

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: P226759

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P226759
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-600-LED-E1-SL2-7030-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, 70 CRI LEDs and (1) UPLIGHT LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5236.7 lumens
Efficiency: N/A
Efficacy: 103.9 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): 50.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

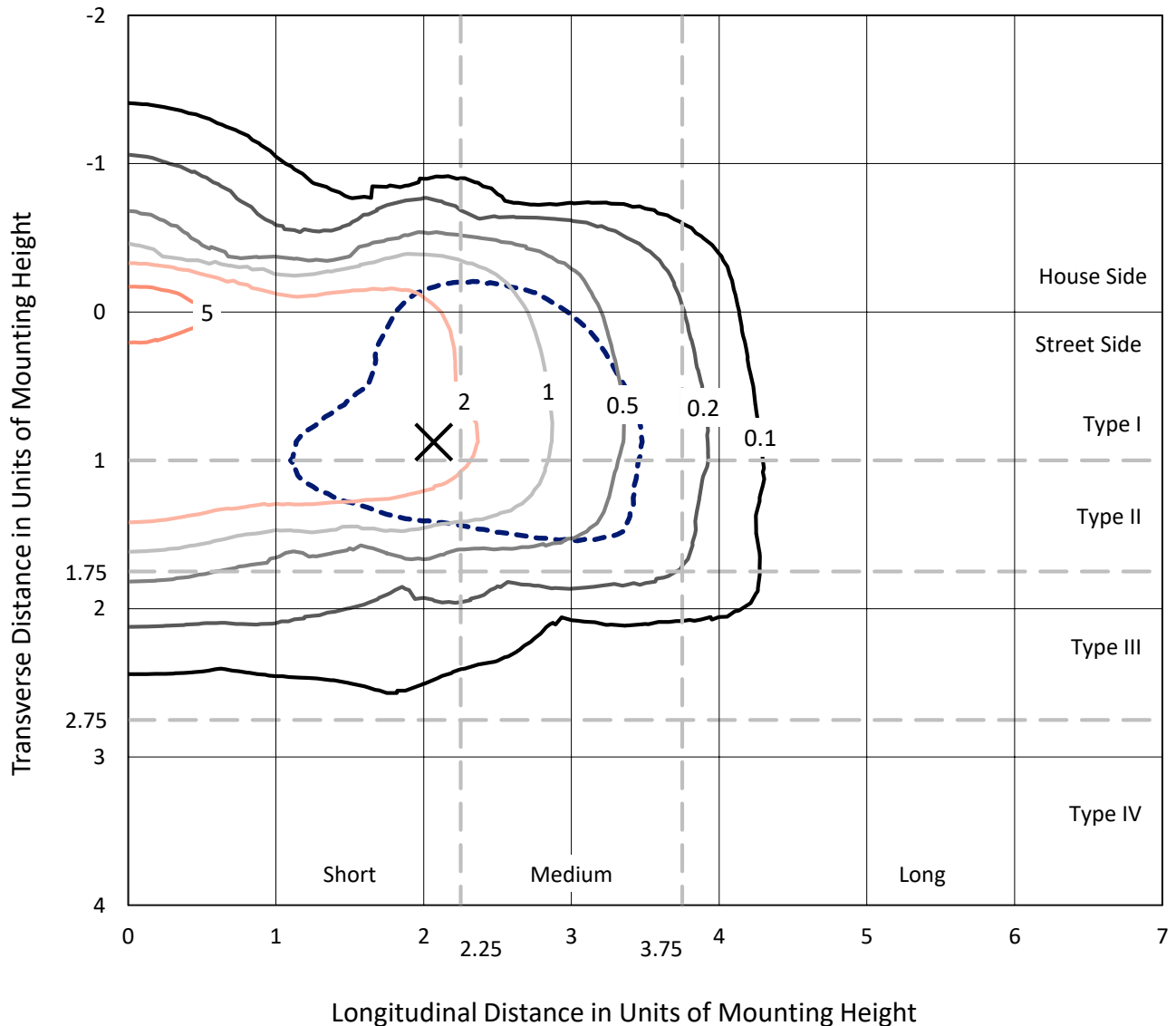


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Iso-Footcandle Lines of Horizontal Illumination

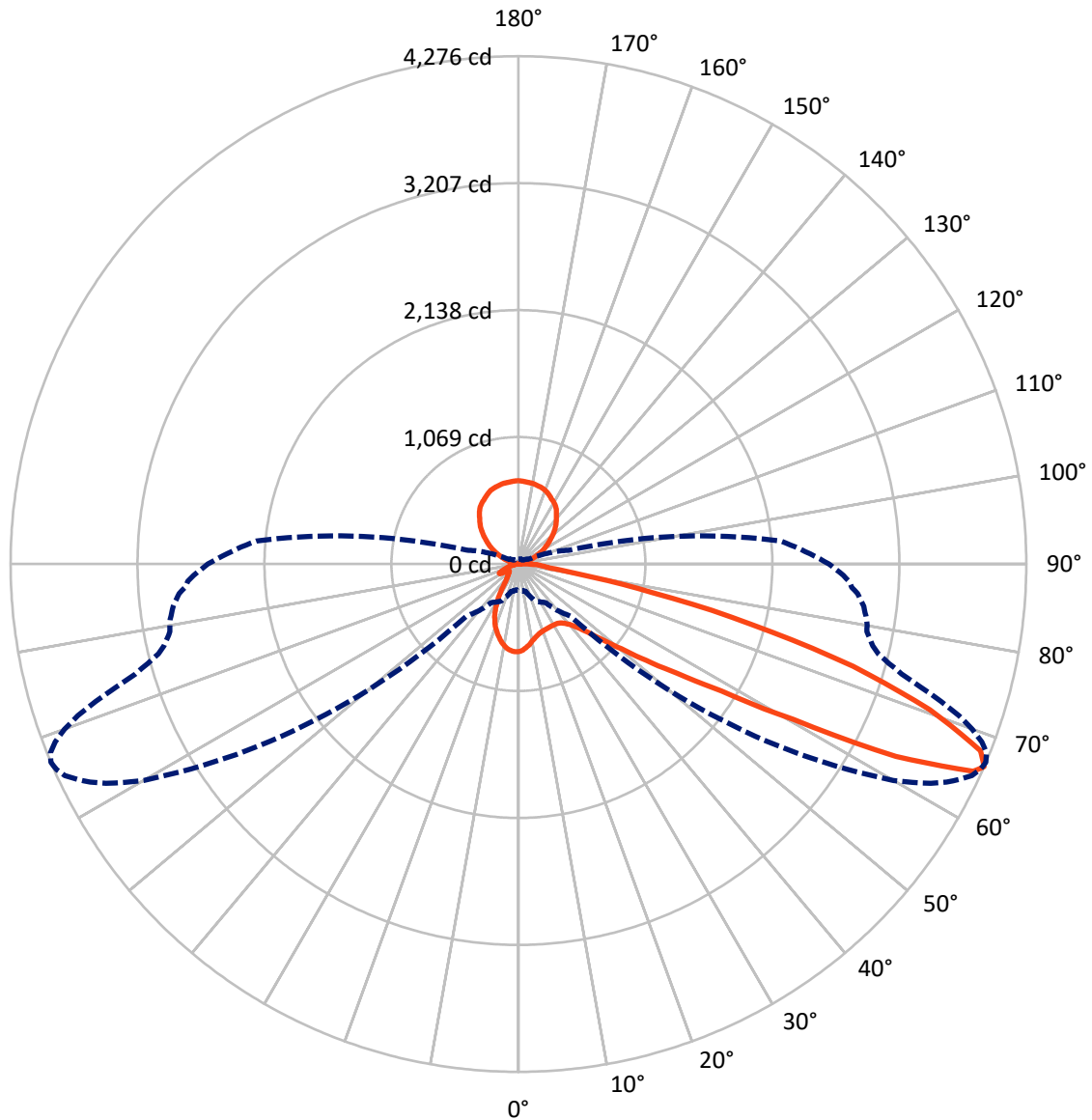
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.4 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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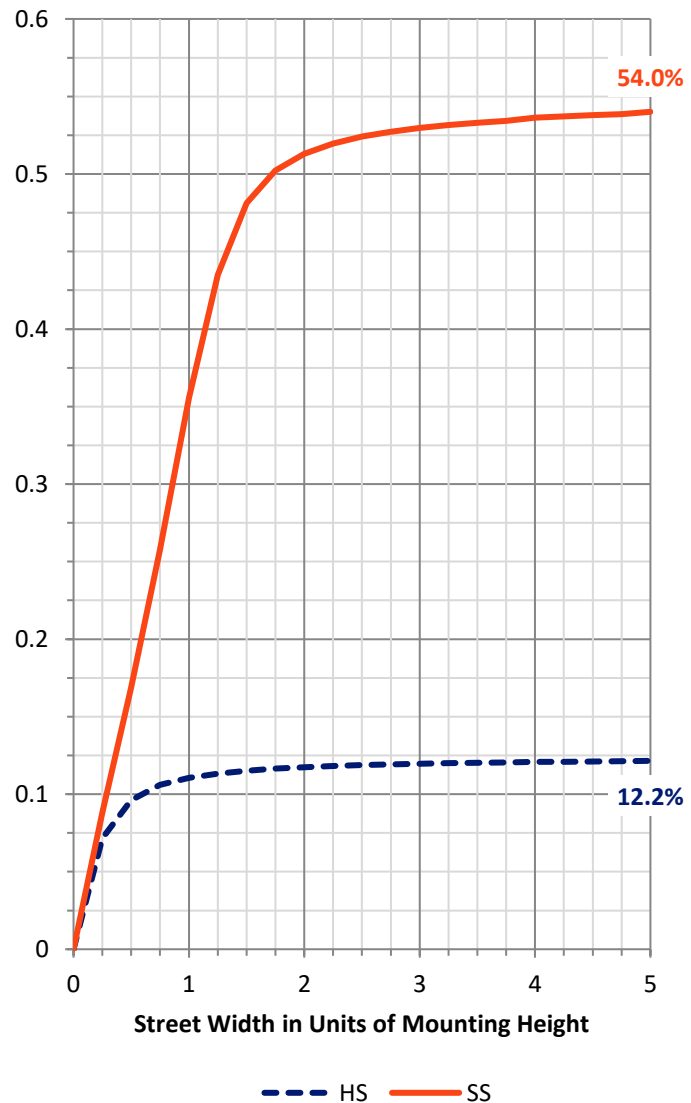
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	646.8	867.8	1514.7
	% Fixture	12.4	16.6	28.9
Street Side	Lumens	2853.4	868.6	3722.0
	% Fixture	54.5	16.6	71.1
Total	Lumens	3500.3	1736.4	5236.7
	% Fixture	66.8	33.2	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.9	1.2
10°-20°	152.1	2.9
20°-30°	208.5	4.0
30°-40°	297.9	5.7
40°-50°	483.1	9.2
50°-60°	765.4	14.6
60°-70°	969.9	18.5
70°-80°	482.1	9.2
80°-90°	77.4	1.5
90°-100°	10.5	0.2
100°-110°	57.4	1.1
110°-120°	166.1	3.2
120°-130°	273.2	5.2
130°-140°	336.8	6.4
140°-150°	344.6	6.6
150°-160°	290.3	5.5
160°-170°	191.2	3.7
170°-180°	66.3	1.3
0°-90°	3500.3	66.8
0°-180°	5236.7	100.0



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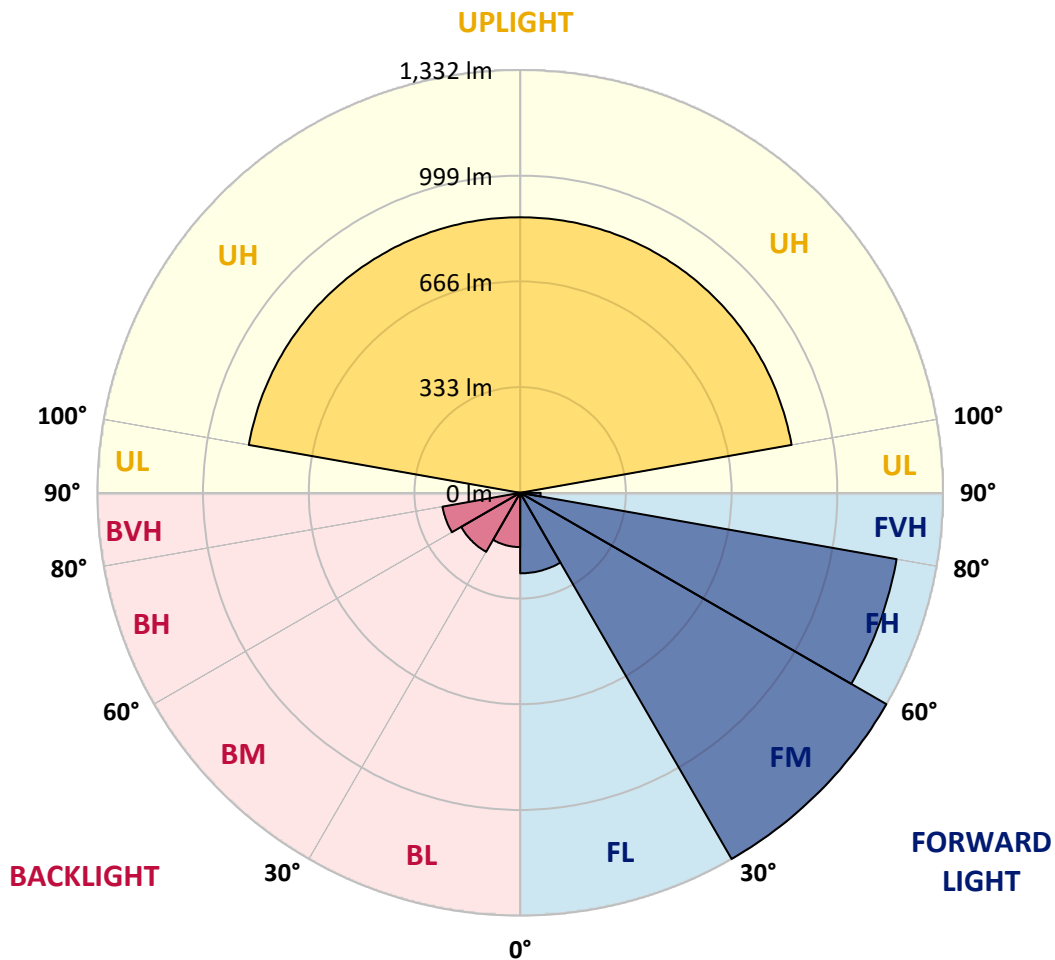
CATALOG NUMBER: ISW-AF-600-LED-E1-SL2-7030-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	253.6	4.8			
FM	(30°-60°)	1331.6	25.4			
FH	(60°-80°)	1203.6	23.0			G1/1800
FVH	(80°-90°)	64.6	1.2			G1/100
BL	(0°-30°)	170.9	3.3	B1/500		
BM	(30°-60°)	214.7	4.1	B0/220		
BH	(60°-80°)	248.4	4.7	B1/500		G1/500
BVH	(80°-90°)	12.8	0.2			G1/100
UL	(90°-100°)	10.5	0.2		U2/50	
UH	(100°-180°)	867.8	16.6		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°	736.8	736.8	736.8	736.8	736.8	736.8	736.8	736.8	736.8	736.8	736.8
2.5°	684.8	686.3	695.3	700.0	706.8	708.9	716.8	720.0	722.6	722.1	722.1
5°	623.2	628.0	632.2	641.6	651.6	663.7	679.0	690.5	692.6	695.3	696.8
7.5°	576.4	579.6	586.9	593.8	606.4	623.2	644.8	659.5	662.7	663.7	667.4
10°	543.3	545.4	551.7	560.6	575.4	591.7	614.3	629.5	634.3	636.4	639.5
12.5°	517.5	520.7	526.4	535.9	551.7	568.5	592.2	607.4	610.6	613.2	618.0
15°	501.2	503.3	508.6	519.1	533.3	550.1	573.3	591.7	593.8	596.4	600.6
17.5°	498.0	499.6	502.8	510.7	521.7	538.0	561.7	576.9	580.6	584.3	588.5
20°	510.7	511.7	512.8	513.8	520.1	530.7	553.8	570.1	573.3	576.4	581.7
22.5°	538.0	539.6	537.0	533.3	528.6	530.7	550.1	566.9	569.0	572.2	576.4
25°	585.4	583.8	575.9	570.1	553.3	539.6	551.2	565.4	568.0	571.2	575.9
27.5°	641.1	639.0	634.3	618.5	590.6	562.7	557.5	568.0	569.6	572.2	576.4
30°	701.1	701.6	697.4	680.0	644.3	597.4	571.7	574.3	575.4	577.5	580.1
32.5°	755.2	763.1	762.6	761.5	710.5	644.3	599.0	588.5	586.9	588.5	589.6
35°	817.8	819.4	834.1	841.5	799.9	712.6	639.0	615.9	609.5	610.1	609.0
37.5°	885.1	887.2	912.5	925.1	893.0	790.5	692.1	656.4	650.6	644.8	640.6
40°	982.9	991.4	1004.5	1018.7	1002.9	895.1	762.1	713.7	699.0	697.9	689.5
42.5°	1129.2	1126.5	1120.2	1131.8	1112.9	1012.4	846.7	794.7	783.6	768.9	757.3
45°	1272.7	1278.5	1251.2	1256.4	1257.5	1148.1	969.3	896.2	890.4	873.0	860.4
47.5°	1369.5	1363.2	1326.4	1353.2	1418.9	1306.4	1111.3	1034.5	1022.4	1013.5	1005.6
50°	1374.8	1369.5	1345.8	1393.2	1533.6	1587.8	1309.0	1219.6	1202.3	1186.5	1181.7
52.5°	1246.4	1239.1	1247.0	1343.2	1575.1	1823.4	1588.3	1449.4	1435.2	1422.1	1403.7
55°	1017.7	1026.1	1063.4	1201.7	1511.5	1990.6	2137.9	1804.4	1743.4	1742.9	1697.7
57.5°	760.0	751.5	779.4	909.3	1350.6	2050.0	2642.8	2560.2	2424.0	2331.9	2221.0
60°	512.8	514.9	540.6	607.4	939.8	1985.4	2980.9	3268.6	3220.7	3201.3	3171.3
62.5°	355.5	358.7	382.3	444.9	549.6	1597.2	3079.8	3665.7	3751.4	3822.4	3805.0
65°	248.8	249.3	273.0	369.7	411.8	820.4	2861.5	3718.3	3846.1	3968.1	4077.5
66°	219.3	219.8	239.3	344.0	395.0	619.0	2672.2	3645.2	3790.8	3932.8	4045.9
67.5°	187.8	190.9	206.2	292.4	378.7	477.5	2207.3	3426.9	3579.4	3735.6	3885.0
70°	128.9	129.9	143.6	237.2	354.5	419.2	1258.0	2675.4	2886.3	3160.8	3319.6
72.5°	92.0	91.0	92.6	146.7	363.9	416.5	661.1	1760.8	2055.8	2296.7	2468.7
75°	82.0	79.4	72.6	91.0	265.6	454.9	442.8	1036.6	1261.2	1480.5	1656.7
77.5°	73.1	68.9	65.2	69.9	131.5	428.6	397.6	593.8	708.4	872.0	1007.7
80°	55.7	53.1	55.2	60.5	78.9	394.4	395.0	395.0	426.0	479.6	533.3
82.5°	36.8	33.7	38.4	50.0	59.4	297.1	408.1	348.7	342.9	340.8	344.5
85°	23.1	20.0	26.8	37.3	45.8	155.1	418.6	368.1	341.3	315.6	289.8
87.5°	8.4	9.5	13.7	21.6	30.0	67.3	367.1	324.5	306.1	274.0	244.0
90°	7.1	6.6	9.6	14.3	14.8	19.6	63.3	97.9	61.8	35.2	30.2
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°	736.8	736.8	736.8	736.8	736.8	736.8	736.8	736.8	736.8	736.8	736.8
2.5°	722.6	725.2	726.3	725.2	725.8	728.9	727.9	729.5	729.5	730.5	730.5
5°	699.0	701.1	705.3	704.7	708.9	710.5	712.1	714.2	716.8	718.4	721.6
7.5°	671.1	675.3	679.0	681.1	683.7	689.0	690.5	695.3	699.5	703.7	706.8
10°	644.3	650.0	654.2	655.8	661.6	664.2	670.0	673.7	679.0	684.2	689.0
12.5°	621.6	626.9	629.0	634.3	639.5	644.8	647.4	654.2	659.5	666.3	672.7
15°	604.8	610.1	614.3	618.0	623.2	628.5	632.7	639.5	645.8	652.7	658.5
17.5°	594.3	597.4	602.7	605.9	612.2	618.5	623.2	631.1	637.9	643.7	651.6
20°	586.4	590.1	594.8	599.6	605.3	613.2	617.4	625.8	633.2	640.0	647.4
22.5°	582.2	585.9	590.6	595.3	601.7	608.0	614.8	622.2	630.1	637.4	644.8
25°	580.6	583.8	588.0	592.7	599.6	606.4	612.2	620.6	627.4	635.3	644.3
27.5°	581.1	583.2	588.0	592.2	599.0	605.3	611.1	619.5	627.4	634.8	643.7
30°	583.2	584.8	589.6	593.2	599.0	605.3	610.6	619.5	626.4	634.3	643.7
32.5°	590.6	592.7	594.8	597.4	602.7	607.4	613.8	621.6	628.0	635.8	643.7
35°	608.0	606.4	608.0	609.0	612.7	617.4	622.2	629.0	634.8	641.6	650.0
37.5°	635.3	632.2	633.2	632.7	632.7	635.8	640.6	645.3	650.0	656.9	665.3
40°	685.8	677.9	675.8	670.0	668.4	671.1	674.2	674.8	680.5	689.5	693.2
42.5°	751.0	740.5	742.1	732.6	730.0	726.8	731.0	728.4	732.1	737.9	745.8
45°	854.1	844.1	833.6	818.3	821.5	809.9	806.8	807.8	807.3	809.4	818.9
47.5°	977.2	964.0	957.2	951.4	940.3	933.5	924.6	911.4	914.6	918.8	927.2
50°	1157.0	1152.8	1139.7	1120.7	1118.1	1108.1	1105.5	1093.9	1089.7	1089.2	1088.7
52.5°	1397.4	1370.0	1364.8	1346.9	1333.2	1323.7	1320.6	1304.3	1288.0	1297.4	1296.4
55°	1690.3	1667.7	1638.8	1623.0	1612.0	1589.3	1583.6	1563.0	1553.6	1548.3	1535.2
57.5°	2182.6	2103.2	2043.7	2014.3	1972.7	1930.7	1915.9	1873.9	1841.3	1818.1	1819.7
60°	3040.9	2899.4	2732.7	2658.0	2485.0	2459.7	2340.9	2312.0	2240.4	2193.1	2165.7
62.5°	3792.9	3754.6	3674.6	3565.8	3392.2	3192.3	3102.4	2923.6	2783.7	2722.7	2638.0
65°	4152.2	4206.3	4228.4	4207.9	4138.5	4016.5	3909.2	3734.6	3500.0	3367.5	3202.9
66°	4133.7	4214.2	4254.7	4275.7	4250.5	4178.4	4065.9	3922.3	3740.9	3538.9	3354.3
67.5°	3999.1	4077.5	4133.7	4197.9	4197.9	4175.3	4129.5	4033.8	3905.5	3729.3	3563.6
70°	3449.0	3555.2	3654.6	3674.1	3728.8	3712.0	3748.2	3687.2	3656.7	3583.1	3494.2
72.5°	2686.9	2775.8	2861.0	2946.2	2932.0	2913.6	2909.9	2922.5	2860.5	2882.6	2859.4
75°	1787.1	1940.1	2027.4	2019.0	2024.8	2029.5	1990.6	1903.8	1971.2	1886.0	1914.4
77.5°	1086.0	1157.0	1180.7	1154.4	1120.2	1076.0	1005.0	963.5	904.1	908.8	869.3
80°	569.6	578.5	559.6	506.5	477.5	451.2	370.2	334.0	300.3	287.7	259.3
82.5°	326.6	305.0	281.9	264.0	229.8	206.7	175.1	155.1	133.6	114.7	107.8
85°	264.5	235.6	214.1	194.1	170.9	150.4	124.1	103.6	87.8	76.3	73.6
87.5°	218.3	198.3	176.2	157.3	134.6	113.6	87.8	68.4	54.2	43.7	40.5
90°	28.3	35.3	27.9	19.5	24.8	17.4	13.7	14.3	13.2	13.2	13.7
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



REPORT NUMBER: P226759

CATALOG NUMBER: ISW-AF-600-LED-E1-SL2-7030-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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CATALOG NUMBER: ISW-AF-600-LED-E1-SL2-7030-ULG

CANDELA DISTRIBUTION (continued):

	75°	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°
0°	736.8	736.8	736.8	736.8	736.8	736.8	736.8	736.8	736.8	736.8	736.8
2.5°	732.1	732.1	733.1	734.2	734.7	734.7	734.7	735.8	736.3	734.7	736.3
5°	723.1	725.8	727.9	729.5	730.0	731.6	733.1	734.2	735.8	735.8	736.8
7.5°	711.0	715.8	718.4	721.0	723.7	726.3	729.5	731.6	732.6	734.7	736.3
10°	695.8	701.6	706.8	711.0	714.7	720.0	724.2	727.3	732.1	732.6	736.3
12.5°	679.5	687.9	692.1	700.0	705.3	713.2	717.4	722.1	727.3	730.0	734.2
15°	667.9	675.3	683.2	690.5	699.0	708.4	713.7	720.0	727.3	733.1	738.4
17.5°	659.0	669.0	677.9	687.4	697.9	707.9	715.8	722.6	732.1	735.2	740.5
20°	656.4	667.4	676.3	686.3	697.4	710.5	720.0	727.3	736.8	742.1	746.8
22.5°	655.3	665.8	676.3	688.4	700.5	714.2	724.2	733.7	743.1	747.9	751.5
25°	654.2	665.3	676.9	690.5	703.7	717.9	729.5	738.4	747.3	752.1	755.2
27.5°	654.2	665.8	678.4	692.1	706.3	722.1	733.1	741.5	749.4	753.6	754.7
30°	653.7	665.8	677.9	693.2	708.4	724.7	736.8	744.7	751.5	754.2	753.1
32.5°	654.8	667.4	680.5	695.8	711.6	727.3	740.0	748.9	752.6	752.1	751.5
35°	660.0	671.6	686.9	702.1	718.4	733.1	745.2	751.5	754.7	753.6	751.0
37.5°	674.2	685.8	701.1	717.9	730.5	747.3	758.4	763.1	763.6	760.5	754.2
40°	703.7	715.3	728.9	747.3	762.6	774.2	784.7	789.9	786.8	781.0	774.2
42.5°	750.5	765.2	781.5	796.2	814.1	829.9	832.5	835.7	830.4	819.4	811.0
45°	825.7	834.6	855.7	866.7	889.9	897.7	903.5	905.1	893.5	884.6	869.9
47.5°	934.0	951.4	966.1	976.6	993.5	1004.0	1015.6	1010.3	1001.4	986.1	966.6
50°	1104.4	1115.5	1134.4	1153.3	1171.2	1178.6	1178.6	1173.3	1167.5	1138.1	1114.4
52.5°	1313.8	1314.8	1342.2	1364.8	1380.0	1369.0	1382.1	1369.0	1365.3	1344.8	1325.3
55°	1556.2	1546.2	1579.3	1599.3	1613.0	1626.2	1623.5	1621.9	1608.3	1585.1	1561.5
57.5°	1786.6	1815.5	1831.3	1860.7	1867.5	1876.5	1872.8	1867.5	1859.7	1846.5	1836.0
60°	2118.9	2138.4	2152.6	2158.4	2177.8	2180.5	2193.6	2172.1	2177.3	2162.1	2128.9
62.5°	2571.2	2550.2	2561.2	2561.2	2555.5	2534.9	2546.0	2554.4	2540.2	2527.6	2522.3
65°	3077.7	3009.9	2944.6	2933.6	2903.6	2896.8	2888.4	2867.3	2858.4	2836.3	2818.4
66°	3229.2	3124.0	3062.4	3024.6	2988.3	2980.4	2968.8	2946.7	2928.9	2897.8	2867.9
67.5°	3399.0	3263.3	3170.8	3117.1	3072.4	3043.0	3019.8	2988.3	2959.9	2913.6	2865.7
70°	3388.0	3276.0	3164.5	3083.0	3015.6	2955.2	2919.4	2851.5	2793.7	2727.4	2672.7
72.5°	2846.8	2826.8	2762.1	2716.4	2633.8	2601.7	2507.1	2463.9	2384.0	2298.3	2272.0
75°	1979.0	1900.7	1867.5	1849.1	1812.9	1712.9	1647.7	1661.9	1568.3	1484.7	1436.8
77.5°	865.1	880.9	789.4	748.4	716.8	662.7	612.2	577.5	557.5	544.3	484.9
80°	239.3	208.8	206.2	191.4	188.3	167.8	170.4	155.7	145.7	143.6	138.8
82.5°	104.7	102.6	99.4	97.8	96.2	94.1	91.5	91.0	87.8	85.2	85.7
85°	69.4	68.9	67.3	65.7	63.1	59.4	56.8	54.7	55.2	52.6	52.1
87.5°	40.5	39.4	38.9	36.8	36.3	33.1	33.7	31.0	30.5	30.0	28.4
90°	14.8	15.1	16.5	15.8	13.5	18.0	16.2	15.0	15.3	13.5	13.3
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°	
736.8	736.8	736.8	736.8	736.8	736.8	736.8	736.8	736.8	736.8	736.8	110°	116.2
737.9	738.9	739.4	738.9	740.0	739.4	740.0	739.4	736.8	736.3	735.8	112.5°	147.0
738.9	741.0	741.5	742.1	741.0	742.1	740.0	731.6	722.1	711.6	703.2	115°	177.2
740.0	742.6	744.2	744.2	744.7	743.7	735.8	717.4	695.3	673.2	656.4	117.5°	208.2
739.4	743.1	744.7	745.2	745.2	743.1	724.2	694.7	661.1	627.4	593.2	120°	243.0
737.9	741.0	743.7	743.7	744.2	736.8	707.4	665.3	617.4	566.9	521.2	122.5°	276.2
741.0	744.2	744.2	744.2	743.7	731.0	689.5	628.5	564.3	495.9	428.1	125°	310.0
745.8	747.3	746.3	746.3	744.2	725.2	669.5	592.2	508.0	417.6	322.9	127.5°	345.4
750.0	751.0	750.5	747.9	745.2	718.9	649.0	553.8	440.7	322.9	228.8	130°	379.2
754.2	755.2	752.6	748.4	744.7	710.5	624.3	504.9	364.5	220.9	151.5	132.5°	414.2
754.7	755.7	751.0	745.2	740.0	697.9	594.3	452.8	280.8	143.1	118.3	135°	450.2
754.2	753.1	745.2	737.9	732.1	682.6	561.2	388.1	187.2	107.8	103.1	137.5°	481.2
750.5	745.8	739.4	731.0	722.6	665.8	528.0	316.1	118.3	93.6	93.6	140°	509.4
745.2	740.5	732.6	721.6	712.1	649.5	490.2	242.4	94.7	86.3	87.3	142.5°	534.4
743.1	737.9	726.3	714.7	702.6	634.8	450.2	163.0	85.2	81.5	82.0	145°	558.4
747.3	738.4	726.8	713.7	699.5	622.2	408.6	113.6	80.5	76.3	77.3	147.5°	583.4
761.5	753.1	739.4	722.6	707.4	614.8	364.5	94.1	75.7	72.1	72.1	150°	606.8
795.7	784.7	766.3	746.3	727.9	619.5	325.0	85.7	72.1	68.4	68.4	152.5°	624.0
850.9	837.8	816.2	793.6	769.4	642.7	280.3	82.6	69.4	64.2	63.1	155°	638.6
945.6	928.3	899.9	873.0	844.1	682.6	235.1	80.5	66.3	61.5	59.4	157.5°	651.0
1094.4	1068.7	1035.0	999.8	964.5	755.7	199.3	78.4	64.2	59.4	57.3	160°	661.2
1285.9	1268.5	1226.4	1180.2	1138.1	901.4	178.8	76.8	62.6	56.8	55.2	162.5°	669.2
1529.9	1501.5	1468.4	1426.8	1376.9	1090.2	176.7	76.3	61.0	54.7	53.6	165°	678.8
1787.6	1776.6	1720.3	1694.5	1640.4	1341.6	215.1	77.3	60.0	53.1	51.5	167.5°	689.2
2081.6	2085.8	2033.2	2004.8	1960.1	1660.3	342.4	80.5	60.0	51.5	50.0	170°	697.0
2466.0	2472.9	2410.8	2377.2	2339.3	2017.4	538.0	85.7	61.5	50.0	48.4	172.5°	697.0
2781.1	2744.3	2704.3	2645.4	2597.5	2216.8	518.0	95.2	63.6	48.4	46.8	175°	695.0
2813.7	2787.4	2736.9	2673.3	2614.9	2217.8	452.3	98.3	64.2	47.9	46.3	177.5°	698.8
2809.5	2762.7	2705.3	2651.7	2594.4	2161.0	349.7	102.6	65.7	46.8	45.2	180°	700.0
2614.9	2549.1	2493.4	2419.2	2359.3	1933.8	215.1	102.0	63.6	43.7	42.6		
2156.3	2122.6	2056.4	1996.9	1934.3	1565.1	147.3	91.0	56.3	39.4	40.0		
1394.7	1356.4	1289.0	1255.4	1220.1	1001.4	114.7	74.2	47.9	35.2	36.8		
465.4	450.2	425.5	439.1	418.6	390.2	84.1	56.3	38.4	30.5	32.6		
139.4	136.2	140.9	132.5	140.4	118.9	55.2	39.4	29.5	26.3	28.9		
82.6	81.5	81.5	81.5	79.4	74.2	36.3	27.3	22.6	22.1	24.2		
50.5	49.4	50.0	49.4	50.5	45.2	24.7	18.9	16.8	16.3	19.5		
28.9	28.9	29.5	28.4	28.9	27.9	17.4	12.1	11.0	10.5	14.2		
13.8	13.8	12.3	11.7	12.3	14.4	13.7	12.7	10.2	9.6	12.7		
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		

'226759
 ISW-AF-600-LED-E1-SL2-7030-ULG

REPORT NUMBER: P226759
 CATALOG NUMBER: ISW-AF-60

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°	736.8	736.8
147.0	147.0	147.0	147.0	147.0	149.0	150.0	148.0	143.0	134.0	2.5°	731.6	727.9
177.4	177.6	177.8	178.0	177.0	179.0	182.0	179.0	174.0	168.0	5°	690.0	680.0
208.4	208.6	208.8	209.0	208.0	210.0	215.0	211.0	205.0	202.0	7.5°	630.1	618.5
243.0	243.0	243.0	243.0	243.0	245.0	250.0	246.0	243.0	237.0	10°	561.7	544.3
276.4	276.6	276.8	277.0	276.0	278.0	283.0	279.0	277.0	271.0	12.5°	474.4	440.2
310.0	310.0	310.0	310.0	310.0	310.0	315.0	313.0	310.0	305.0	15°	373.4	327.6
345.8	346.2	346.6	347.0	345.0	346.0	346.0	345.0	340.0	339.0	17.5°	257.2	220.4
379.4	379.6	379.8	380.0	379.0	381.0	381.0	377.0	372.0	370.0	20°	180.4	166.7
414.4	414.6	414.8	415.0	414.0	414.0	416.0	411.0	405.0	404.0	22.5°	139.4	139.9
450.4	450.6	450.8	451.0	450.0	447.0	448.0	443.0	437.0	435.0	25°	115.7	121.0
481.4	481.6	481.8	482.0	481.0	476.0	475.0	473.0	468.0	464.0	27.5°	102.0	107.3
509.8	510.2	510.6	511.0	509.0	504.0	502.0	500.0	497.0	491.0	30°	93.6	98.3
534.8	535.2	535.6	536.0	534.0	533.0	533.0	527.0	525.0	521.0	32.5°	87.8	89.9
558.8	559.2	559.6	560.0	558.0	561.0	562.0	556.0	551.0	550.0	35°	81.0	82.0
583.8	584.2	584.6	585.0	583.0	586.0	585.0	580.0	575.0	574.0	37.5°	75.2	75.2
607.6	608.4	609.2	610.0	606.0	603.0	600.0	597.0	593.0	593.0	40°	69.9	69.4
625.0	626.0	627.0	628.0	623.0	618.0	614.0	611.0	610.0	610.0	42.5°	65.2	64.7
639.2	639.8	640.4	641.0	638.0	636.0	631.0	626.0	628.0	630.0	45°	60.5	61.0
652.0	653.0	654.0	655.0	650.0	650.0	648.0	644.0	645.0	646.0	47.5°	57.9	58.4
662.4	663.6	664.8	666.0	660.0	661.0	664.0	658.0	655.0	655.0	50°	55.2	55.7
670.4	671.6	672.8	674.0	668.0	670.0	671.0	667.0	663.0	661.0	52.5°	53.1	53.1
679.6	680.4	681.2	682.0	678.0	680.0	677.0	672.0	673.0	673.0	55°	51.0	50.5
690.4	691.6	692.8	694.0	688.0	688.0	684.0	678.0	685.0	688.0	57.5°	49.4	48.4
698.0	699.0	700.0	701.0	696.0	694.0	689.0	686.0	691.0	693.0	60°	47.9	46.8
698.0	699.0	700.0	701.0	696.0	694.0	692.0	689.0	690.0	690.0	62.5°	46.8	45.2
696.0	697.0	698.0	699.0	694.0	696.0	695.0	690.0	690.0	691.0	65°	45.8	44.7
699.6	700.4	701.2	702.0	698.0	701.0	699.0	694.0	695.0	697.0	66°	45.2	44.2
700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	67.5°	44.7	43.7
										70°	42.6	41.5
										72.5°	39.4	38.9
										75°	36.3	35.2
										77.5°	32.1	31.6
										80°	27.3	26.8
										82.5°	23.1	22.1
										85°	18.4	17.4
										87.5°	12.6	11.6
										90°	11.2	10.7
										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°
736.8	736.8
724.7	729.5
676.9	675.3
609.0	609.5
527.0	528.0
420.7	414.4
301.4	304.0
209.8	209.3
168.3	169.3
144.1	144.1
128.3	128.3
113.1	113.6
102.6	103.6
93.1	93.6
83.6	84.1
75.7	75.7
70.5	71.0
66.8	66.8
63.1	63.1
60.0	61.0
56.8	57.3
53.6	54.2
50.5	50.5
47.9	47.9
45.8	45.2
44.2	43.1
42.6	42.1
42.1	41.5
41.5	41.0
40.5	40.0
38.9	38.4
35.8	34.7
32.6	31.6
30.0	28.4
25.2	24.2
18.4	17.4
11.0	11.0
7.6	7.6
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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