

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: P226345

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P226345
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-ULG
Description: IMPACT ELITE LED WEDGE LUMINAIRE WITH UPLIGHT
LIGHT SQUARE WITH ACCULED OPTICS-TYPE II, WITH UPLIGHT GLOW
Light Source: (16) 4000K CCT, 70 CRI LEDs and (1) UPLIGHT LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4332.4 lumens
Efficiency: N/A
Efficacy: 117.8 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

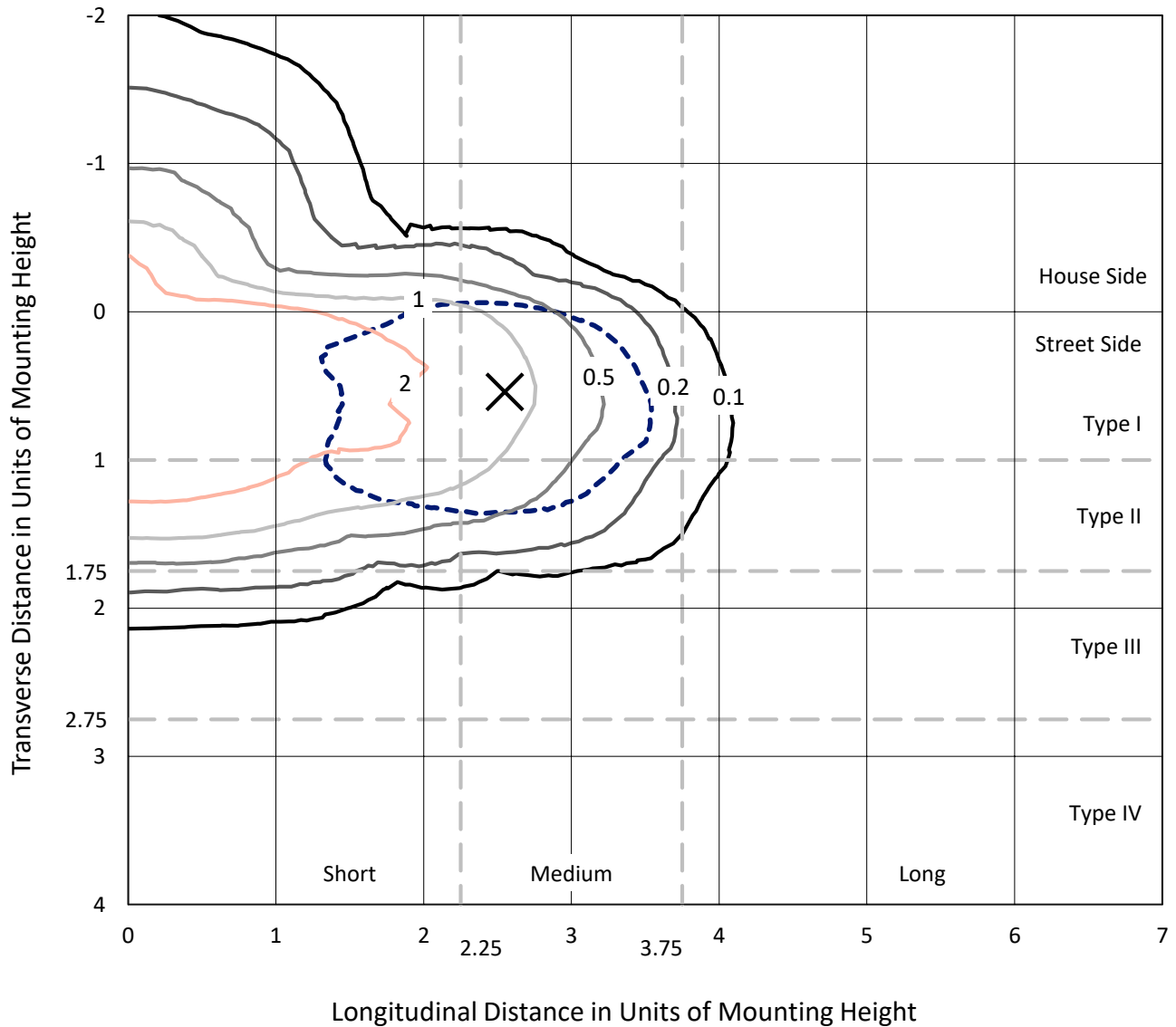
Input Watts (W): 36.79
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

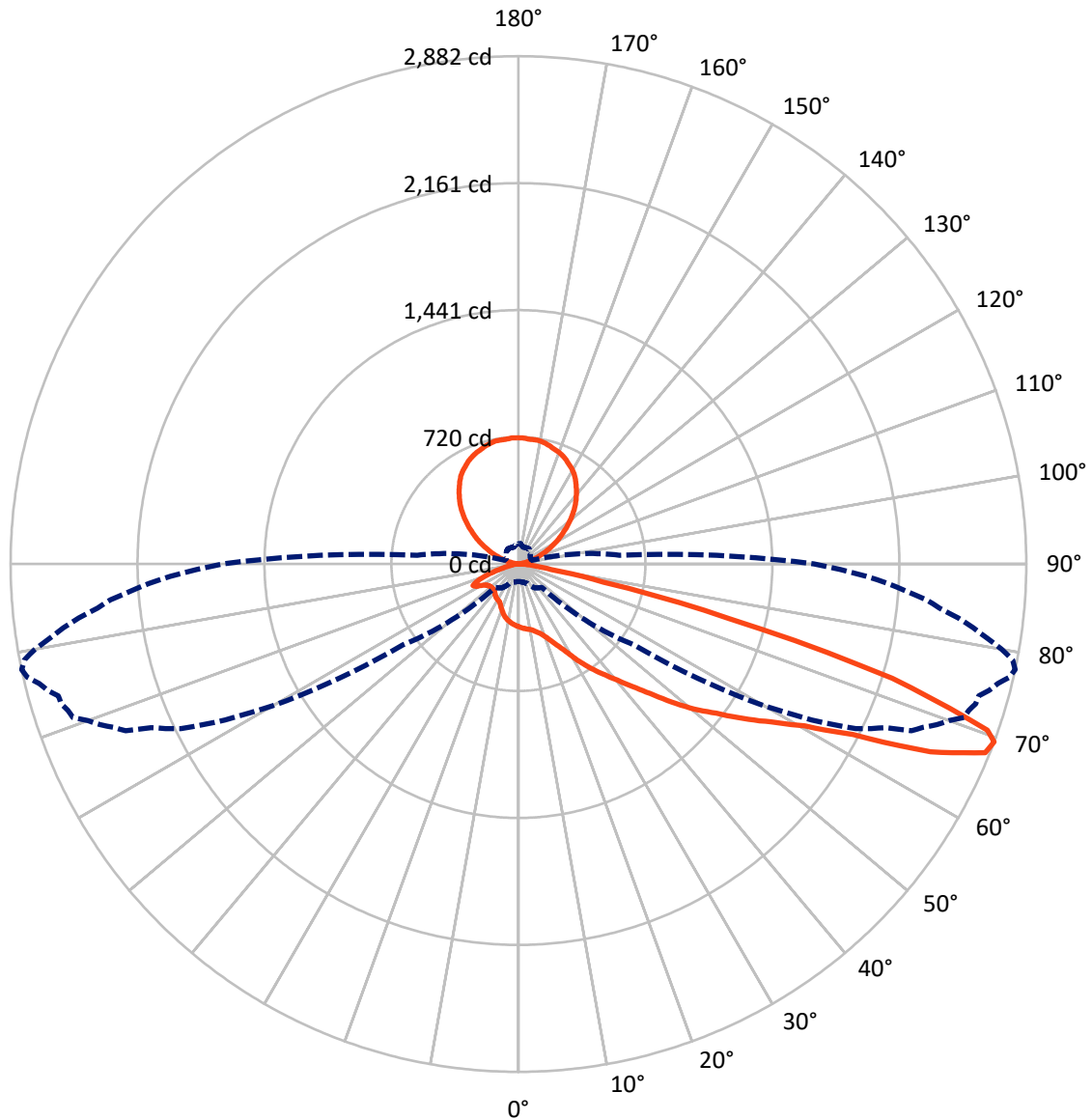
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.6 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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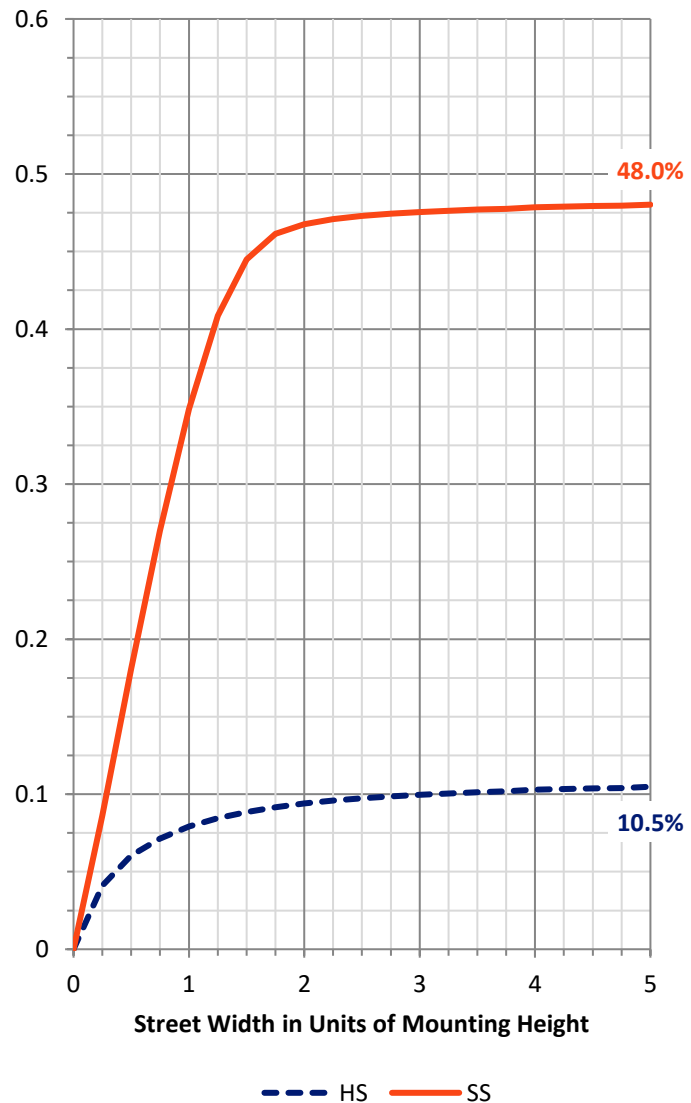
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	467.9	888.4	1356.3
	% Fixture	10.8	20.5	31.3
Street Side	Lumens	2088.3	887.9	2976.2
	% Fixture	48.2	20.5	68.7
Total	Lumens	2556.2	1776.3	4332.4
	% Fixture	59.0	41.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.0	0.8
10°-20°	99.7	2.3
20°-30°	178.7	4.1
30°-40°	291.7	6.7
40°-50°	431.5	10.0
50°-60°	563.4	13.0
60°-70°	630.1	14.5
70°-80°	282.9	6.5
80°-90°	45.2	1.0
90°-100°	10.8	0.2
100°-110°	58.7	1.4
110°-120°	169.9	3.9
120°-130°	279.4	6.4
130°-140°	344.6	8.0
140°-150°	352.5	8.1
150°-160°	297.0	6.9
160°-170°	195.5	4.5
170°-180°	67.8	1.6
0°-90°	2556.2	59.0
0°-180°	4332.4	100.0



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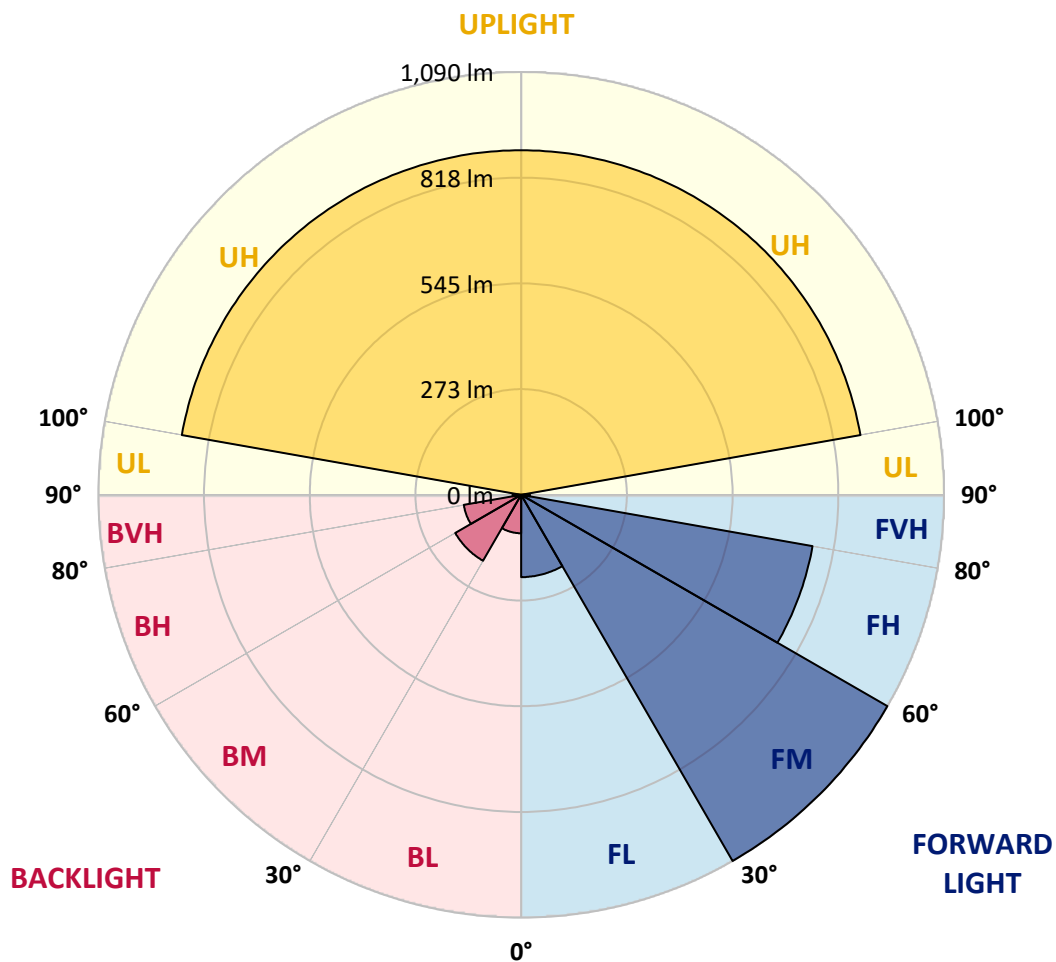
CATALOG NUMBER: ISW-AF-350-LED-E1-T2-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	212.2	4.9			
FM (30°-60°)	1090.2	25.2			
FH (60°-80°)	762.8	17.6			G1/1800
FVH (80°-90°)	23.0	0.5			G1/100
BL (0°-30°)	99.2	2.3	B0/110		
BM (30°-60°)	196.4	4.5	B0/220		
BH (60°-80°)	150.2	3.5	B1/500		G1/500
BVH (80°-90°)	22.1	0.5			G1/100
UL (90°-100°)	10.8	0.2		U2/50	
UH (100°-180°)	888.4	20.5		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°	355.6	355.6	355.6	355.6	355.6	355.6	355.6	355.6	355.6	355.6	355.6
2.5°	380.7	380.7	379.6	378.9	377.8	374.8	370.4	369.6	369.3	368.6	367.8
5°	408.6	405.6	406.4	404.5	400.5	395.3	387.1	383.0	380.7	380.4	378.9
7.5°	431.3	431.6	430.5	426.8	421.3	414.9	403.8	397.4	395.6	394.4	391.9
10°	447.5	446.4	445.7	445.0	440.5	435.4	421.3	413.4	411.9	409.0	406.0
12.5°	459.4	459.4	459.4	458.7	456.1	452.0	440.9	433.1	431.3	427.2	424.5
15°	472.4	471.0	469.4	468.3	468.7	468.7	460.5	454.6	451.6	449.4	444.3
17.5°	500.2	496.9	493.6	489.2	482.1	480.3	479.9	479.5	475.4	475.1	469.8
20°	524.1	521.1	518.1	513.6	503.6	492.9	498.4	503.6	502.9	503.2	500.6
22.5°	553.3	551.1	545.1	540.0	527.0	514.0	514.7	525.9	527.3	528.9	529.6
25°	593.4	592.3	582.7	572.6	557.8	545.5	534.1	547.8	550.8	554.0	560.8
27.5°	633.8	631.3	620.8	611.9	593.4	580.4	564.5	571.9	576.3	582.7	593.0
30°	686.2	679.1	675.5	655.4	638.3	619.4	605.7	607.9	607.1	614.6	630.5
32.5°	761.9	750.7	732.2	712.2	692.1	666.9	655.4	655.0	653.2	661.7	670.6
35°	802.7	800.2	788.6	768.5	746.7	722.9	715.6	708.5	709.6	714.0	717.4
37.5°	846.9	844.7	835.8	824.6	807.9	820.9	779.7	769.4	764.6	762.3	763.4
40°	866.2	868.1	872.9	874.7	865.1	927.4	846.2	812.0	810.5	807.2	803.8
42.5°	870.2	875.1	884.8	905.9	915.1	1051.0	901.1	859.9	854.0	851.3	851.7
45°	885.2	892.5	894.4	913.7	957.5	1057.3	963.0	902.1	897.7	897.3	895.2
47.5°	921.1	931.1	931.1	939.7	981.2	1069.6	984.2	944.5	941.5	940.1	946.0
50°	926.3	939.7	966.4	993.9	1023.9	1079.6	1008.3	990.5	991.6	994.9	1012.4
52.5°	838.3	851.7	922.2	1003.1	1101.1	1107.0	1044.7	1051.8	1059.2	1075.5	1107.4
55°	718.8	728.5	812.0	941.5	1104.1	1211.4	1136.0	1155.6	1171.3	1176.1	1226.2
57.5°	566.0	579.3	664.3	832.4	1030.9	1241.0	1346.0	1355.0	1337.5	1353.5	1371.7
60°	306.6	305.0	423.4	601.9	877.3	1186.1	1548.6	1701.6	1705.3	1729.8	1700.5
62.5°	171.4	171.4	205.6	309.1	564.5	1003.5	1645.9	2001.4	2047.8	2086.8	2172.5
65°	129.5	130.6	142.9	186.3	316.9	633.5	1574.6	2103.9	2192.9	2282.4	2432.7
67.5°	107.6	107.6	116.5	138.8	198.1	287.7	1159.4	1898.3	2009.6	2116.5	2324.3
69°	99.8	100.2	106.9	122.1	165.9	187.0	800.9	1609.5	1736.9	1884.9	2129.9
70°	96.2	95.0	101.3	114.0	150.3	147.7	586.8	1399.5	1498.2	1631.1	1912.7
72.5°	85.3	84.3	87.6	97.3	118.4	105.4	239.4	753.0	901.8	1050.7	1275.2
75°	76.1	75.0	77.5	82.0	92.1	80.5	120.2	315.5	381.9	493.6	681.0
77.5°	67.2	65.0	67.2	70.2	72.3	60.1	81.6	145.9	178.9	219.7	310.3
80°	60.9	58.6	61.3	59.7	56.8	46.3	54.2	85.0	94.2	112.8	147.7
82.5°	43.4	43.1	58.3	60.1	45.3	33.8	38.6	54.5	60.9	64.2	77.9
85°	26.7	25.6	33.8	43.1	46.0	21.2	24.9	32.3	33.8	36.7	43.4
87.5°	13.7	14.1	18.2	22.3	30.1	12.6	14.8	18.9	18.9	18.9	21.5
90°	8.5	9.2	12.7	16.0	14.5	10.5	12.7	12.7	13.6	13.1	14.2
92.5°	4.1	4.1	5.1	6.1	6.1	6.1	7.2	7.2	7.2	7.2	7.2
95°	5.1	5.1	6.1	7.2	7.2	7.2	7.2	7.7	7.8	7.9	8.1
97.5°	7.2	7.2	8.2	8.2	9.2	9.2	12.3	11.3	11.0	10.8	10.4
100°	8.2	8.2	9.2	10.2	12.3	21.5	29.7	28.1	27.8	27.5	26.9
102.5°	11.3	11.3	13.3	18.4	27.6	40.9	51.1	49.6	49.3	49.0	48.4
105°	21.5	22.5	27.6	36.8	49.1	64.4	73.7	72.6	72.4	72.2	71.8
107.5°	41.9	43.0	50.1	59.3	74.7	90.0	97.2	96.7	96.6	96.5	96.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
110°	67.5	69.6	75.7	89.0	104.3	116.6	122.8	123.3	123.4	123.5	123.7
112.5°	101.3	101.3	108.4	123.8	137.1	146.3	151.4	152.4	152.6	152.8	153.2
115°	143.2	142.2	150.4	162.6	171.9	178.0	183.1	184.6	184.9	185.3	185.9
117.5°	188.2	188.2	193.3	201.5	206.6	209.7	215.8	217.9	218.3	218.7	219.5
120°	230.2	228.1	231.2	238.3	242.4	248.6	251.6	253.7	254.1	254.5	255.3
122.5°	269.0	266.0	267.0	273.1	277.2	283.4	285.4	287.4	287.9	288.3	289.1
125°	304.8	300.7	302.8	305.9	312.0	317.1	320.2	321.2	321.4	321.6	322.0
127.5°	337.6	336.6	336.6	340.6	346.8	347.8	352.9	353.4	353.5	353.6	353.8
130°	371.3	369.3	370.3	374.4	378.5	380.5	385.7	387.7	388.1	388.5	389.3
132.5°	405.1	403.0	402.0	410.2	413.3	414.3	420.4	423.0	423.5	424.0	425.0
135°	438.8	435.8	435.8	441.9	445.0	447.0	453.2	455.7	456.2	456.7	457.8
137.5°	470.6	467.5	469.5	470.6	474.6	478.7	483.9	484.9	485.1	485.3	485.7
140°	499.2	496.1	498.2	500.2	502.3	508.4	511.5	512.5	512.7	512.9	513.3
142.5°	529.9	526.8	528.9	529.9	533.0	537.0	539.1	542.2	542.8	543.4	544.6
145°	562.6	558.5	556.5	559.6	562.6	563.6	568.8	571.8	572.4	573.1	574.3
147.5°	588.2	585.1	584.1	587.2	587.2	588.2	593.3	595.9	596.4	596.9	597.9
150°	608.7	605.6	606.6	606.6	606.6	606.6	610.7	612.2	612.5	612.8	613.5
152.5°	625.0	622.0	622.0	623.0	624.0	624.0	625.0	626.6	626.9	627.2	627.8
155°	643.4	639.3	639.3	641.4	644.5	642.4	640.4	642.9	643.4	643.9	645.0
157.5°	660.8	657.8	657.8	658.8	660.8	659.8	658.8	660.8	661.2	661.6	662.5
160°	678.2	675.1	674.1	671.1	670.0	670.0	673.1	676.2	676.8	677.4	678.6
162.5°	688.4	684.4	684.4	680.3	676.2	678.2	682.3	684.4	684.8	685.2	686.0
165°	696.6	693.6	691.5	691.5	688.4	688.4	687.4	690.0	690.5	691.0	692.0
167.5°	705.8	702.8	699.7	701.7	703.8	700.7	693.6	696.6	697.2	697.9	699.1
170°	714.0	711.0	707.9	707.9	708.9	706.9	701.7	703.3	703.6	703.9	704.5
172.5°	715.0	713.0	711.0	708.9	705.8	705.8	704.8	706.3	706.7	707.0	707.6
175°	716.1	714.0	713.0	711.0	706.9	705.8	705.8	708.4	708.9	709.4	710.4
177.5°	723.2	721.2	716.1	715.0	713.0	711.0	709.9	712.5	713.0	713.5	714.5
180°	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1



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CANDELA DISTRIBUTION (continued):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	355.6	355.6	355.6	355.6	355.6	355.6	355.6	355.6	355.6	355.6	355.6
2.5°	368.2	367.0	365.5	365.9	365.2	364.1	364.5	364.1	364.5	363.7	362.9
5°	378.9	378.2	375.9	375.5	374.8	374.1	373.0	371.8	371.5	370.7	369.3
7.5°	391.2	388.9	387.8	386.4	384.5	381.5	381.2	379.6	378.5	377.8	375.9
10°	403.8	401.2	399.7	397.8	396.0	394.1	392.3	389.6	387.1	386.4	384.1
12.5°	422.7	419.4	416.4	413.4	411.5	408.3	405.6	402.3	399.7	398.5	394.9
15°	443.4	439.1	436.1	433.8	430.9	427.9	424.5	421.6	417.5	414.2	410.8
17.5°	468.0	463.9	461.7	457.6	453.9	450.5	448.0	444.3	440.9	435.0	432.0
20°	500.2	496.9	494.3	489.9	485.8	482.4	480.3	472.4	468.0	462.8	458.0
22.5°	530.3	530.7	528.1	525.1	522.5	518.1	514.3	508.8	503.2	496.9	490.2
25°	563.0	566.0	566.3	565.6	564.1	558.9	557.0	551.5	547.1	536.6	533.7
27.5°	599.3	602.7	606.8	611.9	613.1	607.5	610.1	604.6	596.8	592.3	582.7
30°	634.6	643.8	652.4	658.4	662.1	664.7	662.8	660.9	655.8	648.3	639.9
32.5°	679.9	689.6	698.1	711.1	717.7	725.9	724.5	725.2	723.3	715.9	705.8
35°	725.6	734.1	745.2	753.7	770.1	779.0	786.4	786.0	786.0	781.5	771.9
37.5°	766.0	770.8	780.1	794.2	805.0	819.1	830.9	835.8	843.5	843.9	833.5
40°	808.3	813.1	820.2	830.5	842.4	859.2	875.1	890.7	898.2	905.9	901.8
42.5°	854.0	859.2	864.3	871.0	888.1	901.1	922.6	943.8	959.0	975.0	973.0
45°	899.2	905.1	912.6	922.6	937.8	959.0	979.8	1003.5	1038.4	1057.3	1070.3
47.5°	950.4	960.0	973.8	989.8	1002.0	1023.9	1050.3	1087.0	1122.3	1154.9	1175.4
50°	1027.7	1031.3	1053.6	1069.2	1092.6	1114.8	1141.2	1173.4	1219.2	1252.5	1285.1
52.5°	1118.6	1132.6	1154.9	1172.7	1191.3	1213.5	1240.6	1269.6	1314.9	1352.3	1394.7
55°	1235.8	1255.9	1275.2	1284.8	1310.8	1330.9	1352.8	1381.3	1429.9	1470.7	1520.5
57.5°	1375.8	1395.8	1405.0	1419.1	1430.3	1452.6	1482.3	1501.6	1544.6	1586.9	1639.6
60°	1663.0	1650.3	1661.5	1639.6	1636.2	1638.2	1644.4	1659.2	1683.4	1722.8	1778.4
62.5°	2181.4	2163.2	2115.0	2097.6	2063.8	2018.2	1975.1	1969.2	1956.5	1986.3	2021.1
65°	2484.2	2550.3	2557.4	2575.9	2562.6	2526.9	2476.5	2460.1	2419.3	2390.7	2388.9
67.5°	2411.5	2510.6	2572.6	2650.9	2694.4	2736.6	2747.7	2762.3	2735.9	2722.9	2726.6
69°	2209.3	2282.7	2421.5	2475.0	2543.7	2600.0	2674.3	2687.3	2712.9	2716.5	2766.0
70°	2008.9	2116.9	2196.3	2276.5	2371.4	2433.4	2466.8	2521.8	2585.2	2616.4	2669.8
72.5°	1444.4	1479.6	1536.1	1640.0	1666.3	1730.5	1796.2	1842.9	1917.5	1970.3	2096.0
75°	779.4	800.5	889.1	948.2	963.8	984.9	1033.2	1044.7	1072.6	1089.6	1210.6
77.5°	355.9	388.2	399.7	432.0	413.8	422.7	434.2	431.6	439.4	476.5	518.8
80°	164.1	170.3	174.8	188.1	188.9	186.0	187.0	185.2	183.7	189.7	194.1
82.5°	79.8	89.4	89.4	97.6	101.7	100.6	102.8	102.1	103.5	102.1	106.9
85°	46.7	46.7	50.4	54.9	54.2	55.6	55.6	58.6	59.0	59.7	59.7
87.5°	21.9	24.1	25.3	27.1	27.8	28.9	29.7	29.7	30.1	29.4	30.1
90°	14.7	14.7	18.5	18.5	19.2	20.4	18.8	19.6	22.2	18.8	21.5
92.5°	7.2	7.1	7.0	6.9	6.8	6.6	6.5	6.4	6.3	6.2	6.1
95°	8.2	8.1	8.0	7.9	7.8	7.7	7.6	7.5	7.4	7.3	7.2
97.5°	10.2	10.1	10.0	9.9	9.8	9.7	9.6	9.5	9.4	9.3	9.2
100°	26.6	26.3	26.0	25.7	25.4	25.1	24.8	24.4	24.1	23.8	23.5
102.5°	48.1	47.6	47.1	46.5	46.0	45.5	45.0	44.5	44.0	43.5	43.0
105°	71.6	71.1	70.6	70.1	69.6	69.0	68.5	68.0	67.5	67.0	66.5
107.5°	96.2	95.7	95.3	94.9	94.5	94.1	93.7	93.3	92.9	92.5	92.1



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

CANDELA DISTRIBUTION (continued):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
110°	123.8	123.6	123.4	123.2	123.0	122.8	122.5	122.3	122.1	121.9	121.7
112.5°	153.4	153.3	153.2	153.1	153.0	152.9	152.8	152.7	152.6	152.5	152.4
115°	186.2	185.9	185.6	185.3	184.9	184.6	184.3	184.0	183.7	183.4	183.1
117.5°	219.9	219.4	218.9	218.4	217.9	217.4	216.9	216.4	215.8	215.3	214.8
120°	255.7	255.2	254.7	254.2	253.7	253.2	252.7	252.2	251.6	251.1	250.6
122.5°	289.5	289.0	288.5	288.0	287.4	286.9	286.4	285.9	285.4	284.9	284.4
125°	322.2	321.7	321.2	320.7	320.2	319.7	319.2	318.6	318.1	317.6	317.1
127.5°	353.9	353.9	353.9	353.9	353.9	353.9	353.9	353.9	353.9	353.9	353.9
130°	389.7	389.7	389.7	389.7	389.7	389.7	389.7	389.7	389.7	389.7	389.7
132.5°	425.5	425.3	425.1	424.9	424.7	424.5	424.3	424.1	423.9	423.7	423.5
135°	458.3	458.2	458.1	458.0	457.9	457.8	457.7	457.6	457.5	457.4	457.3
137.5°	485.9	486.0	486.1	486.2	486.3	486.4	486.5	486.6	486.7	486.8	486.9
140°	513.5	513.7	513.9	514.1	514.3	514.5	514.7	515.0	515.2	515.4	515.6
142.5°	545.2	545.2	545.2	545.2	545.2	545.2	545.2	545.2	545.2	545.2	545.2
145°	574.9	574.8	574.7	574.6	574.5	574.4	574.3	574.2	574.1	574.0	573.9
147.5°	598.4	598.5	598.6	598.7	598.8	598.9	599.0	599.1	599.2	599.3	599.4
150°	613.8	614.1	614.4	614.7	615.0	615.3	615.6	615.9	616.2	616.5	616.8
152.5°	628.1	628.5	628.9	629.3	629.7	630.1	630.5	631.0	631.4	631.8	632.2
155°	645.5	646.0	646.5	647.0	647.5	648.0	648.6	649.1	649.6	650.1	650.6
157.5°	662.9	663.1	663.3	663.5	663.7	663.9	664.1	664.3	664.5	664.7	664.9
160°	679.2	678.9	678.6	678.3	678.0	677.7	677.4	677.1	676.8	676.5	676.2
162.5°	686.4	686.3	686.2	686.1	686.0	685.9	685.8	685.7	685.6	685.5	685.4
165°	692.5	692.8	693.2	693.5	693.8	694.1	694.4	694.7	695.0	695.3	695.6
167.5°	699.7	700.1	700.5	700.9	701.3	701.7	702.2	702.6	703.0	703.4	703.8
170°	704.8	705.3	705.8	706.3	706.9	707.4	707.9	708.4	708.9	709.4	709.9
172.5°	707.9	708.1	708.3	708.5	708.7	708.9	709.1	709.3	709.5	709.7	709.9
175°	711.0	711.1	711.2	711.3	711.4	711.5	711.6	711.7	711.8	711.9	712.0
177.5°	715.0	715.2	715.5	715.7	715.9	716.1	716.3	716.5	716.7	716.9	717.1
180°	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1



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

CANDELA DISTRIBUTION (continued):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	355.6	355.6	355.6	355.6	355.6	355.6	355.6	355.6	355.6	355.6	355.6
2.5°	362.2	362.9	362.5	361.1	360.7	360.7	360.0	359.6	358.9	358.5	359.3
5°	368.9	368.9	367.8	366.3	364.8	364.5	364.1	362.2	361.5	360.7	360.0
7.5°	375.2	374.5	373.0	370.4	368.9	368.6	367.0	365.2	363.4	361.8	361.1
10°	381.9	381.2	378.2	376.3	373.4	373.0	370.4	368.2	366.3	364.5	362.9
12.5°	391.5	390.8	387.5	383.0	380.7	379.3	375.9	373.4	370.7	368.6	365.9
15°	406.4	403.5	401.2	396.7	393.4	390.5	386.4	382.6	378.9	375.2	373.0
17.5°	427.2	423.1	417.2	414.5	410.1	405.3	399.7	397.1	392.3	387.8	383.4
20°	454.3	450.2	440.9	437.5	431.3	424.2	419.7	414.2	410.1	403.0	398.2
22.5°	484.3	480.6	471.7	462.8	456.8	451.3	444.3	437.2	429.3	422.7	417.5
25°	523.2	517.7	509.9	501.0	492.1	484.3	474.6	464.6	458.0	448.7	441.3
27.5°	576.3	566.7	553.7	544.1	537.0	525.1	513.2	504.3	494.0	481.7	473.5
30°	633.8	623.1	613.5	602.3	590.4	579.0	562.6	549.6	538.5	525.5	512.2
32.5°	697.7	688.4	674.7	660.2	647.2	632.8	620.8	607.1	587.9	574.1	560.1
35°	761.9	751.2	737.0	724.8	709.9	695.1	681.7	663.6	646.1	626.5	606.8
37.5°	823.9	814.6	799.0	780.5	767.5	751.6	737.8	718.5	697.7	675.8	660.9
40°	892.9	878.1	867.3	845.8	832.4	814.6	794.9	780.1	760.1	736.3	715.1
42.5°	972.0	961.6	950.0	932.6	918.5	897.3	872.5	853.6	835.0	806.8	777.4
45°	1072.2	1065.5	1046.6	1032.5	1013.5	991.2	969.8	946.7	917.4	884.8	858.1
47.5°	1192.4	1187.2	1170.2	1150.1	1125.2	1095.2	1075.1	1043.6	1018.8	977.9	946.0
50°	1301.5	1304.1	1294.9	1264.1	1241.8	1211.7	1180.2	1152.7	1114.5	1072.2	1031.3
52.5°	1431.7	1429.2	1405.8	1388.8	1362.4	1326.1	1291.5	1256.2	1214.3	1170.5	1119.6
55°	1556.4	1564.3	1547.9	1523.8	1491.9	1441.0	1406.1	1360.5	1316.3	1268.2	1209.4
57.5°	1677.4	1702.3	1689.7	1661.2	1628.4	1591.7	1545.7	1494.5	1448.8	1385.8	1319.7
60°	1828.1	1861.2	1866.4	1847.8	1812.2	1769.5	1709.0	1668.9	1606.2	1547.9	1497.1
62.5°	2060.1	2135.0	2130.6	2139.5	2114.2	2087.9	2017.1	1974.0	1892.4	1850.4	1779.5
65°	2447.5	2502.9	2569.2	2567.0	2549.6	2486.5	2413.0	2341.0	2287.2	2204.5	2130.6
67.5°	2772.6	2818.2	2857.6	2837.2	2797.2	2726.3	2640.1	2539.9	2457.9	2366.6	2269.7
69°	2803.1	2858.7	2881.8	2856.5	2784.5	2692.1	2607.8	2514.7	2401.9	2323.5	2205.6
70°	2721.4	2776.3	2822.7	2757.8	2691.7	2601.6	2509.5	2412.6	2311.7	2227.5	2108.3
72.5°	2161.8	2223.7	2217.5	2210.4	2157.7	2067.5	1982.9	1930.9	1860.0	1758.4	1672.2
75°	1257.0	1285.5	1235.4	1288.1	1225.1	1134.1	1146.0	1087.4	1035.4	976.8	931.5
77.5°	493.6	518.8	492.4	484.0	455.7	449.4	402.3	407.9	384.5	338.5	317.3
80°	187.0	190.4	186.0	176.7	174.8	164.1	161.1	150.7	145.9	130.6	125.1
82.5°	100.6	102.4	99.4	96.5	94.2	88.0	83.9	76.1	71.6	66.8	66.4
85°	57.9	56.4	54.9	53.4	50.1	46.3	43.4	40.4	37.1	34.5	31.9
87.5°	30.4	30.8	31.2	29.7	27.4	24.4	22.6	21.5	18.9	17.8	16.7
90°	19.0	16.3	17.1	19.1	18.2	16.2	15.5	14.2	12.9	12.7	11.7
92.5°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
95°	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2
97.5°	9.1	9.0	8.9	8.8	8.7	8.6	8.5	8.4	8.3	8.2	8.2
100°	23.1	22.7	22.3	21.9	21.5	21.1	20.7	20.3	19.8	19.4	19.4
102.5°	42.7	42.4	42.0	41.7	41.4	41.1	40.8	40.5	40.2	39.9	39.7
105°	66.1	65.7	65.3	64.9	64.4	64.0	63.6	63.2	62.8	62.4	62.4
107.5°	91.8	91.5	91.1	90.8	90.5	90.2	89.9	89.6	89.3	89.0	88.8



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REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°	
110°	121.4	121.1	120.8	120.5	120.2	119.9	119.6	119.3	119.0	118.7	118.9	0°
112.5°	152.2	152.0	151.8	151.6	151.4	151.2	151.0	150.8	150.6	150.4	150.4	2.5°
115°	182.9	182.7	182.5	182.3	182.1	181.9	181.7	181.5	181.3	181.1	181.3	5°
117.5°	214.6	214.4	214.2	214.0	213.8	213.6	213.4	213.2	213.0	212.8	213.0	7.5°
120°	250.4	250.2	250.0	249.8	249.6	249.4	249.2	249.0	248.8	248.6	248.6	10°
122.5°	284.2	284.0	283.8	283.6	283.4	283.2	282.9	282.7	282.5	282.3	282.5	12.5°
125°	317.1	317.1	317.1	317.1	317.1	317.1	317.1	317.1	317.1	317.1	317.1	15°
127.5°	353.8	353.7	353.6	353.5	353.4	353.3	353.2	353.1	353.0	352.9	353.3	17.5°
130°	389.5	389.3	389.1	388.9	388.7	388.5	388.3	388.1	387.9	387.7	387.9	20°
132.5°	423.5	423.5	423.5	423.5	423.5	423.5	423.5	423.5	423.5	423.5	423.7	22.5°
135°	457.6	457.9	458.2	458.5	458.8	459.1	459.4	459.7	460.0	460.3	460.5	25°
137.5°	487.4	487.9	488.5	489.0	489.5	490.0	490.5	491.0	491.5	492.0	492.2	27.5°
140°	516.1	516.6	517.1	517.6	518.1	518.6	519.1	519.7	520.2	520.7	521.1	30°
142.5°	545.3	545.4	545.5	545.6	545.7	545.8	545.9	546.1	546.2	546.3	546.7	32.5°
145°	573.6	573.3	573.0	572.6	572.3	572.0	571.7	571.4	571.1	570.8	571.2	35°
147.5°	599.1	598.8	598.5	598.2	597.9	597.6	597.3	597.0	596.7	596.4	596.8	37.5°
150°	617.1	617.5	617.8	618.1	618.4	618.7	619.0	619.3	619.6	619.9	620.7	40°
152.5°	632.7	633.2	633.7	634.2	634.7	635.3	635.8	636.3	636.8	637.3	638.3	42.5°
155°	650.8	651.0	651.2	651.4	651.6	651.8	652.0	652.2	652.4	652.6	653.3	45°
157.5°	664.9	664.9	664.9	664.9	664.9	664.9	664.9	664.9	664.9	664.9	665.9	47.5°
160°	676.1	676.0	675.9	675.8	675.7	675.6	675.5	675.4	675.2	675.1	676.4	50°
162.5°	685.2	685.0	684.8	684.6	684.4	684.1	683.9	683.7	683.5	683.3	684.6	52.5°
165°	695.4	695.2	695.0	694.8	694.6	694.4	694.2	694.0	693.8	693.6	694.4	55°
167.5°	703.8	703.8	703.8	703.8	703.8	703.8	703.8	703.8	703.8	703.8	705.0	57.5°
170°	710.1	710.3	710.5	710.7	711.0	711.2	711.4	711.6	711.8	712.0	713.0	60°
172.5°	710.1	710.3	710.5	710.7	711.0	711.2	711.4	711.6	711.8	712.0	713.0	62.5°
175°	711.8	711.6	711.4	711.2	711.0	710.7	710.5	710.3	710.1	709.9	711.0	65°
177.5°	716.8	716.5	716.2	715.9	715.6	715.2	714.9	714.6	714.3	714.0	714.8	67.5°
180°	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	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°
355.6	355.6	355.6	355.6	355.6	355.6	355.6	355.6	355.6	355.6	355.6	110°	119.1
358.1	358.1	357.0	356.3	353.6	349.2	344.7	340.6	335.1	332.9	329.9	112.5°	150.4
359.3	358.5	357.4	355.9	350.7	340.3	329.6	318.0	306.2	295.4	282.7	115°	181.5
360.0	358.5	357.0	355.2	347.7	331.7	310.3	287.7	266.5	250.5	243.9	117.5°	213.2
360.4	359.3	357.4	354.8	344.4	320.7	286.1	253.5	234.9	228.6	227.5	120°	248.6
364.5	362.5	359.6	356.6	342.9	308.4	259.0	227.9	220.4	223.4	228.6	122.5°	282.7
369.6	367.4	363.7	360.7	342.2	292.5	232.7	213.4	215.9	224.1	232.7	125°	317.1
378.9	375.2	371.1	368.2	343.6	272.8	211.5	205.9	213.8	224.1	235.7	127.5°	353.7
392.6	387.5	382.6	377.5	345.9	248.3	199.0	201.1	210.4	221.6	234.2	130°	388.1
409.7	403.8	397.1	389.3	348.5	227.1	191.9	196.0	204.5	214.1	224.5	132.5°	423.9
432.7	424.5	416.0	406.4	352.2	204.1	185.6	190.0	195.2	200.8	205.9	135°	460.7
461.7	450.5	441.3	428.3	355.9	188.5	180.3	181.9	183.0	183.7	183.3	137.5°	492.4
500.2	483.2	472.4	456.4	360.0	180.3	174.4	172.6	170.7	168.1	165.1	140°	521.5
541.0	527.0	509.9	489.5	362.5	174.8	168.9	163.0	157.7	155.1	155.1	142.5°	547.1
588.6	571.1	549.6	524.1	359.3	168.9	161.4	153.6	150.7	154.1	152.9	145°	571.6
636.1	611.9	588.2	558.9	351.1	162.1	153.2	149.1	151.4	147.0	144.3	147.5°	597.2
688.4	661.7	628.7	594.5	339.2	155.1	149.1	151.4	143.6	138.4	140.7	150°	621.5
747.1	715.6	679.9	633.5	331.4	150.7	142.9	144.7	138.1	134.3	133.2	152.5°	639.3
826.9	781.9	738.6	683.9	337.4	143.6	130.6	138.1	134.3	131.0	128.1	155°	653.9
905.1	857.2	806.1	741.8	347.7	138.4	121.0	131.0	133.6	128.1	122.4	157.5°	667.0
983.9	933.0	873.2	801.6	360.4	135.1	113.5	122.4	131.8	125.1	120.6	160°	677.6
1066.6	1002.4	941.1	864.0	376.7	131.8	107.6	115.1	128.4	125.1	118.4	162.5°	685.8
1153.5	1077.7	1016.5	933.0	405.3	126.9	100.2	109.1	125.1	124.7	116.2	165°	695.2
1254.3	1186.8	1108.2	1023.2	445.0	121.3	93.5	104.6	122.1	123.2	113.5	167.5°	706.2
1426.2	1356.4	1261.4	1180.5	523.6	114.0	89.4	100.2	117.2	120.2	111.3	170°	714.0
1705.0	1609.9	1522.7	1447.0	658.4	103.5	86.4	95.3	112.1	116.5	109.5	172.5°	714.0
2024.4	1931.6	1826.3	1699.0	733.4	93.9	82.3	89.4	106.9	112.8	107.6	175°	712.0
2160.3	2038.9	1910.9	1759.9	661.7	86.1	77.9	83.9	101.0	107.6	105.1	177.5°	715.7
2098.0	1975.1	1826.3	1678.2	575.6	82.0	75.3	80.9	96.5	104.2	102.4	180°	716.1
1989.5	1866.0	1733.1	1555.4	514.0	79.8	73.4	79.1	94.6	102.4	101.0		
1573.5	1463.3	1340.9	1205.3	350.4	72.3	67.5	73.4	87.3	95.7	95.3		
833.9	801.6	711.1	631.7	181.5	64.5	61.3	67.2	80.5	89.4	89.4		
300.2	272.4	260.5	216.4	96.5	56.4	54.9	59.3	73.1	81.6	81.3		
113.5	110.6	99.1	92.8	61.3	46.0	46.3	50.8	64.2	72.3	72.0		
64.2	58.3	56.4	54.5	39.0	36.4	38.3	42.7	54.9	62.0	63.1		
30.8	28.5	27.8	26.0	25.6	27.8	30.1	33.8	43.8	52.4	51.2		
14.8	14.1	13.7	13.4	18.2	17.8	21.9	23.4	29.4	41.5	37.4		
12.0	12.0	11.7	10.8	12.4	15.1	16.3	17.2	19.4	32.3	27.8		
6.1	6.1	6.1	6.1	6.1	6.1	7.2	7.2	6.1	6.1	6.1		
7.2	7.2	7.2	7.2	7.2	7.2	8.2	7.2	7.2	7.2	7.2		
8.2	8.2	8.2	8.2	8.2	9.2	10.2	12.3	9.2	9.2	8.2		
19.4	19.4	19.4	19.4	19.4	23.5	26.6	29.7	21.5	12.3	10.2		
39.5	39.3	39.1	38.9	39.9	43.0	48.1	51.1	40.9	27.6	18.4		
62.4	62.4	62.4	62.4	62.4	66.5	71.6	73.7	64.4	49.1	36.8		
88.6	88.4	88.2	88.0	89.0	92.1	96.2	97.2	90.0	74.7	59.3		

'226345
 ISW-AF-350-LED-E1-T2-ULG

REPORT NUMBER: P226345
 CATALOG NUMBER: ISW-AF-3!

TION (continued):

CANDELA DISTRIBUTION (con

88°	89°	90°	95°	105°	115°	125°	135°	145°	155°		165°	175°
119.3	119.5	119.7	118.7	121.7	123.8	122.8	116.6	104.3	89.0	0°	355.6	355.6
150.4	150.4	150.4	150.4	152.4	153.4	151.4	146.3	137.1	123.8	2.5°	327.3	322.1
181.7	181.9	182.1	181.1	183.1	186.2	183.1	178.0	171.9	162.6	5°	273.5	272.8
213.4	213.6	213.8	212.8	214.8	219.9	215.8	209.7	206.6	201.5	7.5°	239.8	234.9
248.6	248.6	248.6	248.6	250.6	255.7	251.6	248.6	242.4	238.3	10°	228.6	228.2
282.9	283.2	283.4	282.3	284.4	289.5	285.4	283.4	277.2	273.1	12.5°	233.4	234.6
317.1	317.1	317.1	317.1	317.1	322.2	320.2	317.1	312.0	305.9	15°	239.8	241.9
354.1	354.6	355.0	352.9	353.9	353.9	352.9	347.8	346.8	340.6	17.5°	243.9	247.9
388.3	388.5	388.7	387.7	389.7	389.7	385.7	380.5	378.5	374.4	20°	242.7	247.6
424.1	424.3	424.5	423.5	423.5	425.5	420.4	414.3	413.3	410.2	22.5°	230.5	232.7
460.9	461.1	461.4	460.3	457.3	458.3	453.2	447.0	445.0	441.9	25°	208.6	209.3
492.7	492.9	493.1	492.0	486.9	485.9	483.9	478.7	474.6	470.6	27.5°	182.2	181.5
521.9	522.3	522.7	520.7	515.6	513.5	511.5	508.4	502.3	500.2	30°	163.7	158.9
547.5	547.9	548.3	546.3	545.2	545.2	539.1	537.0	533.0	529.9	32.5°	155.1	152.1
572.0	572.4	572.9	570.8	573.9	574.9	568.8	563.6	562.6	559.6	35°	149.1	144.3
597.6	598.0	598.4	596.4	599.4	598.4	593.3	588.2	587.2	587.2	37.5°	154.8	154.4
622.4	623.2	624.0	619.9	616.8	613.8	610.7	606.6	606.6	606.6	40°	160.0	159.2
640.4	641.4	642.4	637.3	632.2	628.1	625.0	624.0	624.0	623.0	42.5°	151.1	144.3
654.5	655.1	655.7	652.6	650.6	645.5	640.4	642.4	644.5	641.4	45°	134.7	126.9
668.0	669.0	670.0	664.9	664.9	662.9	658.8	659.8	660.8	658.8	47.5°	123.6	119.2
678.8	680.1	681.3	675.1	676.2	679.2	673.1	670.0	670.0	671.1	50°	118.4	116.9
687.0	688.2	689.5	683.3	685.4	686.4	682.3	678.2	676.2	680.3	52.5°	116.9	120.6
696.0	696.8	697.7	693.6	695.6	692.5	687.4	688.4	688.4	691.5	55°	116.2	120.2
707.5	708.7	709.9	703.8	703.8	699.7	693.6	700.7	703.8	701.7	57.5°	111.0	118.0
715.0	716.1	717.1	712.0	709.9	704.8	701.7	706.9	708.9	707.9	60°	107.2	115.8
715.0	716.1	717.1	712.0	709.9	707.9	704.8	705.8	705.8	708.9	62.5°	105.1	114.7
713.0	714.0	715.0	709.9	712.0	711.0	705.8	705.8	706.9	711.0	65°	103.2	115.4
716.5	717.3	718.1	714.0	717.1	715.0	709.9	711.0	713.0	715.0	67.5°	100.2	117.6
716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	69°	98.7	117.2
										70°	97.3	116.2
										72.5°	92.1	107.2
										75°	85.7	94.6
										77.5°	77.5	81.3
										80°	68.6	70.9
										82.5°	59.7	68.3
										85°	46.7	57.9
										87.5°	34.5	31.9
										90°	26.8	19.5
										92.5°	5.1	4.1
										95°	6.1	5.1
										97.5°	8.2	7.2
										100°	9.2	8.2
										102.5°	13.3	11.3
										105°	27.6	22.5
										107.5°	50.1	43.0

REPORT NUMBER: P226345

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

50-LED-E1-T2-ULG

tinued):

180°
355.6
323.3
270.6
235.3
229.3
233.8
242.7
249.4
248.7
234.6
210.0
184.4
162.5
155.5
146.6
156.2
160.7
145.9
126.9
118.4
116.2
121.7
119.9
118.4
116.2
114.3
114.0
114.7
113.2
111.3
100.2
90.2
81.3
71.6
60.5
45.3
34.5
17.4
4.1
5.1
7.2
8.2
11.3
21.5
41.9

CANDELA DISTRIBUTION (continued):

	165°	175°	180°
110°	75.7	69.6	67.5
112.5°	108.4	101.3	101.3
115°	150.4	142.2	143.2
117.5°	193.3	188.2	188.2
120°	231.2	228.1	230.2
122.5°	267.0	266.0	269.0
125°	302.8	300.7	304.8
127.5°	336.6	336.6	337.6
130°	370.3	369.3	371.3
132.5°	402.0	403.0	405.1
135°	435.8	435.8	438.8
137.5°	469.5	467.5	470.6
140°	498.2	496.1	499.2
142.5°	528.9	526.8	529.9
145°	556.5	558.5	562.6
147.5°	584.1	585.1	588.2
150°	606.6	605.6	608.7
152.5°	622.0	622.0	625.0
155°	639.3	639.3	643.4
157.5°	657.8	657.8	660.8
160°	674.1	675.1	678.2
162.5°	684.4	684.4	688.4
165°	691.5	693.6	696.6
167.5°	699.7	702.8	705.8
170°	707.9	711.0	714.0
172.5°	711.0	713.0	715.0
175°	713.0	714.0	716.1
177.5°	716.1	721.2	723.2
180°	716.1	716.1	716.1

(END OF F

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

Scaled Data Report

