

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: P226346

Luminaire Tested: **ISW-AF-350-LED-E1-T2-8030-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P226346
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35937)-DOWNLIGHT AND
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: ISW-AF-350-LED-E1-T2-8030-ULG
Description: IMPACT ELITE LED WEDGE LUMINAIRE WITH UPLIGHT
LIGHT SQUARE WITH ACCULED OPTICS-TYPE II, 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: 3775.4 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 0.54')
IES Classification: Type II - Medium - Non-Cutoff
BUG Rating: B1 - 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

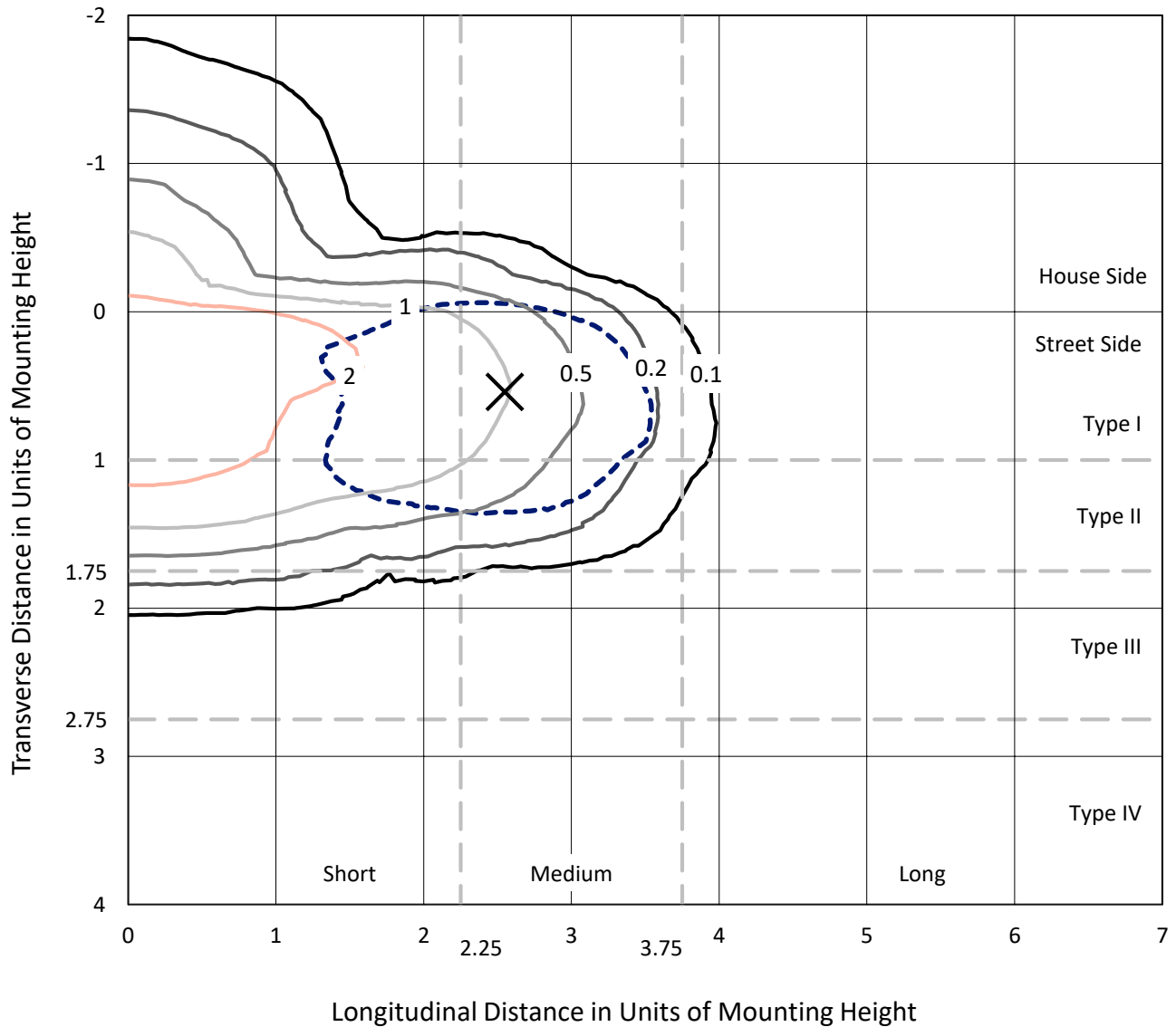


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

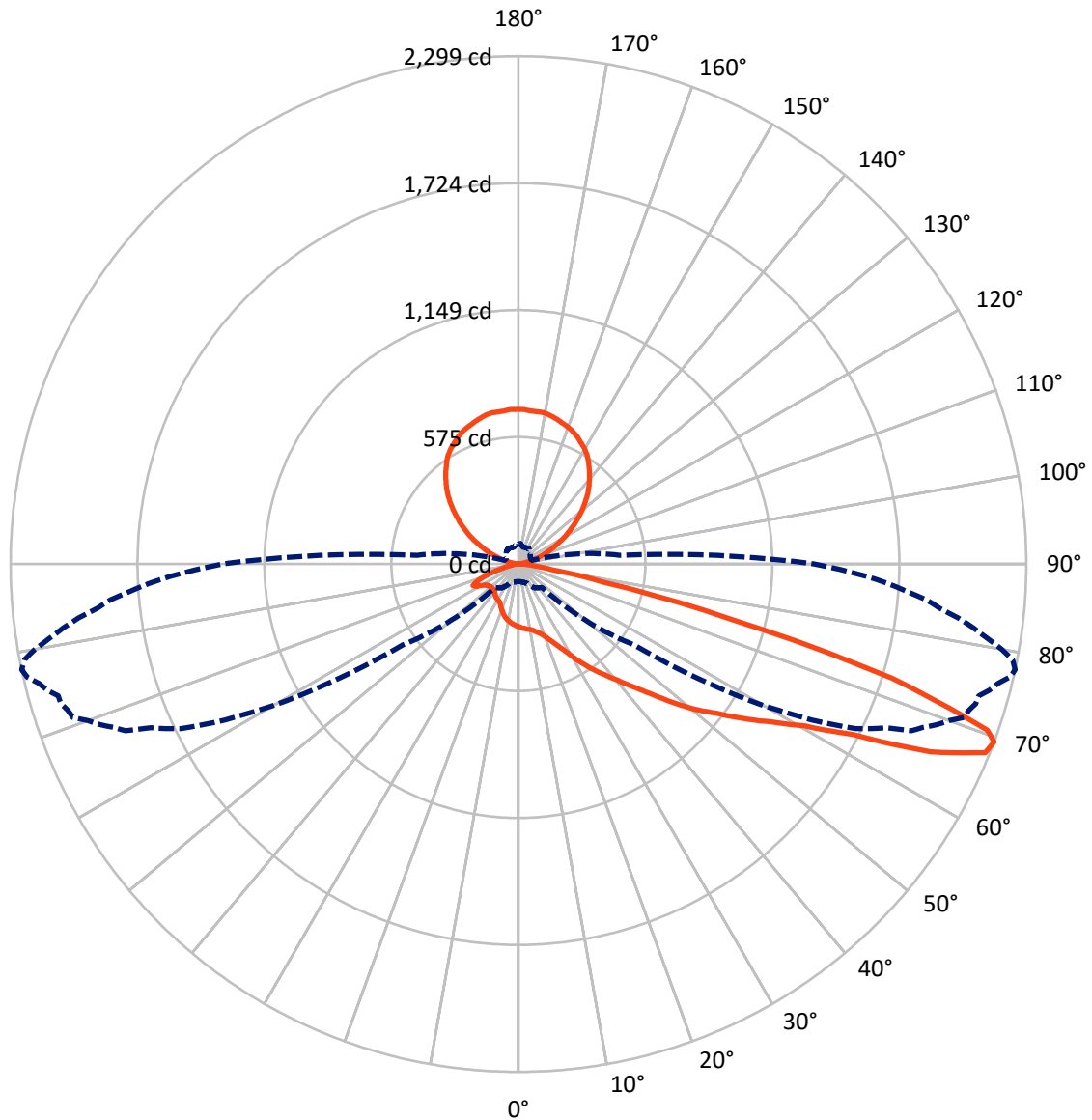


Based on 10 foot mounting height. Maximum calculated value = 3.6 fc
 Type II - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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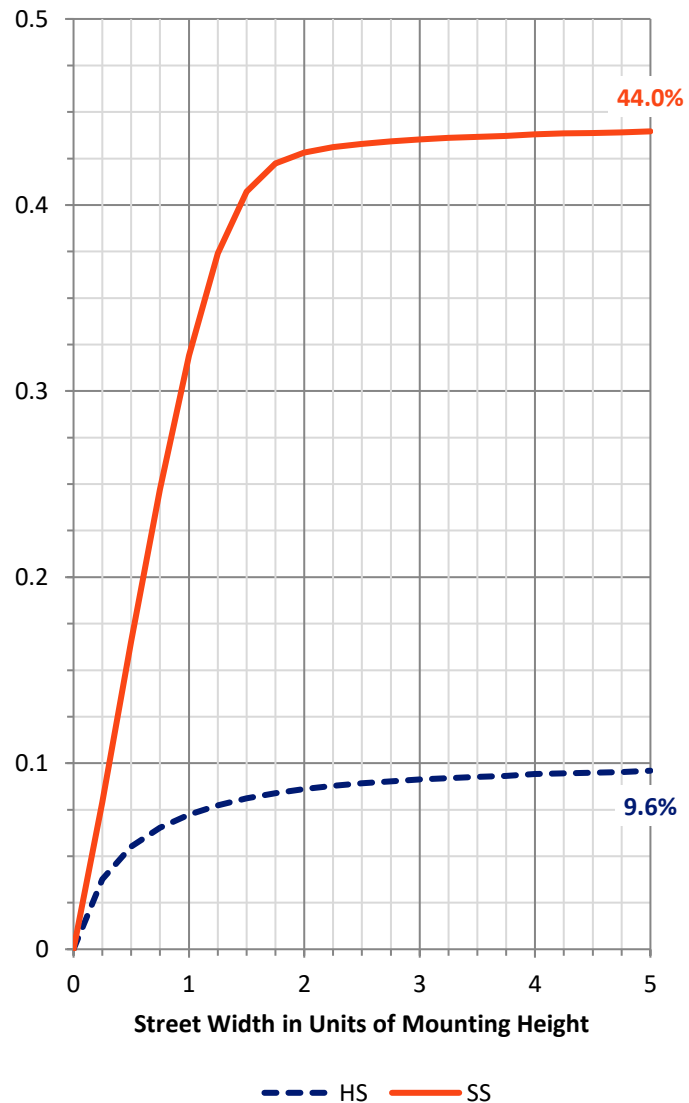
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	373.4	868.3	1241.6
	% Fixture	9.9	23.0	32.9
Street Side	Lumens	1665.9	867.9	2533.8
	% Fixture	44.1	23.0	67.1
Total	Lumens	2039.3	1736.2	3775.4
	% Fixture	54.0	46.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.3	0.7
10°-20°	79.5	2.1
20°-30°	142.6	3.8
30°-40°	232.7	6.2
40°-50°	344.2	9.1
50°-60°	449.4	11.9
60°-70°	502.6	13.3
70°-80°	225.7	6.0
80°-90°	36.2	1.0
90°-100°	10.3	0.3
100°-110°	57.4	1.5
110°-120°	166.1	4.4
120°-130°	273.2	7.2
130°-140°	336.8	8.9
140°-150°	344.6	9.1
150°-160°	290.3	7.7
160°-170°	191.2	5.1
170°-180°	66.3	1.8
0°-90°	2039.3	54.0
0°-180°	3775.4	100.0



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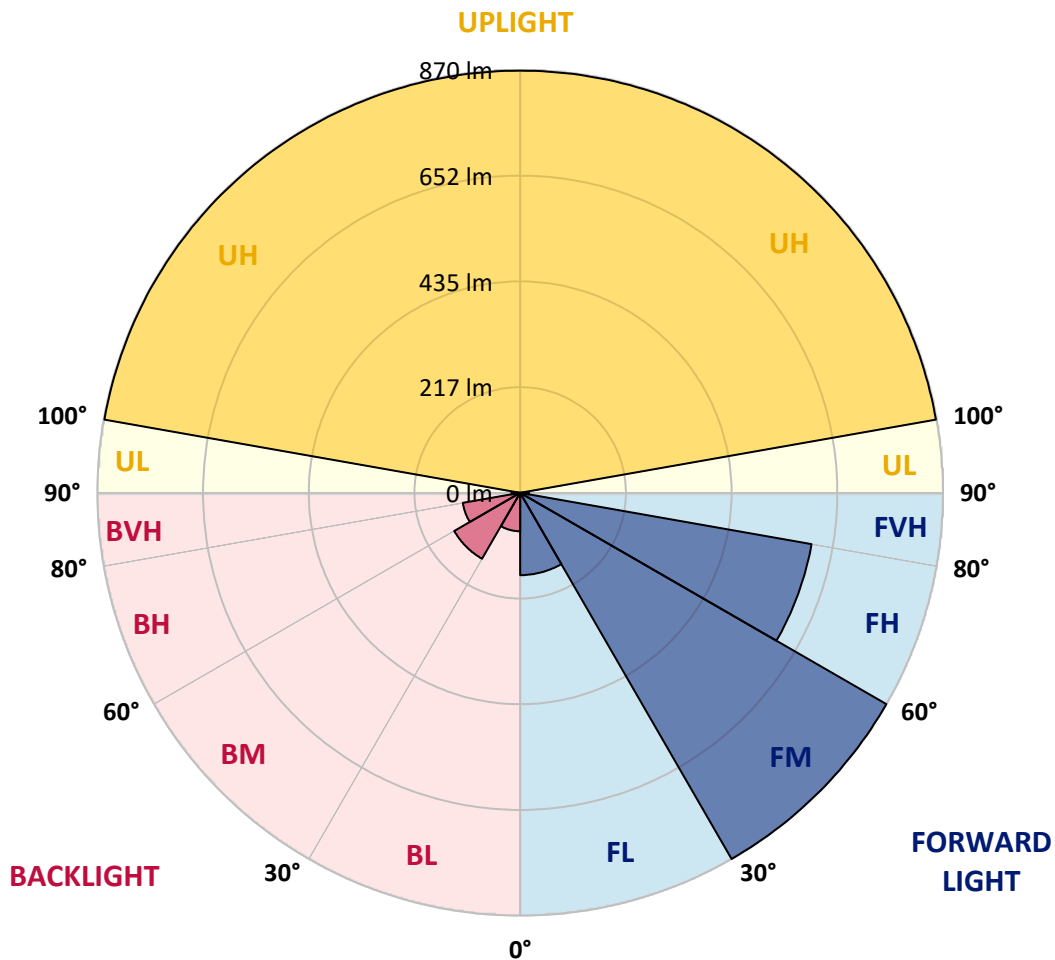
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	169.3	4.5			
FM (30°-60°)	869.7	23.0			
FH (60°-80°)	608.5	16.1			G0/660
FVH (80°-90°)	18.5	0.5			G1/100
BL (0°-30°)	79.1	2.1	B0/110		
BM (30°-60°)	156.7	4.1	B0/220		
BH (60°-80°)	119.8	3.2	B1/500		G1/500
BVH (80°-90°)	17.7	0.5			G1/100
UL (90°-100°)	10.3	0.3		U2/50	
UH (100°-180°)	868.3	23.0		U4/1000	

BUG Rating: B1-U5-G1

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	283.6	283.6	283.6	283.6	283.6	283.6	283.6	283.6	283.6	283.6	283.6
2.5°	303.7	303.7	302.8	302.3	301.4	299.0	295.4	294.9	294.6	294.0	293.4
5°	325.9	323.6	324.2	322.7	319.4	315.3	308.8	305.5	303.7	303.4	302.3
7.5°	344.0	344.3	343.4	340.4	336.0	331.0	322.1	317.1	315.6	314.7	312.6
10°	357.0	356.1	355.5	354.9	351.4	347.3	336.0	329.8	328.6	326.2	323.9
12.5°	366.5	366.5	366.5	365.9	363.8	360.6	351.7	345.5	344.0	340.7	338.7
15°	376.9	375.7	374.5	373.6	373.9	373.9	367.4	362.6	360.3	358.5	354.4
17.5°	399.1	396.4	393.7	390.2	384.6	383.1	382.8	382.5	379.2	378.9	374.8
20°	418.0	415.6	413.3	409.7	401.7	393.1	397.6	401.7	401.1	401.4	399.4
22.5°	441.4	439.6	434.9	430.7	420.4	410.0	410.6	419.5	420.7	421.9	422.4
25°	473.4	472.5	464.8	456.8	444.9	435.2	426.0	437.0	439.3	442.0	447.3
27.5°	505.6	503.6	495.3	488.2	473.4	463.0	450.3	456.2	459.7	464.8	473.1
30°	547.4	541.7	538.8	522.8	509.2	494.1	483.1	484.9	484.3	490.2	503.0
32.5°	607.8	598.9	584.1	568.1	552.1	532.0	522.8	522.5	521.0	527.8	534.9
35°	640.3	638.3	629.1	613.1	595.6	576.7	570.8	565.1	566.0	569.6	572.2
37.5°	675.6	673.8	666.7	657.8	644.5	654.8	622.0	613.7	609.8	608.1	608.9
40°	691.0	692.4	696.3	697.8	690.1	739.8	675.0	647.7	646.5	643.9	641.2
42.5°	694.2	698.1	705.8	722.6	730.0	838.4	718.8	685.9	681.2	679.1	679.4
45°	706.0	712.0	713.5	728.8	763.8	843.4	768.2	719.7	716.1	715.8	714.0
47.5°	734.8	742.8	742.8	749.6	782.7	853.2	785.1	753.4	751.0	749.9	754.6
50°	738.9	749.6	770.9	792.8	816.8	861.2	804.3	790.1	791.0	793.7	807.6
52.5°	668.7	679.4	735.7	800.2	878.3	883.1	833.3	839.0	844.9	857.9	883.4
55°	573.4	581.1	647.7	751.0	880.7	966.3	906.2	921.9	934.3	938.1	978.1
57.5°	451.5	462.1	529.9	664.0	822.4	990.0	1073.7	1080.8	1066.9	1079.6	1094.2
60°	244.5	243.3	337.8	480.2	699.8	946.1	1235.4	1357.3	1360.3	1379.8	1356.4
62.5°	136.8	136.8	164.0	246.6	450.3	800.5	1312.9	1596.5	1633.5	1664.6	1733.0
65°	103.3	104.2	114.0	148.6	252.8	505.3	1256.1	1678.2	1749.3	1820.6	1940.5
67.5°	85.9	85.9	93.0	110.7	158.1	229.4	924.8	1514.2	1603.0	1688.3	1854.1
69°	79.6	79.9	85.3	97.4	132.3	149.2	638.8	1283.9	1385.5	1503.6	1699.0
70°	76.7	75.8	80.8	90.9	119.9	117.8	468.0	1116.4	1195.1	1301.1	1525.8
72.5°	68.1	67.2	69.9	77.6	94.4	84.1	190.9	600.7	719.4	838.1	1017.2
75°	60.7	59.8	61.9	65.4	73.4	64.2	95.9	251.6	304.6	393.7	543.2
77.5°	53.6	51.8	53.6	56.0	57.7	48.0	65.1	116.3	142.7	175.3	247.5
80°	48.6	46.8	48.8	47.7	45.3	37.0	43.2	67.8	75.2	90.0	117.8
82.5°	34.6	34.3	46.5	48.0	36.1	26.9	30.8	43.5	48.6	51.2	62.2
85°	21.3	20.4	26.9	34.3	36.7	16.9	19.8	25.8	26.9	29.3	34.6
87.5°	11.0	11.2	14.5	17.8	24.0	10.1	11.8	15.1	15.1	15.1	17.2
90°	7.7	8.3	11.4	14.2	13.0	9.7	11.4	11.6	12.3	12.0	12.9
92.5°	4.0	4.0	5.0	6.0	6.0	6.0	7.0	7.0	7.0	7.0	7.0
95°	5.0	5.0	6.0	7.0	7.0	7.0	7.0	7.5	7.6	7.7	7.9
97.5°	7.0	7.0	8.0	8.0	9.0	9.0	12.0	11.0	10.8	10.6	10.2
100°	8.0	8.0	9.0	10.0	12.0	21.0	29.0	27.5	27.2	26.9	26.3
102.5°	11.0	11.0	13.0	18.0	27.0	40.0	50.0	48.5	48.2	47.9	47.3
105°	21.0	22.0	27.0	36.0	48.0	63.0	72.0	71.0	70.8	70.6	70.2
107.5°	41.0	42.0	49.0	58.0	73.0	88.0	95.0	94.5	94.4	94.3	94.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
110°	66.0	68.0	74.0	87.0	102.0	114.0	120.0	120.5	120.6	120.7	120.9
112.5°	99.0	99.0	106.0	121.0	134.0	143.0	148.0	149.0	149.2	149.4	149.8
115°	140.0	139.0	147.0	159.0	168.0	174.0	179.0	180.5	180.8	181.1	181.7
117.5°	184.0	184.0	189.0	197.0	202.0	205.0	211.0	213.0	213.4	213.8	214.6
120°	225.0	223.0	226.0	233.0	237.0	243.0	246.0	248.0	248.4	248.8	249.6
122.5°	263.0	260.0	261.0	267.0	271.0	277.0	279.0	281.0	281.4	281.8	282.6
125°	298.0	294.0	296.0	299.0	305.0	310.0	313.0	314.0	314.2	314.4	314.8
127.5°	330.0	329.0	329.0	333.0	339.0	340.0	345.0	345.5	345.6	345.7	345.9
130°	363.0	361.0	362.0	366.0	370.0	372.0	377.0	379.0	379.4	379.8	380.6
132.5°	396.0	394.0	393.0	401.0	404.0	405.0	411.0	413.5	414.0	414.5	415.5
135°	429.0	426.0	426.0	432.0	435.0	437.0	443.0	445.5	446.0	446.5	447.5
137.5°	460.0	457.0	459.0	460.0	464.0	468.0	473.0	474.0	474.2	474.4	474.8
140°	488.0	485.0	487.0	489.0	491.0	497.0	500.0	501.0	501.2	501.4	501.8
142.5°	518.0	515.0	517.0	518.0	521.0	525.0	527.0	530.0	530.6	531.2	532.4
145°	550.0	546.0	544.0	547.0	550.0	551.0	556.0	559.0	559.6	560.2	561.4
147.5°	575.0	572.0	571.0	574.0	574.0	575.0	580.0	582.5	583.0	583.5	584.5
150°	595.0	592.0	593.0	593.0	593.0	593.0	597.0	598.5	598.8	599.1	599.7
152.5°	611.0	608.0	608.0	609.0	610.0	610.0	611.0	612.5	612.8	613.1	613.7
155°	629.0	625.0	625.0	627.0	630.0	628.0	626.0	628.5	629.0	629.5	630.5
157.5°	646.0	643.0	643.0	644.0	646.0	645.0	644.0	646.0	646.4	646.8	647.6
160°	663.0	660.0	659.0	656.0	655.0	655.0	658.0	661.0	661.6	662.2	663.4
162.5°	673.0	669.0	669.0	665.0	661.0	663.0	667.0	669.0	669.4	669.8	670.6
165°	681.0	678.0	676.0	676.0	673.0	673.0	672.0	674.5	675.0	675.5	676.5
167.5°	690.0	687.0	684.0	686.0	688.0	685.0	678.0	681.0	681.6	682.2	683.4
170°	698.0	695.0	692.0	692.0	693.0	691.0	686.0	687.5	687.8	688.1	688.7
172.5°	699.0	697.0	695.0	693.0	690.0	690.0	689.0	690.5	690.8	691.1	691.7
175°	700.0	698.0	697.0	695.0	691.0	690.0	690.0	692.5	693.0	693.5	694.5
177.5°	707.0	705.0	700.0	699.0	697.0	695.0	694.0	696.5	697.0	697.5	698.5
180°	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0



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CANDELA DISTRIBUTION (continued):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	283.6	283.6	283.6	283.6	283.6	283.6	283.6	283.6	283.6	283.6	283.6
2.5°	293.7	292.8	291.6	291.9	291.3	290.4	290.7	290.4	290.7	290.1	289.5
5°	302.3	301.7	299.9	299.6	299.0	298.4	297.5	296.6	296.3	295.7	294.6
7.5°	312.0	310.2	309.4	308.2	306.7	304.3	304.0	302.8	302.0	301.4	299.9
10°	322.1	320.0	318.8	317.4	315.9	314.4	312.9	310.8	308.8	308.2	306.4
12.5°	337.2	334.5	332.2	329.8	328.3	325.6	323.6	320.9	318.8	317.9	315.0
15°	353.8	350.2	347.8	346.1	343.7	341.3	338.7	336.3	333.0	330.4	327.7
17.5°	373.3	370.0	368.3	365.0	362.1	359.4	357.3	354.4	351.7	347.0	344.6
20°	399.1	396.4	394.3	390.8	387.5	384.8	383.1	376.9	373.3	369.2	365.3
22.5°	423.0	423.3	421.3	418.9	416.8	413.3	410.3	405.9	401.4	396.4	391.1
25°	449.1	451.5	451.8	451.2	450.0	445.8	444.4	439.9	436.4	428.1	425.7
27.5°	478.1	480.8	484.0	488.2	489.1	484.6	486.7	482.2	476.0	472.5	464.8
30°	506.2	513.6	520.4	525.2	528.1	530.2	528.7	527.2	523.1	517.2	510.4
32.5°	542.3	550.0	556.8	567.2	572.5	579.0	577.9	578.5	577.0	571.1	563.1
35°	578.8	585.6	594.4	601.3	614.3	621.4	627.3	627.0	627.0	623.5	615.8
37.5°	611.0	614.9	622.3	633.5	642.1	653.4	662.8	666.7	672.9	673.2	664.9
40°	644.8	648.6	654.2	662.5	672.0	685.3	698.1	710.5	716.4	722.6	719.4
42.5°	681.2	685.3	689.5	694.8	708.4	718.8	735.9	752.8	765.0	777.7	776.2
45°	717.3	722.0	728.0	735.9	748.1	765.0	781.5	800.5	828.3	843.4	853.8
47.5°	758.2	765.8	776.8	789.5	799.3	816.8	837.8	867.1	895.2	921.3	937.6
50°	819.7	822.7	840.5	852.9	871.5	889.3	910.3	936.1	972.5	999.1	1025.2
52.5°	892.3	903.5	921.3	935.5	950.3	968.0	989.7	1012.7	1048.9	1078.8	1112.5
55°	985.8	1001.8	1017.2	1024.9	1045.6	1061.6	1079.1	1101.9	1140.6	1173.2	1212.9
57.5°	1097.4	1113.4	1120.8	1132.0	1140.9	1158.7	1182.4	1197.8	1232.1	1265.9	1307.9
60°	1326.5	1316.5	1325.4	1307.9	1305.2	1306.7	1311.7	1323.6	1342.8	1374.2	1418.6
62.5°	1740.1	1725.6	1687.1	1673.2	1646.3	1609.9	1575.5	1570.8	1560.7	1584.4	1612.2
65°	1981.7	2034.4	2040.0	2054.8	2044.1	2015.7	1975.5	1962.4	1929.9	1907.1	1905.6
67.5°	1923.7	2002.7	2052.1	2114.6	2149.2	2183.0	2191.9	2203.4	2182.4	2172.0	2175.0
69°	1762.3	1820.9	1931.6	1974.3	2029.0	2074.0	2133.2	2143.6	2164.0	2167.0	2206.4
70°	1602.5	1688.6	1752.0	1815.9	1891.7	1941.1	1967.8	2011.6	2062.2	2087.1	2129.7
72.5°	1152.2	1180.3	1225.3	1308.2	1329.2	1380.4	1432.8	1470.1	1529.6	1571.7	1672.0
75°	621.7	638.6	709.3	756.4	768.8	785.7	824.2	833.3	855.5	869.2	965.7
77.5°	283.9	309.7	318.8	344.6	330.1	337.2	346.4	344.3	350.5	380.1	413.9
80°	130.8	135.9	139.4	150.1	150.7	148.3	149.2	147.7	146.5	151.3	154.8
82.5°	63.6	71.3	71.3	77.9	81.1	80.2	82.0	81.4	82.6	81.4	85.3
85°	37.3	37.3	40.3	43.8	43.2	44.4	44.4	46.8	47.1	47.7	47.7
87.5°	17.5	19.2	20.1	21.6	22.2	23.1	23.7	23.7	24.0	23.4	24.0
90°	13.4	13.4	16.4	16.4	17.0	17.9	16.7	17.3	19.4	16.7	18.8
92.5°	7.0	6.9	6.8	6.7	6.6	6.5	6.4	6.3	6.2	6.1	6.0
95°	8.0	7.9	7.8	7.7	7.6	7.5	7.4	7.3	7.2	7.1	7.0
97.5°	10.0	9.9	9.8	9.7	9.6	9.5	9.4	9.3	9.2	9.1	9.0
100°	26.0	25.7	25.4	25.1	24.8	24.5	24.2	23.9	23.6	23.3	23.0
102.5°	47.0	46.5	46.0	45.5	45.0	44.5	44.0	43.5	43.0	42.5	42.0
105°	70.0	69.5	69.0	68.5	68.0	67.5	67.0	66.5	66.0	65.5	65.0
107.5°	94.0	93.6	93.2	92.8	92.4	92.0	91.6	91.2	90.8	90.4	90.0



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CATALOG NUMBER: ISW-AF-350-LED-E1-T2-8030-ULG

CANDELA DISTRIBUTION (continued):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
110°	121.0	120.8	120.6	120.4	120.2	120.0	119.8	119.6	119.4	119.2	119.0
112.5°	150.0	149.9	149.8	149.7	149.6	149.5	149.4	149.3	149.2	149.1	149.0
115°	182.0	181.7	181.4	181.1	180.8	180.5	180.2	179.9	179.6	179.3	179.0
117.5°	215.0	214.5	214.0	213.5	213.0	212.5	212.0	211.5	211.0	210.5	210.0
120°	250.0	249.5	249.0	248.5	248.0	247.5	247.0	246.5	246.0	245.5	245.0
122.5°	283.0	282.5	282.0	281.5	281.0	280.5	280.0	279.5	279.0	278.5	278.0
125°	315.0	314.5	314.0	313.5	313.0	312.5	312.0	311.5	311.0	310.5	310.0
127.5°	346.0	346.0	346.0	346.0	346.0	346.0	346.0	346.0	346.0	346.0	346.0
130°	381.0	381.0	381.0	381.0	381.0	381.0	381.0	381.0	381.0	381.0	381.0
132.5°	416.0	415.8	415.6	415.4	415.2	415.0	414.8	414.6	414.4	414.2	414.0
135°	448.0	447.9	447.8	447.7	447.6	447.5	447.4	447.3	447.2	447.1	447.0
137.5°	475.0	475.1	475.2	475.3	475.4	475.5	475.6	475.7	475.8	475.9	476.0
140°	502.0	502.2	502.4	502.6	502.8	503.0	503.2	503.4	503.6	503.8	504.0
142.5°	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0
145°	562.0	561.9	561.8	561.7	561.6	561.5	561.4	561.3	561.2	561.1	561.0
147.5°	585.0	585.1	585.2	585.3	585.4	585.5	585.6	585.7	585.8	585.9	586.0
150°	600.0	600.3	600.6	600.9	601.2	601.5	601.8	602.1	602.4	602.7	603.0
152.5°	614.0	614.4	614.8	615.2	615.6	616.0	616.4	616.8	617.2	617.6	618.0
155°	631.0	631.5	632.0	632.5	633.0	633.5	634.0	634.5	635.0	635.5	636.0
157.5°	648.0	648.2	648.4	648.6	648.8	649.0	649.2	649.4	649.6	649.8	650.0
160°	664.0	663.7	663.4	663.1	662.8	662.5	662.2	661.9	661.6	661.3	661.0
162.5°	671.0	670.9	670.8	670.7	670.6	670.5	670.4	670.3	670.2	670.1	670.0
165°	677.0	677.3	677.6	677.9	678.2	678.5	678.8	679.1	679.4	679.7	680.0
167.5°	684.0	684.4	684.8	685.2	685.6	686.0	686.4	686.8	687.2	687.6	688.0
170°	689.0	689.5	690.0	690.5	691.0	691.5	692.0	692.5	693.0	693.5	694.0
172.5°	692.0	692.2	692.4	692.6	692.8	693.0	693.2	693.4	693.6	693.8	694.0
175°	695.0	695.1	695.2	695.3	695.4	695.5	695.6	695.7	695.8	695.9	696.0
177.5°	699.0	699.2	699.4	699.6	699.8	700.0	700.2	700.4	700.6	700.8	701.0
180°	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0



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CATALOG NUMBER: ISW-AF-350-LED-E1-T2-8030-ULG

CANDELA DISTRIBUTION (continued):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	283.6	283.6	283.6	283.6	283.6	283.6	283.6	283.6	283.6	283.6	283.6
2.5°	288.9	289.5	289.2	288.0	287.7	287.7	287.2	286.9	286.3	286.0	286.6
5°	294.3	294.3	293.4	292.2	291.0	290.7	290.4	288.9	288.3	287.7	287.2
7.5°	299.3	298.7	297.5	295.4	294.3	294.0	292.8	291.3	289.8	288.6	288.0
10°	304.6	304.0	301.7	300.2	297.8	297.5	295.4	293.7	292.2	290.7	289.5
12.5°	312.3	311.7	309.1	305.5	303.7	302.6	299.9	297.8	295.7	294.0	291.9
15°	324.2	321.8	320.0	316.5	313.8	311.4	308.2	305.2	302.3	299.3	297.5
17.5°	340.7	337.5	332.7	330.7	327.1	323.3	318.8	316.8	312.9	309.4	305.8
20°	362.4	359.1	351.7	349.0	344.0	338.4	334.8	330.4	327.1	321.5	317.6
22.5°	386.3	383.4	376.3	369.2	364.4	360.0	354.4	348.7	342.5	337.2	333.0
25°	417.4	413.0	406.8	399.7	392.5	386.3	378.6	370.6	365.3	357.9	352.0
27.5°	459.7	452.0	441.7	434.0	428.4	418.9	409.4	402.3	394.0	384.3	377.7
30°	505.6	497.0	489.4	480.5	471.0	461.8	448.8	438.4	429.6	419.2	408.5
32.5°	556.6	549.1	538.2	526.7	516.3	504.7	495.3	484.3	468.9	458.0	446.7
35°	607.8	599.2	587.9	578.2	566.3	554.5	543.8	529.3	515.4	499.7	484.0
37.5°	657.2	649.8	637.4	622.6	612.2	599.5	588.5	573.1	556.6	539.1	527.2
40°	712.3	700.4	691.8	674.7	664.0	649.8	634.1	622.3	606.3	587.3	570.5
42.5°	775.3	767.0	757.9	743.9	732.7	715.8	696.0	680.9	666.1	643.6	620.2
45°	855.3	849.9	834.8	823.6	808.5	790.7	773.5	755.2	731.8	705.8	684.4
47.5°	951.2	947.0	933.4	917.4	897.6	873.6	857.6	832.5	812.6	780.1	754.6
50°	1038.2	1040.3	1032.9	1008.3	990.5	966.6	941.4	919.5	889.0	855.3	822.7
52.5°	1142.1	1140.0	1121.4	1107.8	1086.8	1057.7	1030.2	1002.1	968.6	933.7	893.1
55°	1241.6	1247.8	1234.8	1215.5	1190.1	1149.5	1121.7	1085.3	1050.0	1011.6	964.8
57.5°	1338.1	1357.9	1347.9	1325.1	1299.0	1269.7	1233.0	1192.1	1155.7	1105.4	1052.7
60°	1458.3	1484.6	1488.8	1474.0	1445.6	1411.5	1363.3	1331.3	1281.3	1234.8	1194.2
62.5°	1643.3	1703.1	1699.6	1706.7	1686.5	1665.5	1609.0	1574.6	1509.5	1476.0	1419.5
65°	1952.4	1996.5	2049.5	2047.7	2033.8	1983.5	1924.8	1867.4	1824.5	1758.5	1699.6
67.5°	2211.7	2248.1	2279.5	2263.2	2231.2	2174.7	2106.0	2026.1	1960.7	1887.8	1810.6
69°	2236.0	2280.4	2298.7	2278.6	2221.2	2147.5	2080.3	2006.0	1916.0	1853.5	1759.4
70°	2170.8	2214.7	2251.7	2199.9	2147.2	2075.2	2001.8	1924.5	1844.0	1776.8	1681.8
72.5°	1724.4	1773.9	1768.8	1763.2	1721.2	1649.2	1581.7	1540.3	1483.7	1402.6	1333.9
75°	1002.7	1025.5	985.5	1027.5	977.2	904.7	914.2	867.4	825.9	779.2	743.1
77.5°	393.7	413.9	392.8	386.0	363.5	358.5	320.9	325.3	306.7	270.0	253.1
80°	149.2	151.9	148.3	140.9	139.4	130.8	128.5	120.2	116.3	104.2	99.8
82.5°	80.2	81.7	79.3	77.0	75.2	70.2	66.9	60.7	57.1	53.3	53.0
85°	46.2	45.0	43.8	42.6	40.0	37.0	34.6	32.3	29.6	27.5	25.5
87.5°	24.3	24.6	24.9	23.7	21.9	19.5	18.1	17.2	15.1	14.2	13.3
90°	16.8	14.5	15.2	16.8	16.0	14.3	13.8	12.7	11.6	11.4	10.6
92.5°	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
95°	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
97.5°	8.9	8.8	8.7	8.6	8.5	8.4	8.3	8.2	8.1	8.0	8.0
100°	22.6	22.2	21.8	21.4	21.0	20.6	20.2	19.8	19.4	19.0	19.0
102.5°	41.7	41.4	41.1	40.8	40.5	40.2	39.9	39.6	39.3	39.0	38.8
105°	64.6	64.2	63.8	63.4	63.0	62.6	62.2	61.8	61.4	61.0	61.0
107.5°	89.7	89.4	89.1	88.8	88.5	88.2	87.9	87.6	87.3	87.0	86.8



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REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°	
110°	118.7	118.4	118.1	117.8	117.5	117.2	116.9	116.6	116.3	116.0	116.2	0°
112.5°	148.8	148.6	148.4	148.2	148.0	147.8	147.6	147.4	147.2	147.0	147.0	2.5°
115°	178.8	178.6	178.4	178.2	178.0	177.8	177.6	177.4	177.2	177.0	177.2	5°
117.5°	209.8	209.6	209.4	209.2	209.0	208.8	208.6	208.4	208.2	208.0	208.2	7.5°
120°	244.8	244.6	244.4	244.2	244.0	243.8	243.6	243.4	243.2	243.0	243.0	10°
122.5°	277.8	277.6	277.4	277.2	277.0	276.8	276.6	276.4	276.2	276.0	276.2	12.5°
125°	310.0	310.0	310.0	310.0	310.0	310.0	310.0	310.0	310.0	310.0	310.0	15°
127.5°	345.9	345.8	345.7	345.6	345.5	345.4	345.3	345.2	345.1	345.0	345.4	17.5°
130°	380.8	380.6	380.4	380.2	380.0	379.8	379.6	379.4	379.2	379.0	379.2	20°
132.5°	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.2	22.5°
135°	447.3	447.6	447.9	448.2	448.5	448.8	449.1	449.4	449.7	450.0	450.2	25°
137.5°	476.5	477.0	477.5	478.0	478.5	479.0	479.5	480.0	480.5	481.0	481.2	27.5°
140°	504.5	505.0	505.5	506.0	506.5	507.0	507.5	508.0	508.5	509.0	509.4	30°
142.5°	533.1	533.2	533.3	533.4	533.5	533.6	533.7	533.8	533.9	534.0	534.4	32.5°
145°	560.7	560.4	560.1	559.8	559.5	559.2	558.9	558.6	558.3	558.0	558.4	35°
147.5°	585.7	585.4	585.1	584.8	584.5	584.2	583.9	583.6	583.3	583.0	583.4	37.5°
150°	603.3	603.6	603.9	604.2	604.5	604.8	605.1	605.4	605.7	606.0	606.8	40°
152.5°	618.5	619.0	619.5	620.0	620.5	621.0	621.5	622.0	622.5	623.0	624.0	42.5°
155°	636.2	636.4	636.6	636.8	637.0	637.2	637.4	637.6	637.8	638.0	638.6	45°
157.5°	650.0	650.0	650.0	650.0	650.0	650.0	650.0	650.0	650.0	650.0	651.0	47.5°
160°	660.9	660.8	660.7	660.6	660.5	660.4	660.3	660.2	660.1	660.0	661.2	50°
162.5°	669.8	669.6	669.4	669.2	669.0	668.8	668.6	668.4	668.2	668.0	669.2	52.5°
165°	679.8	679.6	679.4	679.2	679.0	678.8	678.6	678.4	678.2	678.0	678.8	55°
167.5°	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	689.2	57.5°
170°	694.2	694.4	694.6	694.8	695.0	695.2	695.4	695.6	695.8	696.0	697.0	60°
172.5°	694.2	694.4	694.6	694.8	695.0	695.2	695.4	695.6	695.8	696.0	697.0	62.5°
175°	695.8	695.6	695.4	695.2	695.0	694.8	694.6	694.4	694.2	694.0	695.0	65°
177.5°	700.7	700.4	700.1	699.8	699.5	699.2	698.9	698.6	698.3	698.0	698.8	67.5°
180°	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	69°
												70°
												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
 CATALOG NUMBER:

DISTRIBUTION (continued):

CANDELA DISTRIBUTION

87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	155°	110°	87°
283.6	283.6	283.6	283.6	283.6	283.6	283.6	283.6	283.6	283.6	283.6	110°	116.4
285.7	285.7	284.8	284.2	282.1	278.6	275.0	271.8	267.3	265.5	263.2	112.5°	147.0
286.6	286.0	285.1	283.9	279.8	271.5	262.9	253.7	244.2	235.6	225.6	115°	177.4
287.2	286.0	284.8	283.3	277.4	264.7	247.5	229.4	212.6	199.8	194.5	117.5°	208.4
287.5	286.6	285.1	283.0	274.7	255.8	228.2	202.2	187.4	182.4	181.5	120°	243.0
290.7	289.2	286.9	284.5	273.5	246.0	206.6	181.8	175.8	178.2	182.4	122.5°	276.4
294.9	293.1	290.1	287.7	272.9	233.3	185.6	170.2	172.3	178.8	185.6	125°	310.0
302.3	299.3	296.0	293.7	274.1	217.6	168.7	164.3	170.5	178.8	188.0	127.5°	345.8
313.2	309.1	305.2	301.1	275.9	198.0	158.7	160.5	167.9	176.7	186.8	130°	379.4
326.8	322.1	316.8	310.5	278.0	181.2	153.1	156.3	163.1	170.8	179.1	132.5°	414.4
345.2	338.7	331.9	324.2	280.9	162.8	148.0	151.6	155.7	160.2	164.3	135°	450.4
368.3	359.4	352.0	341.6	283.9	150.4	143.9	145.1	145.9	146.5	146.2	137.5°	481.4
399.1	385.4	376.9	364.1	287.2	143.9	139.1	137.7	136.2	134.1	131.7	140°	509.8
431.6	420.4	406.8	390.5	289.2	139.4	134.7	130.0	125.8	123.7	123.7	142.5°	534.8
469.5	455.6	438.4	418.0	286.6	134.7	128.8	122.6	120.2	122.9	122.0	145°	558.8
507.4	488.2	469.2	445.8	280.1	129.4	122.3	119.0	120.8	117.2	115.2	147.5°	583.8
549.1	527.8	501.5	474.3	270.6	123.7	119.0	120.8	114.6	110.4	112.2	150°	607.6
595.9	570.8	542.3	505.3	264.4	120.2	114.0	115.5	110.1	107.2	106.3	152.5°	625.0
659.6	623.8	589.1	545.6	269.1	114.6	104.2	110.1	107.2	104.5	102.1	155°	639.2
722.0	683.8	643.0	591.8	277.4	110.4	96.5	104.5	106.6	102.1	97.7	157.5°	652.0
784.8	744.2	696.6	639.4	287.5	107.8	90.6	97.7	105.1	99.8	96.2	160°	662.4
850.8	799.6	750.8	689.2	300.5	105.1	85.9	91.8	102.4	99.8	94.4	162.5°	670.4
920.1	859.7	810.8	744.2	323.3	101.2	79.9	87.0	99.8	99.5	92.7	165°	679.6
1000.6	946.7	884.0	816.2	354.9	96.8	74.6	83.5	97.4	98.3	90.6	167.5°	690.4
1137.7	1082.0	1006.2	941.7	417.7	90.9	71.3	79.9	93.5	95.9	88.8	170°	698.0
1360.0	1284.2	1214.6	1154.3	525.2	82.6	69.0	76.1	89.4	93.0	87.3	172.5°	698.0
1614.9	1540.9	1456.8	1355.3	585.0	74.9	65.7	71.3	85.3	90.0	85.9	175°	696.0
1723.2	1626.4	1524.3	1403.8	527.8	68.7	62.2	66.9	80.5	85.9	83.8	177.5°	699.6
1673.5	1575.5	1456.8	1338.7	459.2	65.4	60.1	64.5	77.0	83.2	81.7	180°	700.0
1587.1	1488.5	1382.5	1240.7	410.0	63.6	58.6	63.1	75.5	81.7	80.5		
1255.2	1167.3	1069.6	961.5	279.5	57.7	53.9	58.6	69.6	76.4	76.1		
665.2	639.4	567.2	503.9	144.8	51.5	48.8	53.6	64.2	71.3	71.3		
239.5	217.3	207.8	172.6	77.0	45.0	43.8	47.4	58.3	65.1	64.8		
90.6	88.2	79.0	74.0	48.8	36.7	37.0	40.6	51.2	57.7	57.4		
51.2	46.5	45.0	43.5	31.1	29.0	30.5	34.0	43.8	49.4	50.3		
24.6	22.8	22.2	20.7	20.4	22.2	24.0	26.9	34.9	41.7	40.9		
11.8	11.2	11.0	10.7	14.5	14.2	17.5	18.7	23.4	33.2	29.9		
10.8	10.8	10.6	10.0	11.1	13.7	14.6	15.0	16.8	27.2	23.7		
6.0	6.0	6.0	6.0	6.0	6.0	7.0	7.0	6.0	6.0	6.0		
7.0	7.0	7.0	7.0	7.0	7.0	8.0	7.0	7.0	7.0	7.0		
8.0	8.0	8.0	8.0	8.0	9.0	10.0	12.0	9.0	9.0	8.0		
19.0	19.0	19.0	19.0	19.0	23.0	26.0	29.0	21.0	12.0	10.0		
38.6	38.4	38.2	38.0	39.0	42.0	47.0	50.0	40.0	27.0	18.0		
61.0	61.0	61.0	61.0	61.0	65.0	70.0	72.0	63.0	48.0	36.0		
86.6	86.4	86.2	86.0	87.0	90.0	94.0	95.0	88.0	73.0	58.0		

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 ISW-AF-350-LED-E1-T2-8030-ULG

REPORT NUMBER: P226346
 CATALOG NUMBER: ISW-AF-3!

TION (continued):

CANDELA DISTRIBUTION (con

88°	89°	90°	95°	105°	115°	125°	135°	145°	155°		165°	175°
116.6	116.8	117.0	116.0	119.0	121.0	120.0	114.0	102.0	87.0	0°	283.6	283.6
147.0	147.0	147.0	147.0	149.0	150.0	148.0	143.0	134.0	121.0	2.5°	261.1	257.0
177.6	177.8	178.0	177.0	179.0	182.0	179.0	174.0	168.0	159.0	5°	218.2	217.6
208.6	208.8	209.0	208.0	210.0	215.0	211.0	205.0	202.0	197.0	7.5°	191.2	187.4
243.0	243.0	243.0	243.0	245.0	250.0	246.0	243.0	237.0	233.0	10°	182.4	182.1
276.6	276.8	277.0	276.0	278.0	283.0	279.0	277.0	271.0	267.0	12.5°	186.2	187.1
310.0	310.0	310.0	310.0	310.0	315.0	313.0	310.0	305.0	299.0	15°	191.2	193.0
346.2	346.6	347.0	345.0	346.0	346.0	345.0	340.0	339.0	333.0	17.5°	194.5	197.8
379.6	379.8	380.0	379.0	381.0	381.0	377.0	372.0	370.0	366.0	20°	193.6	197.5
414.6	414.8	415.0	414.0	414.0	416.0	411.0	405.0	404.0	401.0	22.5°	183.8	185.6
450.6	450.8	451.0	450.0	447.0	448.0	443.0	437.0	435.0	432.0	25°	166.4	167.0
481.6	481.8	482.0	481.0	476.0	475.0	473.0	468.0	464.0	460.0	27.5°	145.4	144.8
510.2	510.6	511.0	509.0	504.0	502.0	500.0	497.0	491.0	489.0	30°	130.6	126.7
535.2	535.6	536.0	534.0	533.0	533.0	527.0	525.0	521.0	518.0	32.5°	123.7	121.4
559.2	559.6	560.0	558.0	561.0	562.0	556.0	551.0	550.0	547.0	35°	119.0	115.2
584.2	584.6	585.0	583.0	586.0	585.0	580.0	575.0	574.0	574.0	37.5°	123.4	123.2
608.4	609.2	610.0	606.0	603.0	600.0	597.0	593.0	593.0	593.0	40°	127.6	127.0
626.0	627.0	628.0	623.0	618.0	614.0	611.0	610.0	610.0	609.0	42.5°	120.5	115.2
639.8	640.4	641.0	638.0	636.0	631.0	626.0	628.0	630.0	627.0	45°	107.5	101.2
653.0	654.0	655.0	650.0	650.0	648.0	644.0	645.0	646.0	644.0	47.5°	98.6	95.0
663.6	664.8	666.0	660.0	661.0	664.0	658.0	655.0	655.0	656.0	50°	94.4	93.3
671.6	672.8	674.0	668.0	670.0	671.0	667.0	663.0	661.0	665.0	52.5°	93.3	96.2
680.4	681.2	682.0	678.0	680.0	677.0	672.0	673.0	673.0	676.0	55°	92.7	95.9
691.6	692.8	694.0	688.0	688.0	684.0	678.0	685.0	688.0	686.0	57.5°	88.5	94.1
699.0	700.0	701.0	696.0	694.0	689.0	686.0	691.0	693.0	692.0	60°	85.6	92.4
699.0	700.0	701.0	696.0	694.0	692.0	689.0	690.0	690.0	693.0	62.5°	83.8	91.5
697.0	698.0	699.0	694.0	696.0	695.0	690.0	690.0	691.0	695.0	65°	82.3	92.1
700.4	701.2	702.0	698.0	701.0	699.0	694.0	695.0	697.0	699.0	67.5°	79.9	93.8
700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	69°	78.7	93.5
										70°	77.6	92.7
										72.5°	73.4	85.6
										75°	68.4	75.5
										77.5°	61.9	64.8
										80°	54.8	56.5
										82.5°	47.7	54.5
										85°	37.3	46.2
										87.5°	27.5	25.5
										90°	22.7	16.5
										92.5°	5.0	4.0
										95°	6.0	5.0
										97.5°	8.0	7.0
										100°	9.0	8.0
										102.5°	13.0	11.0
										105°	27.0	22.0
										107.5°	49.0	42.0

50-LED-E1-T2-8030-ULG

REPORT NUMBER: P226346

CATALOG NUMBER: ISW-AF-350-LED-E1-

tinued):

180°
283.6
257.8
215.8
187.7
183.0
186.5
193.6
198.9
198.3
187.1
167.6
147.1
129.7
124.0
116.9
124.6
128.2
116.3
101.2
94.4
92.7
97.1
95.6
94.4
92.7
91.2
90.9
91.5
90.3
88.8
79.9
71.9
64.8
57.1
48.3
36.1
27.5
14.8
4.0
5.0
7.0
8.0
11.0
21.0
41.0

CANDELA DISTRIBUTION (continued):

	165°	175°	180°
110°	74.0	68.0	66.0
112.5°	106.0	99.0	99.0
115°	147.0	139.0	140.0
117.5°	189.0	184.0	184.0
120°	226.0	223.0	225.0
122.5°	261.0	260.0	263.0
125°	296.0	294.0	298.0
127.5°	329.0	329.0	330.0
130°	362.0	361.0	363.0
132.5°	393.0	394.0	396.0
135°	426.0	426.0	429.0
137.5°	459.0	457.0	460.0
140°	487.0	485.0	488.0
142.5°	517.0	515.0	518.0
145°	544.0	546.0	550.0
147.5°	571.0	572.0	575.0
150°	593.0	592.0	595.0
152.5°	608.0	608.0	611.0
155°	625.0	625.0	629.0
157.5°	643.0	643.0	646.0
160°	659.0	660.0	663.0
162.5°	669.0	669.0	673.0
165°	676.0	678.0	681.0
167.5°	684.0	687.0	690.0
170°	692.0	695.0	698.0
172.5°	695.0	697.0	699.0
175°	697.0	698.0	700.0
177.5°	700.0	705.0	707.0
180°	700.0	700.0	700.0

(END OF F

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

