

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: P226889

Luminaire Tested: **ISW-AF-600-LED-E1-SL3-7030-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P226889
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35946)-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-SL3-7030-ULG
Description: IMPACT ELITE LED WEDGE LUMINAIRE WITH UPLIGHT
LIGHT SQUARE WITH ACCULED OPTICS-TYPE III 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: 5167 lumens
Efficiency: N/A
Efficacy: 102.5 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

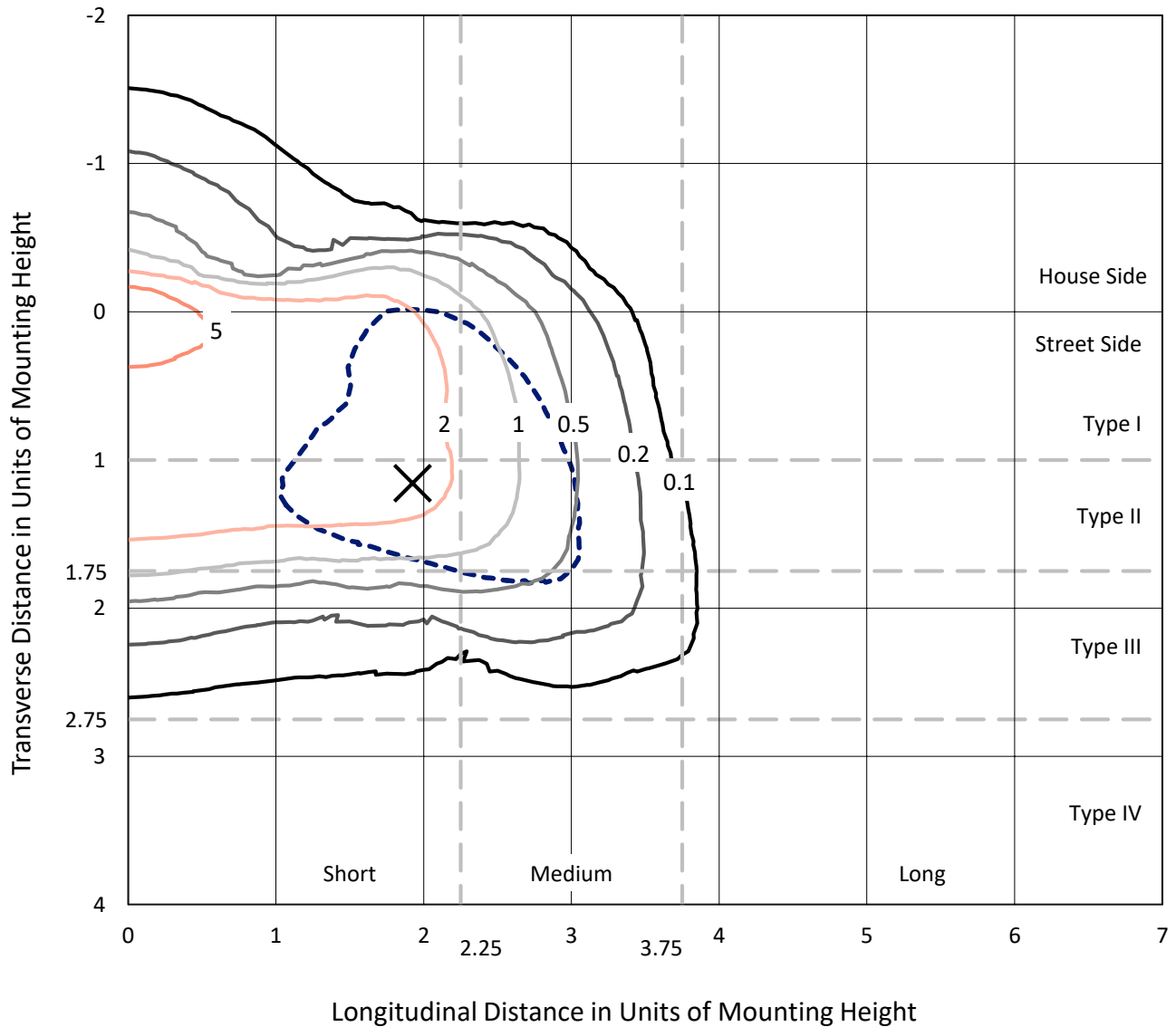
Input Watts (W): 50.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

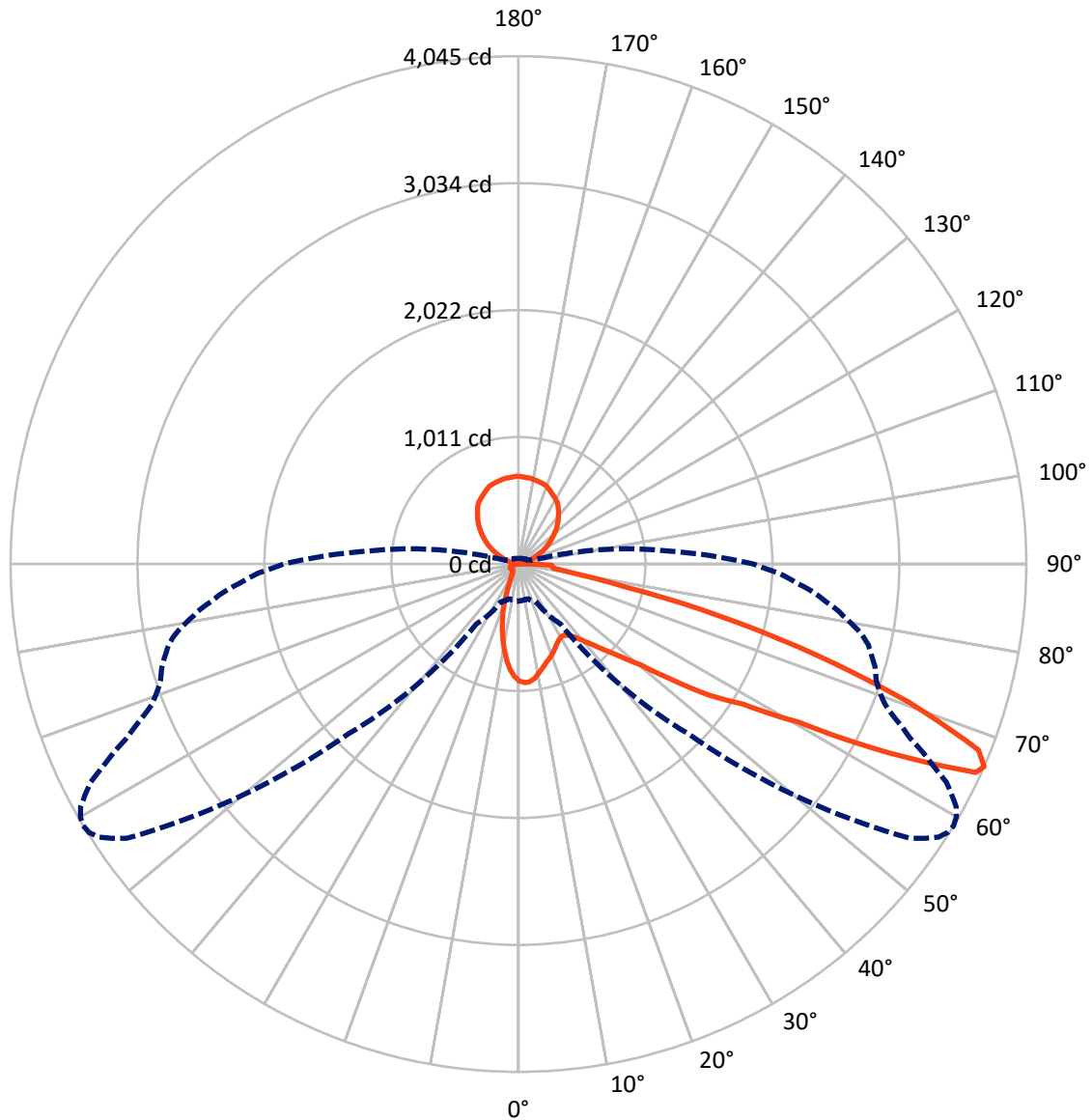


Based on 10 foot mounting height. Maximum calculated value = 9.3 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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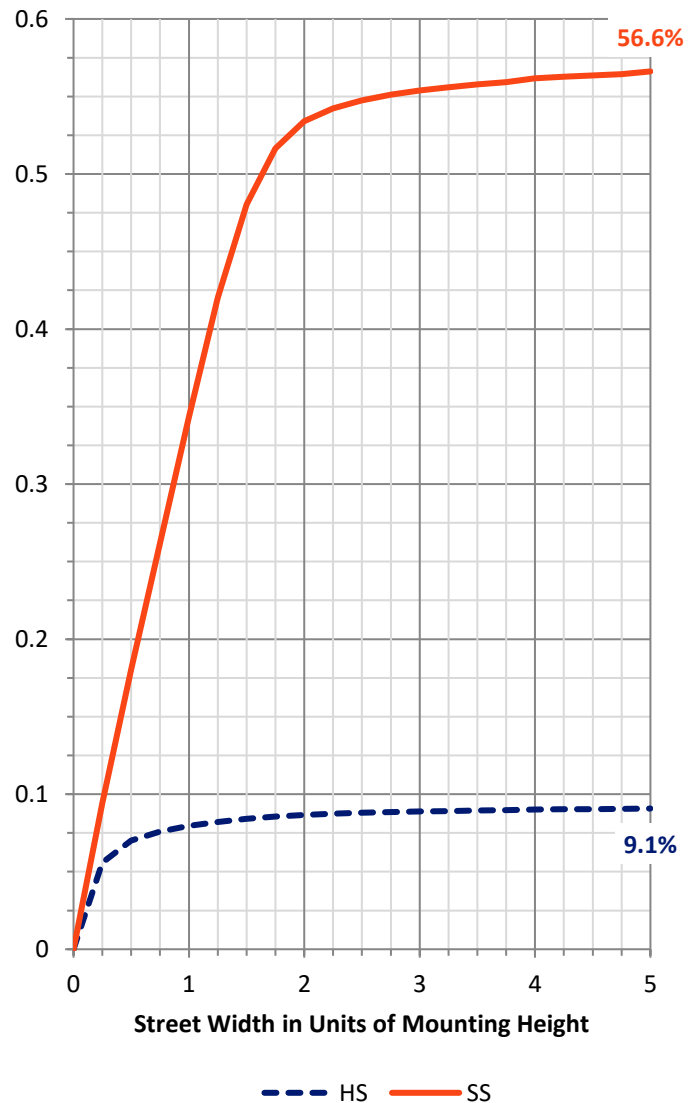
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	476.5	867.8	1344.3
	% Fixture	9.2	16.8	26.0
Street Side	Lumens	2953.8	868.8	3822.7
	% Fixture	57.2	16.8	74.0
Total	Lumens	3430.3	1736.6	5167.0
	% Fixture	66.4	33.6	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.4	1.5
10°-20°	167.8	3.2
20°-30°	210.5	4.1
30°-40°	288.0	5.6
40°-50°	463.4	9.0
50°-60°	805.2	15.6
60°-70°	978.3	18.9
70°-80°	364.9	7.1
80°-90°	72.8	1.4
90°-100°	10.7	0.2
100°-110°	57.4	1.1
110°-120°	166.1	3.2
120°-130°	273.2	5.3
130°-140°	336.8	6.5
140°-150°	344.6	6.7
150°-160°	290.3	5.6
160°-170°	191.2	3.7
170°-180°	66.3	1.3
0°-90°	3430.3	66.4
0°-180°	5167.0	100.0



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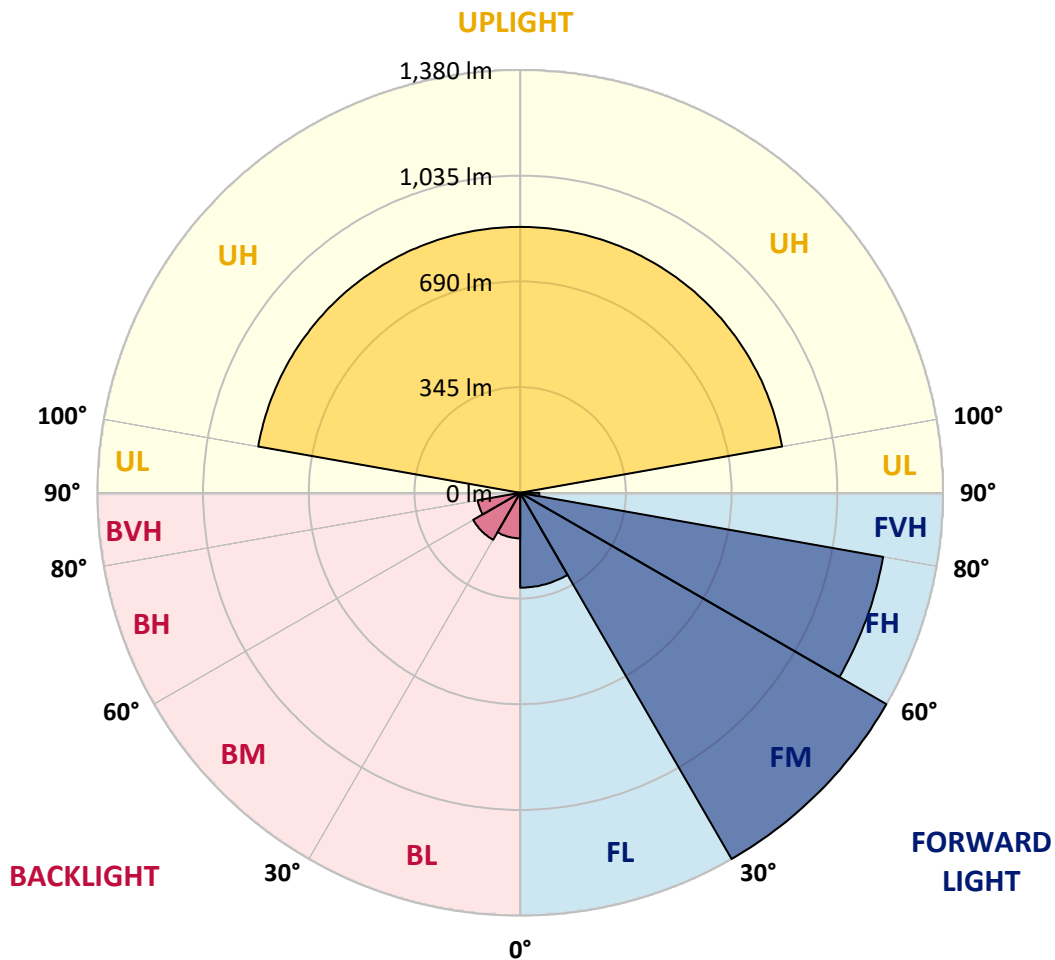
CATALOG NUMBER: ISW-AF-600-LED-E1-SL3-7030-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	309.4	6.0			
FM	(30°-60°)	1379.6	26.7			
FH	(60°-80°)	1202.4	23.3			G1/1800
FVH	(80°-90°)	62.4	1.2			G1/100
BL	(0°-30°)	148.4	2.9	B1/500		
BM	(30°-60°)	177.0	3.4	B0/220		
BH	(60°-80°)	140.8	2.7	B1/500		G1/500
BVH	(80°-90°)	10.4	0.2			G1/100
UL	(90°-100°)	10.7	0.2		U2/50	
UH	(100°-180°)	867.8	16.8		U4/1000	

BUG Rating: B1-U5-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	932.0	932.0	932.0	932.0	932.0	932.0	932.0	932.0	932.0	932.0	932.0
2.5°	956.2	953.1	958.9	956.8	958.3	950.5	948.9	947.3	948.4	946.8	946.8
5°	933.6	932.0	938.9	942.6	945.7	944.7	944.1	944.1	944.7	941.0	941.5
7.5°	867.3	866.3	875.8	882.6	897.9	906.8	918.4	918.9	919.9	918.4	921.5
10°	796.9	800.0	808.4	819.5	842.1	855.8	877.9	882.1	883.7	884.2	884.7
12.5°	729.5	726.4	736.9	757.9	788.5	810.5	838.4	840.5	843.2	846.8	850.5
15°	669.6	673.3	681.7	703.8	735.9	766.9	803.2	805.3	810.5	813.7	819.0
17.5°	628.6	628.6	638.0	658.5	688.5	728.0	773.7	777.4	781.6	785.8	791.6
20°	608.0	608.0	611.7	623.8	650.1	688.0	743.2	747.4	754.8	759.5	767.4
22.5°	606.5	605.9	605.4	608.0	623.8	653.3	710.6	716.4	722.7	730.1	736.9
25°	623.3	624.9	618.6	614.4	615.9	629.6	679.6	682.7	694.8	699.6	708.0
27.5°	647.5	650.1	644.9	638.5	629.1	620.1	653.3	658.5	666.4	674.3	684.8
30°	682.2	681.7	681.2	676.9	658.5	630.7	645.4	649.1	655.9	662.2	671.2
32.5°	719.5	723.8	726.9	724.8	705.9	658.5	656.4	659.6	665.9	669.6	675.4
35°	767.9	770.0	782.1	782.1	763.2	708.5	687.5	690.1	693.2	694.8	699.0
37.5°	821.1	828.4	846.3	856.8	827.4	770.6	736.4	736.4	738.0	739.0	741.6
40°	882.6	893.1	917.8	937.8	918.9	847.9	800.5	805.3	803.7	801.6	807.4
42.5°	954.1	965.7	995.7	1014.6	1003.6	941.0	886.8	883.7	888.4	882.1	884.2
45°	1037.2	1046.2	1076.7	1096.7	1105.6	1055.1	999.9	993.6	993.6	979.9	985.7
47.5°	1111.9	1114.6	1144.0	1179.3	1208.2	1209.2	1131.4	1127.2	1117.2	1108.2	1106.1
50°	1181.4	1189.3	1208.2	1246.6	1307.1	1359.7	1312.3	1299.2	1288.1	1255.0	1265.0
52.5°	1301.8	1317.1	1329.2	1352.3	1423.8	1530.6	1589.0	1568.5	1565.9	1535.9	1529.0
55°	1324.4	1326.0	1366.0	1499.6	1667.9	1744.7	1856.7	1856.2	1864.6	1855.1	1846.2
57.5°	1218.2	1205.6	1272.4	1448.6	1786.8	2181.3	2147.1	2150.8	2139.7	2110.8	2101.8
60°	948.9	959.4	1031.5	1256.1	1701.0	2463.2	2688.8	2622.0	2669.9	2594.7	2554.2
62.5°	533.9	521.8	570.7	806.9	1395.4	2477.9	3426.8	3434.2	3457.3	3415.2	3316.3
65°	344.5	339.3	334.5	408.2	836.3	2167.6	3835.0	3925.4	3979.6	4001.7	4003.3
66°	296.1	291.9	286.1	334.0	582.8	1909.9	3808.7	3905.4	3991.7	4032.7	4044.8
67.5°	251.9	245.6	244.6	276.7	405.5	1481.7	3557.8	3709.8	3786.0	3892.3	3950.1
70°	192.5	189.4	198.8	238.8	311.4	697.5	2835.1	3033.4	3164.8	3248.0	3301.6
72.5°	161.5	160.4	173.6	218.3	295.1	395.5	1984.5	2197.6	2334.8	2414.3	2487.9
75°	126.2	127.3	144.6	208.3	293.5	344.5	1153.0	1356.0	1435.9	1561.1	1656.9
77.5°	94.7	93.6	107.3	168.3	286.1	349.3	599.1	683.3	771.1	834.7	857.9
80°	66.3	67.3	76.8	115.7	223.0	359.2	373.4	392.9	411.3	431.8	436.0
82.5°	44.2	44.7	56.8	79.4	154.6	342.9	348.7	339.8	325.6	307.7	288.2
85°	26.8	27.9	40.5	53.7	119.9	310.3	360.8	337.2	315.6	291.9	268.3
87.5°	13.7	15.3	24.2	31.6	71.0	153.1	375.6	358.2	328.7	292.4	266.1
90°	8.7	8.7	12.3	15.9	22.2	38.0	101.7	92.4	50.0	88.6	47.8
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	7.1	7.2	7.3	7.4
97.5°	7.0	7.0	8.0	8.0	9.0	9.0	12.0	11.8	11.6	11.4	11.2
100°	8.0	8.0	9.0	10.0	12.0	21.0	29.0	28.7	28.4	28.1	27.8
102.5°	11.0	11.0	13.0	18.0	27.0	40.0	50.0	49.7	49.4	49.1	48.8
105°	21.0	22.0	27.0	36.0	48.0	63.0	72.0	71.8	71.6	71.4	71.2
107.5°	41.0	42.0	49.0	58.0	73.0	88.0	95.0	94.9	94.8	94.7	94.6



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CATALOG NUMBER: ISW-AF-600-LED-E1-SL3-7030-ULG

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
110°	66.0	68.0	74.0	87.0	102.0	114.0	120.0	120.1	120.2	120.3	120.4
112.5°	99.0	99.0	106.0	121.0	134.0	143.0	148.0	148.2	148.4	148.6	148.8
115°	140.0	139.0	147.0	159.0	168.0	174.0	179.0	179.3	179.6	179.9	180.2
117.5°	184.0	184.0	189.0	197.0	202.0	205.0	211.0	211.4	211.8	212.2	212.6
120°	225.0	223.0	226.0	233.0	237.0	243.0	246.0	246.4	246.8	247.2	247.6
122.5°	263.0	260.0	261.0	267.0	271.0	277.0	279.0	279.4	279.8	280.2	280.6
125°	298.0	294.0	296.0	299.0	305.0	310.0	313.0	313.2	313.4	313.6	313.8
127.5°	330.0	329.0	329.0	333.0	339.0	340.0	345.0	345.1	345.2	345.3	345.4
130°	363.0	361.0	362.0	366.0	370.0	372.0	377.0	377.4	377.8	378.2	378.6
132.5°	396.0	394.0	393.0	401.0	404.0	405.0	411.0	411.5	412.0	412.5	413.0
135°	429.0	426.0	426.0	432.0	435.0	437.0	443.0	443.5	444.0	444.5	445.0
137.5°	460.0	457.0	459.0	460.0	464.0	468.0	473.0	473.2	473.4	473.6	473.8
140°	488.0	485.0	487.0	489.0	491.0	497.0	500.0	500.2	500.4	500.6	500.8
142.5°	518.0	515.0	517.0	518.0	521.0	525.0	527.0	527.6	528.2	528.8	529.4
145°	550.0	546.0	544.0	547.0	550.0	551.0	556.0	556.6	557.2	557.8	558.4
147.5°	575.0	572.0	571.0	574.0	574.0	575.0	580.0	580.5	581.0	581.5	582.0
150°	595.0	592.0	593.0	593.0	593.0	593.0	597.0	597.3	597.6	597.9	598.2
152.5°	611.0	608.0	608.0	609.0	610.0	610.0	611.0	611.3	611.6	611.9	612.2
155°	629.0	625.0	625.0	627.0	630.0	628.0	626.0	626.5	627.0	627.5	628.0
157.5°	646.0	643.0	643.0	644.0	646.0	645.0	644.0	644.4	644.8	645.2	645.6
160°	663.0	660.0	659.0	656.0	655.0	655.0	658.0	658.6	659.2	659.8	660.4
162.5°	673.0	669.0	669.0	665.0	661.0	663.0	667.0	667.4	667.8	668.2	668.6
165°	681.0	678.0	676.0	676.0	673.0	673.0	672.0	672.5	673.0	673.5	674.0
167.5°	690.0	687.0	684.0	686.0	688.0	685.0	678.0	678.6	679.2	679.8	680.4
170°	698.0	695.0	692.0	692.0	693.0	691.0	686.0	686.3	686.6	686.9	687.2
172.5°	699.0	697.0	695.0	693.0	690.0	690.0	689.0	689.3	689.6	689.9	690.2
175°	700.0	698.0	697.0	695.0	691.0	690.0	690.0	690.5	691.0	691.5	692.0
177.5°	707.0	705.0	700.0	699.0	697.0	695.0	694.0	694.5	695.0	695.5	696.0
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):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	932.0	932.0	932.0	932.0	932.0	932.0	932.0	932.0	932.0	932.0	932.0
2.5°	946.2	947.3	946.2	944.7	946.2	944.7	944.1	943.6	944.1	943.1	942.6
5°	941.5	942.6	942.6	939.4	938.9	941.0	937.8	938.9	937.8	936.8	934.7
7.5°	918.9	919.4	919.9	917.8	919.4	919.4	918.4	918.4	917.3	917.8	915.7
10°	887.3	889.4	891.5	890.5	890.0	894.7	892.6	894.2	894.2	892.6	893.1
12.5°	853.1	856.8	859.5	859.5	861.6	866.8	866.3	867.3	871.6	871.6	870.0
15°	821.6	825.3	829.5	832.6	836.8	840.5	843.2	847.4	849.5	849.5	852.1
17.5°	796.9	802.1	806.9	808.4	814.2	820.5	822.1	827.4	830.5	832.1	835.3
20°	772.7	778.5	784.2	789.5	794.8	802.1	805.8	809.0	814.2	817.4	822.1
22.5°	744.3	753.2	760.6	766.9	775.8	782.1	789.5	794.8	801.1	805.8	809.5
25°	717.4	729.5	739.5	745.8	757.9	766.9	775.8	783.7	791.6	798.4	803.7
27.5°	692.7	706.4	718.5	728.5	741.6	755.8	764.8	777.9	788.5	797.9	804.2
30°	680.6	692.2	704.8	716.4	729.5	747.4	762.2	779.0	792.1	804.2	813.7
32.5°	683.3	693.8	704.8	714.8	728.5	748.5	763.7	783.2	802.7	818.4	830.5
35°	704.3	713.8	721.1	730.1	742.2	757.4	773.7	794.2	818.4	839.5	855.3
37.5°	748.5	751.1	758.5	765.3	771.6	785.8	801.1	818.4	846.3	868.4	890.5
40°	803.2	810.0	816.9	820.0	827.4	836.3	843.2	861.6	886.3	915.2	939.4
42.5°	884.7	887.3	888.4	889.4	892.1	898.4	908.4	925.2	949.4	975.2	1002.0
45°	976.2	979.4	982.5	984.1	980.4	984.1	994.6	1002.5	1026.2	1050.4	1084.6
47.5°	1103.0	1093.5	1088.8	1095.1	1091.9	1099.8	1104.6	1109.3	1137.7	1166.6	1195.6
50°	1265.5	1259.7	1252.4	1252.9	1258.7	1253.4	1256.6	1273.9	1283.4	1307.6	1346.0
52.5°	1525.4	1507.5	1479.6	1467.5	1474.3	1470.1	1471.7	1475.4	1469.1	1491.7	1524.3
55°	1846.2	1823.1	1804.7	1794.1	1755.2	1752.1	1726.3	1716.8	1696.3	1717.9	1710.5
57.5°	2075.0	2060.3	2050.8	2019.3	2001.4	1965.6	1955.1	1942.5	1914.1	1928.3	1940.9
60°	2516.8	2464.2	2446.4	2391.1	2372.7	2338.5	2294.9	2273.3	2258.6	2272.3	2263.8
62.5°	3254.3	3181.2	3167.0	3036.0	3003.9	2925.0	2842.9	2831.9	2785.6	2756.7	2749.8
65°	3974.3	3869.7	3791.3	3648.2	3551.4	3438.9	3313.7	3222.2	3128.0	3080.7	3018.1
66°	4028.0	3986.4	3907.5	3823.9	3682.9	3559.9	3417.8	3319.0	3213.2	3130.1	3076.5
67.5°	3936.5	3914.4	3886.5	3829.7	3741.3	3626.7	3492.0	3365.8	3238.5	3140.7	3054.9
70°	3327.4	3351.6	3383.1	3368.4	3317.9	3273.2	3154.3	3083.8	2988.1	2859.8	2807.2
72.5°	2511.6	2576.3	2554.2	2471.1	2432.2	2401.1	2358.0	2310.7	2173.4	2157.6	2095.5
75°	1615.8	1594.3	1608.5	1507.5	1438.6	1410.2	1307.6	1265.5	1162.4	1095.6	1044.6
77.5°	851.6	809.5	776.9	688.0	624.3	587.0	537.0	478.1	387.7	382.4	299.8
80°	395.0	362.9	333.5	302.4	271.4	230.4	199.9	163.1	144.1	123.6	115.2
82.5°	268.3	247.7	229.9	209.3	185.7	157.3	135.7	115.2	98.4	88.4	80.5
85°	243.0	220.9	200.9	175.2	150.4	126.8	103.6	85.7	70.0	61.0	55.8
87.5°	236.2	208.8	187.8	159.9	135.7	111.5	89.4	69.4	54.2	44.2	37.9
90°	38.0	40.3	31.5	30.7	18.3	21.1	17.9	14.3	14.8	13.2	13.7
92.5°	7.0	7.0	7.0	7.0	7.0	7.0	6.9	6.8	6.7	6.6	6.5
95°	7.5	7.6	7.7	7.8	7.9	8.0	7.9	7.8	7.7	7.6	7.5
97.5°	11.0	10.8	10.6	10.4	10.2	10.0	9.9	9.8	9.7	9.6	9.5
100°	27.5	27.2	26.9	26.6	26.3	26.0	25.7	25.4	25.1	24.8	24.5
102.5°	48.5	48.2	47.9	47.6	47.3	47.0	46.5	46.0	45.5	45.0	44.5
105°	71.0	70.8	70.6	70.4	70.2	70.0	69.5	69.0	68.5	68.0	67.5
107.5°	94.5	94.4	94.3	94.2	94.1	94.0	93.6	93.2	92.8	92.4	92.0



REPORT NUMBER: P226889

CATALOG NUMBER: ISW-AF-600-LED-E1-SL3-7030-ULG

CANDELA DISTRIBUTION (continued):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
110°	120.5	120.6	120.7	120.8	120.9	121.0	120.8	120.6	120.4	120.2	120.0
112.5°	149.0	149.2	149.4	149.6	149.8	150.0	149.9	149.8	149.7	149.6	149.5
115°	180.5	180.8	181.1	181.4	181.7	182.0	181.7	181.4	181.1	180.8	180.5
117.5°	213.0	213.4	213.8	214.2	214.6	215.0	214.5	214.0	213.5	213.0	212.5
120°	248.0	248.4	248.8	249.2	249.6	250.0	249.5	249.0	248.5	248.0	247.5
122.5°	281.0	281.4	281.8	282.2	282.6	283.0	282.5	282.0	281.5	281.0	280.5
125°	314.0	314.2	314.4	314.6	314.8	315.0	314.5	314.0	313.5	313.0	312.5
127.5°	345.5	345.6	345.7	345.8	345.9	346.0	346.0	346.0	346.0	346.0	346.0
130°	379.0	379.4	379.8	380.2	380.6	381.0	381.0	381.0	381.0	381.0	381.0
132.5°	413.5	414.0	414.5	415.0	415.5	416.0	415.8	415.6	415.4	415.2	415.0
135°	445.5	446.0	446.5	447.0	447.5	448.0	447.9	447.8	447.7	447.6	447.5
137.5°	474.0	474.2	474.4	474.6	474.8	475.0	475.1	475.2	475.3	475.4	475.5
140°	501.0	501.2	501.4	501.6	501.8	502.0	502.2	502.4	502.6	502.8	503.0
142.5°	530.0	530.6	531.2	531.8	532.4	533.0	533.0	533.0	533.0	533.0	533.0
145°	559.0	559.6	560.2	560.8	561.4	562.0	561.9	561.8	561.7	561.6	561.5
147.5°	582.5	583.0	583.5	584.0	584.5	585.0	585.1	585.2	585.3	585.4	585.5
150°	598.5	598.8	599.1	599.4	599.7	600.0	600.3	600.6	600.9	601.2	601.5
152.5°	612.5	612.8	613.1	613.4	613.7	614.0	614.4	614.8	615.2	615.6	616.0
155°	628.5	629.0	629.5	630.0	630.5	631.0	631.5	632.0	632.5	633.0	633.5
157.5°	646.0	646.4	646.8	647.2	647.6	648.0	648.2	648.4	648.6	648.8	649.0
160°	661.0	661.6	662.2	662.8	663.4	664.0	663.7	663.4	663.1	662.8	662.5
162.5°	669.0	669.4	669.8	670.2	670.6	671.0	670.9	670.8	670.7	670.6	670.5
165°	674.5	675.0	675.5	676.0	676.5	677.0	677.3	677.6	677.9	678.2	678.5
167.5°	681.0	681.6	682.2	682.8	683.4	684.0	684.4	684.8	685.2	685.6	686.0
170°	687.5	687.8	688.1	688.4	688.7	689.0	689.5	690.0	690.5	691.0	691.5
172.5°	690.5	690.8	691.1	691.4	691.7	692.0	692.2	692.4	692.6	692.8	693.0
175°	692.5	693.0	693.5	694.0	694.5	695.0	695.1	695.2	695.3	695.4	695.5
177.5°	696.5	697.0	697.5	698.0	698.5	699.0	699.2	699.4	699.6	699.8	700.0
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: P226889

CATALOG NUMBER: ISW-AF-600-LED-E1-SL3-7030-ULG

CANDELA DISTRIBUTION (continued):

	71°	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°
0°	932.0	932.0	932.0	932.0	932.0	932.0	932.0	932.0	932.0	932.0	932.0
2.5°	941.5	939.9	941.5	941.0	938.9	939.4	939.9	937.8	936.8	936.8	936.3
5°	933.1	932.0	933.1	932.6	929.4	928.9	928.9	927.3	925.2	923.6	922.6
7.5°	913.1	914.2	913.6	912.1	910.5	910.5	908.9	905.2	903.1	901.0	898.9
10°	890.5	890.5	891.0	890.5	887.9	886.8	884.7	882.6	883.1	877.9	873.7
12.5°	870.5	870.5	870.0	868.9	867.3	866.8	866.8	860.5	858.9	857.4	852.6
15°	851.6	852.6	852.6	852.6	850.0	850.0	847.4	843.2	843.2	838.4	833.7
17.5°	836.8	838.4	837.9	838.4	838.9	835.8	831.1	828.4	825.3	822.6	816.3
20°	824.2	825.3	825.8	825.8	824.2	822.1	817.9	813.7	811.6	806.3	798.4
22.5°	812.6	814.8	815.3	815.3	813.2	811.6	807.4	801.1	796.9	790.6	783.2
25°	807.9	810.5	809.0	810.0	807.9	804.2	798.4	793.2	786.9	779.0	771.1
27.5°	809.5	813.2	812.1	811.6	809.0	806.3	799.0	792.7	785.3	775.8	765.8
30°	819.0	825.3	822.6	820.5	820.0	813.7	806.9	797.9	789.5	778.5	766.9
32.5°	836.8	840.0	840.5	838.9	836.3	831.1	821.6	810.0	800.5	787.4	773.7
35°	866.3	869.5	868.4	868.4	865.8	857.4	845.8	834.2	821.1	806.3	792.1
37.5°	907.3	913.1	912.1	910.0	906.8	896.8	887.9	873.7	858.9	839.5	823.2
40°	958.9	967.8	975.7	974.1	966.8	957.8	949.4	933.1	918.4	896.8	878.9
42.5°	1028.3	1040.4	1050.4	1057.8	1054.6	1043.0	1028.3	1021.5	1000.4	978.3	959.9
45°	1117.2	1142.4	1151.4	1160.3	1160.3	1153.0	1149.8	1136.1	1114.0	1084.6	1067.2
47.5°	1234.5	1268.1	1278.1	1293.4	1302.3	1294.4	1288.7	1265.5	1250.8	1210.3	1206.1
50°	1377.0	1410.7	1438.0	1455.9	1453.3	1460.1	1446.5	1433.3	1412.8	1379.7	1368.1
52.5°	1559.0	1585.8	1610.6	1621.1	1632.1	1630.6	1627.4	1618.5	1592.7	1574.8	1545.3
55°	1745.7	1767.8	1797.8	1815.2	1829.4	1826.7	1814.6	1793.1	1797.8	1760.5	1744.2
57.5°	1958.2	1982.4	2015.0	2031.4	2037.7	2069.7	2061.9	2059.2	2050.3	2037.1	2020.3
60°	2323.8	2330.6	2357.5	2398.5	2449.0	2439.0	2451.6	2460.0	2466.3	2436.9	2434.8
62.5°	2759.3	2767.7	2790.9	2799.3	2806.7	2807.7	2790.9	2790.9	2761.9	2724.1	2694.6
65°	2997.1	2979.7	2963.9	2955.0	2935.5	2918.2	2892.9	2858.7	2809.8	2751.4	2698.8
66°	3031.2	2996.0	2975.5	2952.9	2921.8	2889.8	2859.8	2813.0	2755.6	2686.2	2616.8
67.5°	2998.1	2949.7	2901.9	2868.7	2825.6	2767.7	2715.1	2660.4	2606.3	2511.1	2446.4
70°	2695.7	2637.8	2585.2	2512.6	2444.3	2387.4	2297.0	2201.8	2123.4	2023.5	1959.8
72.5°	2001.9	1933.5	1865.1	1763.1	1663.7	1649.0	1535.3	1423.3	1363.4	1282.9	1218.2
75°	988.9	902.6	780.0	725.3	645.9	607.0	585.4	504.4	485.0	405.5	404.5
77.5°	279.3	239.8	213.0	185.7	174.1	165.7	136.8	131.0	118.9	116.8	109.9
80°	105.7	99.9	97.3	94.7	92.0	90.5	89.4	85.2	83.1	79.9	78.4
82.5°	76.3	74.2	69.4	67.9	65.7	62.6	62.1	59.4	57.9	54.7	53.7
85°	51.5	48.9	46.3	43.7	42.6	42.1	40.5	39.4	38.4	36.8	36.3
87.5°	34.7	32.1	28.9	27.9	27.4	27.9	28.4	27.4	26.8	25.8	25.2
90°	13.2	14.8	14.3	14.3	15.3	14.1	13.9	14.2	13.5	13.3	12.5
92.5°	6.4	6.3	6.2	6.1	6.0	6.0	6.0	6.0	6.0	6.0	6.0
95°	7.4	7.3	7.2	7.1	7.0	7.0	7.0	7.0	7.0	7.0	7.0
97.5°	9.4	9.3	9.2	9.1	9.0	8.9	8.8	8.7	8.6	8.5	8.4
100°	24.2	23.9	23.6	23.3	23.0	22.6	22.2	21.8	21.4	21.0	20.6
102.5°	44.0	43.5	43.0	42.5	42.0	41.7	41.4	41.1	40.8	40.5	40.2
105°	67.0	66.5	66.0	65.5	65.0	64.6	64.2	63.8	63.4	63.0	62.6
107.5°	91.6	91.2	90.8	90.4	90.0	89.7	89.4	89.1	88.8	88.5	88.2



REPORT NUMBER: P226889
 CATALOG NUMBER: ISW-AF-600-LED-E1-SL3-7030-ULG

REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	71°	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	
110°	119.8	119.6	119.4	119.2	119.0	118.7	118.4	118.1	117.8	117.5	117.2	0°
112.5°	149.4	149.3	149.2	149.1	149.0	148.8	148.6	148.4	148.2	148.0	147.8	2.5°
115°	180.2	179.9	179.6	179.3	179.0	178.8	178.6	178.4	178.2	178.0	177.8	5°
117.5°	212.0	211.5	211.0	210.5	210.0	209.8	209.6	209.4	209.2	209.0	208.8	7.5°
120°	247.0	246.5	246.0	245.5	245.0	244.8	244.6	244.4	244.2	244.0	243.8	10°
122.5°	280.0	279.5	279.0	278.5	278.0	277.8	277.6	277.4	277.2	277.0	276.8	12.5°
125°	312.0	311.5	311.0	310.5	310.0	310.0	310.0	310.0	310.0	310.0	310.0	15°
127.5°	346.0	346.0	346.0	346.0	346.0	345.9	345.8	345.7	345.6	345.5	345.4	17.5°
130°	381.0	381.0	381.0	381.0	381.0	380.8	380.6	380.4	380.2	380.0	379.8	20°
132.5°	414.8	414.6	414.4	414.2	414.0	414.0	414.0	414.0	414.0	414.0	414.0	22.5°
135°	447.4	447.3	447.2	447.1	447.0	447.3	447.6	447.9	448.2	448.5	448.8	25°
137.5°	475.6	475.7	475.8	475.9	476.0	476.5	477.0	477.5	478.0	478.5	479.0	27.5°
140°	503.2	503.4	503.6	503.8	504.0	504.5	505.0	505.5	506.0	506.5	507.0	30°
142.5°	533.0	533.0	533.0	533.0	533.0	533.1	533.2	533.3	533.4	533.5	533.6	32.5°
145°	561.4	561.3	561.2	561.1	561.0	560.7	560.4	560.1	559.8	559.5	559.2	35°
147.5°	585.6	585.7	585.8	585.9	586.0	585.7	585.4	585.1	584.8	584.5	584.2	37.5°
150°	601.8	602.1	602.4	602.7	603.0	603.3	603.6	603.9	604.2	604.5	604.8	40°
152.5°	616.4	616.8	617.2	617.6	618.0	618.5	619.0	619.5	620.0	620.5	621.0	42.5°
155°	634.0	634.5	635.0	635.5	636.0	636.2	636.4	636.6	636.8	637.0	637.2	45°
157.5°	649.2	649.4	649.6	649.8	650.0	650.0	650.0	650.0	650.0	650.0	650.0	47.5°
160°	662.2	661.9	661.6	661.3	661.0	660.9	660.8	660.7	660.6	660.5	660.4	50°
162.5°	670.4	670.3	670.2	670.1	670.0	669.8	669.6	669.4	669.2	669.0	668.8	52.5°
165°	678.8	679.1	679.4	679.7	680.0	679.8	679.6	679.4	679.2	679.0	678.8	55°
167.5°	686.4	686.8	687.2	687.6	688.0	688.0	688.0	688.0	688.0	688.0	688.0	57.5°
170°	692.0	692.5	693.0	693.5	694.0	694.2	694.4	694.6	694.8	695.0	695.2	60°
172.5°	693.2	693.4	693.6	693.8	694.0	694.2	694.4	694.6	694.8	695.0	695.2	62.5°
175°	695.6	695.7	695.8	695.9	696.0	695.8	695.6	695.4	695.2	695.0	694.8	65°
177.5°	700.2	700.4	700.6	700.8	701.0	700.7	700.4	700.1	699.8	699.5	699.2	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: P226889
 NUMBER: ISW-AF-600-LED-E1-SL3-7030-ULG

REPORT NUMBER: P
 CATALOG NUMBER:

DISTRIBUTION (continued):

CANDELA DISTRIBUTION

82°	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	82°	
932.0	932.0	932.0	932.0	932.0	932.0	932.0	932.0	932.0	932.0	932.0	110°	116.9
935.2	933.6	934.1	932.0	931.5	932.6	933.1	933.1	931.5	922.1	911.0	112.5°	147.6
921.5	918.4	917.8	916.3	913.6	916.8	915.2	912.6	909.4	898.4	876.8	115°	177.6
896.3	894.2	891.5	889.4	887.9	886.8	886.3	883.7	877.9	857.4	821.1	117.5°	208.6
872.1	869.5	866.3	861.6	859.5	856.3	856.3	850.0	845.8	820.0	766.4	120°	243.6
848.4	843.7	842.1	838.9	833.2	830.5	826.8	820.5	814.2	783.2	712.7	122.5°	276.6
830.5	825.8	819.0	816.9	810.5	804.8	800.0	791.6	784.8	743.7	656.4	125°	310.0
811.1	807.4	800.0	795.3	788.5	781.6	773.7	763.2	758.5	706.4	602.8	127.5°	345.3
795.3	786.9	778.5	774.2	765.8	757.9	750.1	737.4	728.0	669.6	546.0	130°	379.6
776.9	769.5	760.6	753.2	741.6	732.7	723.8	710.6	699.0	632.2	488.6	132.5°	414.0
764.3	753.7	744.3	735.9	722.7	712.2	699.6	685.4	673.8	596.5	425.5	135°	449.1
756.9	746.4	734.3	723.8	708.5	696.4	682.7	666.9	652.2	567.5	366.1	137.5°	479.5
754.8	742.2	729.5	716.4	700.6	685.4	669.1	653.3	634.3	539.7	301.4	140°	507.5
761.1	745.8	731.6	715.9	697.5	680.1	663.8	643.3	624.3	515.5	237.7	142.5°	533.7
778.5	760.0	743.7	726.4	705.3	686.4	666.9	643.8	622.8	498.6	182.0	145°	558.9
805.8	788.5	769.5	752.2	728.0	706.9	685.4	660.6	635.4	491.8	137.3	147.5°	583.9
861.0	837.9	818.4	800.0	772.1	750.6	725.9	695.9	667.5	498.1	114.7	150°	605.1
938.4	909.4	891.5	875.2	840.5	816.9	788.5	754.3	722.2	516.0	101.0	152.5°	621.5
1045.1	1023.0	991.0	965.7	930.5	904.2	872.6	831.6	795.8	541.2	94.2	155°	637.4
1178.7	1149.8	1118.2	1092.5	1054.1	1008.3	975.2	925.7	885.2	580.7	91.0	157.5°	650.0
1342.3	1307.6	1265.0	1243.4	1190.3	1154.5	1110.4	1057.2	1005.7	641.7	92.6	160°	660.3
1520.1	1482.8	1449.6	1408.6	1360.2	1320.2	1278.1	1221.9	1157.2	757.4	98.9	162.5°	668.6
1707.9	1683.7	1652.1	1599.0	1572.7	1522.2	1468.5	1406.5	1359.7	907.8	114.1	165°	678.6
1981.4	1955.1	1951.4	1899.3	1859.4	1813.6	1771.5	1720.0	1664.7	1175.0	149.9	167.5°	688.0
2402.2	2374.8	2343.8	2303.3	2255.9	2199.1	2147.1	2077.6	2016.1	1442.8	166.7	170°	695.4
2651.5	2601.0	2545.2	2483.7	2414.8	2344.3	2274.4	2185.5	2096.0	1459.1	150.4	172.5°	695.4
2630.4	2567.9	2496.8	2413.2	2340.6	2253.8	2178.6	2064.0	1982.4	1299.2	122.6	175°	694.6
2552.6	2466.9	2400.1	2323.3	2232.3	2154.4	2075.0	1961.9	1868.8	1191.4	112.0	177.5°	698.9
2353.3	2280.1	2187.6	2113.9	2046.6	1953.5	1878.8	1773.1	1708.9	1033.0	100.5	180°	700.0
1880.9	1779.9	1701.6	1644.2	1568.0	1483.8	1417.5	1328.6	1271.8	683.8	86.8		
1095.6	1070.4	982.5	933.1	886.8	818.4	765.8	723.2	648.5	331.4	76.8		
337.7	314.0	310.9	264.0	279.3	238.8	232.5	211.4	211.4	127.3	60.5		
107.8	105.7	101.5	95.7	93.6	93.6	91.0	90.5	86.3	68.4	45.2		
76.3	74.7	73.1	71.5	70.5	71.0	68.9	67.9	66.8	49.4	35.8		
52.6	51.0	47.9	47.9	46.8	46.3	46.8	44.7	44.2	34.7	30.0		
35.8	35.2	34.7	34.2	33.7	33.1	32.6	31.0	30.0	24.2	21.0		
23.7	20.0	19.5	16.8	16.3	15.8	14.7	15.8	17.4	17.4	13.7		
12.9	12.1	12.5	12.3	11.2	11.7	11.7	10.7	10.7	12.3	13.7		
6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0		
7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0		
8.3	8.2	8.1	8.0	8.0	8.0	8.0	8.0	8.0	8.0	9.0		
20.2	19.8	19.4	19.0	19.0	19.0	19.0	19.0	19.0	19.0	23.0		
39.9	39.6	39.3	39.0	38.8	38.6	38.4	38.2	38.0	39.0	42.0		
62.2	61.8	61.4	61.0	61.0	61.0	61.0	61.0	61.0	61.0	65.0		
87.9	87.6	87.3	87.0	86.8	86.6	86.4	86.2	86.0	87.0	90.0		

'226889
 ISW-AF-600-LED-E1-SL3-7030-ULG

REPORT NUMBER: P226889
 CATALOG NUMBER: ISW-AF-60

TION (continued):

CANDELA DISTRIBUTION (con

83°	84°	85°	86°	87°	88°	89°	90°	95°	105°		115°	125°
116.6	116.3	116.0	116.2	116.4	116.6	116.8	117.0	116.0	119.0	0°	932.0	932.0
147.4	147.2	147.0	147.0	147.0	147.0	147.0	147.0	147.0	149.0	2.5°	901.5	893.1
177.4	177.2	177.0	177.2	177.4	177.6	177.8	178.0	177.0	179.0	5°	853.7	834.7
208.4	208.2	208.0	208.2	208.4	208.6	208.8	209.0	208.0	210.0	7.5°	789.0	752.2
243.4	243.2	243.0	243.0	243.0	243.0	243.0	243.0	243.0	245.0	10°	714.8	661.7
276.4	276.2	276.0	276.2	276.4	276.6	276.8	277.0	276.0	278.0	12.5°	638.0	570.2
310.0	310.0	310.0	310.0	310.0	310.0	310.0	310.0	310.0	310.0	15°	566.5	476.5
345.2	345.1	345.0	345.4	345.8	346.2	346.6	347.0	345.0	346.0	17.5°	491.3	380.3
379.4	379.2	379.0	379.2	379.4	379.6	379.8	380.0	379.0	381.0	20°	419.2	287.2
414.0	414.0	414.0	414.2	414.4	414.6	414.8	415.0	414.0	414.0	22.5°	337.7	201.5
449.4	449.7	450.0	450.2	450.4	450.6	450.8	451.0	450.0	447.0	25°	247.7	146.2
480.0	480.5	481.0	481.2	481.4	481.6	481.8	482.0	481.0	476.0	27.5°	176.7	116.8
508.0	508.5	509.0	509.4	509.8	510.2	510.6	511.0	509.0	504.0	30°	132.0	98.4
533.8	533.9	534.0	534.4	534.8	535.2	535.6	536.0	534.0	533.0	32.5°	105.7	85.2
558.6	558.3	558.0	558.4	558.8	559.2	559.6	560.0	558.0	561.0	35°	89.9	77.3
583.6	583.3	583.0	583.4	583.8	584.2	584.6	585.0	583.0	586.0	37.5°	80.5	72.1
605.4	605.7	606.0	606.8	607.6	608.4	609.2	610.0	606.0	603.0	40°	75.2	69.4
622.0	622.5	623.0	624.0	625.0	626.0	627.0	628.0	623.0	618.0	42.5°	72.1	66.8
637.6	637.8	638.0	638.6	639.2	639.8	640.4	641.0	638.0	636.0	45°	70.5	65.2
650.0	650.0	650.0	651.0	652.0	653.0	654.0	655.0	650.0	650.0	47.5°	69.4	63.1
660.2	660.1	660.0	661.2	662.4	663.6	664.8	666.0	660.0	661.0	50°	68.4	63.1
668.4	668.2	668.0	669.2	670.4	671.6	672.8	674.0	668.0	670.0	52.5°	68.9	64.2
678.4	678.2	678.0	678.8	679.6	680.4	681.2	682.0	678.0	680.0	55°	71.5	64.2
688.0	688.0	688.0	689.2	690.4	691.6	692.8	694.0	688.0	688.0	57.5°	75.7	64.2
695.6	695.8	696.0	697.0	698.0	699.0	700.0	701.0	696.0	694.0	60°	78.9	65.2
695.6	695.8	696.0	697.0	698.0	699.0	700.0	701.0	696.0	694.0	62.5°	79.9	67.3
694.4	694.2	694.0	695.0	696.0	697.0	698.0	699.0	694.0	696.0	65°	78.9	68.4
698.6	698.3	698.0	698.8	699.6	700.4	701.2	702.0	698.0	701.0	66°	77.8	68.4
700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	67.5°	76.3	67.3
										70°	72.6	63.1
										72.5°	65.2	56.8
										75°	55.8	45.8
										77.5°	45.2	36.8
										80°	33.7	27.9
										82.5°	24.7	21.6
										85°	17.4	15.3
										87.5°	10.5	9.5
										90°	11.6	9.6
										92.5°	7.0	7.0
										95°	8.0	7.0
										97.5°	10.0	12.0
										100°	26.0	29.0
										102.5°	47.0	50.0
										105°	70.0	72.0
										107.5°	94.0	95.0



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tinued):

135°	145°	155°	165°	175°	180°
932.0	932.0	932.0	932.0	932.0	932.0
887.3	886.8	873.7	871.0	862.1	866.8
812.1	803.2	779.5	774.8	764.8	762.2
722.2	697.5	678.5	657.5	637.5	647.5
617.0	575.4	533.9	506.5	495.5	491.8
517.0	442.4	390.3	336.6	317.7	324.5
396.1	310.9	241.4	210.4	192.5	189.4
279.3	199.3	167.3	159.4	155.7	155.7
189.4	152.0	139.9	136.2	136.2	136.8
144.1	127.8	122.6	123.1	125.2	125.7
119.4	113.1	110.5	114.1	118.3	118.9
103.1	101.5	102.0	106.8	111.0	111.5
90.5	92.0	94.2	98.4	102.0	103.1
81.5	84.2	85.7	88.4	90.5	91.0
75.2	78.4	77.8	79.4	81.0	81.5
71.5	73.1	71.5	72.6	72.6	73.6
68.4	68.9	66.3	66.8	67.9	67.9
65.2	64.7	62.1	63.1	64.7	65.2
62.1	61.0	58.9	61.0	63.6	64.2
59.4	58.4	57.3	60.0	63.1	63.6
58.4	57.3	56.3	60.0	63.1	63.6
58.4	57.3	56.3	58.9	62.1	62.6
58.9	57.9	55.8	58.4	60.5	61.0
59.4	58.4	54.7	56.3	57.3	57.9
59.4	57.3	53.7	54.2	54.2	54.7
58.4	55.8	51.5	51.5	51.0	51.0
58.4	53.7	49.4	48.4	47.3	47.3
57.9	53.1	48.9	47.3	45.8	45.8
56.8	52.1	47.9	45.8	44.2	44.2
53.1	50.0	45.2	43.1	41.6	41.0
47.3	45.8	42.1	40.5	38.9	38.4
40.0	40.5	38.4	37.3	35.8	35.2
33.7	34.7	33.7	33.1	32.1	31.6
26.8	28.9	27.9	27.9	28.4	27.4
20.5	23.1	22.1	23.1	24.2	22.6
14.2	16.8	16.8	17.4	17.9	16.8
8.9	11.0	10.5	11.0	11.0	10.5
9.1	11.7	10.1	10.2	7.6	7.1
6.0	6.0	6.0	5.0	4.0	4.0
7.0	7.0	7.0	6.0	5.0	5.0
9.0	9.0	8.0	8.0	7.0	7.0
21.0	12.0	10.0	9.0	8.0	8.0
40.0	27.0	18.0	13.0	11.0	11.0
63.0	48.0	36.0	27.0	22.0	21.0
88.0	73.0	58.0	49.0	42.0	41.0

CANDELA DISTRIBUTION (continued):

	115°	125°	135°
110°	121.0	120.0	114.0
112.5°	150.0	148.0	143.0
115°	182.0	179.0	174.0
117.5°	215.0	211.0	205.0
120°	250.0	246.0	243.0
122.5°	283.0	279.0	277.0
125°	315.0	313.0	310.0
127.5°	346.0	345.0	340.0
130°	381.0	377.0	372.0
132.5°	416.0	411.0	405.0
135°	448.0	443.0	437.0
137.5°	475.0	473.0	468.0
140°	502.0	500.0	497.0
142.5°	533.0	527.0	525.0
145°	562.0	556.0	551.0
147.5°	585.0	580.0	575.0
150°	600.0	597.0	593.0
152.5°	614.0	611.0	610.0
155°	631.0	626.0	628.0
157.5°	648.0	644.0	645.0
160°	664.0	658.0	655.0
162.5°	671.0	667.0	663.0
165°	677.0	672.0	673.0
167.5°	684.0	678.0	685.0
170°	689.0	686.0	691.0
172.5°	692.0	689.0	690.0
175°	695.0	690.0	690.0
177.5°	699.0	694.0	695.0
180°	700.0	700.0	700.0



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145°	155°	165°	175°	180°
102.0	87.0	74.0	68.0	66.0
134.0	121.0	106.0	99.0	99.0
168.0	159.0	147.0	139.0	140.0
202.0	197.0	189.0	184.0	184.0
237.0	233.0	226.0	223.0	225.0
271.0	267.0	261.0	260.0	263.0
305.0	299.0	296.0	294.0	298.0
339.0	333.0	329.0	329.0	330.0
370.0	366.0	362.0	361.0	363.0
404.0	401.0	393.0	394.0	396.0
435.0	432.0	426.0	426.0	429.0
464.0	460.0	459.0	457.0	460.0
491.0	489.0	487.0	485.0	488.0
521.0	518.0	517.0	515.0	518.0
550.0	547.0	544.0	546.0	550.0
574.0	574.0	571.0	572.0	575.0
593.0	593.0	593.0	592.0	595.0
610.0	609.0	608.0	608.0	611.0
630.0	627.0	625.0	625.0	629.0
646.0	644.0	643.0	643.0	646.0
655.0	656.0	659.0	660.0	663.0
661.0	665.0	669.0	669.0	673.0
673.0	676.0	676.0	678.0	681.0
688.0	686.0	684.0	687.0	690.0
693.0	692.0	692.0	695.0	698.0
690.0	693.0	695.0	697.0	699.0
691.0	695.0	697.0	698.0	700.0
697.0	699.0	700.0	705.0	707.0
700.0	700.0	700.0	700.0	700.0

(END OF REPORT)