

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: P226756

Luminaire Tested: **ISW-AF-600-LED-E1-SL2-8030-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P226756
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-SL2-8030-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: 4963 lumens
Efficiency: N/A
Efficacy: 98.5 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

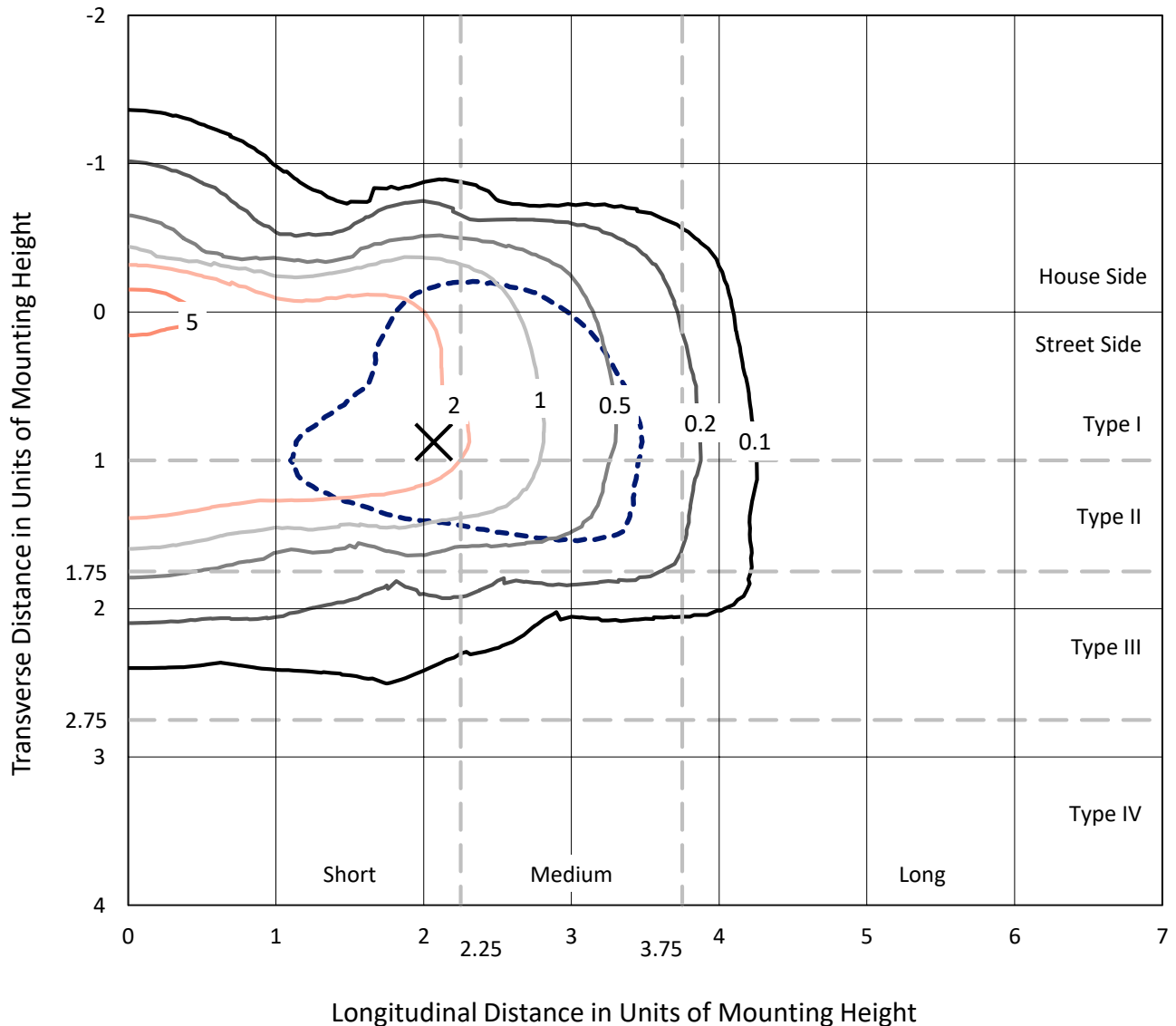
Input Watts (W): 50.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

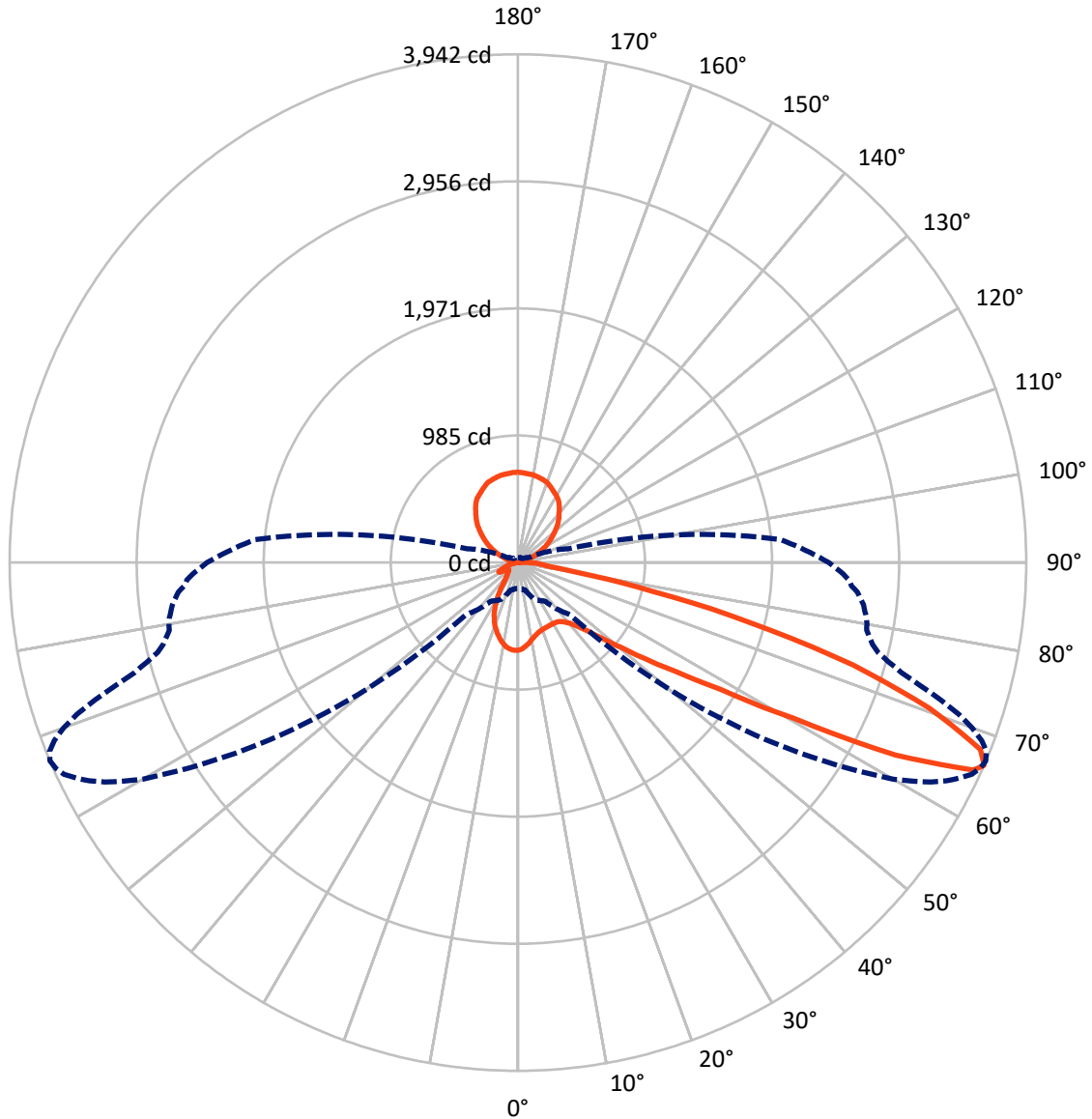
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.8 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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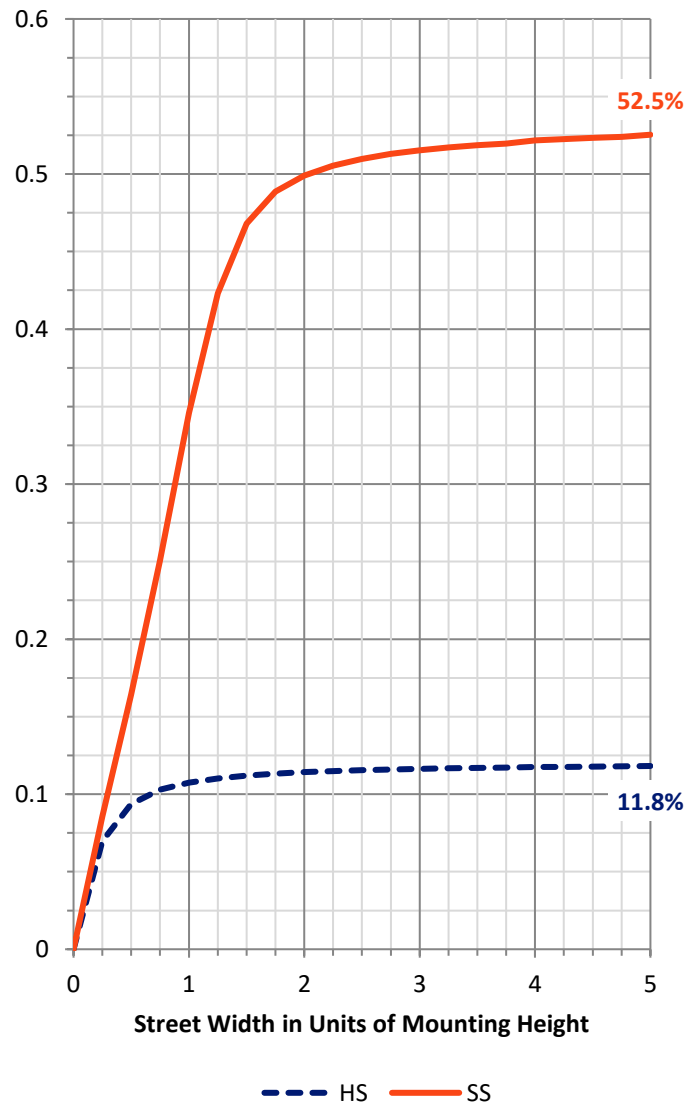
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	596.3	867.8	1464.1
	% Fixture	12.0	17.5	29.5
Street Side	Lumens	2630.4	868.5	3498.9
	% Fixture	53.0	17.5	70.5
Total	Lumens	3226.7	1736.3	4963.0
	% Fixture	65.0	35.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.9	1.2
10°-20°	140.2	2.8
20°-30°	192.2	3.9
30°-40°	274.6	5.5
40°-50°	445.3	9.0
50°-60°	705.5	14.2
60°-70°	894.1	18.0
70°-80°	444.4	9.0
80°-90°	71.4	1.4
90°-100°	10.4	0.2
100°-110°	57.4	1.2
110°-120°	166.1	3.3
120°-130°	273.2	5.5
130°-140°	336.8	6.8
140°-150°	344.6	6.9
150°-160°	290.3	5.8
160°-170°	191.2	3.9
170°-180°	66.3	1.3
0°-90°	3226.7	65.0
0°-180°	4963.0	100.0



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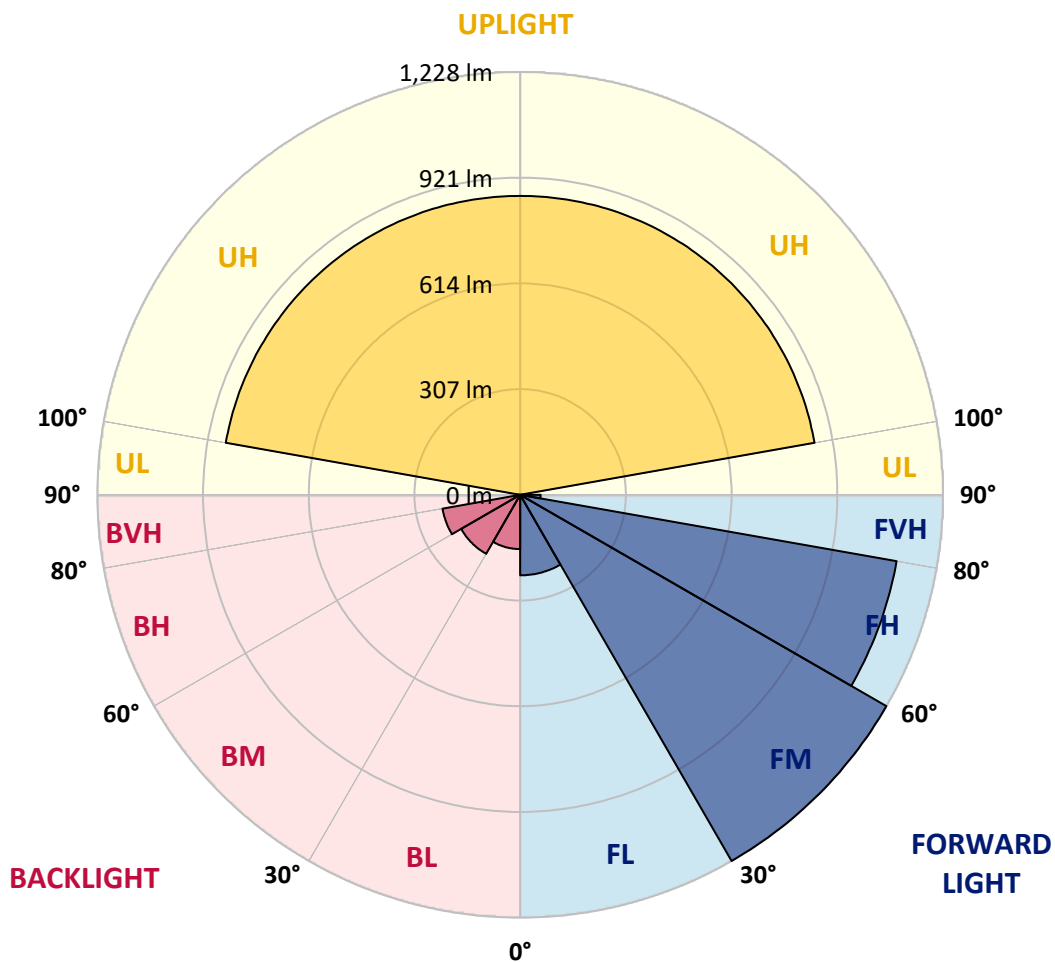
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	233.8	4.7			
FM	(30°-60°)	1227.5	24.7			
FH	(60°-80°)	1109.5	22.4			G1/1800
FVH	(80°-90°)	59.6	1.2			G1/100
BL	(0°-30°)	157.5	3.2	B1/500		
BM	(30°-60°)	197.9	4.0	B0/220		
BH	(60°-80°)	229.0	4.6	B1/500		G1/500
BVH	(80°-90°)	11.9	0.2			G1/100
UL	(90°-100°)	10.4	0.2		U2/50	
UH	(100°-180°)	867.8	17.5		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°	679.2	679.2	679.2	679.2	679.2	679.2	679.2	679.2	679.2	679.2	679.2
2.5°	631.2	632.7	640.9	645.3	651.6	653.5	660.8	663.7	666.1	665.6	665.6
5°	574.5	578.9	582.7	591.5	600.7	611.8	625.9	636.6	638.5	640.9	642.4
7.5°	531.3	534.3	541.0	547.3	559.0	574.5	594.4	607.9	610.9	611.8	615.2
10°	500.8	502.7	508.6	516.8	530.4	545.4	566.3	580.3	584.7	586.6	589.5
12.5°	477.1	480.0	485.3	494.0	508.6	524.1	545.9	560.0	562.9	565.3	569.6
15°	462.0	464.0	468.8	478.5	491.6	507.1	528.4	545.4	547.3	549.8	553.7
17.5°	459.1	460.6	463.5	470.7	480.9	496.0	517.8	531.8	535.2	538.6	542.5
20°	470.7	471.7	472.7	473.7	479.5	489.2	510.5	525.5	528.4	531.3	536.2
22.5°	496.0	497.4	495.0	491.6	487.2	489.2	507.1	522.6	524.6	527.5	531.3
25°	539.6	538.1	530.9	525.5	510.0	497.4	508.1	521.2	523.6	526.5	530.9
27.5°	591.0	589.0	584.7	570.1	544.4	518.7	513.9	523.6	525.0	527.5	531.3
30°	646.2	646.7	642.9	626.9	593.9	550.7	527.0	529.4	530.4	532.3	534.7
32.5°	696.2	703.5	703.0	702.0	655.0	593.9	552.2	542.5	541.0	542.5	543.5
35°	753.9	755.3	768.9	775.7	737.4	656.9	589.0	567.7	561.9	562.4	561.4
37.5°	815.9	817.9	841.1	852.8	823.2	728.7	638.0	605.0	599.7	594.4	590.5
40°	906.1	913.9	926.0	939.1	924.5	825.1	702.5	657.9	644.3	643.3	635.6
42.5°	1040.9	1038.5	1032.6	1043.3	1025.9	933.3	780.5	732.5	722.4	708.8	698.1
45°	1173.2	1178.6	1153.4	1158.2	1159.2	1058.3	893.5	826.1	820.8	804.8	793.1
47.5°	1262.4	1256.6	1222.7	1247.4	1308.0	1204.3	1024.4	953.6	942.5	934.2	927.0
50°	1267.3	1262.4	1240.6	1284.3	1413.7	1463.6	1206.7	1124.3	1108.3	1093.7	1089.4
52.5°	1149.0	1142.2	1149.5	1238.2	1452.0	1680.8	1464.1	1336.1	1323.0	1310.9	1294.0
55°	938.1	945.9	980.3	1107.8	1393.3	1835.0	1970.7	1663.4	1607.1	1606.7	1565.0
57.5°	700.5	692.8	718.5	838.2	1245.0	1889.8	2436.2	2360.0	2234.5	2149.6	2047.3
60°	472.7	474.6	498.4	560.0	866.4	1830.2	2747.9	3013.1	2969.0	2951.0	2923.4
62.5°	327.7	330.6	352.5	410.1	506.6	1472.4	2839.0	3379.1	3458.1	3523.6	3507.6
65°	229.3	229.8	251.6	340.8	379.6	756.3	2637.8	3427.6	3545.4	3657.9	3758.7
66°	202.2	202.6	220.6	317.1	364.1	570.6	2463.3	3360.2	3494.5	3625.4	3729.6
67.5°	173.1	176.0	190.0	269.6	349.1	440.2	2034.7	3159.0	3299.6	3443.6	3581.3
70°	118.8	119.7	132.4	218.6	326.8	386.4	1159.7	2466.2	2660.6	2913.7	3060.1
72.5°	84.8	83.9	85.3	135.3	335.5	384.0	609.4	1623.1	1895.1	2117.2	2275.7
75°	75.6	73.2	66.9	83.9	244.8	419.4	408.2	955.6	1162.6	1364.7	1527.1
77.5°	67.4	63.5	60.1	64.5	121.2	395.1	366.5	547.3	653.0	803.8	928.9
80°	51.4	49.0	50.9	55.8	72.7	363.6	364.1	364.1	392.7	442.1	491.6
82.5°	33.9	31.0	35.4	46.1	54.8	273.9	376.2	321.4	316.1	314.2	317.5
85°	21.3	18.4	24.7	34.4	42.2	143.0	385.9	339.4	314.6	290.9	267.1
87.5°	7.8	8.7	12.6	19.9	27.6	62.1	338.4	299.1	282.2	252.6	225.0
90°	6.9	6.5	9.4	13.8	14.3	18.6	58.9	90.9	57.7	33.1	28.5
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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CATALOG NUMBER: ISW-AF-600-LED-E1-SL2-8030-ULG

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°	679.2	679.2	679.2	679.2	679.2	679.2	679.2	679.2	679.2	679.2	679.2
2.5°	666.1	668.6	669.5	668.6	669.0	671.9	671.0	672.4	672.4	673.4	673.4
5°	644.3	646.2	650.1	649.6	653.5	655.0	656.4	658.4	660.8	662.2	665.2
7.5°	618.6	622.5	625.9	627.8	630.3	635.1	636.6	640.9	644.8	648.7	651.6
10°	593.9	599.2	603.1	604.6	609.9	612.3	617.6	621.0	625.9	630.7	635.1
12.5°	573.0	577.9	579.8	584.7	589.5	594.4	596.8	603.1	607.9	614.3	620.1
15°	557.5	562.4	566.3	569.6	574.5	579.3	583.2	589.5	595.3	601.6	607.0
17.5°	547.8	550.7	555.6	558.5	564.3	570.1	574.5	581.8	588.1	593.4	600.7
20°	540.6	544.0	548.3	552.7	558.0	565.3	569.2	576.9	583.7	590.0	596.8
22.5°	536.7	540.1	544.4	548.8	554.6	560.4	566.7	573.5	580.8	587.6	594.4
25°	535.2	538.1	542.0	546.4	552.7	559.0	564.3	572.1	578.4	585.6	593.9
27.5°	535.7	537.7	542.0	545.9	552.2	558.0	563.3	571.1	578.4	585.2	593.4
30°	537.7	539.1	543.5	546.9	552.2	558.0	562.9	571.1	577.4	584.7	593.4
32.5°	544.4	546.4	548.3	550.7	555.6	560.0	565.8	573.0	578.9	586.1	593.4
35°	560.4	559.0	560.4	561.4	564.8	569.2	573.5	579.8	585.2	591.5	599.2
37.5°	585.6	582.7	583.7	583.2	583.2	586.1	590.5	594.9	599.2	605.5	613.3
40°	632.2	624.9	623.0	617.6	616.2	618.6	621.5	622.0	627.3	635.6	639.0
42.5°	692.3	682.6	684.1	675.3	672.9	670.0	673.9	671.5	674.9	680.2	687.5
45°	787.3	778.1	768.4	754.4	757.3	746.6	743.7	744.7	744.2	746.1	754.8
47.5°	900.8	888.7	882.4	877.0	866.8	860.5	852.3	840.2	843.1	847.0	854.7
50°	1066.6	1062.7	1050.6	1033.1	1030.7	1021.5	1019.1	1008.4	1004.5	1004.0	1003.6
52.5°	1288.1	1262.9	1258.1	1241.6	1229.0	1220.3	1217.4	1202.3	1187.3	1196.0	1195.1
55°	1558.2	1537.3	1510.7	1496.1	1485.9	1465.1	1459.8	1440.9	1432.1	1427.3	1415.2
57.5°	2012.0	1938.7	1884.0	1856.8	1818.5	1779.7	1766.2	1727.4	1697.3	1676.0	1677.4
60°	2803.2	2672.7	2519.1	2450.2	2290.7	2267.4	2157.9	2131.2	2065.3	2021.7	1996.4
62.5°	3496.4	3461.0	3387.4	3287.0	3127.0	2942.8	2859.9	2695.0	2566.1	2509.9	2431.8
65°	3827.6	3877.5	3897.9	3879.0	3815.0	3702.5	3603.6	3442.6	3226.4	3104.2	2952.5
66°	3810.6	3884.8	3922.1	3941.5	3918.2	3851.8	3748.1	3615.7	3448.4	3262.3	3092.1
67.5°	3686.5	3758.7	3810.6	3869.7	3869.7	3848.9	3806.7	3718.5	3600.2	3437.8	3285.1
70°	3179.4	3277.3	3368.9	3386.9	3437.3	3421.8	3455.2	3399.0	3370.9	3303.0	3221.1
72.5°	2476.9	2558.8	2637.4	2715.9	2702.8	2685.8	2682.4	2694.1	2636.9	2657.2	2635.9
75°	1647.4	1788.5	1868.9	1861.2	1866.5	1870.9	1835.0	1755.0	1817.1	1738.5	1764.7
77.5°	1001.1	1066.6	1088.4	1064.2	1032.6	991.9	926.5	888.2	833.4	837.7	801.4
80°	525.0	533.3	515.8	466.9	440.2	416.0	341.3	307.9	276.8	265.2	239.0
82.5°	301.1	281.2	259.9	243.4	211.9	190.5	161.4	143.0	123.1	105.7	99.4
85°	243.9	217.2	197.3	178.9	157.6	138.7	114.4	95.5	81.0	70.3	67.9
87.5°	201.2	182.8	162.4	145.0	124.1	104.7	81.0	63.0	49.9	40.2	37.3
90°	26.7	33.2	26.5	18.7	23.5	16.8	13.4	13.8	12.9	12.9	13.4
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: P226756

CATALOG NUMBER: ISW-AF-600-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



REPORT NUMBER: P226756

CATALOG NUMBER: ISW-AF-600-LED-E1-SL2-8030-ULG

CANDELA DISTRIBUTION (continued):

	75°	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°
0°	679.2	679.2	679.2	679.2	679.2	679.2	679.2	679.2	679.2	679.2	679.2
2.5°	674.9	674.9	675.8	676.8	677.3	677.3	677.3	678.2	678.7	677.3	678.7
5°	666.6	669.0	671.0	672.4	672.9	674.4	675.8	676.8	678.2	678.2	679.2
7.5°	655.5	659.8	662.2	664.7	667.1	669.5	672.4	674.4	675.3	677.3	678.7
10°	641.4	646.7	651.6	655.5	658.9	663.7	667.6	670.5	674.9	675.3	678.7
12.5°	626.4	634.1	638.0	645.3	650.1	657.4	661.3	665.6	670.5	672.9	676.8
15°	615.7	622.5	629.8	636.6	644.3	653.0	657.9	663.7	670.5	675.8	680.7
17.5°	607.5	616.7	624.9	633.6	643.3	652.6	659.8	666.1	674.9	677.8	682.6
20°	605.0	615.2	623.5	632.7	642.9	655.0	663.7	670.5	679.2	684.1	688.4
22.5°	604.1	613.8	623.5	634.6	645.8	658.4	667.6	676.3	685.0	689.4	692.8
25°	603.1	613.3	623.9	636.6	648.7	661.8	672.4	680.7	688.9	693.3	696.2
27.5°	603.1	613.8	625.4	638.0	651.1	665.6	675.8	683.6	690.9	694.7	695.7
30°	602.6	613.8	624.9	639.0	653.0	668.1	679.2	686.5	692.8	695.2	694.2
32.5°	603.6	615.2	627.3	641.4	655.9	670.5	682.1	690.4	693.8	693.3	692.8
35°	608.4	619.1	633.2	647.2	662.2	675.8	687.0	692.8	695.7	694.7	692.3
37.5°	621.5	632.2	646.2	661.8	673.4	688.9	699.1	703.5	703.9	701.0	695.2
40°	648.7	659.3	671.9	688.9	703.0	713.6	723.3	728.2	725.3	719.9	713.6
42.5°	691.8	705.4	720.4	734.0	750.5	765.0	767.5	770.4	765.5	755.3	747.6
45°	761.1	769.4	788.8	799.0	820.3	827.6	832.9	834.4	823.7	815.4	801.9
47.5°	861.0	877.0	890.6	900.3	915.8	925.5	936.2	931.3	923.1	909.0	891.1
50°	1018.1	1028.3	1045.7	1063.2	1079.7	1086.5	1086.5	1081.6	1076.3	1049.1	1027.3
52.5°	1211.1	1212.0	1237.2	1258.1	1272.1	1262.0	1274.1	1262.0	1258.6	1239.7	1221.7
55°	1434.5	1425.3	1455.9	1474.3	1486.9	1499.0	1496.6	1495.1	1482.5	1461.2	1439.4
57.5°	1646.9	1673.6	1688.1	1715.3	1721.6	1729.8	1726.4	1721.6	1714.3	1702.2	1692.5
60°	1953.3	1971.2	1984.3	1989.7	2007.6	2010.0	2022.1	2002.3	2007.1	1993.0	1962.5
62.5°	2370.2	2350.8	2361.0	2361.0	2355.7	2336.8	2347.0	2354.7	2341.6	2330.0	2325.1
65°	2837.1	2774.6	2714.4	2704.3	2676.6	2670.3	2662.6	2643.2	2634.9	2614.6	2598.1
66°	2976.7	2879.8	2823.0	2788.1	2754.7	2747.4	2736.7	2716.4	2699.9	2671.3	2643.7
67.5°	3133.3	3008.2	2922.9	2873.5	2832.2	2805.1	2783.8	2754.7	2728.5	2685.8	2641.7
70°	3123.1	3019.9	2917.1	2841.9	2779.9	2724.1	2691.2	2628.6	2575.3	2514.2	2463.8
72.5°	2624.3	2605.8	2546.2	2504.0	2427.9	2398.3	2311.1	2271.3	2197.6	2118.6	2094.4
75°	1824.3	1752.1	1721.6	1704.6	1671.1	1579.0	1518.9	1532.0	1445.7	1368.6	1324.5
77.5°	797.5	812.1	727.7	689.9	660.8	610.9	564.3	532.3	513.9	501.8	447.0
80°	220.6	192.5	190.0	176.5	173.6	154.7	157.1	143.5	134.3	132.4	128.0
82.5°	96.5	94.5	91.6	90.2	88.7	86.8	84.4	83.9	81.0	78.5	79.0
85°	64.0	63.5	62.1	60.6	58.2	54.8	52.4	50.4	50.9	48.5	48.0
87.5°	37.3	36.4	35.9	33.9	33.5	30.5	31.0	28.6	28.1	27.6	26.2
90°	14.3	14.6	15.9	15.2	13.0	17.2	15.6	14.4	14.7	13.0	12.8
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



REPORT NUMBER: P226756
 CATALOG NUMBER: ISW-AF-600-LED-E1-SL2-8030-ULG

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°

NUMBER: P226756
 NUMBER: ISW-AF-600-LED-E1-SL2-8030-ULG

REPORT NUMBER: P
 CATALOG NUMBER:

DISTRIBUTION (continued):

CANDELA DISTRIBUTION

86°	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	86°	
679.2	679.2	679.2	679.2	679.2	679.2	679.2	679.2	679.2	679.2	679.2	110°	116.2
680.2	681.2	681.6	681.2	682.1	681.6	682.1	681.6	679.2	678.7	678.2	112.5°	147.0
681.2	683.1	683.6	684.1	683.1	684.1	682.1	674.4	665.6	655.9	648.2	115°	177.2
682.1	684.5	686.0	686.0	686.5	685.5	678.2	661.3	640.9	620.6	605.0	117.5°	208.2
681.6	685.0	686.5	687.0	687.0	685.0	667.6	640.4	609.4	578.4	546.9	120°	243.0
680.2	683.1	685.5	685.5	686.0	679.2	652.1	613.3	569.2	522.6	480.4	122.5°	276.2
683.1	686.0	686.0	686.0	685.5	673.9	635.6	579.3	520.2	457.2	394.6	125°	310.0
687.5	688.9	687.9	687.9	686.0	668.6	617.2	545.9	468.3	384.9	297.7	127.5°	345.4
691.3	692.3	691.8	689.4	687.0	662.7	598.3	510.5	406.3	297.7	210.9	130°	379.2
695.2	696.2	693.8	689.9	686.5	655.0	575.5	465.4	336.0	203.6	139.6	132.5°	414.2
695.7	696.7	692.3	687.0	682.1	643.3	547.8	417.4	258.9	131.9	109.1	135°	450.2
695.2	694.2	687.0	680.2	674.9	629.3	517.3	357.8	172.6	99.4	95.0	137.5°	481.2
691.8	687.5	681.6	673.9	666.1	613.8	486.7	291.4	109.1	86.3	86.3	140°	509.4
687.0	682.6	675.3	665.2	656.4	598.7	451.8	223.5	87.3	79.5	80.5	142.5°	534.4
685.0	680.2	669.5	658.9	647.7	585.2	415.0	150.3	78.5	75.1	75.6	145°	558.4
688.9	680.7	670.0	657.9	644.8	573.5	376.7	104.7	74.2	70.3	71.3	147.5°	583.4
702.0	694.2	681.6	666.1	652.1	566.7	336.0	86.8	69.8	66.4	66.4	150°	606.8
733.5	723.3	706.4	687.9	671.0	571.1	299.6	79.0	66.4	63.0	63.0	152.5°	624.0
784.4	772.3	752.4	731.6	709.3	592.4	258.4	76.1	64.0	59.1	58.2	155°	638.6
871.7	855.7	829.5	804.8	778.1	629.3	216.7	74.2	61.1	56.7	54.8	157.5°	651.0
1008.9	985.1	954.1	921.6	889.1	696.7	183.7	72.2	59.1	54.8	52.8	160°	661.2
1185.4	1169.4	1130.6	1087.9	1049.1	831.0	164.8	70.8	57.7	52.4	50.9	162.5°	669.2
1410.3	1384.1	1353.6	1315.3	1269.2	1005.0	162.9	70.3	56.2	50.4	49.5	165°	678.8
1647.9	1637.7	1585.8	1562.1	1512.1	1236.7	198.3	71.3	55.3	49.0	47.5	167.5°	689.2
1918.9	1922.7	1874.3	1848.1	1806.9	1530.5	315.6	74.2	55.3	47.5	46.1	170°	697.0
2273.3	2279.6	2222.4	2191.3	2156.4	1859.7	496.0	79.0	56.7	46.1	44.6	172.5°	697.0
2563.7	2529.7	2492.9	2438.6	2394.5	2043.5	477.5	87.8	58.7	44.6	43.1	175°	695.0
2593.7	2569.5	2522.9	2464.3	2410.5	2044.4	416.9	90.7	59.1	44.1	42.7	177.5°	698.8
2589.8	2546.7	2493.9	2444.4	2391.6	1992.1	322.4	94.5	60.6	43.1	41.7	180°	700.0
2410.5	2349.9	2298.5	2230.1	2174.8	1782.6	198.3	94.1	58.7	40.2	39.3		
1987.7	1956.7	1895.6	1840.8	1783.1	1442.8	135.7	83.9	51.9	36.4	36.8		
1285.7	1250.3	1188.3	1157.2	1124.8	923.1	105.7	68.4	44.1	32.5	33.9		
429.1	415.0	392.2	404.8	385.9	359.7	77.6	51.9	35.4	28.1	30.1		
128.5	125.6	129.9	122.2	129.4	109.6	50.9	36.4	27.1	24.2	26.7		
76.1	75.1	75.1	75.1	73.2	68.4	33.5	25.2	20.8	20.4	22.3		
46.5	45.6	46.1	45.6	46.5	41.7	22.8	17.5	15.5	15.0	17.9		
26.7	26.7	27.1	26.2	26.7	25.7	16.0	11.2	10.2	9.7	13.1		
13.3	13.3	11.8	11.4	11.8	13.8	13.4	12.4	9.9	9.4	12.4		
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		

'226756
 ISW-AF-600-LED-E1-SL2-8030-ULG

REPORT NUMBER: P226756
 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°	679.2	679.2
147.0	147.0	147.0	147.0	147.0	149.0	150.0	148.0	143.0	134.0	2.5°	674.4	671.0
177.4	177.6	177.8	178.0	177.0	179.0	182.0	179.0	174.0	168.0	5°	636.1	626.9
208.4	208.6	208.8	209.0	208.0	210.0	215.0	211.0	205.0	202.0	7.5°	580.8	570.1
243.0	243.0	243.0	243.0	243.0	245.0	250.0	246.0	243.0	237.0	10°	517.8	501.8
276.4	276.6	276.8	277.0	276.0	278.0	283.0	279.0	277.0	271.0	12.5°	437.3	405.8
310.0	310.0	310.0	310.0	310.0	310.0	315.0	313.0	310.0	305.0	15°	344.2	302.0
345.8	346.2	346.6	347.0	345.0	346.0	346.0	345.0	340.0	339.0	17.5°	237.1	203.1
379.4	379.6	379.8	380.0	379.0	381.0	381.0	377.0	372.0	370.0	20°	166.3	153.7
414.4	414.6	414.8	415.0	414.0	414.0	416.0	411.0	405.0	404.0	22.5°	128.5	129.0
450.4	450.6	450.8	451.0	450.0	447.0	448.0	443.0	437.0	435.0	25°	106.7	111.5
481.4	481.6	481.8	482.0	481.0	476.0	475.0	473.0	468.0	464.0	27.5°	94.1	98.9
509.8	510.2	510.6	511.0	509.0	504.0	502.0	500.0	497.0	491.0	30°	86.3	90.7
534.8	535.2	535.6	536.0	534.0	533.0	533.0	527.0	525.0	521.0	32.5°	81.0	82.9
558.8	559.2	559.6	560.0	558.0	561.0	562.0	556.0	551.0	550.0	35°	74.7	75.6
583.8	584.2	584.6	585.0	583.0	586.0	585.0	580.0	575.0	574.0	37.5°	69.3	69.3
607.6	608.4	609.2	610.0	606.0	603.0	600.0	597.0	593.0	593.0	40°	64.5	64.0
625.0	626.0	627.0	628.0	623.0	618.0	614.0	611.0	610.0	610.0	42.5°	60.1	59.6
639.2	639.8	640.4	641.0	638.0	636.0	631.0	626.0	628.0	630.0	45°	55.8	56.2
652.0	653.0	654.0	655.0	650.0	650.0	648.0	644.0	645.0	646.0	47.5°	53.3	53.8
662.4	663.6	664.8	666.0	660.0	661.0	664.0	658.0	655.0	655.0	50°	50.9	51.4
670.4	671.6	672.8	674.0	668.0	670.0	671.0	667.0	663.0	661.0	52.5°	49.0	49.0
679.6	680.4	681.2	682.0	678.0	680.0	677.0	672.0	673.0	673.0	55°	47.0	46.5
690.4	691.6	692.8	694.0	688.0	688.0	684.0	678.0	685.0	688.0	57.5°	45.6	44.6
698.0	699.0	700.0	701.0	696.0	694.0	689.0	686.0	691.0	693.0	60°	44.1	43.1
698.0	699.0	700.0	701.0	696.0	694.0	692.0	689.0	690.0	690.0	62.5°	43.1	41.7
696.0	697.0	698.0	699.0	694.0	696.0	695.0	690.0	690.0	691.0	65°	42.2	41.2
699.6	700.4	701.2	702.0	698.0	701.0	699.0	694.0	695.0	697.0	66°	41.7	40.7
700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	67.5°	41.2	40.2
										70°	39.3	38.3
										72.5°	36.4	35.9
										75°	33.5	32.5
										77.5°	29.6	29.1
										80°	25.2	24.7
										82.5°	21.3	20.4
										85°	17.0	16.0
										87.5°	11.6	10.7
										90°	10.9	10.4
										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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REPORT NUMBER: P226756

CATALOG NUMBER: ISW-AF-600-LED-E1-

tinued):

175°	180°
679.2	679.2
668.1	672.4
623.9	622.5
561.4	561.9
485.8	486.7
387.8	382.0
277.8	280.2
193.4	193.0
155.1	156.1
132.8	132.8
118.3	118.3
104.2	104.7
94.5	95.5
85.8	86.3
77.1	77.6
69.8	69.8
65.0	65.4
61.6	61.6
58.2	58.2
55.3	56.2
52.4	52.8
49.5	49.9
46.5	46.5
44.1	44.1
42.2	41.7
40.7	39.8
39.3	38.8
38.8	38.3
38.3	37.8
37.3	36.8
35.9	35.4
33.0	32.0
30.1	29.1
27.6	26.2
23.3	22.3
17.0	16.0
10.2	10.2
7.4	7.4
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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<u>180°</u>
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

(END OF REPORT)