

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: P226751

Luminaire Tested: **ISW-AF-800-LED-E1-SL2-8030-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P226751
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35945)-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-800-LED-E1-SL2-8030-ULG
Description: IMPACT ELITE LED WEDGE LUMINAIRE WITH UPLIGHT
LIGHT SQUARE WITH ACCULED OPTICS-TYPE II W/SPILL CONTROL, 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: 5775.5 lumens
Efficiency: N/A
Efficacy: 95.9 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 0.54')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B1 - U5 - G1

Input Watts (W): 60.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

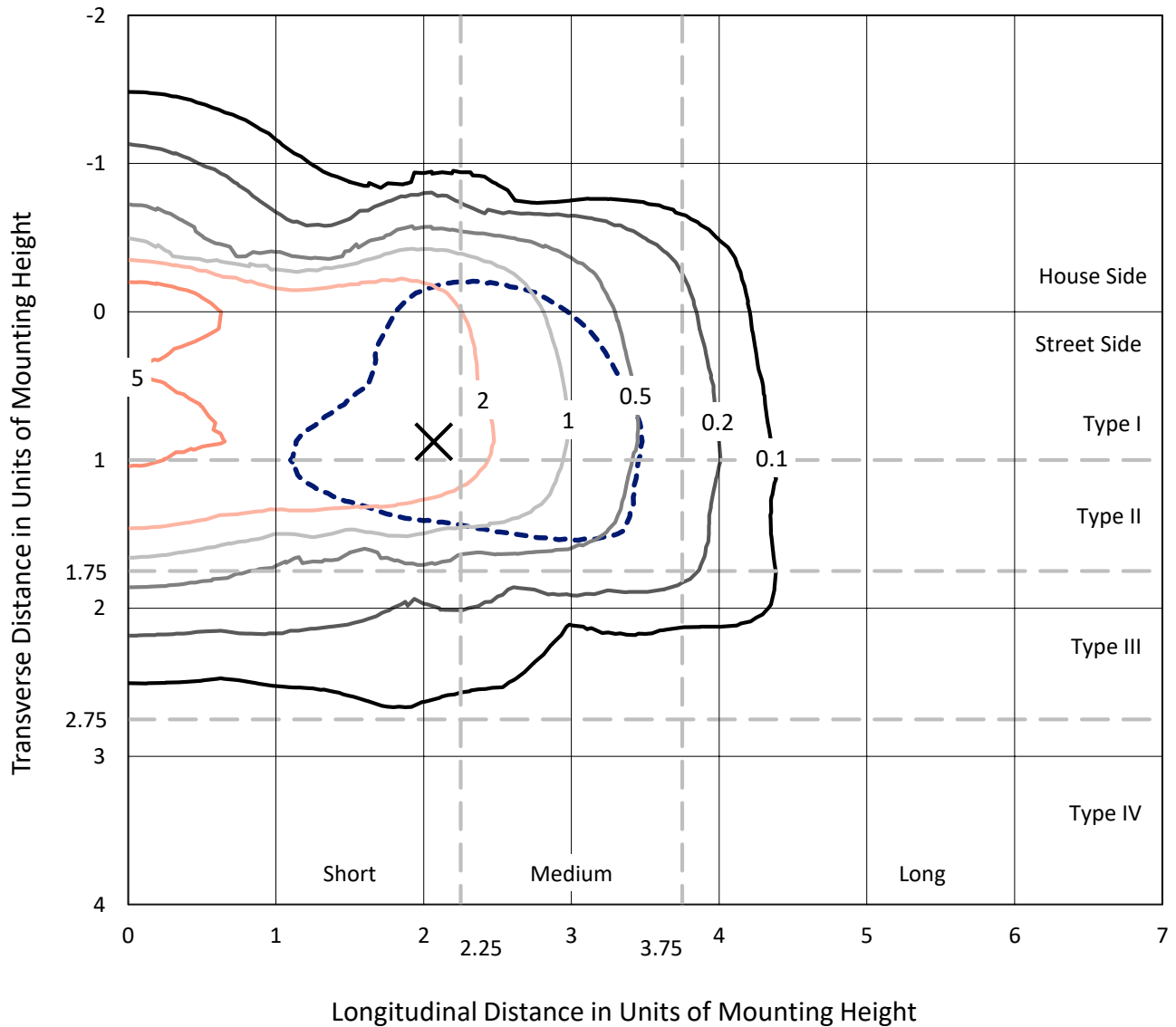


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Iso-Footcandle Lines of Horizontal Illumination

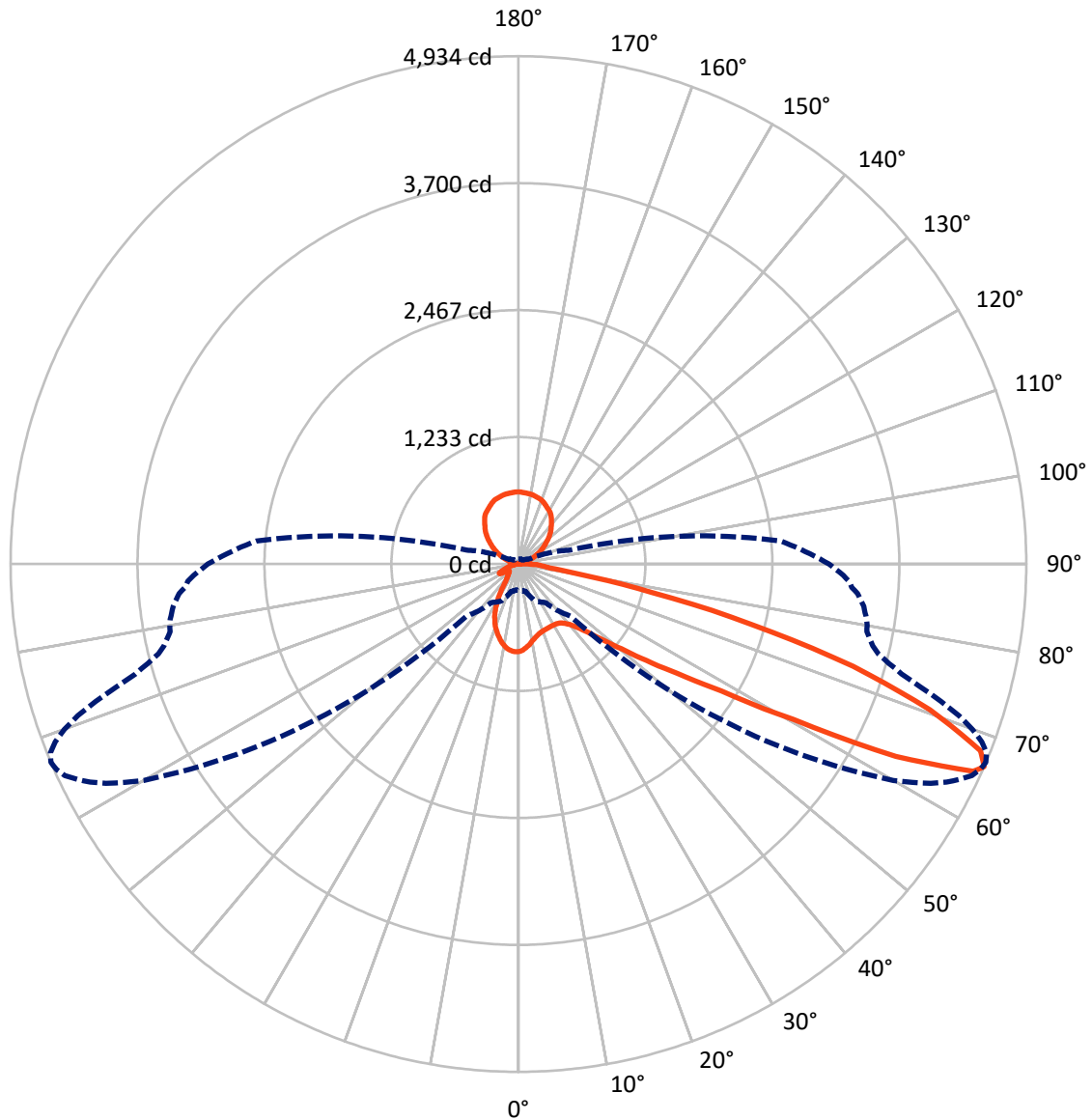
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.5 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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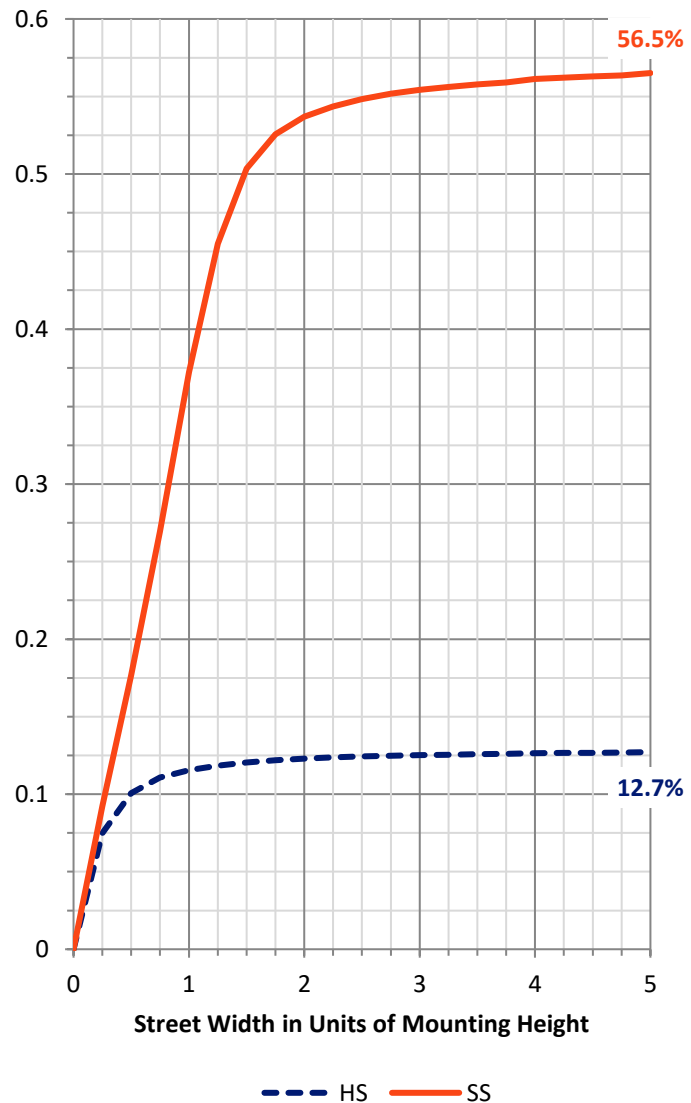
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	746.3	867.9	1614.2
	% Fixture	12.9	15.0	27.9
Street Side	Lumens	3292.5	868.7	4161.3
	% Fixture	57.0	15.0	72.1
Total	Lumens	4038.8	1736.6	5775.5
	% Fixture	69.9	30.1	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.7	1.3
10°-20°	175.5	3.0
20°-30°	240.6	4.2
30°-40°	343.8	6.0
40°-50°	557.4	9.7
50°-60°	883.2	15.3
60°-70°	1119.2	19.4
70°-80°	556.3	9.6
80°-90°	89.1	1.5
90°-100°	10.7	0.2
100°-110°	57.4	1.0
110°-120°	166.1	2.9
120°-130°	273.2	4.7
130°-140°	336.8	5.8
140°-150°	344.6	6.0
150°-160°	290.3	5.0
160°-170°	191.2	3.3
170°-180°	66.3	1.1
0°-90°	4038.8	69.9
0°-180°	5775.5	100.0



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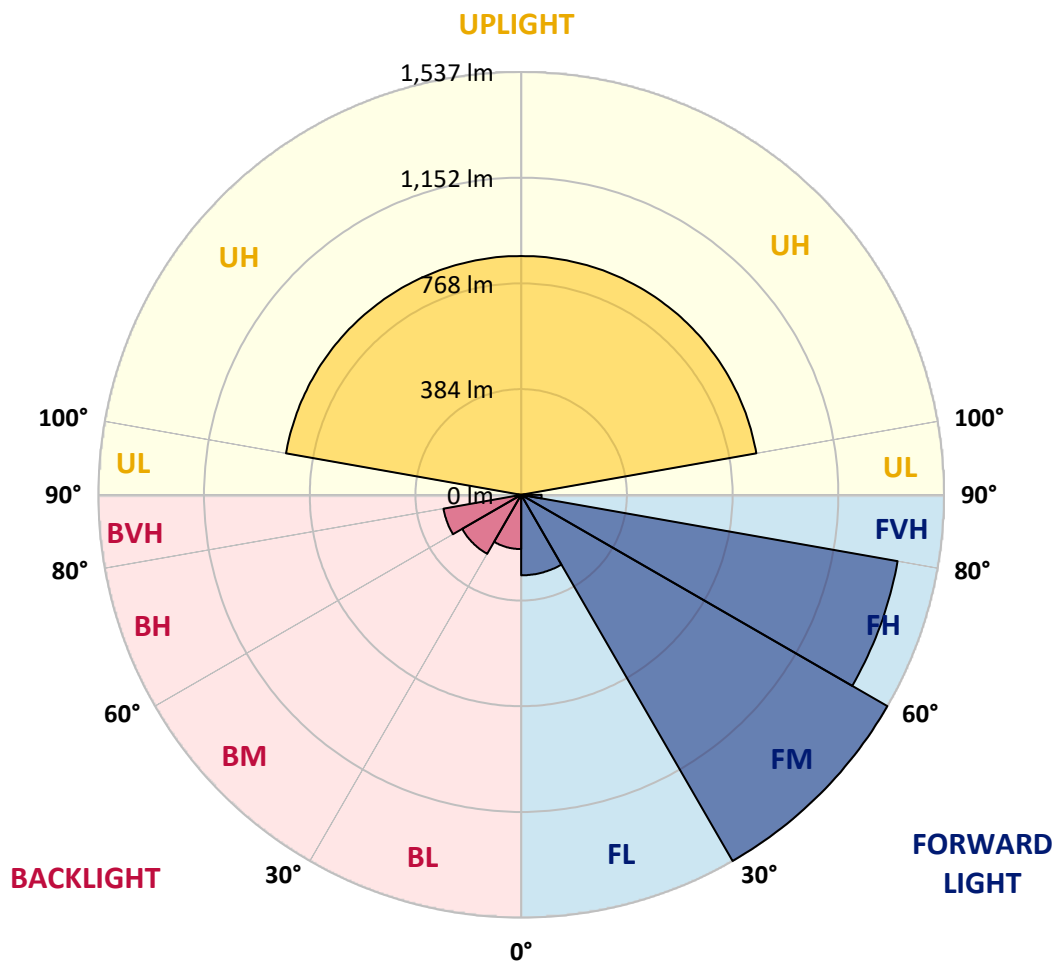
CATALOG NUMBER: ISW-AF-800-LED-E1-SL2-8030-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	292.6	5.1			
FM	(30°-60°)	1536.6	26.6			
FH	(60°-80°)	1388.9	24.0			G1/1800
FVH	(80°-90°)	74.4	1.3			G1/100
BL	(0°-30°)	197.2	3.4	B1/500		
BM	(30°-60°)	247.8	4.3	B1/1000		
BH	(60°-80°)	286.6	5.0	B1/500		G1/500
BVH	(80°-90°)	14.7	0.3			G1/100
UL	(90°-100°)	10.7	0.2		U2/50	
UH	(100°-180°)	867.9	15.0		U4/1000	

BUG Rating: B1-U5-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	63°
0°	850.2	850.2	850.2	850.2	850.2	850.2	850.2	850.2	850.2	850.2	850.2
2.5°	790.1	792.0	802.3	807.7	815.6	818.1	827.2	830.8	833.8	833.2	833.2
5°	719.1	724.6	729.5	740.4	751.9	765.9	783.5	796.8	799.2	802.3	804.1
7.5°	665.1	668.8	677.3	685.2	699.7	719.1	744.0	761.0	764.7	765.9	770.1
10°	626.9	629.3	636.6	646.9	663.9	682.7	708.8	726.4	731.9	734.3	738.0
12.5°	597.2	600.8	607.5	618.4	636.6	656.0	683.3	700.9	704.6	707.6	713.1
15°	578.3	580.8	586.8	599.0	615.4	634.8	661.5	682.7	685.2	688.2	693.0
17.5°	574.7	576.5	580.2	589.3	602.0	620.8	648.1	665.7	670.0	674.2	679.1
20°	589.3	590.5	591.7	592.9	600.2	612.3	639.0	657.8	661.5	665.1	671.2
22.5°	620.8	622.6	619.6	615.4	609.9	612.3	634.8	654.2	656.6	660.3	665.1
25°	675.4	673.6	664.5	657.8	638.4	622.6	636.0	652.4	655.4	659.1	664.5
27.5°	739.8	737.3	731.9	713.7	681.5	649.3	643.3	655.4	657.2	660.3	665.1
30°	809.0	809.6	804.7	784.7	743.4	689.4	659.7	662.7	663.9	666.3	669.4
32.5°	871.5	880.6	880.0	878.7	819.9	743.4	691.2	679.1	677.3	679.1	680.3
35°	943.7	945.5	962.5	971.0	923.0	822.3	737.3	710.6	703.4	704.0	702.8
37.5°	1021.4	1023.8	1052.9	1067.5	1030.5	912.1	798.6	757.4	750.7	744.0	739.2
40°	1134.2	1143.9	1159.1	1175.5	1157.3	1032.9	879.4	823.5	806.5	805.3	795.6
42.5°	1302.9	1299.9	1292.6	1306.0	1284.1	1168.2	977.1	917.0	904.2	887.2	873.9
45°	1468.6	1475.3	1443.7	1449.8	1451.0	1324.8	1118.5	1034.1	1027.4	1007.4	992.8
47.5°	1580.3	1573.0	1530.5	1561.5	1637.3	1507.5	1282.3	1193.7	1179.8	1169.4	1160.3
50°	1586.4	1580.3	1553.0	1607.6	1769.6	1832.1	1510.5	1407.3	1387.3	1369.1	1363.6
52.5°	1438.3	1429.8	1438.9	1549.9	1817.6	2104.0	1832.7	1672.5	1656.1	1641.0	1619.7
55°	1174.3	1184.0	1227.1	1386.7	1744.1	2297.0	2466.9	2082.2	2011.8	2011.2	1959.0
57.5°	876.9	867.2	899.4	1049.3	1558.4	2365.6	3049.5	2954.2	2797.1	2690.9	2562.8
60°	591.7	594.1	623.9	700.9	1084.5	2290.9	3439.7	3771.7	3716.5	3694.0	3659.4
62.5°	410.2	413.9	441.2	513.4	634.2	1843.1	3553.8	4229.9	4328.8	4410.7	4390.7
65°	287.0	287.7	315.0	426.6	475.2	946.7	3302.0	4290.6	4438.0	4578.8	4705.1
66°	253.1	253.7	276.1	396.9	455.8	714.3	3083.5	4206.2	4374.3	4538.2	4668.6
67.5°	216.7	220.3	237.9	337.4	436.9	551.0	2547.0	3954.4	4130.3	4310.6	4482.9
70°	148.7	149.9	165.7	273.7	409.0	483.7	1451.6	3087.1	3330.5	3647.3	3830.6
72.5°	106.2	105.0	106.8	169.3	420.0	480.6	762.8	2031.8	2372.2	2650.2	2848.6
75°	94.7	91.6	83.7	105.0	306.5	524.9	511.0	1196.1	1455.3	1708.3	1911.6
77.5°	84.4	79.5	75.3	80.7	151.7	494.6	458.8	685.2	817.5	1006.2	1162.8
80°	64.3	61.3	63.7	69.8	91.0	455.2	455.8	455.8	491.6	553.5	615.4
82.5°	42.5	38.8	44.3	57.7	68.6	342.9	470.9	402.4	395.7	393.3	397.5
85°	26.7	23.1	31.0	43.1	52.8	179.0	483.1	424.8	393.9	364.1	334.4
87.5°	9.7	10.9	15.8	24.9	34.6	77.7	423.6	374.4	353.2	316.2	281.6
90°	7.4	6.8	10.0	15.3	15.9	21.6	71.9	111.8	70.1	39.4	33.5
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	7.8
97.5°	7.0	7.0	8.0	8.0	9.0	9.0	12.0	11.0	10.8	10.6	10.4
100°	8.0	8.0	9.0	10.0	12.0	21.0	29.0	27.5	27.2	26.9	26.6
102.5°	11.0	11.0	13.0	18.0	27.0	40.0	50.0	48.5	48.2	47.9	47.6
105°	21.0	22.0	27.0	36.0	48.0	63.0	72.0	71.0	70.8	70.6	70.4
107.5°	41.0	42.0	49.0	58.0	73.0	88.0	95.0	94.5	94.4	94.3	94.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	63°
110°	66.0	68.0	74.0	87.0	102.0	114.0	120.0	120.5	120.6	120.7	120.8
112.5°	99.0	99.0	106.0	121.0	134.0	143.0	148.0	149.0	149.2	149.4	149.6
115°	140.0	139.0	147.0	159.0	168.0	174.0	179.0	180.5	180.8	181.1	181.4
117.5°	184.0	184.0	189.0	197.0	202.0	205.0	211.0	213.0	213.4	213.8	214.2
120°	225.0	223.0	226.0	233.0	237.0	243.0	246.0	248.0	248.4	248.8	249.2
122.5°	263.0	260.0	261.0	267.0	271.0	277.0	279.0	281.0	281.4	281.8	282.2
125°	298.0	294.0	296.0	299.0	305.0	310.0	313.0	314.0	314.2	314.4	314.6
127.5°	330.0	329.0	329.0	333.0	339.0	340.0	345.0	345.5	345.6	345.7	345.8
130°	363.0	361.0	362.0	366.0	370.0	372.0	377.0	379.0	379.4	379.8	380.2
132.5°	396.0	394.0	393.0	401.0	404.0	405.0	411.0	413.5	414.0	414.5	415.0
135°	429.0	426.0	426.0	432.0	435.0	437.0	443.0	445.5	446.0	446.5	447.0
137.5°	460.0	457.0	459.0	460.0	464.0	468.0	473.0	474.0	474.2	474.4	474.6
140°	488.0	485.0	487.0	489.0	491.0	497.0	500.0	501.0	501.2	501.4	501.6
142.5°	518.0	515.0	517.0	518.0	521.0	525.0	527.0	530.0	530.6	531.2	531.8
145°	550.0	546.0	544.0	547.0	550.0	551.0	556.0	559.0	559.6	560.2	560.8
147.5°	575.0	572.0	571.0	574.0	574.0	575.0	580.0	582.5	583.0	583.5	584.0
150°	595.0	592.0	593.0	593.0	593.0	593.0	597.0	598.5	598.8	599.1	599.4
152.5°	611.0	608.0	608.0	609.0	610.0	610.0	611.0	612.5	612.8	613.1	613.4
155°	629.0	625.0	625.0	627.0	630.0	628.0	626.0	628.5	629.0	629.5	630.0
157.5°	646.0	643.0	643.0	644.0	646.0	645.0	644.0	646.0	646.4	646.8	647.2
160°	663.0	660.0	659.0	656.0	655.0	655.0	658.0	661.0	661.6	662.2	662.8
162.5°	673.0	669.0	669.0	665.0	661.0	663.0	667.0	669.0	669.4	669.8	670.2
165°	681.0	678.0	676.0	676.0	673.0	673.0	672.0	674.5	675.0	675.5	676.0
167.5°	690.0	687.0	684.0	686.0	688.0	685.0	678.0	681.0	681.6	682.2	682.8
170°	698.0	695.0	692.0	692.0	693.0	691.0	686.0	687.5	687.8	688.1	688.4
172.5°	699.0	697.0	695.0	693.0	690.0	690.0	689.0	690.5	690.8	691.1	691.4
175°	700.0	698.0	697.0	695.0	691.0	690.0	690.0	692.5	693.0	693.5	694.0
177.5°	707.0	705.0	700.0	699.0	697.0	695.0	694.0	696.5	697.0	697.5	698.0
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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CANDELA DISTRIBUTION (continued):

	64°	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°
0°	850.2	850.2	850.2	850.2	850.2	850.2	850.2	850.2	850.2	850.2	850.2
2.5°	833.8	836.9	838.1	836.9	837.5	841.1	839.9	841.7	841.7	842.9	842.9
5°	806.5	809.0	813.8	813.2	818.1	819.9	821.7	824.1	827.2	829.0	832.6
7.5°	774.4	779.2	783.5	785.9	788.9	795.0	796.8	802.3	807.1	812.0	815.6
10°	743.4	750.1	754.9	756.8	763.4	766.5	773.2	777.4	783.5	789.5	795.0
12.5°	717.3	723.4	725.8	731.9	738.0	744.0	747.1	754.9	761.0	768.9	776.2
15°	697.9	704.0	708.8	713.1	719.1	725.2	730.1	738.0	745.2	753.1	759.8
17.5°	685.8	689.4	695.5	699.1	706.4	713.7	719.1	728.2	736.1	742.8	751.9
20°	676.7	680.9	686.4	691.8	698.5	707.6	712.5	722.2	730.7	738.6	747.1
22.5°	671.8	676.1	681.5	687.0	694.3	701.5	709.4	717.9	727.0	735.5	744.0
25°	670.0	673.6	678.5	683.9	691.8	699.7	706.4	716.1	724.0	733.1	743.4
27.5°	670.6	673.0	678.5	683.3	691.2	698.5	705.2	714.9	724.0	732.5	742.8
30°	673.0	674.8	680.3	684.5	691.2	698.5	704.6	714.9	722.8	731.9	742.8
32.5°	681.5	683.9	686.4	689.4	695.5	700.9	708.2	717.3	724.6	733.7	742.8
35°	701.5	699.7	701.5	702.8	707.0	712.5	717.9	725.8	732.5	740.4	750.1
37.5°	733.1	729.5	730.7	730.1	730.1	733.7	739.2	744.6	750.1	758.0	767.7
40°	791.4	782.3	779.8	773.2	771.3	774.4	778.0	778.6	785.3	795.6	799.9
42.5°	866.6	854.5	856.3	845.4	842.3	838.7	843.5	840.5	844.8	851.4	860.5
45°	985.6	974.0	961.9	944.3	947.9	934.6	930.9	932.2	931.5	934.0	944.9
47.5°	1127.6	1112.4	1104.5	1097.8	1085.1	1077.2	1066.9	1051.7	1055.3	1060.2	1069.9
50°	1335.1	1330.3	1315.1	1293.2	1290.2	1278.7	1275.6	1262.3	1257.4	1256.8	1256.2
52.5°	1612.4	1580.9	1574.8	1554.2	1538.4	1527.5	1523.8	1505.0	1486.2	1497.1	1495.9
55°	1950.5	1924.4	1891.0	1872.8	1860.1	1834.0	1827.3	1803.6	1792.7	1786.6	1771.4
57.5°	2518.5	2426.9	2358.3	2324.3	2276.4	2227.8	2210.8	2162.3	2124.6	2097.9	2099.8
60°	3508.9	3345.7	3153.3	3067.1	2867.5	2838.3	2701.2	2667.8	2585.3	2530.6	2499.1
62.5°	4376.7	4332.4	4240.2	4114.6	3914.3	3683.7	3579.9	3373.6	3212.2	3141.8	3044.1
65°	4791.2	4853.7	4879.2	4855.6	4775.4	4634.7	4510.9	4309.4	4038.7	3885.8	3695.8
66°	4770.0	4862.8	4909.6	4933.8	4904.7	4821.6	4691.7	4526.0	4316.7	4083.6	3870.6
67.5°	4614.6	4705.1	4770.0	4844.0	4844.0	4817.9	4765.1	4654.7	4506.6	4303.3	4112.1
70°	3979.8	4102.4	4217.1	4239.6	4302.7	4283.3	4325.2	4254.8	4219.6	4134.6	4032.0
72.5°	3100.5	3203.1	3301.4	3399.7	3383.3	3362.1	3357.8	3372.4	3300.8	3326.2	3299.5
75°	2062.1	2238.7	2339.5	2329.8	2336.4	2341.9	2297.0	2196.9	2274.5	2176.2	2209.0
77.5°	1253.2	1335.1	1362.4	1332.1	1292.6	1241.7	1159.7	1111.8	1043.2	1048.7	1003.2
80°	657.2	667.6	645.7	584.4	551.0	520.7	427.2	385.4	346.5	332.0	299.2
82.5°	376.9	352.0	325.3	304.6	265.2	238.5	202.1	179.0	154.1	132.3	124.4
85°	305.3	271.9	247.0	223.9	197.2	173.6	143.2	119.6	101.3	88.0	85.0
87.5°	251.9	228.8	203.3	181.5	155.4	131.1	101.3	78.9	62.5	50.4	46.7
90°	31.3	39.3	30.8	21.1	27.2	18.7	14.5	15.1	13.9	13.9	14.5
92.5°	7.0	7.0	6.9	6.8	6.7	6.6	6.5	6.4	6.3	6.2	6.1
95°	7.9	8.0	7.9	7.8	7.7	7.6	7.5	7.4	7.3	7.2	7.1
97.5°	10.2	10.0	9.9	9.8	9.7	9.6	9.5	9.4	9.3	9.2	9.1
100°	26.3	26.0	25.7	25.4	25.1	24.8	24.5	24.2	23.9	23.6	23.3
102.5°	47.3	47.0	46.5	46.0	45.5	45.0	44.5	44.0	43.5	43.0	42.5
105°	70.2	70.0	69.5	69.0	68.5	68.0	67.5	67.0	66.5	66.0	65.5
107.5°	94.1	94.0	93.6	93.2	92.8	92.4	92.0	91.6	91.2	90.8	90.4



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CATALOG NUMBER: ISW-AF-800-LED-E1-SL2-8030-ULG

CANDELA DISTRIBUTION (continued):

	64°	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°
110°	120.9	121.0	120.8	120.6	120.4	120.2	120.0	119.8	119.6	119.4	119.2
112.5°	149.8	150.0	149.9	149.8	149.7	149.6	149.5	149.4	149.3	149.2	149.1
115°	181.7	182.0	181.7	181.4	181.1	180.8	180.5	180.2	179.9	179.6	179.3
117.5°	214.6	215.0	214.5	214.0	213.5	213.0	212.5	212.0	211.5	211.0	210.5
120°	249.6	250.0	249.5	249.0	248.5	248.0	247.5	247.0	246.5	246.0	245.5
122.5°	282.6	283.0	282.5	282.0	281.5	281.0	280.5	280.0	279.5	279.0	278.5
125°	314.8	315.0	314.5	314.0	313.5	313.0	312.5	312.0	311.5	311.0	310.5
127.5°	345.9	346.0	346.0	346.0	346.0	346.0	346.0	346.0	346.0	346.0	346.0
130°	380.6	381.0	381.0	381.0	381.0	381.0	381.0	381.0	381.0	381.0	381.0
132.5°	415.5	416.0	415.8	415.6	415.4	415.2	415.0	414.8	414.6	414.4	414.2
135°	447.5	448.0	447.9	447.8	447.7	447.6	447.5	447.4	447.3	447.2	447.1
137.5°	474.8	475.0	475.1	475.2	475.3	475.4	475.5	475.6	475.7	475.8	475.9
140°	501.8	502.0	502.2	502.4	502.6	502.8	503.0	503.2	503.4	503.6	503.8
142.5°	532.4	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0
145°	561.4	562.0	561.9	561.8	561.7	561.6	561.5	561.4	561.3	561.2	561.1
147.5°	584.5	585.0	585.1	585.2	585.3	585.4	585.5	585.6	585.7	585.8	585.9
150°	599.7	600.0	600.3	600.6	600.9	601.2	601.5	601.8	602.1	602.4	602.7
152.5°	613.7	614.0	614.4	614.8	615.2	615.6	616.0	616.4	616.8	617.2	617.6
155°	630.5	631.0	631.5	632.0	632.5	633.0	633.5	634.0	634.5	635.0	635.5
157.5°	647.6	648.0	648.2	648.4	648.6	648.8	649.0	649.2	649.4	649.6	649.8
160°	663.4	664.0	663.7	663.4	663.1	662.8	662.5	662.2	661.9	661.6	661.3
162.5°	670.6	671.0	670.9	670.8	670.7	670.6	670.5	670.4	670.3	670.2	670.1
165°	676.5	677.0	677.3	677.6	677.9	678.2	678.5	678.8	679.1	679.4	679.7
167.5°	683.4	684.0	684.4	684.8	685.2	685.6	686.0	686.4	686.8	687.2	687.6
170°	688.7	689.0	689.5	690.0	690.5	691.0	691.5	692.0	692.5	693.0	693.5
172.5°	691.7	692.0	692.2	692.4	692.6	692.8	693.0	693.2	693.4	693.6	693.8
175°	694.5	695.0	695.1	695.2	695.3	695.4	695.5	695.6	695.7	695.8	695.9
177.5°	698.5	699.0	699.2	699.4	699.6	699.8	700.0	700.2	700.4	700.6	700.8
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):

	75°	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°
0°	850.2	850.2	850.2	850.2	850.2	850.2	850.2	850.2	850.2	850.2	850.2
2.5°	844.8	844.8	846.0	847.2	847.8	847.8	847.8	849.0	849.6	847.8	849.6
5°	834.4	837.5	839.9	841.7	842.3	844.2	846.0	847.2	849.0	849.0	850.2
7.5°	820.5	825.9	829.0	832.0	835.1	838.1	841.7	844.2	845.4	847.8	849.6
10°	802.9	809.6	815.6	820.5	824.7	830.8	835.7	839.3	844.8	845.4	849.6
12.5°	784.1	793.8	798.6	807.7	813.8	822.9	827.8	833.2	839.3	842.3	847.2
15°	770.7	779.2	788.3	796.8	806.5	817.5	823.5	830.8	839.3	846.0	852.0
17.5°	760.4	771.9	782.3	793.2	805.3	816.8	825.9	833.8	844.8	848.4	854.5
20°	757.4	770.1	780.4	792.0	804.7	819.9	830.8	839.3	850.2	856.3	861.8
22.5°	756.2	768.3	780.4	794.4	808.3	824.1	835.7	846.6	857.5	863.0	867.2
25°	754.9	767.7	781.0	796.8	812.0	828.4	841.7	852.0	862.4	867.8	871.5
27.5°	754.9	768.3	782.9	798.6	815.0	833.2	846.0	855.7	864.8	869.6	870.9
30°	754.3	768.3	782.3	799.9	817.5	836.3	850.2	859.3	867.2	870.2	869.0
32.5°	755.6	770.1	785.3	802.9	821.1	839.3	853.9	864.2	868.4	867.8	867.2
35°	761.6	775.0	792.6	810.2	829.0	846.0	859.9	867.2	870.9	869.6	866.6
37.5°	778.0	791.4	809.0	828.4	842.9	862.4	875.1	880.6	881.2	877.5	870.2
40°	812.0	825.3	841.1	862.4	880.0	893.3	905.4	911.5	907.9	901.2	893.3
42.5°	866.0	883.0	901.8	918.8	939.4	957.6	960.7	964.3	958.2	945.5	935.8
45°	952.8	963.1	987.4	1000.1	1026.8	1035.9	1042.6	1044.4	1031.1	1020.8	1003.8
47.5°	1077.8	1097.8	1114.8	1127.0	1146.4	1158.5	1171.9	1165.8	1155.5	1137.9	1115.4
50°	1274.4	1287.2	1309.0	1330.9	1351.5	1360.0	1360.0	1353.9	1347.2	1313.3	1286.0
52.5°	1516.0	1517.2	1548.7	1574.8	1592.4	1579.7	1594.9	1579.7	1575.4	1551.8	1529.3
55°	1795.7	1784.2	1822.4	1845.5	1861.3	1876.4	1873.4	1871.6	1855.8	1829.1	1801.8
57.5°	2061.5	2094.9	2113.1	2147.1	2155.0	2165.3	2161.1	2155.0	2145.9	2130.7	2118.6
60°	2445.1	2467.5	2483.9	2490.6	2513.0	2516.1	2531.2	2506.4	2512.4	2494.8	2456.6
62.5°	2967.0	2942.7	2955.5	2955.5	2948.8	2925.1	2937.9	2947.6	2931.2	2916.6	2910.5
65°	3551.4	3473.1	3397.9	3385.1	3350.5	3342.6	3332.9	3308.6	3298.3	3272.8	3252.2
66°	3726.2	3604.8	3533.8	3490.1	3448.2	3439.1	3425.8	3400.3	3379.7	3343.8	3309.3
67.5°	3922.2	3765.6	3658.8	3596.9	3545.3	3511.3	3484.6	3448.2	3415.5	3362.1	3306.8
70°	3909.4	3780.2	3651.5	3557.5	3479.8	3410.0	3368.7	3290.4	3223.7	3147.2	3084.1
72.5°	3285.0	3261.9	3187.3	3134.5	3039.2	3002.2	2892.9	2843.2	2750.9	2652.0	2621.7
75°	2283.6	2193.2	2155.0	2133.8	2091.9	1976.6	1901.3	1917.7	1809.7	1713.2	1658.0
77.5°	998.3	1016.5	910.9	863.6	827.2	764.7	706.4	666.3	643.3	628.1	559.5
80°	276.1	240.9	237.9	220.9	217.3	193.6	196.6	179.6	168.1	165.7	160.2
82.5°	120.8	118.3	114.7	112.9	111.1	108.6	105.6	105.0	101.3	98.3	98.9
85°	80.1	79.5	77.7	75.9	72.8	68.6	65.5	63.1	63.7	60.7	60.1
87.5°	46.7	45.5	44.9	42.5	41.9	38.2	38.8	35.8	35.2	34.6	32.8
90°	15.7	16.1	17.7	16.9	14.3	19.5	17.5	16.1	16.5	14.5	14.3
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°	9.0	8.9	8.8	8.7	8.6	8.5	8.4	8.3	8.2	8.1	8.0
100°	23.0	22.6	22.2	21.8	21.4	21.0	20.6	20.2	19.8	19.4	19.0
102.5°	42.0	41.7	41.4	41.1	40.8	40.5	40.2	39.9	39.6	39.3	39.0
105°	65.0	64.6	64.2	63.8	63.4	63.0	62.6	62.2	61.8	61.4	61.0
107.5°	90.0	89.7	89.4	89.1	88.8	88.5	88.2	87.9	87.6	87.3	87.0



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REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	75°	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	
110°	119.0	118.7	118.4	118.1	117.8	117.5	117.2	116.9	116.6	116.3	116.0	0°
112.5°	149.0	148.8	148.6	148.4	148.2	148.0	147.8	147.6	147.4	147.2	147.0	2.5°
115°	179.0	178.8	178.6	178.4	178.2	178.0	177.8	177.6	177.4	177.2	177.0	5°
117.5°	210.0	209.8	209.6	209.4	209.2	209.0	208.8	208.6	208.4	208.2	208.0	7.5°
120°	245.0	244.8	244.6	244.4	244.2	244.0	243.8	243.6	243.4	243.2	243.0	10°
122.5°	278.0	277.8	277.6	277.4	277.2	277.0	276.8	276.6	276.4	276.2	276.0	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°	346.0	345.9	345.8	345.7	345.6	345.5	345.4	345.3	345.2	345.1	345.0	17.5°
130°	381.0	380.8	380.6	380.4	380.2	380.0	379.8	379.6	379.4	379.2	379.0	20°
132.5°	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	22.5°
135°	447.0	447.3	447.6	447.9	448.2	448.5	448.8	449.1	449.4	449.7	450.0	25°
137.5°	476.0	476.5	477.0	477.5	478.0	478.5	479.0	479.5	480.0	480.5	481.0	27.5°
140°	504.0	504.5	505.0	505.5	506.0	506.5	507.0	507.5	508.0	508.5	509.0	30°
142.5°	533.0	533.1	533.2	533.3	533.4	533.5	533.6	533.7	533.8	533.9	534.0	32.5°
145°	561.0	560.7	560.4	560.1	559.8	559.5	559.2	558.9	558.6	558.3	558.0	35°
147.5°	586.0	585.7	585.4	585.1	584.8	584.5	584.2	583.9	583.6	583.3	583.0	37.5°
150°	603.0	603.3	603.6	603.9	604.2	604.5	604.8	605.1	605.4	605.7	606.0	40°
152.5°	618.0	618.5	619.0	619.5	620.0	620.5	621.0	621.5	622.0	622.5	623.0	42.5°
155°	636.0	636.2	636.4	636.6	636.8	637.0	637.2	637.4	637.6	637.8	638.0	45°
157.5°	650.0	650.0	650.0	650.0	650.0	650.0	650.0	650.0	650.0	650.0	650.0	47.5°
160°	661.0	660.9	660.8	660.7	660.6	660.5	660.4	660.3	660.2	660.1	660.0	50°
162.5°	670.0	669.8	669.6	669.4	669.2	669.0	668.8	668.6	668.4	668.2	668.0	52.5°
165°	680.0	679.8	679.6	679.4	679.2	679.0	678.8	678.6	678.4	678.2	678.0	55°
167.5°	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	57.5°
170°	694.0	694.2	694.4	694.6	694.8	695.0	695.2	695.4	695.6	695.8	696.0	60°
172.5°	694.0	694.2	694.4	694.6	694.8	695.0	695.2	695.4	695.6	695.8	696.0	62.5°
175°	696.0	695.8	695.6	695.4	695.2	695.0	694.8	694.6	694.4	694.2	694.0	65°
177.5°	701.0	700.7	700.4	700.1	699.8	699.5	699.2	698.9	698.6	698.3	698.0	66°
180°	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	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°

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REPORT NUMBER: P
 CATALOG NUMBER:

DISTRIBUTION (continued):

CANDELA DISTRIBUTION

86°	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	86°	
850.2	850.2	850.2	850.2	850.2	850.2	850.2	850.2	850.2	850.2	850.2	110°	116.2
851.4	852.7	853.3	852.7	853.9	853.3	853.9	853.3	850.2	849.6	849.0	112.5°	147.0
852.7	855.1	855.7	856.3	855.1	856.3	853.9	844.2	833.2	821.1	811.4	115°	177.2
853.9	856.9	858.7	858.7	859.3	858.1	849.0	827.8	802.3	776.8	757.4	117.5°	208.2
853.3	857.5	859.3	859.9	859.9	857.5	835.7	801.7	762.8	724.0	684.5	120°	243.0
851.4	855.1	858.1	858.1	858.7	850.2	816.2	767.7	712.5	654.2	601.4	122.5°	276.2
855.1	858.7	858.7	858.7	858.1	843.5	795.6	725.2	651.2	572.3	494.0	125°	310.0
860.5	862.4	861.1	861.1	858.7	836.9	772.5	683.3	586.2	481.9	372.6	127.5°	345.4
865.4	866.6	866.0	863.0	859.9	829.6	748.9	639.0	508.6	372.6	264.0	130°	379.2
870.2	871.5	868.4	863.6	859.3	819.9	720.4	582.6	420.6	254.9	174.8	132.5°	414.2
870.9	872.1	866.6	859.9	853.9	805.3	685.8	522.5	324.1	165.1	136.5	135°	450.2
870.2	869.0	859.9	851.4	844.8	787.7	647.5	447.9	216.0	124.4	118.9	137.5°	481.2
866.0	860.5	853.3	843.5	833.8	768.3	609.3	364.7	136.5	108.0	108.0	140°	509.4
859.9	854.5	845.4	832.6	821.7	749.5	565.6	279.8	109.2	99.5	100.7	142.5°	534.4
857.5	851.4	838.1	824.7	810.8	732.5	519.5	188.1	98.3	94.1	94.7	145°	558.4
862.4	852.0	838.7	823.5	807.1	717.9	471.5	131.1	92.9	88.0	89.2	147.5°	583.4
878.7	869.0	853.3	833.8	816.2	709.4	420.6	108.6	87.4	83.1	83.1	150°	606.8
918.2	905.4	884.2	861.1	839.9	714.9	375.0	98.9	83.1	78.9	78.9	152.5°	624.0
981.9	966.7	941.9	915.8	887.8	741.6	323.5	95.3	80.1	74.0	72.8	155°	638.6
1091.1	1071.1	1038.4	1007.4	974.0	787.7	271.3	92.9	76.5	71.0	68.6	157.5°	651.0
1262.9	1233.2	1194.3	1153.7	1113.0	872.1	230.0	90.4	74.0	68.6	66.1	160°	661.2
1483.8	1463.8	1415.2	1361.8	1313.3	1040.2	206.3	88.6	72.2	65.5	63.7	162.5°	669.2
1765.4	1732.6	1694.4	1646.4	1588.8	1258.0	203.9	88.0	70.4	63.1	61.9	165°	678.8
2062.7	2050.0	1985.1	1955.3	1892.8	1548.1	248.2	89.2	69.2	61.3	59.5	167.5°	689.2
2402.0	2406.8	2346.2	2313.4	2261.8	1915.9	395.1	92.9	69.2	59.5	57.7	170°	697.0
2845.6	2853.5	2781.9	2743.0	2699.4	2327.9	620.8	98.9	71.0	57.7	55.8	172.5°	697.0
3209.1	3166.6	3120.5	3052.5	2997.3	2558.0	597.8	109.8	73.4	55.8	54.0	175°	695.0
3246.7	3216.4	3158.1	3084.7	3017.4	2559.2	521.9	113.5	74.0	55.2	53.4	177.5°	698.8
3241.9	3187.9	3121.7	3059.8	2993.7	2493.6	403.6	118.3	75.9	54.0	52.2	180°	700.0
3017.4	2941.5	2877.2	2791.6	2722.4	2231.5	248.2	117.7	73.4	50.4	49.2		
2488.2	2449.3	2372.9	2304.3	2232.1	1806.0	169.9	105.0	64.9	45.5	46.1		
1609.4	1565.1	1487.4	1448.6	1407.9	1155.5	132.3	85.6	55.2	40.7	42.5		
537.1	519.5	491.0	506.7	483.1	450.3	97.1	64.9	44.3	35.2	37.6		
160.8	157.2	162.6	152.9	162.0	137.2	63.7	45.5	34.0	30.3	33.4		
95.3	94.1	94.1	94.1	91.6	85.6	41.9	31.6	26.1	25.5	27.9		
58.3	57.0	57.7	57.0	58.3	52.2	28.5	21.8	19.4	18.8	22.5		
33.4	33.4	34.0	32.8	33.4	32.2	20.0	14.0	12.7	12.1	16.4		
14.9	14.9	13.1	12.5	13.1	15.5	14.5	13.2	10.6	10.0	13.5		
6.0	6.0	6.0	6.0	6.0	6.0	6.0	7.0	7.0	6.0	6.0		
7.0	7.0	7.0	7.0	7.0	7.0	7.0	8.0	7.0	7.0	7.0		
8.0	8.0	8.0	8.0	8.0	8.0	9.0	10.0	12.0	9.0	9.0		
19.0	19.0	19.0	19.0	19.0	19.0	23.0	26.0	29.0	21.0	12.0		
38.8	38.6	38.4	38.2	38.0	39.0	42.0	47.0	50.0	40.0	27.0		
61.0	61.0	61.0	61.0	61.0	61.0	65.0	70.0	72.0	63.0	48.0		
86.8	86.6	86.4	86.2	86.0	87.0	90.0	94.0	95.0	88.0	73.0		

'226751
 ISW-AF-800-LED-E1-SL2-8030-ULG

REPORT NUMBER: P226751
 CATALOG NUMBER: ISW-AF-80

TION (continued):

CANDELA DISTRIBUTION (con

87°	88°	89°	90°	95°	105°	115°	125°	135°	145°		155°	165°
116.4	116.6	116.8	117.0	116.0	119.0	121.0	120.0	114.0	102.0	0°	850.2	850.2
147.0	147.0	147.0	147.0	147.0	149.0	150.0	148.0	143.0	134.0	2.5°	844.2	839.9
177.4	177.6	177.8	178.0	177.0	179.0	182.0	179.0	174.0	168.0	5°	796.2	784.7
208.4	208.6	208.8	209.0	208.0	210.0	215.0	211.0	205.0	202.0	7.5°	727.0	713.7
243.0	243.0	243.0	243.0	243.0	245.0	250.0	246.0	243.0	237.0	10°	648.1	628.1
276.4	276.6	276.8	277.0	276.0	278.0	283.0	279.0	277.0	271.0	12.5°	547.4	507.9
310.0	310.0	310.0	310.0	310.0	310.0	315.0	313.0	310.0	305.0	15°	430.9	378.1
345.8	346.2	346.6	347.0	345.0	346.0	346.0	345.0	340.0	339.0	17.5°	296.8	254.3
379.4	379.6	379.8	380.0	379.0	381.0	381.0	377.0	372.0	370.0	20°	208.2	192.4
414.4	414.6	414.8	415.0	414.0	414.0	416.0	411.0	405.0	404.0	22.5°	160.8	161.4
450.4	450.6	450.8	451.0	450.0	447.0	448.0	443.0	437.0	435.0	25°	133.5	139.6
481.4	481.6	481.8	482.0	481.0	476.0	475.0	473.0	468.0	464.0	27.5°	117.7	123.8
509.8	510.2	510.6	511.0	509.0	504.0	502.0	500.0	497.0	491.0	30°	108.0	113.5
534.8	535.2	535.6	536.0	534.0	533.0	533.0	527.0	525.0	521.0	32.5°	101.3	103.8
558.8	559.2	559.6	560.0	558.0	561.0	562.0	556.0	551.0	550.0	35°	93.5	94.7
583.8	584.2	584.6	585.0	583.0	586.0	585.0	580.0	575.0	574.0	37.5°	86.8	86.8
607.6	608.4	609.2	610.0	606.0	603.0	600.0	597.0	593.0	593.0	40°	80.7	80.1
625.0	626.0	627.0	628.0	623.0	618.0	614.0	611.0	610.0	610.0	42.5°	75.3	74.6
639.2	639.8	640.4	641.0	638.0	636.0	631.0	626.0	628.0	630.0	45°	69.8	70.4
652.0	653.0	654.0	655.0	650.0	650.0	648.0	644.0	645.0	646.0	47.5°	66.8	67.4
662.4	663.6	664.8	666.0	660.0	661.0	664.0	658.0	655.0	655.0	50°	63.7	64.3
670.4	671.6	672.8	674.0	668.0	670.0	671.0	667.0	663.0	661.0	52.5°	61.3	61.3
679.6	680.4	681.2	682.0	678.0	680.0	677.0	672.0	673.0	673.0	55°	58.9	58.3
690.4	691.6	692.8	694.0	688.0	688.0	684.0	678.0	685.0	688.0	57.5°	57.0	55.8
698.0	699.0	700.0	701.0	696.0	694.0	689.0	686.0	691.0	693.0	60°	55.2	54.0
698.0	699.0	700.0	701.0	696.0	694.0	692.0	689.0	690.0	690.0	62.5°	54.0	52.2
696.0	697.0	698.0	699.0	694.0	696.0	695.0	690.0	690.0	691.0	65°	52.8	51.6
699.6	700.4	701.2	702.0	698.0	701.0	699.0	694.0	695.0	697.0	66°	52.2	51.0
700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	67.5°	51.6	50.4
										70°	49.2	47.9
										72.5°	45.5	44.9
										75°	41.9	40.7
										77.5°	37.0	36.4
										80°	31.6	31.0
										82.5°	26.7	25.5
										85°	21.2	20.0
										87.5°	14.6	13.4
										90°	11.6	11.2
										92.5°	6.0	5.0
										95°	7.0	6.0
										97.5°	8.0	8.0
										100°	10.0	9.0
										102.5°	18.0	13.0
										105°	36.0	27.0
										107.5°	58.0	49.0



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tinued):

175°	180°
850.2	850.2
836.3	841.7
781.0	779.2
702.8	703.4
608.1	609.3
485.5	478.2
347.7	350.8
242.1	241.5
194.2	195.4
166.3	166.3
148.1	148.1
130.5	131.1
118.3	119.6
107.4	108.0
96.5	97.1
87.4	87.4
81.3	81.9
77.1	77.1
72.8	72.8
69.2	70.4
65.5	66.1
61.9	62.5
58.3	58.3
55.2	55.2
52.8	52.2
51.0	49.8
49.2	48.5
48.5	47.9
47.9	47.3
46.7	46.1
44.9	44.3
41.3	40.1
37.6	36.4
34.6	32.8
29.1	27.9
21.2	20.0
12.7	12.7
8.0	8.0
4.0	4.0
5.0	5.0
7.0	7.0
8.0	8.0
11.0	11.0
22.0	21.0
42.0	41.0

CANDELA DISTRIBUTION (continued):

	155°	165°	175°
110°	87.0	74.0	68.0
112.5°	121.0	106.0	99.0
115°	159.0	147.0	139.0
117.5°	197.0	189.0	184.0
120°	233.0	226.0	223.0
122.5°	267.0	261.0	260.0
125°	299.0	296.0	294.0
127.5°	333.0	329.0	329.0
130°	366.0	362.0	361.0
132.5°	401.0	393.0	394.0
135°	432.0	426.0	426.0
137.5°	460.0	459.0	457.0
140°	489.0	487.0	485.0
142.5°	518.0	517.0	515.0
145°	547.0	544.0	546.0
147.5°	574.0	571.0	572.0
150°	593.0	593.0	592.0
152.5°	609.0	608.0	608.0
155°	627.0	625.0	625.0
157.5°	644.0	643.0	643.0
160°	656.0	659.0	660.0
162.5°	665.0	669.0	669.0
165°	676.0	676.0	678.0
167.5°	686.0	684.0	687.0
170°	692.0	692.0	695.0
172.5°	693.0	695.0	697.0
175°	695.0	697.0	698.0
177.5°	699.0	700.0	705.0
180°	700.0	700.0	700.0



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180°
66.0
99.0
140.0
184.0
225.0
263.0
298.0
330.0
363.0
396.0
429.0
460.0
488.0
518.0
550.0
575.0
595.0
611.0
629.0
646.0
663.0
673.0
681.0
690.0
698.0
699.0
700.0
707.0
700.0

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