

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: P226350

Luminaire Tested: **ISW-AF-1200-LED-E1-T2-ULG**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P226350  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35937)-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-1200-LED-E1-T2-ULG  
Description: IMPACT ELITE LED WEDGE LUMINAIRE WITH UPLIGHT  
LIGHT SQUARE WITH ACCULED OPTICS-TYPE II, WITH UPLIGHT GLOW  
Light Source: (16) 4000K CCT, 70 CRI LEDs and (1) UPLIGHT LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

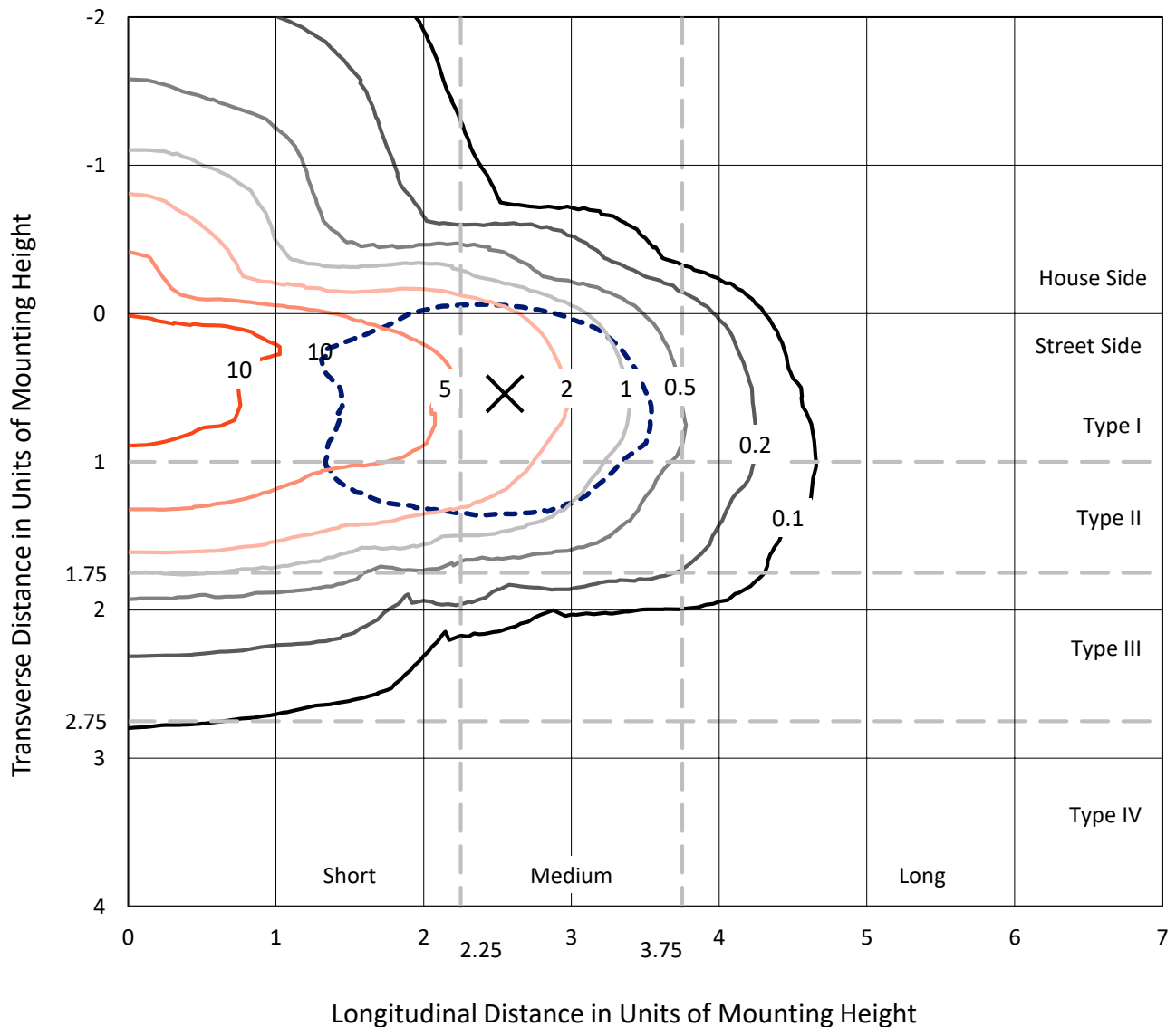
Lumens per Lamp: N/A  
Luminaire Lumens: 8826.7 lumens  
Efficiency: N/A  
Efficacy: 106.7 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 0.54')  
IES Classification: Type II - Medium - Non-Cutoff  
BUG Rating: B1 - U5 - G2  
  
Input Watts (W): 82.7  
Input Voltage (V): 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

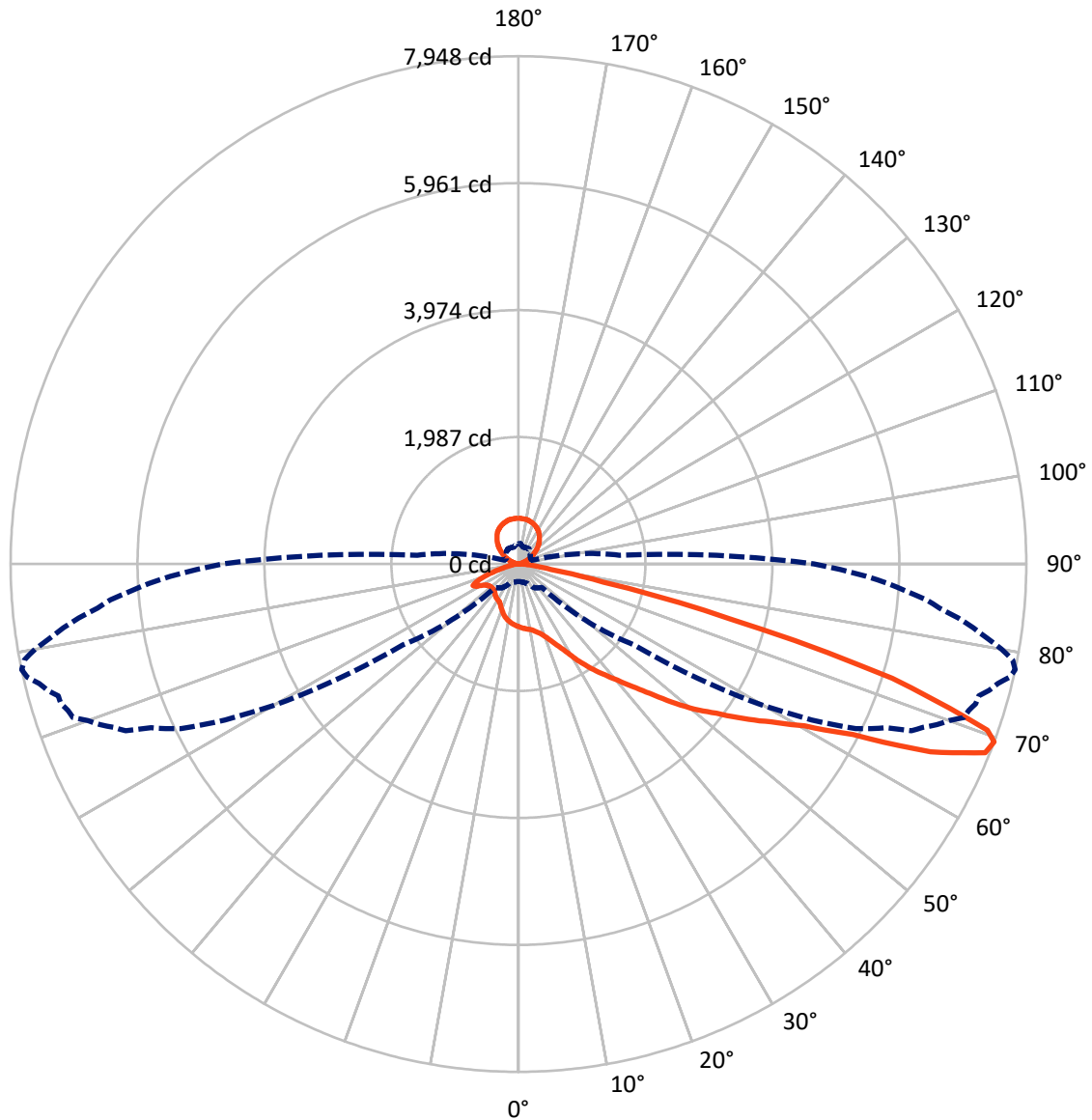
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.6 fc  
 Type II - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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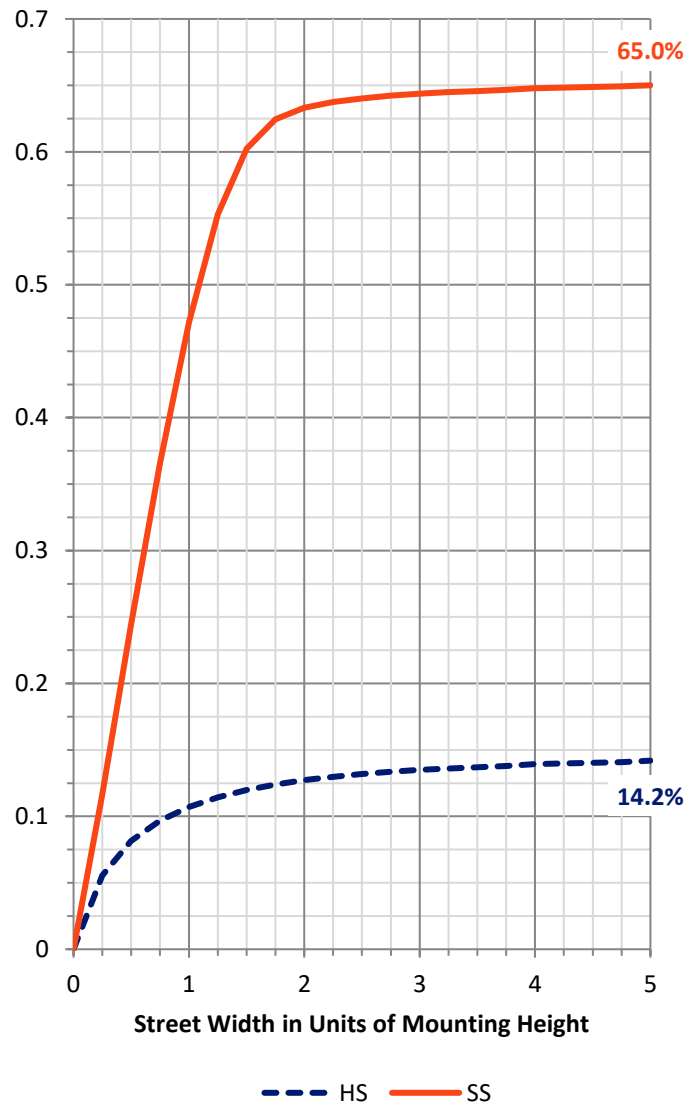
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1289.6	889.9	2179.6
	% Fixture	14.6	10.1	24.7
<b>Street Side</b>	Lumens	5758.5	888.6	6647.1
	% Fixture	65.2	10.1	75.3
<b>Total</b>	Lumens	7048.1	1778.6	8826.7
	% Fixture	79.9	20.1	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	91.1	1.0
10°-20°	275.0	3.1
20°-30°	492.9	5.6
30°-40°	804.6	9.1
40°-50°	1190.0	13.5
50°-60°	1553.9	17.6
60°-70°	1737.8	19.7
70°-80°	780.2	8.8
80°-90°	122.7	1.4
90°-100°	13.1	0.1
100°-110°	58.7	0.7
110°-120°	169.9	1.9
120°-130°	279.4	3.2
130°-140°	344.6	3.9
140°-150°	352.5	4.0
150°-160°	297.0	3.4
160°-170°	195.5	2.2
170°-180°	67.8	0.8
0°-90°	7048.1	79.9
0°-180°	8826.7	100.0



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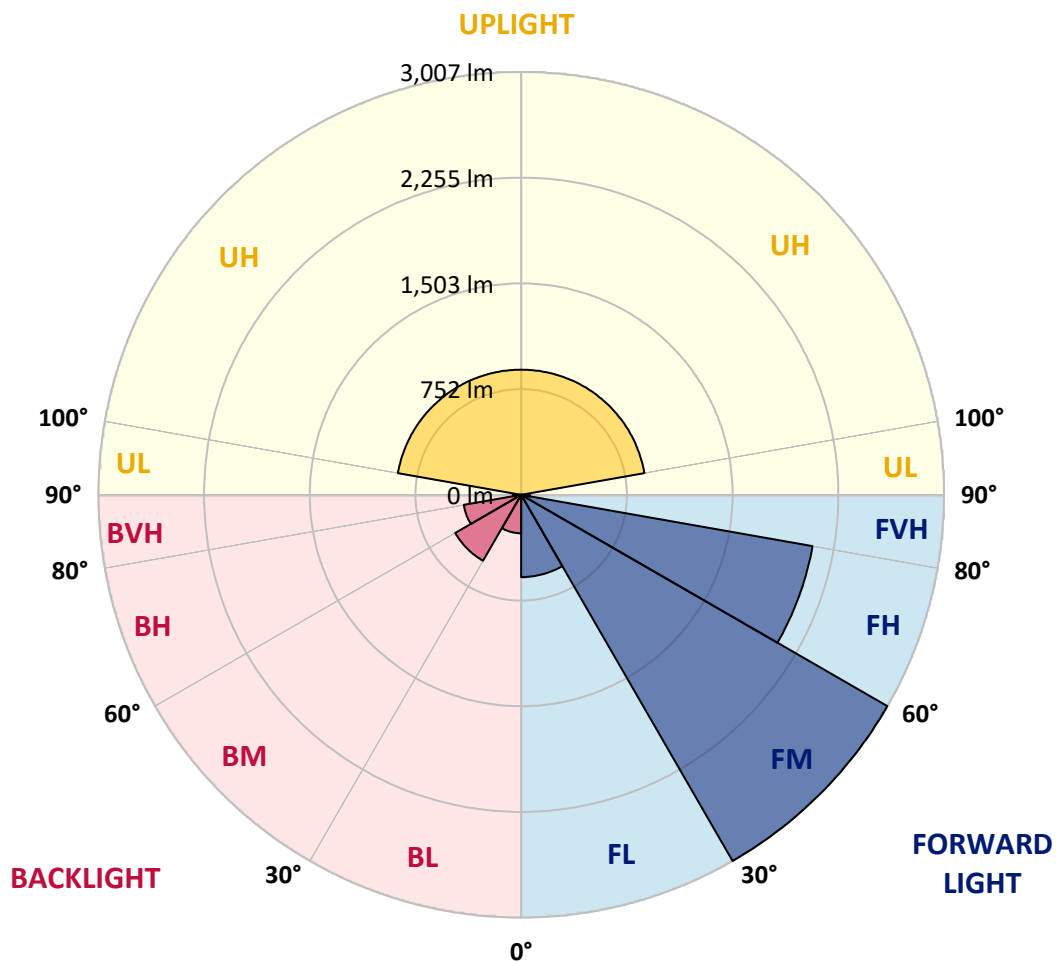
CATALOG NUMBER: ISW-AF-1200-LED-E1-T2-ULG

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	585.3	6.6			
FM (30°-60°)	3006.8	34.1			
FH (60°-80°)	2103.7	23.8			G2/5000
FVH (80°-90°)	62.7	0.7			G1/100
BL (0°-30°)	273.6	3.1	B1/500		
BM (30°-60°)	541.6	6.1	B1/1000		
BH (60°-80°)	414.3	4.7	B1/500		G1/500
BVH (80°-90°)	60.1	0.7			G1/100
UL (90°-100°)	13.1	0.1		U2/50	
UH (100°-180°)	889.9	10.1		U4/1000	

**BUG Rating: B1-U5-G2**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	980.6	980.6	980.6	980.6	980.6	980.6	980.6	980.6	980.6	980.6	980.6
2.5°	1050.2	1050.2	1047.1	1045.0	1042.0	1033.8	1021.5	1019.5	1018.4	1016.4	1014.4
5°	1126.9	1118.7	1120.7	1115.6	1104.4	1090.1	1067.6	1056.3	1050.2	1049.1	1045.0
7.5°	1189.4	1190.4	1187.3	1177.1	1161.8	1144.3	1113.6	1096.2	1091.1	1088.0	1080.8
10°	1234.4	1231.3	1229.3	1227.2	1215.0	1200.6	1161.8	1140.2	1136.1	1127.9	1119.7
12.5°	1267.1	1267.1	1267.1	1265.1	1257.9	1246.7	1216.0	1194.5	1189.4	1178.1	1171.0
15°	1302.9	1298.8	1294.7	1291.7	1292.7	1292.7	1270.2	1253.8	1245.6	1239.5	1225.2
17.5°	1379.8	1370.5	1361.3	1349.1	1329.6	1324.4	1323.4	1322.4	1311.1	1310.1	1295.8
20°	1445.2	1437.0	1428.9	1416.6	1389.0	1359.3	1374.6	1389.0	1386.9	1387.9	1380.8
22.5°	1526.1	1520.0	1503.5	1489.2	1453.4	1417.6	1419.7	1450.3	1454.4	1458.5	1460.6
25°	1636.6	1633.6	1607.0	1579.3	1538.4	1504.7	1472.8	1510.8	1519.0	1528.2	1546.6
27.5°	1748.2	1741.1	1712.4	1687.9	1636.6	1600.8	1556.8	1577.3	1589.6	1607.0	1635.6
30°	1892.6	1873.1	1862.9	1807.6	1760.5	1708.3	1670.4	1676.5	1674.5	1695.0	1739.0
32.5°	2101.3	2070.7	2019.4	1964.2	1908.9	1839.3	1807.6	1806.5	1801.4	1824.9	1849.5
35°	2214.0	2206.7	2175.0	2119.8	2059.4	1993.8	1973.4	1953.9	1957.0	1969.3	1978.5
37.5°	2335.7	2329.6	2305.0	2274.3	2228.3	2264.1	2150.4	2121.8	2108.5	2102.4	2105.4
40°	2388.9	2394.1	2407.4	2412.5	2385.8	2557.8	2333.7	2239.5	2235.5	2226.2	2217.0
42.5°	2400.3	2413.6	2440.1	2498.5	2524.0	2898.6	2485.2	2371.5	2355.1	2348.0	2349.0
45°	2441.2	2461.6	2466.7	2519.9	2640.7	2916.0	2656.1	2488.2	2476.0	2474.9	2468.8
47.5°	2540.4	2568.1	2568.1	2591.6	2706.2	2949.9	2714.4	2604.9	2596.8	2592.7	2609.0
50°	2554.7	2591.6	2665.3	2741.0	2824.0	2977.5	2781.0	2731.8	2734.9	2744.2	2792.2
52.5°	2312.2	2349.0	2543.5	2766.7	3036.8	3053.2	2881.2	2900.7	2921.2	2966.3	3054.2
55°	1982.6	2009.2	2239.5	2596.8	3045.0	3340.9	3133.1	3187.3	3230.3	3243.6	3381.8
57.5°	1560.9	1597.7	1832.1	2295.8	2843.4	3422.7	3712.4	3736.9	3688.9	3732.8	3783.0
60°	845.5	841.4	1167.9	1660.1	2419.7	3271.2	4271.2	4693.0	4703.2	4770.7	4689.9
62.5°	472.9	472.9	567.0	852.6	1556.8	2767.7	4539.4	5519.9	5647.9	5755.4	5991.8
65°	357.2	360.3	394.0	513.8	874.1	1747.2	4342.9	5802.5	6048.1	6294.8	6709.3
67.5°	296.9	296.9	321.4	382.8	546.6	793.2	3197.5	5235.5	5542.4	5837.3	6410.4
69°	275.4	276.4	294.8	336.8	457.6	515.9	2208.8	4439.1	4790.2	5198.5	5874.1
70°	265.0	262.0	279.5	314.3	414.5	407.3	1618.2	3859.8	4132.0	4498.4	5275.4
72.5°	235.4	232.3	241.5	268.2	326.5	290.7	660.2	2076.8	2487.2	2897.6	3516.9
75°	209.8	206.7	213.9	226.2	253.8	222.1	331.6	870.0	1053.2	1361.3	1878.2
77.5°	185.3	179.1	185.3	193.4	199.6	165.8	225.2	402.2	493.4	605.9	855.7
80°	167.9	161.7	168.9	164.8	156.6	128.0	149.5	234.4	259.9	311.2	407.3
82.5°	119.8	118.8	160.7	165.8	124.9	93.2	106.5	150.5	167.9	177.1	214.9
85°	73.7	70.6	93.2	118.8	126.9	58.3	68.5	89.1	93.2	101.4	119.8
87.5°	37.8	38.9	50.1	61.4	82.9	34.8	40.9	52.2	52.2	52.2	59.3
90°	14.3	16.4	22.5	29.7	25.6	16.4	22.5	20.5	22.7	20.9	23.3
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	8.1
97.5°	7.2	7.2	8.2	8.2	9.2	9.2	12.3	11.3	11.0	10.8	10.4
100°	8.2	8.2	9.2	10.2	12.3	21.5	29.7	28.1	27.8	27.5	26.9
102.5°	11.3	11.3	13.3	18.4	27.6	40.9	51.1	49.6	49.3	49.0	48.4
105°	21.5	22.5	27.6	36.8	49.1	64.4	73.7	72.6	72.4	72.2	71.8
107.5°	41.9	43.0	50.1	59.3	74.7	90.0	97.2	96.7	96.6	96.5	96.3



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
110°	67.5	69.6	75.7	89.0	104.3	116.6	122.8	123.3	123.4	123.5	123.7
112.5°	101.3	101.3	108.4	123.8	137.1	146.3	151.4	152.4	152.6	152.8	153.2
115°	143.2	142.2	150.4	162.6	171.9	178.0	183.1	184.6	184.9	185.3	185.9
117.5°	188.2	188.2	193.3	201.5	206.6	209.7	215.8	217.9	218.3	218.7	219.5
120°	230.2	228.1	231.2	238.3	242.4	248.6	251.6	253.7	254.1	254.5	255.3
122.5°	269.0	266.0	267.0	273.1	277.2	283.4	285.4	287.4	287.9	288.3	289.1
125°	304.8	300.7	302.8	305.9	312.0	317.1	320.2	321.2	321.4	321.6	322.0
127.5°	337.6	336.6	336.6	340.6	346.8	347.8	352.9	353.4	353.5	353.6	353.8
130°	371.3	369.3	370.3	374.4	378.5	380.5	385.7	387.7	388.1	388.5	389.3
132.5°	405.1	403.0	402.0	410.2	413.3	414.3	420.4	423.0	423.5	424.0	425.0
135°	438.8	435.8	435.8	441.9	445.0	447.0	453.2	455.7	456.2	456.7	457.8
137.5°	470.6	467.5	469.5	470.6	474.6	478.7	483.9	484.9	485.1	485.3	485.7
140°	499.2	496.1	498.2	500.2	502.3	508.4	511.5	512.5	512.7	512.9	513.3
142.5°	529.9	526.8	528.9	529.9	533.0	537.0	539.1	542.2	542.8	543.4	544.6
145°	562.6	558.5	556.5	559.6	562.6	563.6	568.8	571.8	572.4	573.1	574.3
147.5°	588.2	585.1	584.1	587.2	587.2	588.2	593.3	595.9	596.4	596.9	597.9
150°	608.7	605.6	606.6	606.6	606.6	606.6	610.7	612.2	612.5	612.8	613.5
152.5°	625.0	622.0	622.0	623.0	624.0	624.0	625.0	626.6	626.9	627.2	627.8
155°	643.4	639.3	639.3	641.4	644.5	642.4	640.4	642.9	643.4	643.9	645.0
157.5°	660.8	657.8	657.8	658.8	660.8	659.8	658.8	660.8	661.2	661.6	662.5
160°	678.2	675.1	674.1	671.1	670.0	670.0	673.1	676.2	676.8	677.4	678.6
162.5°	688.4	684.4	684.4	680.3	676.2	678.2	682.3	684.4	684.8	685.2	686.0
165°	696.6	693.6	691.5	691.5	688.4	688.4	687.4	690.0	690.5	691.0	692.0
167.5°	705.8	702.8	699.7	701.7	703.8	700.7	693.6	696.6	697.2	697.9	699.1
170°	714.0	711.0	707.9	707.9	708.9	706.9	701.7	703.3	703.6	703.9	704.5
172.5°	715.0	713.0	711.0	708.9	705.8	705.8	704.8	706.3	706.7	707.0	707.6
175°	716.1	714.0	713.0	711.0	706.9	705.8	705.8	708.4	708.9	709.4	710.4
177.5°	723.2	721.2	716.1	715.0	713.0	711.0	709.9	712.5	713.0	713.5	714.5
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):**

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	980.6	980.6	980.6	980.6	980.6	980.6	980.6	980.6	980.6	980.6	980.6
2.5°	1015.4	1012.3	1008.2	1009.2	1007.2	1004.1	1005.2	1004.1	1005.2	1003.1	1001.1
5°	1045.0	1043.0	1036.9	1035.8	1033.8	1031.7	1028.7	1025.6	1024.6	1022.5	1018.4
7.5°	1078.8	1072.7	1069.6	1065.5	1060.4	1052.2	1051.2	1047.1	1044.0	1042.0	1036.9
10°	1113.6	1106.4	1102.3	1097.2	1092.1	1087.0	1081.9	1074.7	1067.6	1065.5	1059.4
12.5°	1165.9	1156.7	1148.4	1140.2	1135.1	1125.9	1118.7	1109.5	1102.3	1099.3	1089.0
15°	1223.1	1210.9	1202.7	1196.5	1188.4	1180.2	1171.0	1162.8	1151.5	1142.2	1133.0
17.5°	1290.7	1279.4	1273.3	1262.0	1251.8	1242.6	1235.4	1225.2	1216.0	1199.6	1191.4
20°	1379.8	1370.5	1363.4	1351.1	1339.9	1330.7	1324.4	1302.9	1290.7	1276.3	1263.0
22.5°	1462.6	1463.6	1456.5	1448.3	1441.1	1428.9	1418.6	1403.3	1387.9	1370.5	1352.1
25°	1552.7	1560.9	1561.9	1559.9	1555.8	1541.5	1536.4	1521.0	1508.8	1480.0	1471.8
27.5°	1653.0	1662.2	1673.4	1687.9	1690.9	1675.5	1682.8	1667.3	1645.8	1633.6	1607.0
30°	1750.3	1775.8	1799.4	1815.7	1826.0	1833.1	1828.0	1822.9	1808.6	1788.1	1764.6
32.5°	1875.2	1901.8	1925.3	1961.1	1979.5	2002.0	1997.9	2000.0	1994.9	1974.4	1946.8
35°	2001.0	2024.5	2055.3	2078.8	2123.9	2148.4	2168.9	2167.8	2167.8	2155.6	2129.0
37.5°	2112.6	2125.9	2151.5	2190.3	2220.1	2259.0	2291.7	2305.0	2326.5	2327.5	2298.9
40°	2229.3	2242.6	2262.1	2290.7	2323.4	2369.5	2413.6	2456.5	2477.0	2498.5	2487.2
42.5°	2355.1	2369.5	2383.8	2402.3	2449.4	2485.2	2544.5	2602.9	2644.8	2688.8	2683.7
45°	2480.0	2496.4	2516.9	2544.5	2586.5	2644.8	2702.1	2767.7	2863.9	2916.0	2951.9
47.5°	2621.3	2647.9	2685.8	2729.7	2763.6	2824.0	2896.6	2998.0	3095.1	3185.3	3241.5
50°	2834.2	2844.4	2905.8	2948.9	3013.3	3074.7	3147.4	3236.4	3362.3	3454.5	3544.5
52.5°	3084.9	3123.9	3185.3	3234.4	3285.6	3347.0	3421.7	3501.6	3626.4	3729.8	3846.5
55°	3408.4	3463.7	3516.9	3543.5	3615.1	3670.4	3730.8	3809.7	3943.7	4056.3	4193.5
57.5°	3794.2	3849.6	3875.1	3914.0	3944.7	4006.2	4088.0	4141.2	4260.0	4376.7	4522.1
60°	4586.5	4551.7	4582.4	4522.1	4512.8	4518.0	4535.4	4576.3	4642.8	4751.3	4904.8
62.5°	6016.4	5966.3	5833.2	5785.1	5691.9	5566.0	5447.3	5430.9	5396.1	5478.0	5574.2
65°	6851.6	7033.8	7053.2	7104.4	7067.6	6969.3	6830.1	6785.0	6672.5	6593.6	6588.5
67.5°	6651.0	6924.3	7095.2	7311.1	7430.9	7547.6	7578.3	7618.2	7545.6	7509.7	7519.9
69°	6093.1	6295.9	6678.6	6826.0	7015.4	7171.0	7375.7	7411.5	7482.1	7492.3	7628.5
70°	5540.4	5838.3	6057.3	6278.4	6540.4	6711.4	6803.4	6954.9	7130.0	7216.0	7363.4
72.5°	3983.7	4080.9	4236.4	4523.1	4595.7	4772.8	4953.9	5082.9	5288.7	5434.0	5781.0
75°	2149.4	2207.7	2452.4	2615.2	2658.1	2716.4	2849.5	2881.2	2958.1	3005.1	3338.8
77.5°	981.6	1070.6	1102.3	1191.4	1141.2	1165.9	1197.6	1190.4	1211.9	1314.2	1430.9
80°	452.5	469.8	482.1	518.9	521.0	512.8	515.9	510.8	506.7	523.0	535.3
82.5°	220.0	246.6	246.6	269.2	280.5	277.4	283.6	281.5	285.6	281.5	294.8
85°	129.0	129.0	139.2	151.5	149.5	153.5	153.5	161.7	162.8	164.8	164.8
87.5°	60.4	66.5	69.6	74.7	76.7	79.8	81.8	81.8	82.9	80.8	82.9
90°	24.6	24.6	34.8	34.8	36.8	39.9	35.8	37.8	45.0	35.8	43.0
92.5°	7.2	7.1	7.0	6.9	6.8	6.6	6.5	6.4	6.3	6.2	6.1
95°	8.2	8.1	8.0	7.9	7.8	7.7	7.6	7.5	7.4	7.3	7.2
97.5°	10.2	10.1	10.0	9.9	9.8	9.7	9.6	9.5	9.4	9.3	9.2
100°	26.6	26.3	26.0	25.7	25.4	25.1	24.8	24.4	24.1	23.8	23.5
102.5°	48.1	47.6	47.1	46.5	46.0	45.5	45.0	44.5	44.0	43.5	43.0
105°	71.6	71.1	70.6	70.1	69.6	69.0	68.5	68.0	67.5	67.0	66.5
107.5°	96.2	95.7	95.3	94.9	94.5	94.1	93.7	93.3	92.9	92.5	92.1



REPORT NUMBER: P226350

CATALOG NUMBER: ISW-AF-1200-LED-E1-T2-ULG

**CANDELA DISTRIBUTION (continued):**

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
110°	123.8	123.6	123.4	123.2	123.0	122.8	122.5	122.3	122.1	121.9	121.7
112.5°	153.4	153.3	153.2	153.1	153.0	152.9	152.8	152.7	152.6	152.5	152.4
115°	186.2	185.9	185.6	185.3	184.9	184.6	184.3	184.0	183.7	183.4	183.1
117.5°	219.9	219.4	218.9	218.4	217.9	217.4	216.9	216.4	215.8	215.3	214.8
120°	255.7	255.2	254.7	254.2	253.7	253.2	252.7	252.2	251.6	251.1	250.6
122.5°	289.5	289.0	288.5	288.0	287.4	286.9	286.4	285.9	285.4	284.9	284.4
125°	322.2	321.7	321.2	320.7	320.2	319.7	319.2	318.6	318.1	317.6	317.1
127.5°	353.9	353.9	353.9	353.9	353.9	353.9	353.9	353.9	353.9	353.9	353.9
130°	389.7	389.7	389.7	389.7	389.7	389.7	389.7	389.7	389.7	389.7	389.7
132.5°	425.5	425.3	425.1	424.9	424.7	424.5	424.3	424.1	423.9	423.7	423.5
135°	458.3	458.2	458.1	458.0	457.9	457.8	457.7	457.6	457.5	457.4	457.3
137.5°	485.9	486.0	486.1	486.2	486.3	486.4	486.5	486.6	486.7	486.8	486.9
140°	513.5	513.7	513.9	514.1	514.3	514.5	514.7	515.0	515.2	515.4	515.6
142.5°	545.2	545.2	545.2	545.2	545.2	545.2	545.2	545.2	545.2	545.2	545.2
145°	574.9	574.8	574.7	574.6	574.5	574.4	574.3	574.2	574.1	574.0	573.9
147.5°	598.4	598.5	598.6	598.7	598.8	598.9	599.0	599.1	599.2	599.3	599.4
150°	613.8	614.1	614.4	614.7	615.0	615.3	615.6	615.9	616.2	616.5	616.8
152.5°	628.1	628.5	628.9	629.3	629.7	630.1	630.5	631.0	631.4	631.8	632.2
155°	645.5	646.0	646.5	647.0	647.5	648.0	648.6	649.1	649.6	650.1	650.6
157.5°	662.9	663.1	663.3	663.5	663.7	663.9	664.1	664.3	664.5	664.7	664.9
160°	679.2	678.9	678.6	678.3	678.0	677.7	677.4	677.1	676.8	676.5	676.2
162.5°	686.4	686.3	686.2	686.1	686.0	685.9	685.8	685.7	685.6	685.5	685.4
165°	692.5	692.8	693.2	693.5	693.8	694.1	694.4	694.7	695.0	695.3	695.6
167.5°	699.7	700.1	700.5	700.9	701.3	701.7	702.2	702.6	703.0	703.4	703.8
170°	704.8	705.3	705.8	706.3	706.9	707.4	707.9	708.4	708.9	709.4	709.9
172.5°	707.9	708.1	708.3	708.5	708.7	708.9	709.1	709.3	709.5	709.7	709.9
175°	711.0	711.1	711.2	711.3	711.4	711.5	711.6	711.7	711.8	711.9	712.0
177.5°	715.0	715.2	715.5	715.7	715.9	716.1	716.3	716.5	716.7	716.9	717.1
180°	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1



REPORT NUMBER: P226350

CATALOG NUMBER: ISW-AF-1200-LED-E1-T2-ULG

**CANDELA DISTRIBUTION (continued):**

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	980.6	980.6	980.6	980.6	980.6	980.6	980.6	980.6	980.6	980.6	980.6
2.5°	999.0	1001.1	1000.0	995.9	994.9	994.9	992.9	991.9	989.8	988.8	990.8
5°	1017.4	1017.4	1014.4	1010.3	1006.2	1005.2	1004.1	999.0	997.0	994.9	992.9
7.5°	1034.8	1032.8	1028.7	1021.5	1017.4	1016.4	1012.3	1007.2	1002.1	998.0	995.9
10°	1053.2	1051.2	1043.0	1037.9	1029.7	1028.7	1021.5	1015.4	1010.3	1005.2	1001.1
12.5°	1079.8	1077.8	1068.6	1056.3	1050.2	1046.1	1036.9	1029.7	1022.5	1016.4	1009.2
15°	1120.7	1112.6	1106.4	1094.1	1084.9	1076.8	1065.5	1055.3	1045.0	1034.8	1028.7
17.5°	1178.1	1166.9	1150.5	1143.2	1131.0	1117.7	1102.3	1095.2	1081.9	1069.6	1057.3
20°	1252.8	1241.6	1216.0	1206.8	1189.4	1169.9	1157.7	1142.2	1131.0	1111.5	1098.2
22.5°	1335.8	1325.4	1300.9	1276.3	1260.0	1244.6	1225.2	1205.8	1184.3	1165.9	1151.5
25°	1443.2	1427.8	1406.4	1381.8	1357.3	1335.8	1309.1	1281.5	1263.0	1237.5	1217.0
27.5°	1589.6	1563.0	1527.2	1500.5	1481.0	1448.3	1415.6	1391.0	1362.4	1328.6	1306.0
30°	1748.2	1718.6	1692.0	1661.2	1628.4	1596.7	1551.7	1515.9	1485.1	1449.3	1412.5
32.5°	1924.3	1898.7	1860.8	1820.9	1785.0	1745.2	1712.4	1674.5	1621.3	1583.4	1544.6
35°	2101.3	2071.7	2032.7	1998.9	1958.0	1917.1	1880.3	1830.1	1782.0	1727.8	1673.4
37.5°	2272.3	2246.7	2203.6	2152.5	2116.7	2072.7	2034.8	1981.6	1924.3	1863.9	1822.9
40°	2462.7	2421.7	2392.1	2332.6	2295.8	2246.7	2192.4	2151.5	2096.2	2030.7	1972.4
42.5°	2680.6	2652.0	2620.3	2572.2	2533.2	2474.9	2406.4	2354.1	2303.0	2225.2	2144.3
45°	2957.0	2938.6	2886.4	2847.5	2795.3	2733.8	2674.5	2611.1	2530.2	2440.1	2366.4
47.5°	3288.7	3274.4	3227.2	3172.0	3103.4	3020.5	2965.2	2878.2	2809.6	2697.0	2609.0
50°	3589.5	3596.7	3571.1	3486.2	3424.7	3341.9	3254.8	3179.1	3073.7	2957.0	2844.4
52.5°	3948.8	3941.6	3877.2	3830.1	3757.4	3657.2	3561.9	3464.7	3349.0	3228.2	3088.0
55°	4292.7	4314.2	4269.2	4202.7	4114.6	3974.4	3878.2	3752.3	3630.6	3497.5	3335.7
57.5°	4626.4	4695.0	4660.2	4581.4	4491.3	4390.0	4263.0	4121.8	3996.0	3821.9	3639.8
60°	5041.9	5133.1	5147.4	5096.2	4997.9	4880.3	4713.5	4602.9	4429.9	4269.2	4128.9
62.5°	5681.7	5888.4	5876.1	5900.7	5831.1	5758.5	5562.9	5444.2	5219.0	5103.4	4907.9
65°	6750.2	6902.8	7086.0	7079.8	7031.8	6857.8	6655.1	6456.5	6308.1	6079.8	5876.1
67.5°	7646.9	7772.8	7881.3	7825.0	7714.5	7518.9	7281.5	7005.2	6778.9	6527.1	6259.9
69°	7730.8	7884.4	7947.8	7878.3	7679.6	7424.8	7192.5	6935.5	6624.3	6408.4	6082.9
70°	7505.6	7657.1	7785.1	7605.9	7423.8	7175.1	6921.2	6654.1	6375.6	6143.3	5814.8
72.5°	5962.2	6133.1	6115.7	6096.2	5950.9	5702.1	5468.8	5325.5	5130.0	4849.5	4612.1
75°	3466.8	3545.5	3407.3	3552.7	3378.7	3128.0	3160.7	2999.0	2855.7	2693.9	2569.1
77.5°	1361.3	1430.9	1358.3	1334.7	1256.9	1239.5	1109.5	1124.8	1060.4	933.4	875.1
80°	515.9	525.1	512.8	487.2	482.1	452.5	444.3	415.5	402.2	360.3	344.9
82.5°	277.4	282.5	274.4	266.2	259.9	242.5	231.3	209.8	197.5	184.2	183.2
85°	159.7	155.6	151.5	147.4	138.2	128.0	119.8	111.6	102.4	95.2	88.0
87.5°	83.9	84.9	85.9	81.8	75.7	67.5	62.4	59.3	52.2	49.1	46.0
90°	36.6	29.3	32.1	38.1	35.8	30.5	29.3	26.0	22.7	22.5	19.4
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°	9.1	9.0	8.9	8.8	8.7	8.6	8.5	8.4	8.3	8.2	8.2
100°	23.1	22.7	22.3	21.9	21.5	21.1	20.7	20.3	19.8	19.4	19.4
102.5°	42.7	42.4	42.0	41.7	41.4	41.1	40.8	40.5	40.2	39.9	39.7
105°	66.1	65.7	65.3	64.9	64.4	64.0	63.6	63.2	62.8	62.4	62.4
107.5°	91.8	91.5	91.1	90.8	90.5	90.2	89.9	89.6	89.3	89.0	88.8



REPORT NUMBER: P226350  
 CATALOG NUMBER: ISW-AF-1200-LED-E1-T2-ULG

REPORT N  
 CATALOG

**CANDELA DISTRIBUTION (continued):**

**CANDELA**

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°	
110°	121.4	121.1	120.8	120.5	120.2	119.9	119.6	119.3	119.0	118.7	118.9	0°
112.5°	152.2	152.0	151.8	151.6	151.4	151.2	151.0	150.8	150.6	150.4	150.4	2.5°
115°	182.9	182.7	182.5	182.3	182.1	181.9	181.7	181.5	181.3	181.1	181.3	5°
117.5°	214.6	214.4	214.2	214.0	213.8	213.6	213.4	213.2	213.0	212.8	213.0	7.5°
120°	250.4	250.2	250.0	249.8	249.6	249.4	249.2	249.0	248.8	248.6	248.6	10°
122.5°	284.2	284.0	283.8	283.6	283.4	283.2	282.9	282.7	282.5	282.3	282.5	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°	353.8	353.7	353.6	353.5	353.4	353.3	353.2	353.1	353.0	352.9	353.3	17.5°
130°	389.5	389.3	389.1	388.9	388.7	388.5	388.3	388.1	387.9	387.7	387.9	20°
132.5°	423.5	423.5	423.5	423.5	423.5	423.5	423.5	423.5	423.5	423.5	423.7	22.5°
135°	457.6	457.9	458.2	458.5	458.8	459.1	459.4	459.7	460.0	460.3	460.5	25°
137.5°	487.4	487.9	488.5	489.0	489.5	490.0	490.5	491.0	491.5	492.0	492.2	27.5°
140°	516.1	516.6	517.1	517.6	518.1	518.6	519.1	519.7	520.2	520.7	521.1	30°
142.5°	545.3	545.4	545.5	545.6	545.7	545.8	545.9	546.1	546.2	546.3	546.7	32.5°
145°	573.6	573.3	573.0	572.6	572.3	572.0	571.7	571.4	571.1	570.8	571.2	35°
147.5°	599.1	598.8	598.5	598.2	597.9	597.6	597.3	597.0	596.7	596.4	596.8	37.5°
150°	617.1	617.5	617.8	618.1	618.4	618.7	619.0	619.3	619.6	619.9	620.7	40°
152.5°	632.7	633.2	633.7	634.2	634.7	635.3	635.8	636.3	636.8	637.3	638.3	42.5°
155°	650.8	651.0	651.2	651.4	651.6	651.8	652.0	652.2	652.4	652.6	653.3	45°
157.5°	664.9	664.9	664.9	664.9	664.9	664.9	664.9	664.9	664.9	664.9	665.9	47.5°
160°	676.1	676.0	675.9	675.8	675.7	675.6	675.5	675.4	675.2	675.1	676.4	50°
162.5°	685.2	685.0	684.8	684.6	684.4	684.1	683.9	683.7	683.5	683.3	684.6	52.5°
165°	695.4	695.2	695.0	694.8	694.6	694.4	694.2	694.0	693.8	693.6	694.4	55°
167.5°	703.8	703.8	703.8	703.8	703.8	703.8	703.8	703.8	703.8	703.8	705.0	57.5°
170°	710.1	710.3	710.5	710.7	711.0	711.2	711.4	711.6	711.8	712.0	713.0	60°
172.5°	710.1	710.3	710.5	710.7	711.0	711.2	711.4	711.6	711.8	712.0	713.0	62.5°
175°	711.8	711.6	711.4	711.2	711.0	710.7	710.5	710.3	710.1	709.9	711.0	65°
177.5°	716.8	716.5	716.2	715.9	715.6	715.2	714.9	714.6	714.3	714.0	714.8	67.5°
180°	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	69°
												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: P226350  
 NUMBER: ISW-AF-1200-LED-E1-T2-ULG

REPORT NUMBER: P  
 CATALOG NUMBER:

**DISTRIBUTION (continued):**

**CANDELA DISTRIBUTION**

87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	155°	110°	87°
980.6	980.6	980.6	980.6	980.6	980.6	980.6	980.6	980.6	980.6	980.6	110°	119.1
987.8	987.8	984.7	982.6	975.5	963.1	950.8	939.6	924.2	918.1	909.9	112.5°	150.4
990.8	988.8	985.7	981.6	967.2	938.6	908.9	877.2	844.4	814.8	779.9	115°	181.5
992.9	988.8	984.7	979.6	959.0	915.0	855.7	793.2	734.9	690.9	672.5	117.5°	213.2
993.9	990.8	985.7	978.6	949.8	884.3	789.1	699.1	647.9	630.5	627.5	120°	248.6
1005.2	1000.0	991.9	983.7	945.7	850.6	714.4	628.5	607.9	616.1	630.5	122.5°	282.7
1019.5	1013.3	1003.1	994.9	943.7	806.6	641.8	588.5	595.7	618.2	641.8	125°	317.1
1045.0	1034.8	1023.6	1015.4	947.8	752.3	583.4	568.0	589.5	618.2	650.0	127.5°	353.7
1082.9	1068.6	1055.3	1041.0	953.9	684.8	548.6	554.7	580.3	611.0	645.9	130°	388.1
1130.0	1113.6	1095.2	1073.7	961.1	626.5	529.2	540.4	564.0	590.5	619.2	132.5°	423.9
1193.5	1171.0	1147.3	1120.7	971.3	562.9	511.8	524.1	538.4	553.7	568.0	135°	460.7
1273.3	1242.6	1217.0	1181.2	981.6	520.0	497.5	501.6	504.6	506.7	505.6	137.5°	492.4
1379.8	1332.7	1302.9	1258.9	992.9	497.5	481.1	476.0	470.9	463.7	455.5	140°	521.5
1492.3	1453.4	1406.4	1350.1	1000.0	482.1	465.7	449.4	435.0	427.8	427.8	142.5°	547.1
1623.3	1575.2	1515.9	1445.2	990.8	465.7	445.3	423.7	415.5	424.7	421.7	145°	571.6
1754.4	1687.9	1622.3	1541.5	968.2	447.3	422.7	411.4	417.6	405.3	398.1	147.5°	597.2
1898.7	1824.9	1733.9	1639.7	935.5	427.8	411.4	417.6	396.1	381.8	387.9	150°	621.5
2060.4	1973.4	1875.2	1747.2	914.0	415.5	394.0	399.2	380.7	370.5	367.4	152.5°	639.3
2280.5	2156.6	2036.9	1886.4	930.4	396.1	360.3	380.7	370.5	361.3	353.1	155°	653.9
2496.4	2364.3	2223.2	2046.1	959.0	381.8	333.7	361.3	368.5	353.1	337.8	157.5°	667.0
2713.4	2573.2	2408.4	2210.8	993.9	372.6	313.2	337.8	363.4	344.9	332.7	160°	677.6
2941.7	2764.6	2595.7	2382.8	1038.9	363.4	296.9	317.3	354.1	344.9	326.5	162.5°	685.8
3181.2	2972.4	2803.5	2573.2	1117.7	350.1	276.4	301.0	344.9	343.9	320.4	165°	695.2
3459.6	3273.2	3056.3	2821.9	1227.2	334.7	257.9	288.7	336.8	339.8	313.2	167.5°	706.2
3933.5	3741.0	3479.1	3255.8	1444.2	314.3	246.6	276.4	323.5	331.6	307.1	170°	714.0
4702.2	4440.1	4199.6	3990.8	1815.7	285.6	238.4	263.0	309.1	321.4	302.0	172.5°	714.0
5583.5	5327.5	5036.8	4685.7	2022.5	258.9	227.2	246.6	294.8	311.2	296.9	175°	712.0
5958.1	5623.4	5270.2	4853.6	1824.9	237.4	214.9	231.3	278.4	296.9	289.7	177.5°	715.7
5786.1	5447.3	5036.8	4628.4	1587.5	226.2	207.8	223.1	266.2	287.7	282.5	180°	716.1
5487.2	5146.4	4779.9	4289.6	1417.6	220.0	202.6	218.0	261.0	282.5	278.4		
4339.9	4035.8	3698.1	3324.5	966.2	199.6	186.3	202.6	240.5	264.0	263.0		
2299.9	2210.8	1961.1	1742.1	500.5	178.1	168.9	185.3	222.1	246.6	246.6		
828.1	751.3	718.5	596.7	266.2	155.6	151.5	163.8	201.6	225.2	224.1		
313.2	305.0	273.3	255.8	168.9	126.9	128.0	140.2	177.1	199.6	198.6		
177.1	160.7	155.6	150.5	107.5	100.4	105.5	117.7	151.5	170.9	174.0		
84.9	78.8	76.7	71.6	70.6	76.7	82.9	93.2	120.8	144.3	141.3		
40.9	38.9	37.8	36.8	50.1	49.1	60.4	64.4	80.8	114.7	103.4		
20.5	20.5	19.4	17.4	21.5	25.6	28.6	34.8	40.9	74.7	62.4		
6.1	6.1	6.1	6.1	6.1	6.1	7.2	7.2	6.1	6.1	6.1		
7.2	7.2	7.2	7.2	7.2	7.2	8.2	7.2	7.2	7.2	7.2		
8.2	8.2	8.2	8.2	8.2	9.2	10.2	12.3	9.2	9.2	8.2		
19.4	19.4	19.4	19.4	19.4	23.5	26.6	29.7	21.5	12.3	10.2		
39.5	39.3	39.1	38.9	39.9	43.0	48.1	51.1	40.9	27.6	18.4		
62.4	62.4	62.4	62.4	62.4	66.5	71.6	73.7	64.4	49.1	36.8		
88.6	88.4	88.2	88.0	89.0	92.1	96.2	97.2	90.0	74.7	59.3		

'226350  
 ISW-AF-1200-LED-E1-T2-ULG

REPORT NUMBER: P226350  
 CATALOG NUMBER: ISW-AF-1:

**TION (continued):**

**CANDELA DISTRIBUTION (con**

88°	89°	90°	95°	105°	115°	125°	135°	145°	155°		165°	175°
119.3	119.5	119.7	118.7	121.7	123.8	122.8	116.6	104.3	89.0	0°	980.6	980.6
150.4	150.4	150.4	150.4	152.4	153.4	151.4	146.3	137.1	123.8	2.5°	902.8	888.4
181.7	181.9	182.1	181.1	183.1	186.2	183.1	178.0	171.9	162.6	5°	754.3	752.3
213.4	213.6	213.8	212.8	214.8	219.9	215.8	209.7	206.6	201.5	7.5°	661.2	647.9
248.6	248.6	248.6	248.6	250.6	255.7	251.6	248.6	242.4	238.3	10°	630.5	629.5
282.9	283.2	283.4	282.3	284.4	289.5	285.4	283.4	277.2	273.1	12.5°	643.8	646.9
317.1	317.1	317.1	317.1	317.1	322.2	320.2	317.1	312.0	305.9	15°	661.2	667.4
354.1	354.6	355.0	352.9	353.9	353.9	352.9	347.8	346.8	340.6	17.5°	672.5	683.7
388.3	388.5	388.7	387.7	389.7	389.7	385.7	380.5	378.5	374.4	20°	669.4	682.7
424.1	424.3	424.5	423.5	423.5	425.5	420.4	414.3	413.3	410.2	22.5°	635.7	641.8
460.9	461.1	461.4	460.3	457.3	458.3	453.2	447.0	445.0	441.9	25°	575.2	577.3
492.7	492.9	493.1	492.0	486.9	485.9	483.9	478.7	474.6	470.6	27.5°	502.6	500.5
521.9	522.3	522.7	520.7	515.6	513.5	511.5	508.4	502.3	500.2	30°	451.4	438.0
547.5	547.9	548.3	546.3	545.2	545.2	539.1	537.0	533.0	529.9	32.5°	427.8	419.6
572.0	572.4	572.9	570.8	573.9	574.9	568.8	563.6	562.6	559.6	35°	411.4	398.1
597.6	598.0	598.4	596.4	599.4	598.4	593.3	588.2	587.2	587.2	37.5°	426.8	425.8
622.4	623.2	624.0	619.9	616.8	613.8	610.7	606.6	606.6	606.6	40°	441.1	439.1
640.4	641.4	642.4	637.3	632.2	628.1	625.0	624.0	624.0	623.0	42.5°	416.5	398.1
654.5	655.1	655.7	652.6	650.6	645.5	640.4	642.4	644.5	641.4	45°	371.5	350.1
668.0	669.0	670.0	664.9	664.9	662.9	658.8	659.8	660.8	658.8	47.5°	340.8	328.6
678.8	680.1	681.3	675.1	676.2	679.2	673.1	670.0	670.0	671.1	50°	326.5	322.4
687.0	688.2	689.5	683.3	685.4	686.4	682.3	678.2	676.2	680.3	52.5°	322.4	332.7
696.0	696.8	697.7	693.6	695.6	692.5	687.4	688.4	688.4	691.5	55°	320.4	331.6
707.5	708.7	709.9	703.8	703.8	699.7	693.6	700.7	703.8	701.7	57.5°	306.1	325.5
715.0	716.1	717.1	712.0	709.9	704.8	701.7	706.9	708.9	707.9	60°	295.8	319.4
715.0	716.1	717.1	712.0	709.9	707.9	704.8	705.8	705.8	708.9	62.5°	289.7	316.3
713.0	714.0	715.0	709.9	712.0	711.0	705.8	705.8	706.9	711.0	65°	284.6	318.3
716.5	717.3	718.1	714.0	717.1	715.0	709.9	711.0	713.0	715.0	67.5°	276.4	324.5
716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	69°	272.3	323.5
										70°	268.2	320.4
										72.5°	253.8	295.8
										75°	236.4	261.0
										77.5°	213.9	224.1
										80°	189.3	195.5
										82.5°	164.8	188.3
										85°	129.0	159.7
										87.5°	95.2	88.0
										90°	61.4	45.0
										92.5°	5.1	4.1
										95°	6.1	5.1
										97.5°	8.2	7.2
										100°	9.2	8.2
										102.5°	13.3	11.3
										105°	27.6	22.5
										107.5°	50.1	43.0

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CATALOG NUMBER: ISW-AF-1200-LED-E:

200-LED-E1-T2-ULG

**tinued):**

180°
980.6
891.5
746.1
649.0
632.6
644.9
669.4
687.8
685.8
646.9
579.3
508.7
448.4
428.8
404.3
430.9
443.2
402.2
350.1
326.5
320.4
335.7
330.6
326.5
320.4
315.3
314.3
316.3
312.2
307.1
276.4
248.7
224.1
197.5
166.8
124.9
95.2
38.9
4.1
5.1
7.2
8.2
11.3
21.5
41.9

**CANDELA DISTRIBUTION (continued):**

	165°	175°	180°
110°	75.7	69.6	67.5
112.5°	108.4	101.3	101.3
115°	150.4	142.2	143.2
117.5°	193.3	188.2	188.2
120°	231.2	228.1	230.2
122.5°	267.0	266.0	269.0
125°	302.8	300.7	304.8
127.5°	336.6	336.6	337.6
130°	370.3	369.3	371.3
132.5°	402.0	403.0	405.1
135°	435.8	435.8	438.8
137.5°	469.5	467.5	470.6
140°	498.2	496.1	499.2
142.5°	528.9	526.8	529.9
145°	556.5	558.5	562.6
147.5°	584.1	585.1	588.2
150°	606.6	605.6	608.7
152.5°	622.0	622.0	625.0
155°	639.3	639.3	643.4
157.5°	657.8	657.8	660.8
160°	674.1	675.1	678.2
162.5°	684.4	684.4	688.4
165°	691.5	693.6	696.6
167.5°	699.7	702.8	705.8
170°	707.9	711.0	714.0
172.5°	711.0	713.0	715.0
175°	713.0	714.0	716.1
177.5°	716.1	721.2	723.2
180°	716.1	716.1	716.1

(END OF F

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report

