

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: P226750

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P226750  
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-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) 4000K CCT, 70 CRI LEDs and (1) UPLIGHT LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

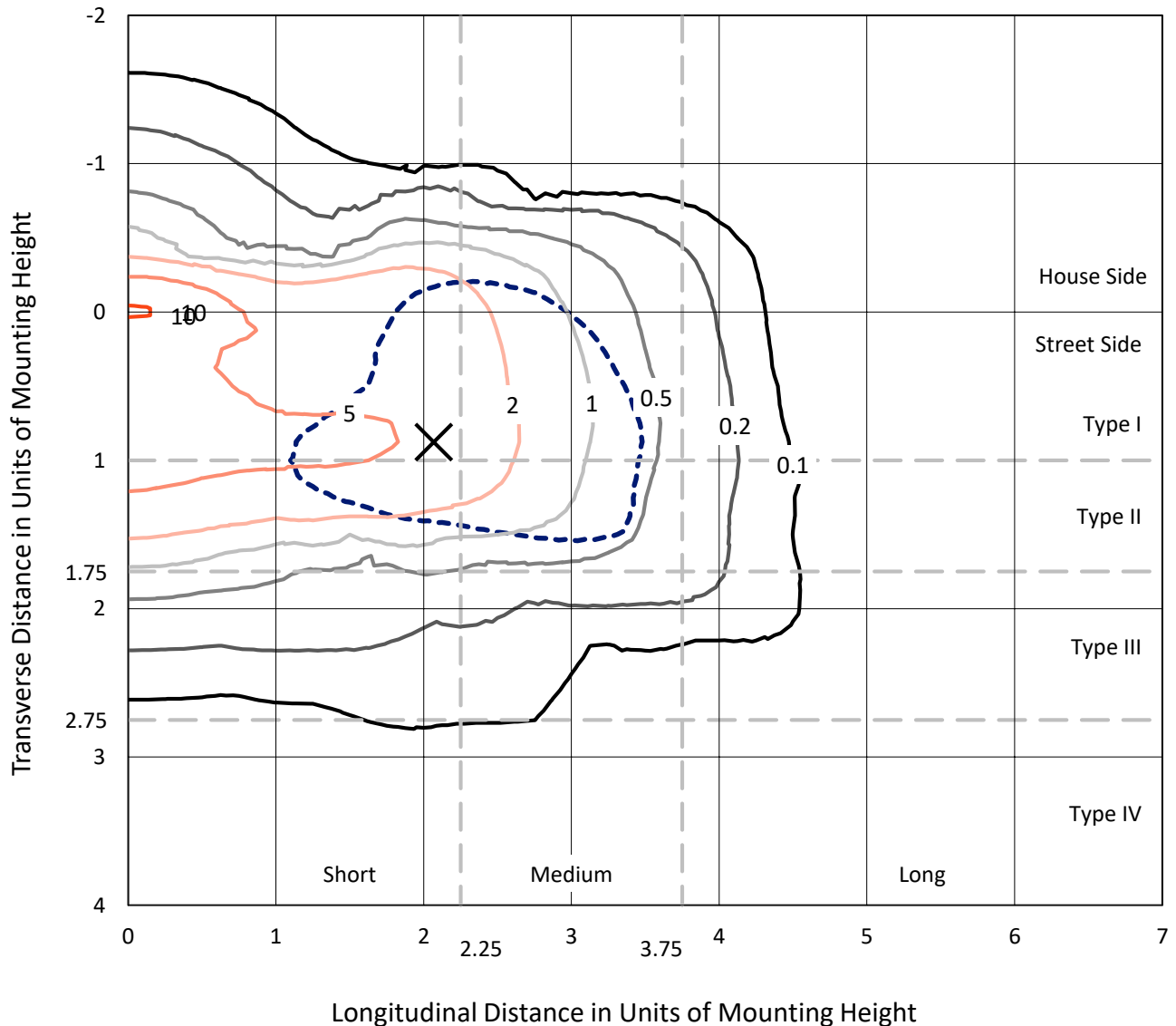
Lumens per Lamp: N/A  
Luminaire Lumens: 6839.7 lumens  
Efficiency: N/A  
Efficacy: 113.6 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 0.54')  
IES Classification: Type II - Short - Non-Cutoff  
BUG Rating: B1 - U5 - G1  
  
Input Watts (W): 60.2  
Input Voltage (V): 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

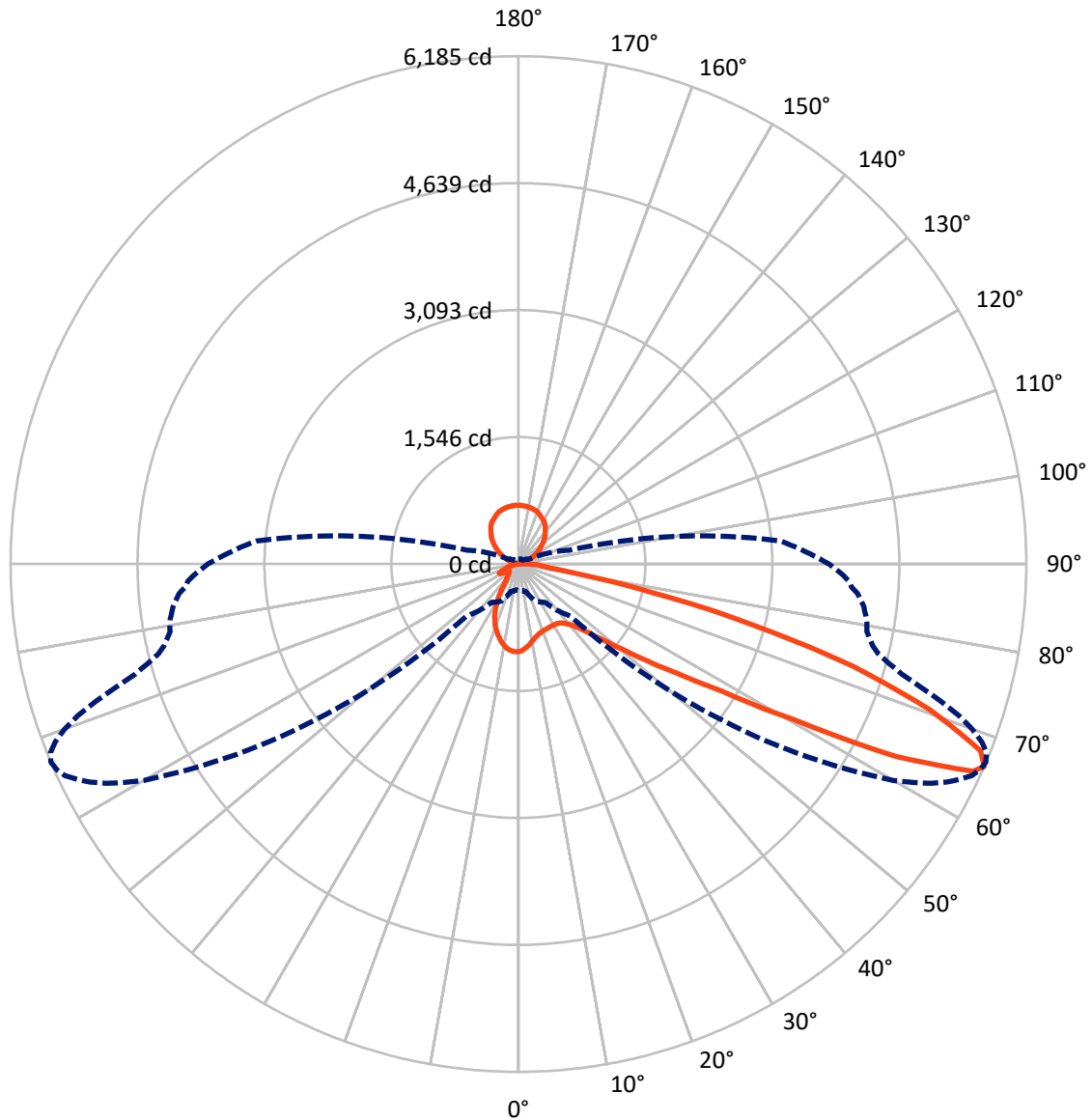
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.7 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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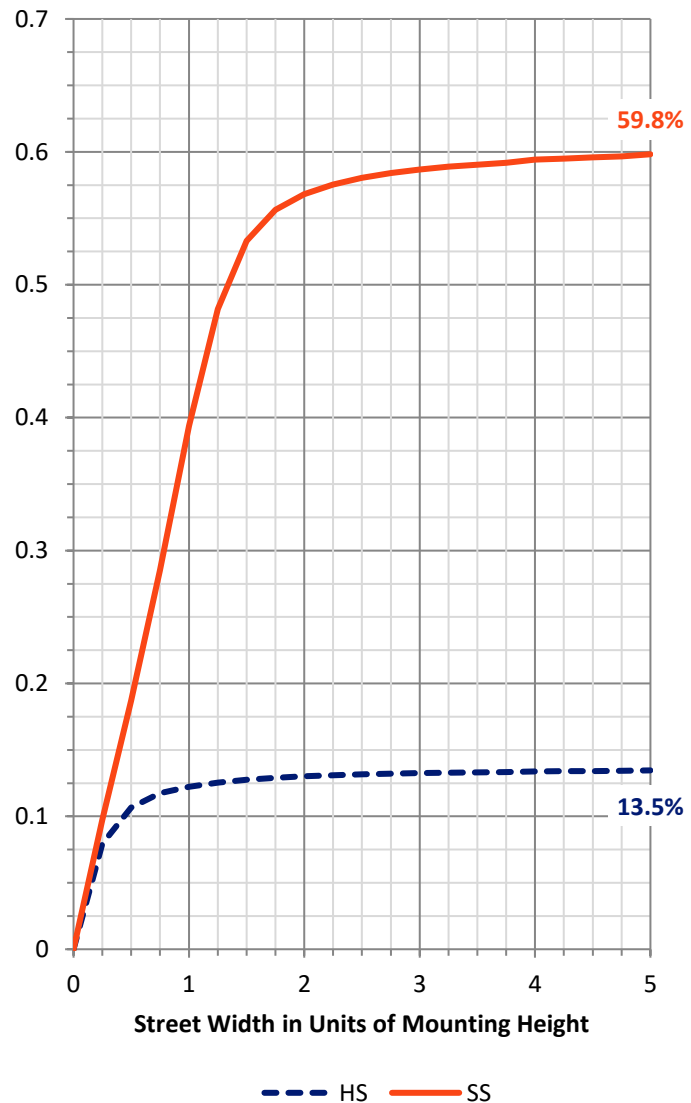
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	935.5	887.9	1823.4
	% Fixture	13.7	13.0	26.7
<b>Street Side</b>	Lumens	4127.4	888.9	5016.4
	% Fixture	60.3	13.0	73.3
<b>Total</b>	Lumens	5062.9	1776.8	6839.7
	% Fixture	74.0	26.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	92.4	1.4
10°-20°	220.0	3.2
20°-30°	301.7	4.4
30°-40°	431.0	6.3
40°-50°	698.8	10.2
50°-60°	1107.2	16.2
60°-70°	1403.0	20.5
70°-80°	697.4	10.2
80°-90°	111.5	1.6
90°-100°	11.3	0.2
100°-110°	58.7	0.9
110°-120°	169.9	2.5
120°-130°	279.4	4.1
130°-140°	344.6	5.0
140°-150°	352.5	5.2
150°-160°	297.0	4.3
160°-170°	195.5	2.9
170°-180°	67.8	1.0
0°-90°	5062.9	74.0
0°-180°	6839.7	100.0



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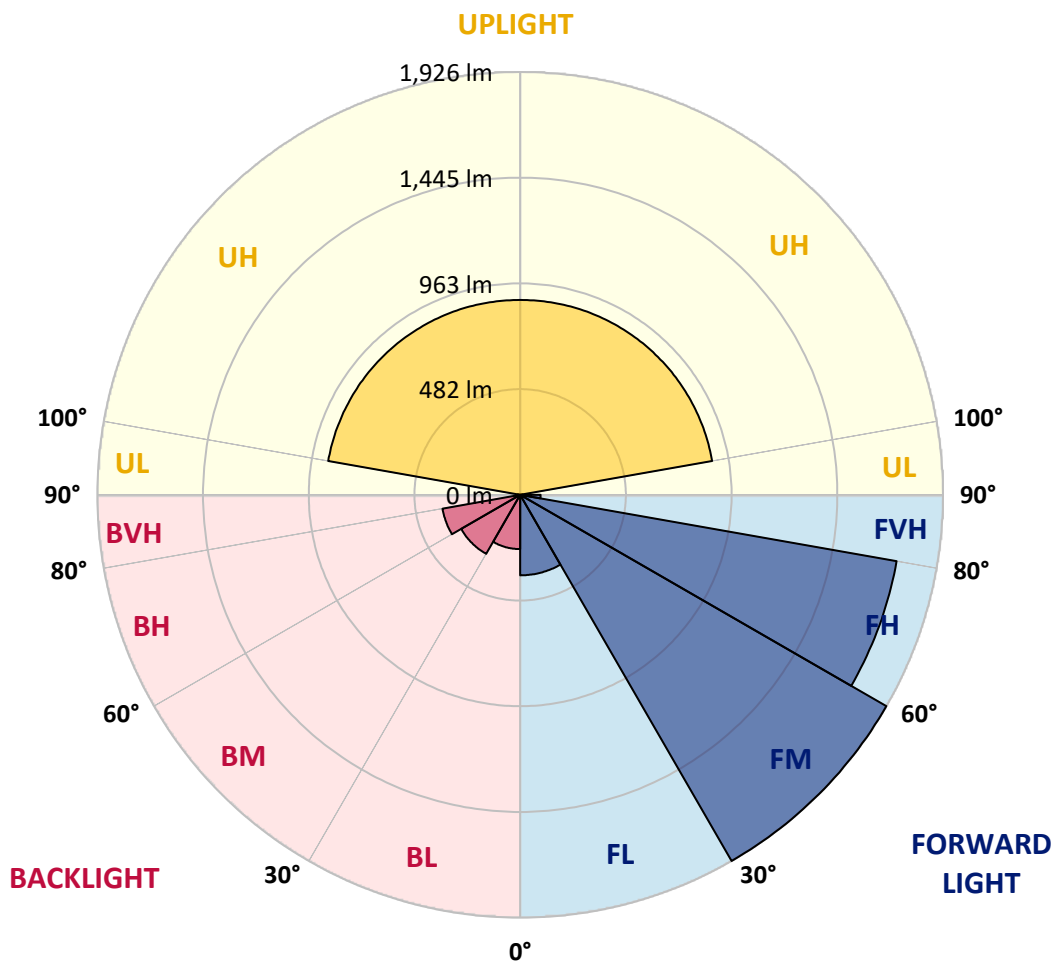
CATALOG NUMBER: ISW-AF-800-LED-E1-SL2-ULG

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	366.8	5.4			
FM (30°-60°)	1926.3	28.2			
FH (60°-80°)	1741.1	25.5			G1/1800
FVH (80°-90°)	93.2	1.4			G1/100
BL (0°-30°)	247.2	3.6	B1/500		
BM (30°-60°)	310.6	4.5	B1/1000		
BH (60°-80°)	359.3	5.3	B1/500		G1/500
BVH (80°-90°)	18.3	0.3			G1/100
UL (90°-100°)	11.3	0.2		U2/50	
UH (100°-180°)	887.9	13.0		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°	1065.8	1065.8	1065.8	1065.8	1065.8	1065.8	1065.8	1065.8	1065.8	1065.8	1065.8
2.5°	990.5	992.8	1005.8	1012.6	1022.4	1025.5	1037.0	1041.5	1045.4	1044.5	1044.5
5°	901.5	908.4	914.4	928.1	942.6	960.1	982.1	998.9	1002.0	1005.8	1008.0
7.5°	833.8	838.4	849.0	859.0	877.2	901.5	932.7	954.0	958.6	960.1	965.5
10°	785.9	788.9	798.1	811.0	832.3	855.9	888.6	910.6	917.5	920.6	925.2
12.5°	748.6	753.2	761.6	775.2	798.1	822.5	856.6	878.7	883.2	887.1	894.0
15°	725.1	728.0	735.7	750.8	771.4	795.8	829.2	855.9	859.0	862.8	868.8
17.5°	720.5	722.7	727.3	738.7	754.7	778.3	812.5	834.6	839.9	845.3	851.3
20°	738.7	740.2	741.7	743.3	752.4	767.6	801.1	824.7	829.2	833.8	841.4
22.5°	778.3	780.5	776.7	771.4	764.6	767.6	795.8	820.1	823.2	827.8	833.8
25°	846.8	844.4	833.1	824.7	800.4	780.5	797.3	817.8	821.6	826.2	833.1
27.5°	927.4	924.3	917.5	894.7	854.4	814.1	806.4	821.6	823.9	827.8	833.8
30°	1014.2	1014.9	1008.8	983.7	931.9	864.3	827.0	830.7	832.3	835.3	839.1
32.5°	1092.5	1103.9	1103.2	1101.6	1027.9	931.9	866.5	851.3	849.0	851.3	852.8
35°	1183.0	1185.3	1206.6	1217.2	1157.2	1030.8	924.3	890.9	881.8	882.5	881.0
37.5°	1280.4	1283.4	1319.9	1338.2	1291.8	1143.5	1001.2	949.5	941.1	932.7	926.6
40°	1421.9	1434.1	1453.1	1473.7	1450.9	1294.9	1102.3	1032.4	1011.1	1009.6	997.4
42.5°	1633.3	1629.6	1620.5	1637.2	1609.8	1464.5	1224.9	1149.5	1133.5	1112.3	1095.5
45°	1841.1	1849.5	1809.9	1817.5	1819.0	1660.8	1402.2	1296.4	1288.0	1262.9	1244.6
47.5°	1981.0	1971.9	1918.6	1957.5	2052.6	1889.8	1607.6	1496.5	1479.0	1466.0	1454.6
50°	1988.7	1981.0	1946.9	2015.3	2218.5	2296.8	1893.6	1764.3	1739.1	1716.3	1709.5
52.5°	1803.1	1792.4	1803.8	1943.0	2278.5	2637.6	2297.5	2096.7	2076.2	2057.2	2030.6
55°	1472.1	1484.3	1538.3	1738.4	2186.5	2879.5	3092.6	2610.3	2522.0	2521.3	2455.8
57.5°	1099.4	1087.2	1127.5	1315.4	1953.7	2965.5	3823.0	3703.5	3506.5	3373.3	3212.8
60°	741.7	744.8	782.0	878.7	1359.5	2871.9	4312.1	4728.3	4659.0	4630.9	4587.5
62.5°	514.2	518.8	553.1	643.6	795.0	2310.5	4455.2	5302.7	5426.7	5529.4	5504.3
65°	359.9	360.6	394.9	534.8	595.7	1186.8	4139.4	5378.7	5563.6	5740.1	5898.3
66°	317.2	318.0	346.2	497.6	571.3	895.4	3865.5	5273.0	5483.7	5689.1	5852.7
67.5°	271.6	276.2	298.2	423.0	547.8	690.8	3193.0	4957.2	5177.9	5403.8	5619.9
70°	186.4	187.9	207.7	343.1	512.8	606.3	1819.8	3870.1	4175.2	4572.3	4802.0
72.5°	133.1	131.7	133.9	212.3	526.4	602.5	956.3	2547.0	2973.9	3322.3	3571.1
75°	118.7	114.9	105.0	131.7	384.2	658.1	640.6	1499.5	1824.3	2141.5	2396.5
77.5°	105.8	99.6	94.3	101.2	190.2	620.0	575.1	859.0	1024.8	1261.4	1457.7
80°	80.6	76.8	79.9	87.5	114.2	570.6	571.3	571.3	616.2	693.9	771.4
82.5°	53.3	48.7	55.5	72.3	85.9	429.8	590.3	504.4	496.0	493.0	498.3
85°	33.5	28.9	38.8	54.0	66.2	224.4	605.6	532.5	493.8	456.4	419.2
87.5°	12.2	13.7	19.7	31.2	43.4	97.4	531.0	469.4	442.7	396.4	353.0
90°	8.2	7.4	10.9	17.3	18.1	25.4	88.6	138.3	86.0	47.4	40.0
92.5°	4.1	4.1	5.1	6.1	6.1	6.1	7.2	7.2	7.2	7.2	7.2
95°	5.1	5.1	6.1	7.2	7.2	7.2	7.2	7.7	7.8	7.9	8.0
97.5°	7.2	7.2	8.2	8.2	9.2	9.2	12.3	11.3	11.0	10.8	10.6
100°	8.2	8.2	9.2	10.2	12.3	21.5	29.7	28.1	27.8	27.5	27.2
102.5°	11.3	11.3	13.3	18.4	27.6	40.9	51.1	49.6	49.3	49.0	48.7
105°	21.5	22.5	27.6	36.8	49.1	64.4	73.7	72.6	72.4	72.2	72.0
107.5°	41.9	43.0	50.1	59.3	74.7	90.0	97.2	96.7	96.6	96.5	96.4



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	63°
110°	67.5	69.6	75.7	89.0	104.3	116.6	122.8	123.3	123.4	123.5	123.6
112.5°	101.3	101.3	108.4	123.8	137.1	146.3	151.4	152.4	152.6	152.8	153.0
115°	143.2	142.2	150.4	162.6	171.9	178.0	183.1	184.6	184.9	185.3	185.6
117.5°	188.2	188.2	193.3	201.5	206.6	209.7	215.8	217.9	218.3	218.7	219.1
120°	230.2	228.1	231.2	238.3	242.4	248.6	251.6	253.7	254.1	254.5	254.9
122.5°	269.0	266.0	267.0	273.1	277.2	283.4	285.4	287.4	287.9	288.3	288.7
125°	304.8	300.7	302.8	305.9	312.0	317.1	320.2	321.2	321.4	321.6	321.8
127.5°	337.6	336.6	336.6	340.6	346.8	347.8	352.9	353.4	353.5	353.6	353.7
130°	371.3	369.3	370.3	374.4	378.5	380.5	385.7	387.7	388.1	388.5	388.9
132.5°	405.1	403.0	402.0	410.2	413.3	414.3	420.4	423.0	423.5	424.0	424.5
135°	438.8	435.8	435.8	441.9	445.0	447.0	453.2	455.7	456.2	456.7	457.3
137.5°	470.6	467.5	469.5	470.6	474.6	478.7	483.9	484.9	485.1	485.3	485.5
140°	499.2	496.1	498.2	500.2	502.3	508.4	511.5	512.5	512.7	512.9	513.1
142.5°	529.9	526.8	528.9	529.9	533.0	537.0	539.1	542.2	542.8	543.4	544.0
145°	562.6	558.5	556.5	559.6	562.6	563.6	568.8	571.8	572.4	573.1	573.7
147.5°	588.2	585.1	584.1	587.2	587.2	588.2	593.3	595.9	596.4	596.9	597.4
150°	608.7	605.6	606.6	606.6	606.6	606.6	610.7	612.2	612.5	612.8	613.2
152.5°	625.0	622.0	622.0	623.0	624.0	624.0	625.0	626.6	626.9	627.2	627.5
155°	643.4	639.3	639.3	641.4	644.5	642.4	640.4	642.9	643.4	643.9	644.5
157.5°	660.8	657.8	657.8	658.8	660.8	659.8	658.8	660.8	661.2	661.6	662.1
160°	678.2	675.1	674.1	671.1	670.0	670.0	673.1	676.2	676.8	677.4	678.0
162.5°	688.4	684.4	684.4	680.3	676.2	678.2	682.3	684.4	684.8	685.2	685.6
165°	696.6	693.6	691.5	691.5	688.4	688.4	687.4	690.0	690.5	691.0	691.5
167.5°	705.8	702.8	699.7	701.7	703.8	700.7	693.6	696.6	697.2	697.9	698.5
170°	714.0	711.0	707.9	707.9	708.9	706.9	701.7	703.3	703.6	703.9	704.2
172.5°	715.0	713.0	711.0	708.9	705.8	705.8	704.8	706.3	706.7	707.0	707.3
175°	716.1	714.0	713.0	711.0	706.9	705.8	705.8	708.4	708.9	709.4	709.9
177.5°	723.2	721.2	716.1	715.0	713.0	711.0	709.9	712.5	713.0	713.5	714.0
180°	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1





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**CANDELA DISTRIBUTION (continued):**

	64°	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°
0°	1065.8	1065.8	1065.8	1065.8	1065.8	1065.8	1065.8	1065.8	1065.8	1065.8	1065.8
2.5°	1045.4	1049.1	1050.7	1049.1	1049.9	1054.5	1052.9	1055.2	1055.2	1056.7	1056.7
5°	1011.1	1014.2	1020.2	1019.5	1025.5	1027.9	1030.1	1033.2	1037.0	1039.2	1043.8
7.5°	970.8	976.8	982.1	985.2	989.0	996.7	998.9	1005.8	1011.8	1017.9	1022.4
10°	931.9	940.3	946.4	948.7	957.1	960.9	969.2	974.6	982.1	989.8	996.7
12.5°	899.3	906.8	909.9	917.5	925.2	932.7	936.5	946.4	954.0	963.9	973.0
15°	874.9	882.5	888.6	894.0	901.5	909.1	915.2	925.2	934.3	944.1	952.5
17.5°	859.7	864.3	871.9	876.5	885.6	894.7	901.5	913.0	922.8	931.2	942.6
20°	848.2	853.6	860.4	867.3	875.6	887.1	893.1	905.3	916.0	925.9	936.5
22.5°	842.2	847.5	854.4	861.2	870.3	879.4	889.4	900.0	911.4	922.1	932.7
25°	839.9	844.4	850.6	857.4	867.3	877.2	885.6	897.7	907.6	919.0	931.9
27.5°	840.7	843.7	850.6	856.6	866.5	875.6	884.0	896.2	907.6	918.3	931.2
30°	843.7	846.0	852.8	858.2	866.5	875.6	883.2	896.2	906.1	917.5	931.2
32.5°	854.4	857.4	860.4	864.3	871.9	878.7	887.8	899.3	908.4	919.7	931.2
35°	879.4	877.2	879.4	881.0	886.3	893.1	900.0	909.9	918.3	928.1	940.3
37.5°	919.0	914.4	916.0	915.2	915.2	919.7	926.6	933.4	940.3	950.2	962.4
40°	992.1	980.6	977.6	969.2	967.0	970.8	975.3	976.1	984.5	997.4	1002.7
42.5°	1086.4	1071.1	1073.5	1059.8	1056.0	1051.4	1057.5	1053.6	1059.0	1067.3	1078.8
45°	1235.5	1221.1	1205.9	1183.8	1188.4	1171.6	1167.1	1168.5	1167.8	1170.9	1184.6
47.5°	1413.5	1394.5	1384.7	1376.3	1360.3	1350.4	1337.4	1318.5	1323.0	1329.1	1341.3
50°	1673.8	1667.6	1648.6	1621.2	1617.4	1603.0	1599.2	1582.4	1576.4	1575.5	1574.8
52.5°	2021.4	1981.9	1974.2	1948.3	1928.6	1914.9	1910.4	1886.7	1863.1	1876.8	1875.3
55°	2445.2	2412.4	2370.6	2347.8	2331.8	2299.1	2290.7	2261.0	2247.3	2239.8	2220.7
57.5°	3157.2	3042.4	2956.4	2913.8	2853.7	2792.9	2771.5	2710.6	2663.5	2630.0	2632.3
60°	4398.8	4194.2	3953.0	3845.0	3594.6	3558.1	3386.3	3344.4	3240.9	3172.5	3132.9
62.5°	5486.7	5431.3	5315.6	5158.1	4907.0	4617.9	4487.9	4229.2	4026.8	3938.6	3816.1
65°	6006.4	6084.7	6116.6	6087.0	5986.6	5810.1	5654.9	5402.3	5063.0	4871.3	4633.1
66°	5979.8	6096.2	6154.7	6185.2	6148.7	6044.4	5881.6	5673.9	5411.4	5119.3	4852.3
67.5°	5785.0	5898.3	5979.8	6072.5	6072.5	6039.8	5973.6	5835.2	5649.6	5394.7	5155.1
70°	4989.2	5142.9	5286.7	5314.8	5393.9	5369.6	5422.0	5333.9	5289.7	5183.2	5054.6
72.5°	3886.8	4015.4	4138.7	4261.9	4241.4	4214.8	4209.4	4227.7	4137.8	4169.9	4136.4
75°	2585.1	2806.6	2932.8	2920.6	2929.0	2935.9	2879.5	2754.0	2851.4	2728.1	2769.2
77.5°	1571.0	1673.8	1707.9	1669.9	1620.5	1556.5	1453.8	1393.8	1307.7	1314.6	1257.6
80°	823.9	836.9	809.5	732.6	690.8	652.7	535.6	483.1	434.4	416.1	375.0
82.5°	472.4	441.3	407.7	381.9	332.5	299.0	253.4	224.4	193.2	165.8	156.0
85°	382.7	340.8	309.6	280.7	247.2	217.6	179.5	149.9	127.1	110.3	106.5
87.5°	315.7	286.8	254.8	227.5	194.8	164.3	127.1	98.9	78.4	63.1	58.6
90°	37.1	47.3	36.6	24.4	32.0	21.4	16.1	16.8	15.2	15.2	16.1
92.5°	7.2	7.2	7.1	7.0	6.9	6.8	6.6	6.5	6.4	6.3	6.2
95°	8.1	8.2	8.1	8.0	7.9	7.8	7.7	7.6	7.5	7.4	7.3
97.5°	10.4	10.2	10.1	10.0	9.9	9.8	9.7	9.6	9.5	9.4	9.3
100°	26.9	26.6	26.3	26.0	25.7	25.4	25.1	24.8	24.4	24.1	23.8
102.5°	48.4	48.1	47.6	47.1	46.5	46.0	45.5	45.0	44.5	44.0	43.5
105°	71.8	71.6	71.1	70.6	70.1	69.6	69.0	68.5	68.0	67.5	67.0
107.5°	96.3	96.2	95.7	95.3	94.9	94.5	94.1	93.7	93.3	92.9	92.5



REPORT NUMBER: P226750

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

**CANDELA DISTRIBUTION (continued):**

	64°	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°
110°	123.7	123.8	123.6	123.4	123.2	123.0	122.8	122.5	122.3	122.1	121.9
112.5°	153.2	153.4	153.3	153.2	153.1	153.0	152.9	152.8	152.7	152.6	152.5
115°	185.9	186.2	185.9	185.6	185.3	184.9	184.6	184.3	184.0	183.7	183.4
117.5°	219.5	219.9	219.4	218.9	218.4	217.9	217.4	216.9	216.4	215.8	215.3
120°	255.3	255.7	255.2	254.7	254.2	253.7	253.2	252.7	252.2	251.6	251.1
122.5°	289.1	289.5	289.0	288.5	288.0	287.4	286.9	286.4	285.9	285.4	284.9
125°	322.0	322.2	321.7	321.2	320.7	320.2	319.7	319.2	318.6	318.1	317.6
127.5°	353.8	353.9	353.9	353.9	353.9	353.9	353.9	353.9	353.9	353.9	353.9
130°	389.3	389.7	389.7	389.7	389.7	389.7	389.7	389.7	389.7	389.7	389.7
132.5°	425.0	425.5	425.3	425.1	424.9	424.7	424.5	424.3	424.1	423.9	423.7
135°	457.8	458.3	458.2	458.1	458.0	457.9	457.8	457.7	457.6	457.5	457.4
137.5°	485.7	485.9	486.0	486.1	486.2	486.3	486.4	486.5	486.6	486.7	486.8
140°	513.3	513.5	513.7	513.9	514.1	514.3	514.5	514.7	515.0	515.2	515.4
142.5°	544.6	545.2	545.2	545.2	545.2	545.2	545.2	545.2	545.2	545.2	545.2
145°	574.3	574.9	574.8	574.7	574.6	574.5	574.4	574.3	574.2	574.1	574.0
147.5°	597.9	598.4	598.5	598.6	598.7	598.8	598.9	599.0	599.1	599.2	599.3
150°	613.5	613.8	614.1	614.4	614.7	615.0	615.3	615.6	615.9	616.2	616.5
152.5°	627.8	628.1	628.5	628.9	629.3	629.7	630.1	630.5	631.0	631.4	631.8
155°	645.0	645.5	646.0	646.5	647.0	647.5	648.0	648.6	649.1	649.6	650.1
157.5°	662.5	662.9	663.1	663.3	663.5	663.7	663.9	664.1	664.3	664.5	664.7
160°	678.6	679.2	678.9	678.6	678.3	678.0	677.7	677.4	677.1	676.8	676.5
162.5°	686.0	686.4	686.3	686.2	686.1	686.0	685.9	685.8	685.7	685.6	685.5
165°	692.0	692.5	692.8	693.2	693.5	693.8	694.1	694.4	694.7	695.0	695.3
167.5°	699.1	699.7	700.1	700.5	700.9	701.3	701.7	702.2	702.6	703.0	703.4
170°	704.5	704.8	705.3	705.8	706.3	706.9	707.4	707.9	708.4	708.9	709.4
172.5°	707.6	707.9	708.1	708.3	708.5	708.7	708.9	709.1	709.3	709.5	709.7
175°	710.4	711.0	711.1	711.2	711.3	711.4	711.5	711.6	711.7	711.8	711.9
177.5°	714.5	715.0	715.2	715.5	715.7	715.9	716.1	716.3	716.5	716.7	716.9
180°	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1



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**CANDELA DISTRIBUTION (continued):**

	75°	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°
0°	1065.8	1065.8	1065.8	1065.8	1065.8	1065.8	1065.8	1065.8	1065.8	1065.8	1065.8
2.5°	1059.0	1059.0	1060.5	1062.0	1062.8	1062.8	1062.8	1064.4	1065.1	1062.8	1065.1
5°	1046.1	1049.9	1052.9	1055.2	1056.0	1058.2	1060.5	1062.0	1064.4	1064.4	1065.8
7.5°	1028.6	1035.4	1039.2	1043.0	1046.8	1050.7	1055.2	1058.2	1059.8	1062.8	1065.1
10°	1006.5	1014.9	1022.4	1028.6	1033.9	1041.5	1047.6	1052.2	1059.0	1059.8	1065.1
12.5°	983.0	995.1	1001.2	1012.6	1020.2	1031.6	1037.7	1044.5	1052.2	1056.0	1062.0
15°	966.2	976.8	988.3	998.9	1011.1	1024.8	1032.4	1041.5	1052.2	1060.5	1068.2
17.5°	953.3	967.7	980.6	994.3	1009.6	1024.0	1035.4	1045.4	1059.0	1063.6	1071.1
20°	949.5	965.5	978.4	992.8	1008.8	1027.9	1041.5	1052.2	1065.8	1073.5	1080.3
22.5°	948.0	963.1	978.4	995.8	1013.3	1033.2	1047.6	1061.3	1075.0	1081.9	1087.2
25°	946.4	962.4	979.2	998.9	1017.9	1038.5	1055.2	1068.2	1081.1	1087.9	1092.5
27.5°	946.4	963.1	981.4	1001.2	1021.7	1044.5	1060.5	1072.7	1084.1	1090.2	1091.7
30°	945.6	963.1	980.6	1002.7	1024.8	1048.3	1065.8	1077.3	1087.2	1091.0	1089.4
32.5°	947.2	965.5	984.5	1006.5	1029.3	1052.2	1070.4	1083.3	1088.7	1087.9	1087.2
35°	954.8	971.5	993.6	1015.7	1039.2	1060.5	1078.0	1087.2	1091.7	1090.2	1086.4
37.5°	975.3	992.1	1014.2	1038.5	1056.7	1081.1	1097.0	1103.9	1104.7	1100.1	1091.0
40°	1017.9	1034.6	1054.5	1081.1	1103.2	1119.8	1135.1	1142.7	1138.1	1129.7	1119.8
42.5°	1085.7	1106.9	1130.6	1151.8	1177.7	1200.5	1204.3	1208.9	1201.3	1185.3	1173.1
45°	1194.4	1207.4	1237.8	1253.7	1287.3	1298.6	1307.0	1309.3	1292.6	1279.6	1258.3
47.5°	1351.1	1376.3	1397.6	1412.8	1437.1	1452.3	1469.1	1461.5	1448.5	1426.5	1398.3
50°	1597.6	1613.6	1641.0	1668.4	1694.2	1705.0	1705.0	1697.3	1688.9	1646.3	1612.1
52.5°	1900.4	1902.0	1941.6	1974.2	1996.3	1980.3	1999.4	1980.3	1975.0	1945.3	1917.2
55°	2251.1	2236.7	2284.7	2313.5	2333.4	2352.4	2348.5	2346.2	2326.5	2292.9	2258.8
57.5°	2584.4	2626.2	2649.0	2691.7	2701.5	2714.5	2709.2	2701.5	2690.2	2671.1	2655.9
60°	3065.2	3093.3	3113.9	3122.3	3150.4	3154.2	3173.2	3142.0	3149.7	3127.6	3079.6
62.5°	3719.4	3689.1	3705.0	3705.0	3696.6	3667.0	3682.9	3695.1	3674.5	3656.3	3648.7
65°	4452.1	4354.0	4259.6	4243.6	4200.2	4190.4	4178.2	4147.8	4134.9	4102.9	4077.1
66°	4671.2	4519.0	4430.0	4375.3	4322.8	4311.3	4294.7	4262.6	4236.8	4192.0	4148.6
67.5°	4916.9	4720.6	4586.7	4509.2	4444.5	4401.9	4368.4	4322.8	4281.7	4214.8	4145.5
70°	4901.0	4738.9	4577.6	4459.7	4362.3	4274.8	4223.0	4124.9	4041.3	3945.4	3866.2
72.5°	4118.1	4089.1	3995.6	3929.5	3810.0	3763.5	3626.7	3564.3	3448.6	3324.6	3286.5
75°	2862.8	2749.5	2701.5	2674.9	2622.4	2477.9	2383.5	2404.0	2268.6	2147.7	2078.4
77.5°	1251.5	1274.3	1141.9	1082.6	1037.0	958.6	885.6	835.3	806.4	787.4	701.4
80°	346.2	302.1	298.2	276.9	272.3	242.6	246.5	225.2	210.7	207.7	200.8
82.5°	151.4	148.3	143.8	141.5	139.2	136.2	132.4	131.7	127.1	123.3	124.0
85°	100.5	99.6	97.4	95.1	91.2	85.9	82.1	79.1	79.9	76.1	75.3
87.5°	58.6	57.1	56.3	53.3	52.5	48.0	48.7	44.9	44.1	43.4	41.1
90°	17.6	18.1	20.3	19.2	16.0	22.6	20.2	18.4	19.0	16.5	16.3
92.5°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
95°	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2
97.5°	9.2	9.1	9.0	8.9	8.8	8.7	8.6	8.5	8.4	8.3	8.2
100°	23.5	23.1	22.7	22.3	21.9	21.5	21.1	20.7	20.3	19.8	19.4
102.5°	43.0	42.7	42.4	42.0	41.7	41.4	41.1	40.8	40.5	40.2	39.9
105°	66.5	66.1	65.7	65.3	64.9	64.4	64.0	63.6	63.2	62.8	62.4
107.5°	92.1	91.8	91.5	91.1	90.8	90.5	90.2	89.9	89.6	89.3	89.0



REPORT NUMBER: P226750  
 CATALOG NUMBER: ISW-AF-800-LED-E1-SL2-ULG

REPORT N  
 CATALOG

**CANDELA DISTRIBUTION (continued):**

**CANDELA**

	75°	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	
110°	121.7	121.4	121.1	120.8	120.5	120.2	119.9	119.6	119.3	119.0	118.7	0°
112.5°	152.4	152.2	152.0	151.8	151.6	151.4	151.2	151.0	150.8	150.6	150.4	2.5°
115°	183.1	182.9	182.7	182.5	182.3	182.1	181.9	181.7	181.5	181.3	181.1	5°
117.5°	214.8	214.6	214.4	214.2	214.0	213.8	213.6	213.4	213.2	213.0	212.8	7.5°
120°	250.6	250.4	250.2	250.0	249.8	249.6	249.4	249.2	249.0	248.8	248.6	10°
122.5°	284.4	284.2	284.0	283.8	283.6	283.4	283.2	282.9	282.7	282.5	282.3	12.5°
125°	317.1	317.1	317.1	317.1	317.1	317.1	317.1	317.1	317.1	317.1	317.1	15°
127.5°	353.9	353.8	353.7	353.6	353.5	353.4	353.3	353.2	353.1	353.0	352.9	17.5°
130°	389.7	389.5	389.3	389.1	388.9	388.7	388.5	388.3	388.1	387.9	387.7	20°
132.5°	423.5	423.5	423.5	423.5	423.5	423.5	423.5	423.5	423.5	423.5	423.5	22.5°
135°	457.3	457.6	457.9	458.2	458.5	458.8	459.1	459.4	459.7	460.0	460.3	25°
137.5°	486.9	487.4	487.9	488.5	489.0	489.5	490.0	490.5	491.0	491.5	492.0	27.5°
140°	515.6	516.1	516.6	517.1	517.6	518.1	518.6	519.1	519.7	520.2	520.7	30°
142.5°	545.2	545.3	545.4	545.5	545.6	545.7	545.8	545.9	546.1	546.2	546.3	32.5°
145°	573.9	573.6	573.3	573.0	572.6	572.3	572.0	571.7	571.4	571.1	570.8	35°
147.5°	599.4	599.1	598.8	598.5	598.2	597.9	597.6	597.3	597.0	596.7	596.4	37.5°
150°	616.8	617.1	617.5	617.8	618.1	618.4	618.7	619.0	619.3	619.6	619.9	40°
152.5°	632.2	632.7	633.2	633.7	634.2	634.7	635.3	635.8	636.3	636.8	637.3	42.5°
155°	650.6	650.8	651.0	651.2	651.4	651.6	651.8	652.0	652.2	652.4	652.6	45°
157.5°	664.9	664.9	664.9	664.9	664.9	664.9	664.9	664.9	664.9	664.9	664.9	47.5°
160°	676.2	676.1	676.0	675.9	675.8	675.7	675.6	675.5	675.4	675.2	675.1	50°
162.5°	685.4	685.2	685.0	684.8	684.6	684.4	684.1	683.9	683.7	683.5	683.3	52.5°
165°	695.6	695.4	695.2	695.0	694.8	694.6	694.4	694.2	694.0	693.8	693.6	55°
167.5°	703.8	703.8	703.8	703.8	703.8	703.8	703.8	703.8	703.8	703.8	703.8	57.5°
170°	709.9	710.1	710.3	710.5	710.7	711.0	711.2	711.4	711.6	711.8	712.0	60°
172.5°	709.9	710.1	710.3	710.5	710.7	711.0	711.2	711.4	711.6	711.8	712.0	62.5°
175°	712.0	711.8	711.6	711.4	711.2	711.0	710.7	710.5	710.3	710.1	709.9	65°
177.5°	717.1	716.8	716.5	716.2	715.9	715.6	715.2	714.9	714.6	714.3	714.0	66°
180°	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	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: P226750  
 NUMBER: ISW-AF-800-LED-E1-SL2-ULG

REPORT NUMBER: P  
 CATALOG NUMBER:

**DISTRIBUTION (continued):**

**CANDELA DISTRIBUTION**

86°	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	110°	86°
1065.8	1065.8	1065.8	1065.8	1065.8	1065.8	1065.8	1065.8	1065.8	1065.8	1065.8	110°	118.9
1067.3	1068.9	1069.7	1068.9	1070.4	1069.7	1070.4	1069.7	1065.8	1065.1	1064.4	112.5°	150.4
1068.9	1072.0	1072.7	1073.5	1072.0	1073.5	1070.4	1058.2	1044.5	1029.3	1017.1	115°	181.3
1070.4	1074.2	1076.6	1076.6	1077.3	1075.7	1064.4	1037.7	1005.8	973.8	949.5	117.5°	213.0
1069.7	1075.0	1077.3	1078.0	1078.0	1075.0	1047.6	1004.9	956.3	907.6	858.2	120°	248.6
1067.3	1072.0	1075.7	1075.7	1076.6	1065.8	1023.3	962.4	893.1	820.1	753.9	122.5°	282.5
1072.0	1076.6	1076.6	1076.6	1075.7	1057.5	997.4	909.1	816.3	717.4	619.3	125°	317.1
1078.8	1081.1	1079.5	1079.5	1076.6	1049.1	968.4	856.6	734.9	604.1	467.1	127.5°	353.3
1084.8	1086.4	1085.7	1081.9	1078.0	1040.0	938.8	801.1	637.5	467.1	330.9	130°	387.9
1091.0	1092.5	1088.7	1082.6	1077.3	1027.9	903.1	730.4	527.2	319.6	219.1	132.5°	423.7
1091.7	1093.2	1086.4	1078.0	1070.4	1009.6	859.7	655.0	406.2	206.9	171.1	135°	460.5
1091.0	1089.4	1078.0	1067.3	1059.0	987.5	811.7	561.5	270.9	156.0	149.1	137.5°	492.2
1085.7	1078.8	1069.7	1057.5	1045.4	963.1	763.8	457.3	171.1	135.4	135.4	140°	521.1
1078.0	1071.1	1059.8	1043.8	1030.1	939.6	709.0	350.8	137.0	124.8	126.3	142.5°	546.7
1075.0	1067.3	1050.7	1033.9	1016.4	918.3	651.2	235.9	123.3	117.9	118.7	145°	571.2
1081.1	1068.2	1051.4	1032.4	1011.8	900.0	591.2	164.3	116.4	110.3	111.8	147.5°	596.8
1101.6	1089.4	1069.7	1045.4	1023.3	889.4	527.2	136.2	109.6	104.2	104.2	150°	620.7
1151.0	1135.1	1108.5	1079.5	1052.9	896.2	470.1	124.0	104.2	98.9	98.9	152.5°	638.3
1230.9	1211.9	1180.7	1148.1	1113.0	929.7	405.5	119.5	100.5	92.8	91.2	155°	653.3
1367.9	1342.8	1301.7	1262.9	1221.1	987.5	340.0	116.4	95.9	89.0	85.9	157.5°	665.9
1583.2	1545.9	1497.2	1446.2	1395.3	1093.2	288.4	113.3	92.8	85.9	83.0	160°	676.4
1860.1	1835.0	1774.1	1707.2	1646.3	1304.0	258.7	111.1	90.5	82.1	79.9	162.5°	684.6
2213.2	2172.0	2124.1	2064.0	1991.7	1577.1	255.6	110.3	88.3	79.1	77.6	165°	694.4
2585.9	2570.0	2488.5	2451.2	2372.8	1940.7	311.2	111.8	86.7	76.8	74.6	167.5°	705.0
3011.2	3017.3	2941.2	2900.1	2835.4	2401.8	495.3	116.4	86.7	74.6	72.3	170°	713.0
3567.3	3577.2	3487.4	3438.8	3383.9	2918.4	778.3	124.0	89.0	72.3	70.0	172.5°	713.0
4023.0	3969.8	3912.0	3826.8	3757.5	3206.6	749.4	137.7	92.1	70.0	67.7	175°	711.0
4070.2	4032.2	3959.1	3867.1	3782.6	3208.2	654.3	142.3	92.8	69.3	66.9	177.5°	714.8
4064.1	3996.4	3913.5	3835.9	3752.9	3126.0	506.0	148.3	95.1	67.7	65.5	180°	716.1
3782.6	3687.5	3606.8	3499.6	3412.9	2797.4	311.2	147.6	92.1	63.1	61.6		
3119.2	3070.5	2974.6	2888.7	2798.2	2264.1	213.0	131.7	81.4	57.1	57.8		
2017.6	1962.0	1864.6	1815.9	1765.0	1448.5	165.8	107.3	69.3	50.9	53.3		
673.3	651.2	615.5	635.3	605.6	564.5	121.7	81.4	55.5	44.1	47.2		
201.6	197.0	203.9	191.7	203.2	172.0	79.9	57.1	42.6	38.1	41.8		
119.5	117.9	117.9	117.9	114.9	107.3	52.5	39.6	32.7	31.9	35.0		
73.0	71.5	72.3	71.5	73.0	65.5	35.8	27.4	24.3	23.6	28.1		
41.8	41.8	42.6	41.1	41.8	40.3	25.1	17.5	16.0	15.2	20.6		
17.1	17.1	14.7	14.0	14.7	17.8	16.1	14.5	11.8	10.9	15.0		
6.1	6.1	6.1	6.1	6.1	6.1	6.1	7.2	7.2	6.1	6.1		
7.2	7.2	7.2	7.2	7.2	7.2	7.2	8.2	7.2	7.2	7.2		
8.2	8.2	8.2	8.2	8.2	8.2	9.2	10.2	12.3	9.2	9.2		
19.4	19.4	19.4	19.4	19.4	19.4	23.5	26.6	29.7	21.5	12.3		
39.7	39.5	39.3	39.1	38.9	39.9	43.0	48.1	51.1	40.9	27.6		
62.4	62.4	62.4	62.4	62.4	62.4	66.5	71.6	73.7	64.4	49.1		
88.8	88.6	88.4	88.2	88.0	89.0	92.1	96.2	97.2	90.0	74.7		

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 ISW-AF-800-LED-E1-SL2-ULG

REPORT NUMBER: P226750  
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**TION (continued):**

**CANDELA DISTRIBUTION (con**

87°	88°	89°	90°	95°	105°	115°	125°	135°	145°		155°	165°
119.1	119.3	119.5	119.7	118.7	121.7	123.8	122.8	116.6	104.3	0°	1065.8	1065.8
150.4	150.4	150.4	150.4	150.4	152.4	153.4	151.4	146.3	137.1	2.5°	1058.2	1052.9
181.5	181.7	181.9	182.1	181.1	183.1	186.2	183.1	178.0	171.9	5°	998.1	983.7
213.2	213.4	213.6	213.8	212.8	214.8	219.9	215.8	209.7	206.6	7.5°	911.4	894.7
248.6	248.6	248.6	248.6	248.6	250.6	255.7	251.6	248.6	242.4	10°	812.5	787.4
282.7	282.9	283.2	283.4	282.3	284.4	289.5	285.4	283.4	277.2	12.5°	686.2	636.8
317.1	317.1	317.1	317.1	317.1	317.1	322.2	320.2	317.1	312.0	15°	540.1	473.9
353.7	354.1	354.6	355.0	352.9	353.9	353.9	352.9	347.8	346.8	17.5°	372.0	318.8
388.1	388.3	388.5	388.7	387.7	389.7	389.7	385.7	380.5	378.5	20°	261.0	241.2
423.9	424.1	424.3	424.5	423.5	423.5	425.5	420.4	414.3	413.3	22.5°	201.6	202.3
460.7	460.9	461.1	461.4	460.3	457.3	458.3	453.2	447.0	445.0	25°	167.4	175.0
492.4	492.7	492.9	493.1	492.0	486.9	485.9	483.9	478.7	474.6	27.5°	147.6	155.2
521.5	521.9	522.3	522.7	520.7	515.6	513.5	511.5	508.4	502.3	30°	135.4	142.3
547.1	547.5	547.9	548.3	546.3	545.2	545.2	539.1	537.0	533.0	32.5°	127.1	130.1
571.6	572.0	572.4	572.9	570.8	573.9	574.9	568.8	563.6	562.6	35°	117.1	118.7
597.2	597.6	598.0	598.4	596.4	599.4	598.4	593.3	588.2	587.2	37.5°	108.8	108.8
621.5	622.4	623.2	624.0	619.9	616.8	613.8	610.7	606.6	606.6	40°	101.2	100.5
639.3	640.4	641.4	642.4	637.3	632.2	628.1	625.0	624.0	624.0	42.5°	94.3	93.6
653.9	654.5	655.1	655.7	652.6	650.6	645.5	640.4	642.4	644.5	45°	87.5	88.3
667.0	668.0	669.0	670.0	664.9	664.9	662.9	658.8	659.8	660.8	47.5°	83.7	84.5
677.6	678.8	680.1	681.3	675.1	676.2	679.2	673.1	670.0	670.0	50°	79.9	80.6
685.8	687.0	688.2	689.5	683.3	685.4	686.4	682.3	678.2	676.2	52.5°	76.8	76.8
695.2	696.0	696.8	697.7	693.6	695.6	692.5	687.4	688.4	688.4	55°	73.8	73.0
706.2	707.5	708.7	709.9	703.8	703.8	699.7	693.6	700.7	703.8	57.5°	71.5	70.0
714.0	715.0	716.1	717.1	712.0	709.9	704.8	701.7	706.9	708.9	60°	69.3	67.7
714.0	715.0	716.1	717.1	712.0	709.9	707.9	704.8	705.8	705.8	62.5°	67.7	65.5
712.0	713.0	714.0	715.0	709.9	712.0	711.0	705.8	705.8	706.9	65°	66.2	64.7
715.7	716.5	717.3	718.1	714.0	717.1	715.0	709.9	711.0	713.0	66°	65.5	63.9
716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	67.5°	64.7	63.1
										70°	61.6	60.1
										72.5°	57.1	56.3
										75°	52.5	50.9
										77.5°	46.4	45.6
										80°	39.6	38.8
										82.5°	33.5	31.9
										85°	26.6	25.1
										87.5°	18.2	16.8
										90°	12.8	12.5
										92.5°	6.1	5.1
										95°	7.2	6.1
										97.5°	8.2	8.2
										100°	10.2	9.2
										102.5°	18.4	13.3
										105°	36.8	27.6
										107.5°	59.3	50.1

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175°	180°
1065.8	1065.8
1048.3	1055.2
979.2	976.8
881.0	881.8
762.3	763.8
608.7	599.4
435.9	439.8
303.5	302.8
243.5	245.0
208.5	208.5
185.7	185.7
163.6	164.3
148.3	149.9
134.6	135.4
121.0	121.7
109.6	109.6
102.0	102.7
96.7	96.7
91.2	91.2
86.7	88.3
82.1	83.0
77.6	78.4
73.0	73.0
69.3	69.3
66.2	65.5
63.9	62.4
61.6	60.9
60.9	60.1
60.1	59.3
58.6	57.8
56.3	55.5
51.8	50.2
47.2	45.6
43.4	41.1
36.5	35.0
26.6	25.1
16.0	16.0
8.9	8.9
4.1	4.1
5.1	5.1
7.2	7.2
8.2	8.2
11.3	11.3
22.5	21.5
43.0	41.9

**CANDELA DISTRIBUTION (continued):**

	155°	165°	175°
110°	89.0	75.7	69.6
112.5°	123.8	108.4	101.3
115°	162.6	150.4	142.2
117.5°	201.5	193.3	188.2
120°	238.3	231.2	228.1
122.5°	273.1	267.0	266.0
125°	305.9	302.8	300.7
127.5°	340.6	336.6	336.6
130°	374.4	370.3	369.3
132.5°	410.2	402.0	403.0
135°	441.9	435.8	435.8
137.5°	470.6	469.5	467.5
140°	500.2	498.2	496.1
142.5°	529.9	528.9	526.8
145°	559.6	556.5	558.5
147.5°	587.2	584.1	585.1
150°	606.6	606.6	605.6
152.5°	623.0	622.0	622.0
155°	641.4	639.3	639.3
157.5°	658.8	657.8	657.8
160°	671.1	674.1	675.1
162.5°	680.3	684.4	684.4
165°	691.5	691.5	693.6
167.5°	701.7	699.7	702.8
170°	707.9	707.9	711.0
172.5°	708.9	711.0	713.0
175°	711.0	713.0	714.0
177.5°	715.0	716.1	721.2
180°	716.1	716.1	716.1

-SL2-ULG

180°  
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67.5  
101.3  
143.2  
188.2  
230.2  
269.0  
304.8  
337.6  
371.3  
405.1  
438.8  
470.6  
499.2  
529.9  
562.6  
588.2  
608.7  
625.0  
643.4  
660.8  
678.2  
688.4  
696.6  
705.8  
714.0  
715.0  
716.1  
723.2  
716.1

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