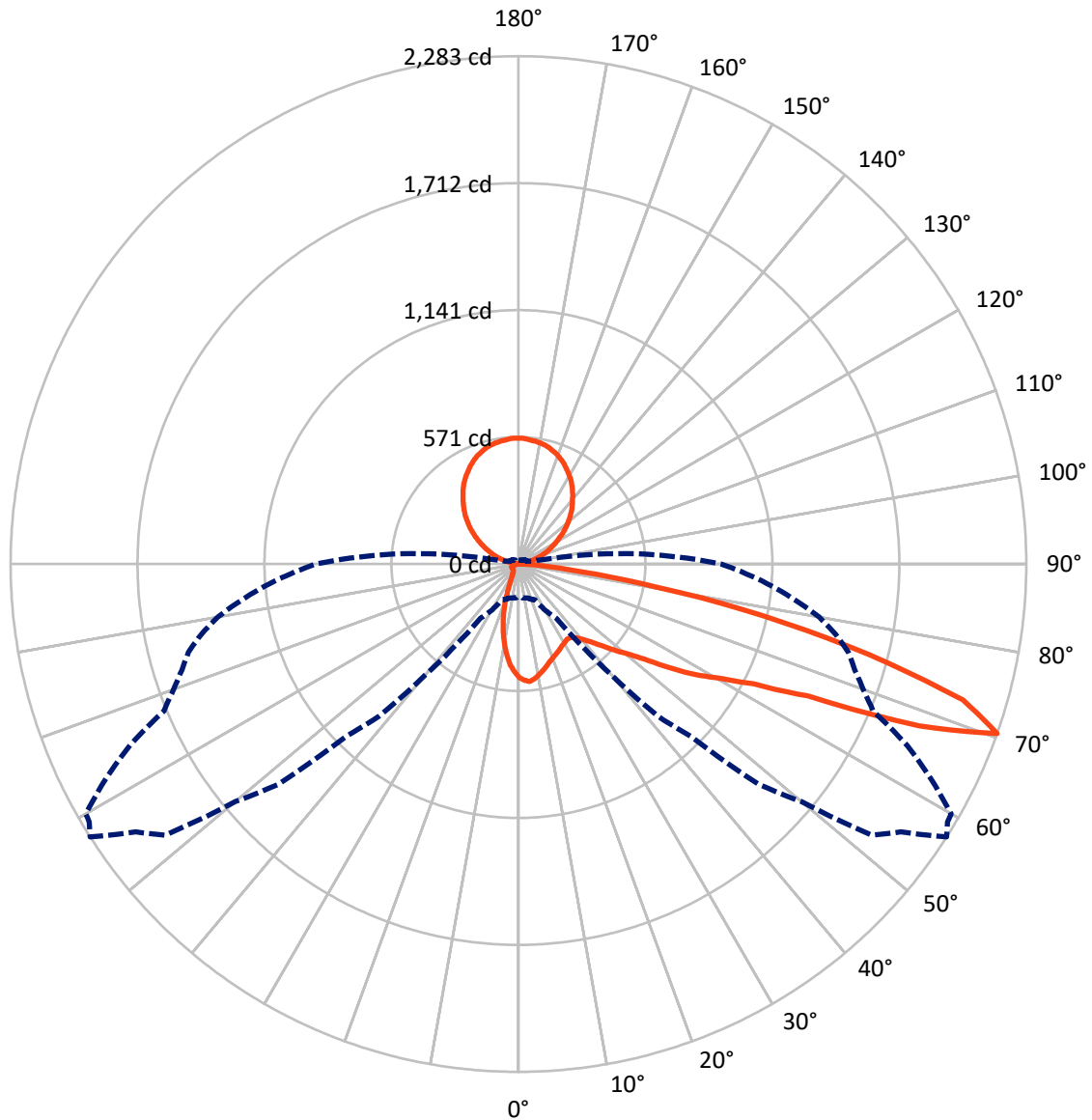
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.1 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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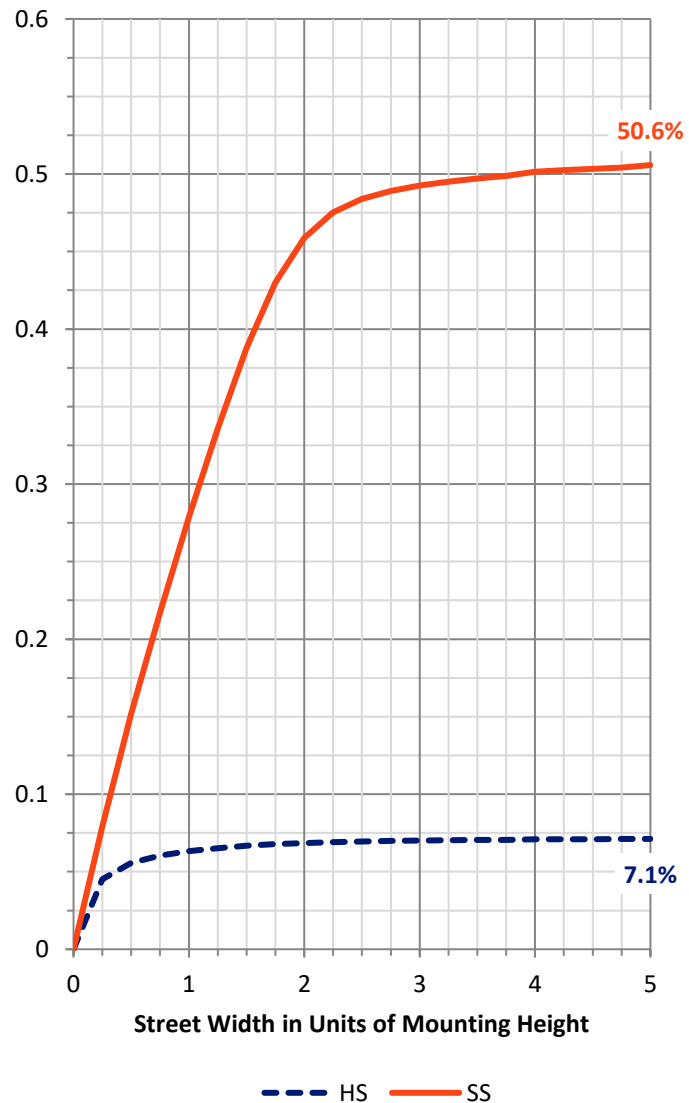
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	238.7	699.9	938.5
	% Fixture	7.2	21.0	28.2
Street Side	Lumens	1690.0	699.9	2389.8
	% Fixture	50.8	21.0	71.8
Total	Lumens	1928.6	1399.8	3328.4
	% Fixture	57.9	42.1	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.1	1.3
10°-20°	95.7	2.9
20°-30°	120.3	3.6
30°-40°	157.2	4.7
40°-50°	235.8	7.1
50°-60°	372.8	11.2
60°-70°	537.3	16.1
70°-80°	332.6	10.0
80°-90°	33.0	1.0
90°-100°	4.7	0.1
100°-110°	67.7	2.0
110°-120°	150.2	4.5
120°-130°	219.7	6.6
130°-140°	260.7	7.8
140°-150°	264.3	7.9
150°-160°	226.8	6.8
160°-170°	152.2	4.6
170°-180°	53.3	1.6
0°-90°	1928.6	57.9
0°-180°	3328.4	100.0



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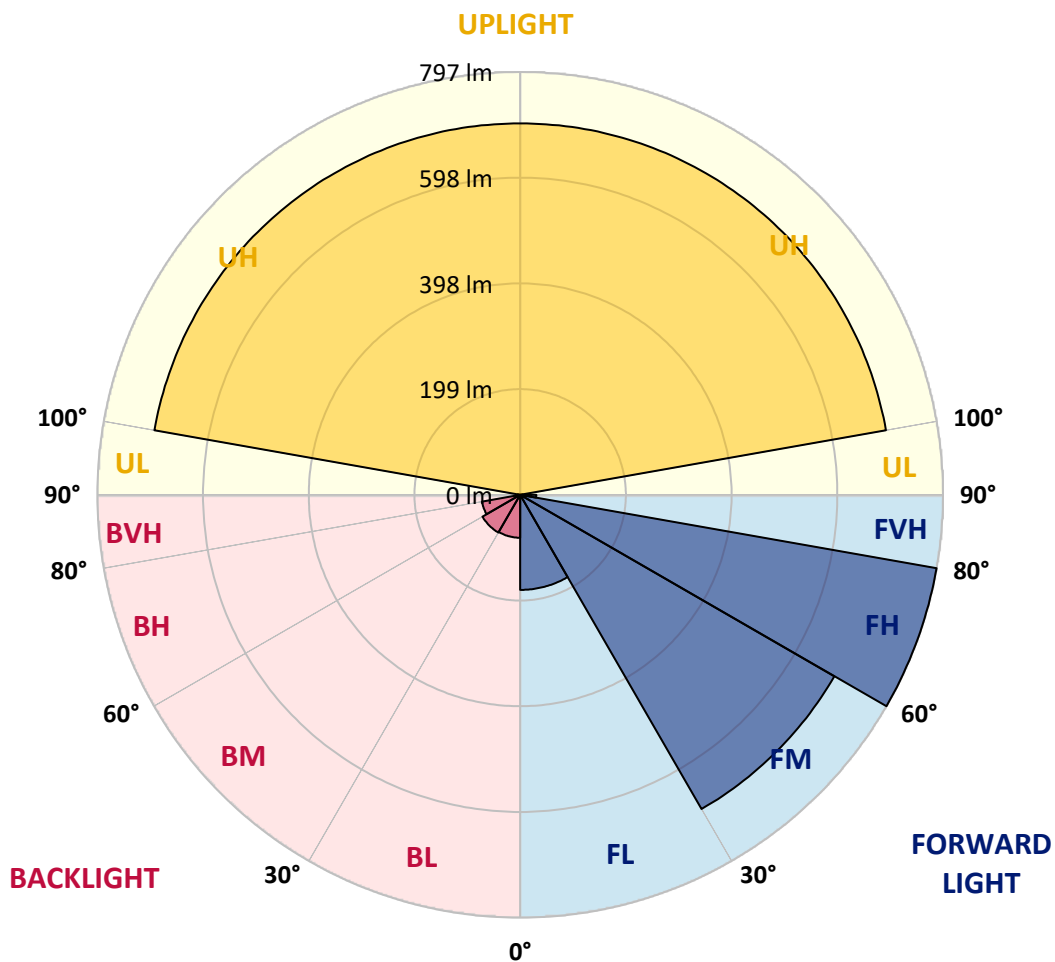
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	179.1	5.4			
FM (30°-60°)	683.7	20.5			
FH (60°-80°)	796.8	23.9			G1/1800
FVH (80°-90°)	30.4	0.9			G1/100
BL (0°-30°)	80.9	2.4	B0/110		
BM (30°-60°)	82.1	2.5	B0/220		
BH (60°-80°)	73.0	2.2	B0/110		G0/110
BVH (80°-90°)	2.6	0.1			G0/10
UL (90°-100°)	4.7	0.1		U1/10	
UH (100°-180°)	699.9	21.0		U4/1000	

BUG Rating: B0-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°	510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.5
2.5°	535.7	535.1	533.8	531.0	529.6	531.0	529.6	527.6	524.8	526.9	525.5
5°	534.4	535.7	533.1	531.0	534.4	535.7	533.1	533.1	530.3	533.1	531.7
7.5°	507.7	508.4	509.1	508.4	517.3	517.3	516.0	517.3	518.1	519.4	520.1
10°	474.2	474.8	476.2	478.3	489.3	490.7	491.4	492.7	494.8	496.1	500.2
12.5°	440.7	442.1	444.8	451.6	463.3	464.6	466.7	468.7	472.1	474.2	481.7
15°	412.6	413.3	416.1	423.6	440.7	444.1	445.5	448.3	455.0	455.0	463.3
17.5°	386.6	388.0	390.0	398.9	416.1	421.6	425.7	427.0	435.9	437.9	447.5
20°	366.8	367.5	368.1	376.4	392.1	400.4	403.7	409.2	416.1	421.6	429.7
22.5°	355.8	356.4	355.1	358.5	372.3	382.5	386.6	392.1	394.9	404.3	409.2
25°	356.4	357.2	353.8	351.8	358.5	369.6	373.0	378.4	377.1	390.8	390.8
27.5°	363.4	364.7	361.3	355.1	355.8	364.7	366.8	368.8	364.7	378.4	375.7
30°	377.1	378.4	374.3	369.6	361.9	367.5	367.5	367.5	360.0	371.6	366.8
32.5°	391.4	392.8	391.4	388.0	378.4	379.7	377.1	375.7	365.4	375.0	367.5
35°	412.6	413.3	414.0	414.0	400.4	403.0	395.5	391.4	381.8	389.3	379.1
37.5°	437.9	437.9	442.8	444.8	429.7	429.7	421.6	416.1	407.1	409.9	399.7
40°	460.5	462.5	473.6	479.6	466.0	460.5	453.6	449.0	442.1	442.1	431.7
42.5°	486.5	490.7	503.6	515.3	507.7	499.5	492.7	487.9	484.5	483.7	472.9
45°	518.7	523.4	537.8	548.8	550.8	544.7	539.3	534.4	531.7	530.3	520.7
47.5°	555.0	559.7	572.7	585.8	595.4	594.0	587.9	583.0	585.1	583.7	577.5
50°	595.4	598.0	606.3	621.3	643.3	647.9	646.6	643.3	647.3	647.3	641.9
52.5°	627.5	629.5	635.7	653.4	689.8	700.7	709.6	716.5	723.2	727.4	723.9
55°	656.9	656.9	657.6	680.2	734.3	752.0	771.8	786.3	795.1	811.6	818.4
57.5°	704.8	701.4	700.7	724.7	787.6	806.0	834.9	855.4	867.7	901.2	900.6
60°	691.2	692.5	717.2	787.6	897.0	913.5	939.4	961.4	984.7	1009.3	1011.3
62.5°	596.0	599.3	636.4	741.8	966.8	1052.5	1132.4	1193.4	1227.6	1249.5	1219.4
65°	417.4	425.7	475.6	604.2	890.2	1022.3	1148.9	1289.9	1398.0	1565.7	1614.3
67.5°	208.0	214.2	222.4	316.8	665.1	850.5	1025.1	1217.3	1361.0	1607.3	1744.9
70°	149.2	151.9	158.1	178.0	297.7	445.5	650.7	925.8	1094.9	1466.4	1660.8
72.5°	115.6	118.4	126.6	154.7	197.1	217.6	258.6	422.9	628.8	1012.7	1275.5
75°	89.7	93.7	105.4	139.6	189.5	201.2	203.3	218.3	249.1	449.6	715.1
77.5°	62.9	63.6	75.3	120.5	184.1	206.7	203.3	203.3	207.3	229.2	305.9
80°	41.7	42.4	49.9	83.5	161.4	188.1	208.0	198.4	199.2	202.6	208.0
82.5°	21.9	23.3	29.5	50.7	94.4	127.3	173.1	180.6	178.0	181.4	180.0
85°	6.2	6.2	10.3	19.1	46.5	49.2	76.6	104.7	106.8	121.1	129.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	2.8	6.2	6.8
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°	510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.5
2.5°	526.9	524.1	523.4	522.2	522.8	520.7	520.1	517.3	517.3	516.0	514.5
5°	530.3	527.6	530.3	525.5	526.1	524.1	520.7	520.7	518.1	516.0	511.9
7.5°	520.7	520.7	521.5	518.7	519.4	518.7	514.5	513.9	509.8	509.8	504.9
10°	502.9	502.9	505.7	503.6	504.3	503.6	501.5	500.9	499.5	499.5	492.0
12.5°	482.4	486.5	490.7	488.6	488.6	489.9	489.9	490.7	489.9	489.3	483.1
15°	465.3	471.5	475.6	474.8	475.6	479.0	480.3	481.0	483.1	482.4	476.9
17.5°	449.6	456.4	459.8	462.5	464.6	467.4	471.5	473.6	476.2	475.6	470.2
20°	435.2	441.3	447.5	450.9	451.6	457.1	461.9	468.1	469.5	470.8	464.0
22.5°	420.1	425.7	437.9	435.9	440.7	450.9	453.6	462.5	462.5	467.4	457.8
25°	407.1	407.8	427.0	423.6	427.6	446.2	448.3	464.0	459.8	466.7	455.7
27.5°	394.2	393.5	416.7	412.6	417.4	442.8	444.1	466.0	461.9	470.2	455.7
30°	384.6	382.5	409.2	401.0	407.8	439.3	440.0	468.1	464.6	475.6	460.5
32.5°	382.5	379.1	402.4	396.2	403.0	435.9	440.0	475.6	471.5	485.2	466.0
35°	391.4	385.9	405.8	400.4	405.8	437.3	443.4	487.2	482.4	498.2	479.0
37.5°	407.8	403.7	420.1	414.7	418.8	446.9	452.3	502.2	501.5	520.7	498.8
40°	436.6	432.4	445.5	437.9	441.3	467.4	470.2	523.4	525.5	548.8	526.9
42.5°	475.6	468.7	479.0	470.2	474.8	498.2	495.4	549.4	555.6	587.9	562.5
45°	525.5	516.6	522.8	513.2	516.6	536.5	528.9	584.3	590.5	630.3	607.6
47.5°	580.2	569.3	576.8	564.6	566.7	587.9	574.1	626.1	635.7	685.7	663.8
50°	645.9	631.6	634.3	622.6	624.1	645.3	630.3	677.4	689.1	744.4	725.3
52.5°	730.1	709.6	709.6	693.9	694.5	715.8	697.3	738.4	751.3	807.5	794.4
55°	840.9	824.6	821.1	804.7	799.2	803.4	777.3	806.0	820.4	873.2	862.9
57.5°	929.3	927.2	937.4	914.1	908.7	910.2	877.3	879.4	895.7	936.8	940.2
60°	1036.6	1040.1	1041.5	1022.3	1020.3	1001.1	967.6	962.1	982.7	1010.6	1021.6
62.5°	1207.7	1204.4	1187.2	1172.8	1159.8	1108.5	1090.0	1059.9	1088.7	1104.5	1127.0
65°	1575.2	1539.7	1430.1	1439.7	1405.5	1294.0	1278.2	1217.3	1262.5	1263.2	1305.6
67.5°	1939.2	2009.0	1942.0	1943.3	1866.0	1664.2	1615.6	1494.5	1519.8	1490.4	1512.3
70°	2001.5	2099.4	2282.8	2250.0	2245.9	2090.4	1927.0	1725.0	1649.1	1586.1	1535.6
72.5°	1722.3	1820.1	2089.1	2014.4	2042.6	2089.7	1919.4	1768.1	1598.4	1518.5	1408.9
75°	1211.8	1352.8	1625.8	1586.9	1607.3	1685.4	1539.0	1521.1	1324.8	1271.4	1103.1
77.5°	649.4	823.8	1129.8	1081.9	1090.7	1135.2	982.7	951.1	761.7	708.9	518.1
80°	292.2	405.0	634.3	580.9	565.2	539.9	397.6	313.4	191.6	127.3	88.2
82.5°	193.7	201.2	281.2	243.6	227.9	188.1	121.8	71.9	56.9	47.9	45.8
85°	130.1	119.0	118.4	104.7	97.2	76.6	56.9	35.7	29.5	24.6	22.5
87.5°	7.5	4.9	6.8	7.5	5.5	4.9	3.4	0.0	0.7	0.0	0.7
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°	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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CATALOG NUMBER: ISS-AF-350-LED-E1-SL3-7027-ULG

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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CATALOG NUMBER: ISS-AF-350-LED-E1-SL3-7027-ULG

CANDELA DISTRIBUTION (continued):

	77.5°	80°	85°	90°	95°	100°	102.5°	105°	107.5°	110°	112.5°
0°	510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.5
2.5°	511.1	511.1	510.5	505.7	502.9	501.5	496.9	496.1	494.1	493.3	493.3
5°	510.5	507.7	504.3	497.5	490.7	484.5	482.4	477.6	474.2	470.2	470.2
7.5°	500.9	498.2	490.7	480.3	471.5	462.5	457.8	450.9	445.5	440.0	438.6
10°	489.9	485.8	475.6	461.9	450.2	434.5	428.3	419.5	413.3	405.0	396.9
12.5°	478.3	475.6	463.3	447.5	429.7	409.9	400.4	388.0	379.7	370.2	357.9
15°	473.6	468.1	452.3	432.4	410.5	386.6	373.0	360.0	347.6	336.7	320.2
17.5°	467.4	460.5	442.8	419.5	392.1	363.4	345.6	331.1	314.8	303.2	284.7
20°	460.5	450.2	431.1	403.0	372.3	338.0	315.5	301.1	279.2	267.5	245.7
22.5°	455.0	442.1	418.8	387.3	350.4	312.0	285.3	269.0	244.2	230.7	203.3
25°	453.6	437.9	409.9	374.3	331.8	286.6	254.6	238.1	207.3	191.6	159.4
27.5°	454.4	435.9	404.3	363.4	315.5	264.1	225.8	206.7	167.6	151.3	114.3
30°	455.0	436.6	398.9	353.8	300.4	240.8	195.7	173.1	126.6	112.2	79.4
32.5°	461.9	439.3	397.6	346.3	286.6	217.6	161.4	140.9	89.7	81.5	58.9
35°	470.2	448.3	400.4	344.9	276.5	194.3	126.6	105.4	64.3	62.3	47.9
37.5°	487.2	461.9	411.2	348.4	270.3	170.4	94.4	80.8	50.7	52.0	41.7
40°	513.2	485.2	429.0	358.5	269.6	146.4	69.8	62.9	43.7	45.2	38.3
42.5°	548.1	517.3	456.4	380.4	273.1	123.9	56.1	54.1	40.3	41.7	36.9
45°	594.0	562.5	494.8	408.5	282.6	105.4	49.2	49.2	39.0	40.3	36.3
47.5°	652.1	617.2	541.9	446.2	297.7	95.1	46.5	47.3	38.3	40.3	36.3
50°	717.7	679.5	602.1	494.8	321.0	92.3	47.3	47.3	39.0	40.3	36.3
52.5°	786.3	750.6	667.2	550.1	353.0	98.5	48.6	47.9	39.0	40.3	35.7
55°	856.1	823.8	739.0	615.2	397.6	120.5	52.0	49.9	39.0	40.3	36.3
57.5°	925.8	903.2	814.3	685.0	452.9	160.1	65.7	58.2	43.1	43.7	36.9
60°	1004.6	988.0	899.1	776.7	531.7	221.7	96.5	73.2	51.3	48.6	39.6
62.5°	1106.5	1102.4	1032.0	908.7	658.3	310.6	136.8	88.9	55.4	50.7	42.4
65°	1286.5	1297.4	1230.3	1063.3	742.4	312.7	133.5	78.1	52.0	47.9	41.7
67.5°	1467.1	1435.0	1262.5	1040.1	669.9	208.0	84.9	60.8	45.8	44.5	39.0
70°	1460.3	1372.7	1144.8	909.4	528.9	112.8	61.5	50.7	41.1	41.1	36.9
72.5°	1309.7	1179.7	936.1	719.8	353.0	71.9	52.0	44.5	37.5	36.9	34.2
75°	986.0	832.8	601.4	414.7	157.5	46.5	39.6	36.3	32.9	32.9	30.1
77.5°	464.0	261.4	145.1	96.5	52.7	31.5	27.4	27.4	26.7	27.4	24.6
80°	62.9	56.9	48.6	42.4	32.2	21.9	19.9	20.5	19.9	20.5	18.4
82.5°	38.3	34.2	28.0	26.7	19.9	15.0	14.4	15.0	13.7	14.4	11.0
85°	18.4	16.3	12.9	12.3	10.3	8.9	7.5	8.9	6.8	7.5	4.9
87.5°	0.0	1.3	0.7	1.3	1.3	1.3	0.0	1.3	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°	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°
510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.5	112.5°	133.5
489.9	487.9	487.2	484.5	483.7	481.0	480.3	477.6	472.9	470.8	467.4	115°	155.0
464.0	460.5	457.8	456.4	450.9	448.3	444.1	438.6	428.3	423.6	415.4	117.5°	177.7
427.6	427.0	418.8	416.1	409.2	404.3	398.3	389.3	374.3	365.4	352.5	120°	200.2
388.0	385.2	375.7	370.2	361.3	354.4	346.3	333.2	309.9	291.5	271.6	122.5°	223.8
351.1	342.8	331.8	323.7	312.7	303.2	293.6	273.7	236.7	206.7	179.3	125°	249.3
312.7	300.4	288.7	275.2	263.5	248.4	237.4	211.4	162.9	125.9	108.9	127.5°	271.8
273.7	256.6	243.6	225.1	212.1	191.6	180.0	148.5	106.8	90.3	84.9	130°	295.5
232.6	210.0	195.7	173.1	160.1	134.0	125.2	102.7	82.1	76.0	74.6	132.5°	319.0
188.8	161.4	145.7	121.1	112.2	96.5	89.7	78.7	69.1	66.4	67.7	135°	341.5
143.0	113.5	103.3	85.5	82.1	73.9	71.1	65.7	60.8	60.8	62.9	137.5°	362.2
102.0	79.4	76.6	65.7	64.9	60.8	58.9	56.1	54.8	56.1	58.9	140°	382.8
74.6	60.3	60.3	54.1	54.1	51.3	50.7	49.2	49.2	52.0	54.8	142.5°	404.3
58.9	49.2	50.7	45.8	46.5	44.5	45.2	44.5	45.2	47.3	49.2	145°	425.0
49.2	42.4	44.5	40.3	41.7	39.6	41.1	41.1	42.4	43.1	43.7	147.5°	443.7
43.7	39.0	40.3	37.5	39.0	36.9	39.0	39.0	39.6	39.6	39.6	150°	460.3
40.3	36.3	38.3	35.7	37.5	35.7	37.5	37.5	36.9	36.3	36.9	152.5°	477.0
38.3	35.7	37.5	34.9	36.9	34.9	36.3	35.7	34.2	34.2	34.2	155°	493.7
37.5	34.9	36.3	34.2	35.7	33.6	34.9	34.2	32.2	31.5	32.9	157.5°	507.5
37.5	34.2	36.3	33.6	34.9	32.9	34.2	32.2	30.1	30.1	32.2	160°	520.2
37.5	34.2	36.3	33.6	34.9	32.2	32.9	30.8	28.0	28.7	31.5	162.5°	530.0
38.3	35.7	36.9	34.2	34.9	30.8	32.2	29.5	27.4	28.0	30.1	165°	539.8
39.0	35.7	36.9	32.9	33.6	30.8	30.8	29.5	27.4	27.4	29.5	167.5°	547.7
39.0	34.9	35.7	32.2	32.9	29.5	30.1	28.7	26.7	26.1	27.4	170°	553.5
40.3	36.3	36.3	31.5	32.2	28.7	29.5	28.0	26.1	24.6	25.3	172.5°	556.5
41.7	36.9	37.5	32.9	32.9	29.5	30.1	27.4	24.6	23.3	24.0	175°	559.5
41.7	36.9	37.5	33.6	33.6	30.1	30.1	27.4	23.3	21.9	21.9	177.5°	563.3
39.6	36.3	36.9	33.6	33.6	30.1	30.1	26.7	22.5	20.5	19.9	180°	565.3
38.3	34.9	35.7	31.5	32.2	28.7	28.7	25.3	21.2	19.1	17.8		
34.9	32.2	32.2	29.5	28.7	25.3	25.3	23.3	19.9	17.1	15.7		
30.1	27.4	26.7	24.0	24.0	21.9	21.2	19.1	16.3	14.4	13.7		
24.6	21.2	21.2	17.8	17.8	15.7	16.3	14.4	12.3	11.7	11.0		
17.8	14.4	14.4	11.7	11.7	9.6	10.3	9.6	8.9	8.9	8.3		
11.0	7.5	8.3	6.2	7.5	5.5	6.2	5.5	5.5	4.9	4.9		
5.5	2.8	4.1	2.1	3.4	0.7	2.1	1.3	1.3	1.3	1.3		
0.7	0.0	0.7	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		

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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°	510.5	510.5
155.0	155.0	155.0	155.0	154.6	154.1	153.1	151.2	148.2	146.2	2.5°	464.0	466.0
177.4	177.1	176.9	176.7	176.4	176.2	175.7	173.7	170.8	168.8	5°	412.6	413.3
200.2	200.2	200.2	200.2	199.7	199.2	198.3	197.3	194.3	192.3	7.5°	350.4	349.0
223.8	223.8	223.8	223.8	223.6	223.3	222.8	221.8	218.8	216.9	10°	267.5	264.1
249.1	248.8	248.5	248.3	248.1	247.8	247.3	246.3	243.4	242.5	12.5°	172.5	167.6
272.1	272.4	272.6	272.8	272.4	271.8	270.9	269.0	267.0	265.0	15°	104.0	102.7
295.5	295.5	295.5	295.5	294.9	294.5	293.5	292.5	288.5	287.5	17.5°	83.5	83.5
319.0	319.0	319.0	319.0	318.2	317.6	316.0	315.0	312.1	311.2	20°	74.6	74.6
341.5	341.5	341.5	341.5	340.7	340.1	338.6	338.6	334.7	332.7	22.5°	69.1	69.1
362.2	362.2	362.2	362.2	361.7	361.2	360.2	360.2	357.3	356.3	25°	64.9	65.7
382.8	382.8	382.8	382.8	382.6	382.3	381.8	380.8	378.8	377.8	27.5°	61.5	61.5
404.3	404.3	404.3	404.3	403.9	403.4	402.4	402.4	399.5	400.5	30°	57.5	57.5
425.2	425.4	425.8	426.0	425.4	425.0	424.0	423.0	420.0	420.0	32.5°	50.7	50.7
444.1	444.6	445.1	445.6	445.4	445.1	444.6	443.7	439.7	438.7	35°	45.2	44.5
460.8	461.3	461.8	462.3	462.1	461.8	461.3	460.3	456.4	455.4	37.5°	40.3	41.1
477.2	477.4	477.8	478.0	477.8	477.4	477.0	476.0	473.0	474.0	40°	36.9	37.5
493.9	494.2	494.4	494.7	494.4	494.2	493.7	493.7	491.7	492.7	42.5°	35.7	35.7
507.9	508.4	508.9	509.4	509.4	509.4	509.4	509.4	506.5	507.5	45°	34.2	34.2
520.7	521.2	521.6	522.2	522.2	522.2	522.2	522.2	519.2	519.2	47.5°	34.2	34.2
530.4	531.0	531.4	532.0	531.8	531.4	531.0	531.0	528.0	529.0	50°	33.6	34.2
540.6	541.3	541.9	542.8	542.6	542.3	541.8	541.8	537.8	538.8	52.5°	32.9	32.9
548.1	548.7	549.1	549.7	549.7	549.7	549.7	550.6	547.7	548.7	55°	30.8	31.5
553.7	554.1	554.3	554.5	554.7	555.1	555.5	556.5	554.5	555.5	57.5°	28.7	29.5
556.9	557.5	557.9	558.5	558.3	557.9	557.5	558.5	556.5	558.5	60°	26.7	26.7
560.3	560.9	561.6	562.4	562.2	561.9	561.4	561.4	558.5	559.5	62.5°	24.0	24.0
564.1	564.9	565.6	566.3	566.3	566.3	566.3	567.3	563.3	564.3	65°	21.9	21.9
565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	67.5°	19.1	19.1
										70°	17.1	17.1
										72.5°	15.0	15.0
										75°	12.9	12.9
										77.5°	11.0	10.3
										80°	8.3	8.3
										82.5°	4.9	4.9
										85°	1.3	1.3
										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°	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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CANDELA DISTRIBUTION (continued):

	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
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

