

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: P226351

Luminaire Tested: **ISW-AF-1200-LED-E1-T2-8030-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P226351
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-T2-8030-ULG
Description: IMPACT ELITE LED WEDGE LUMINAIRE WITH UPLIGHT
LIGHT SQUARE WITH ACCULED OPTICS-TYPE II, 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: 7360.5 lumens
Efficiency: N/A
Efficacy: 89.0 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 - G1

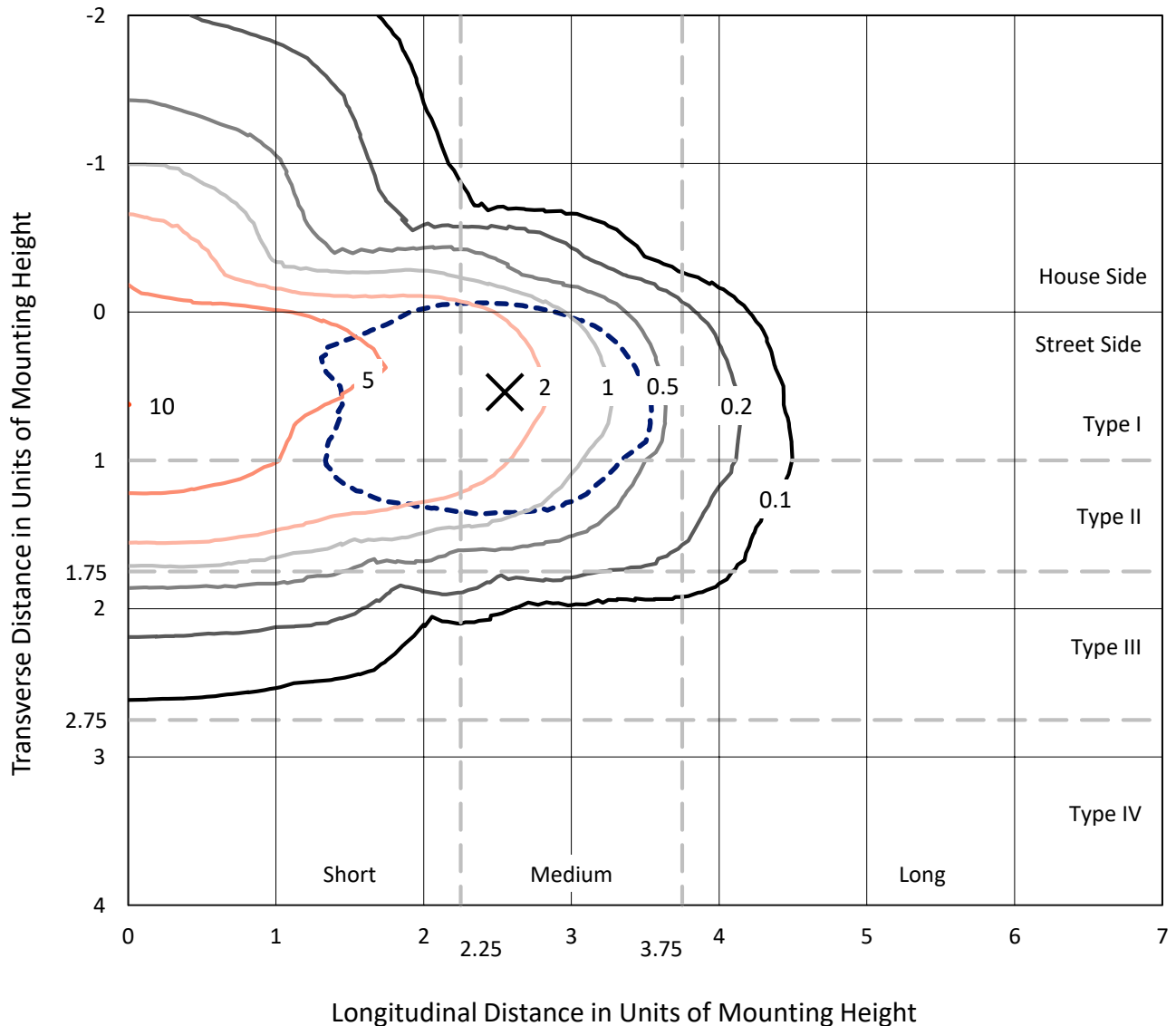
Input Watts (W): 82.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

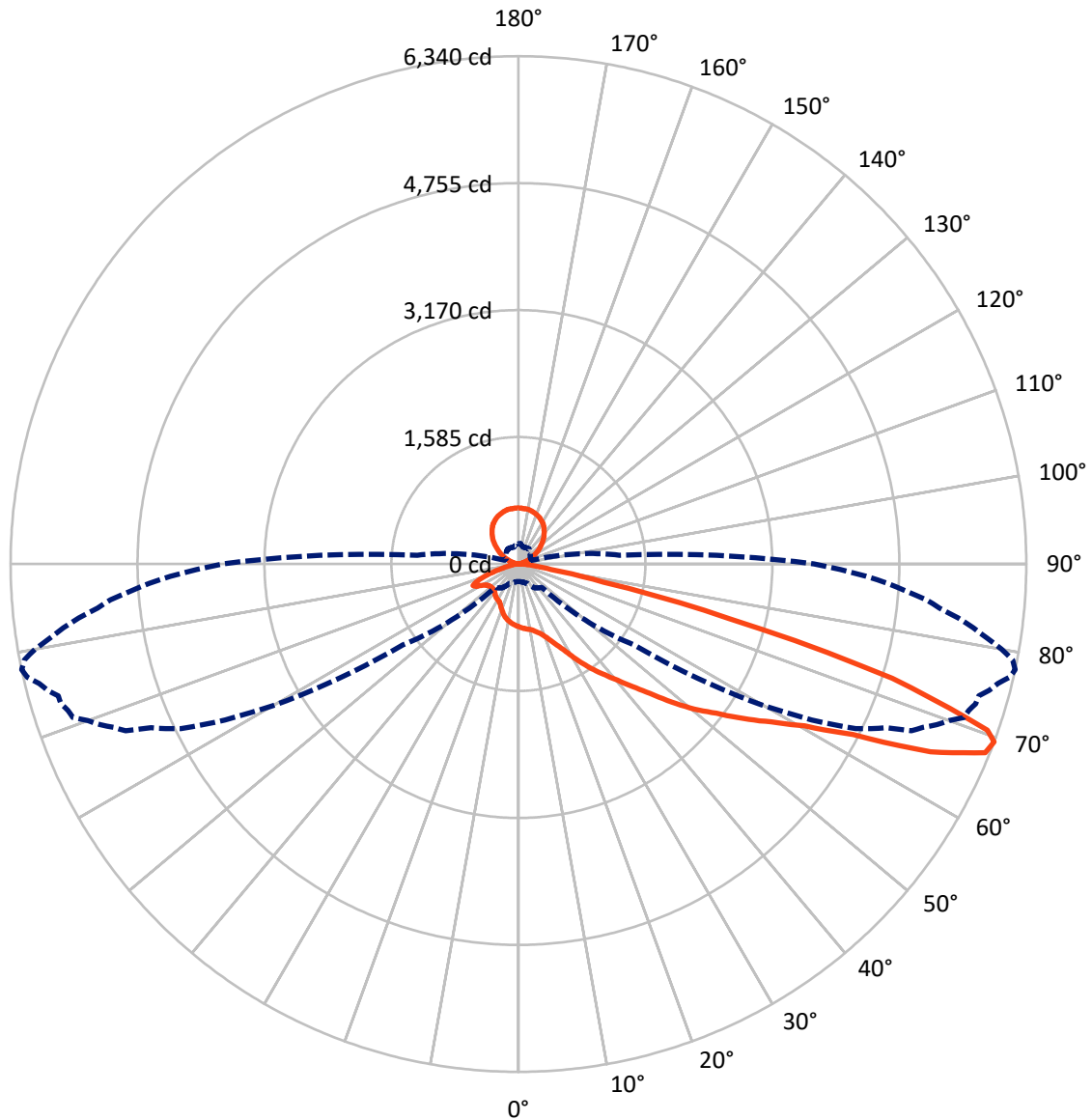
× Max cd
 - - - 1/2 Max cd



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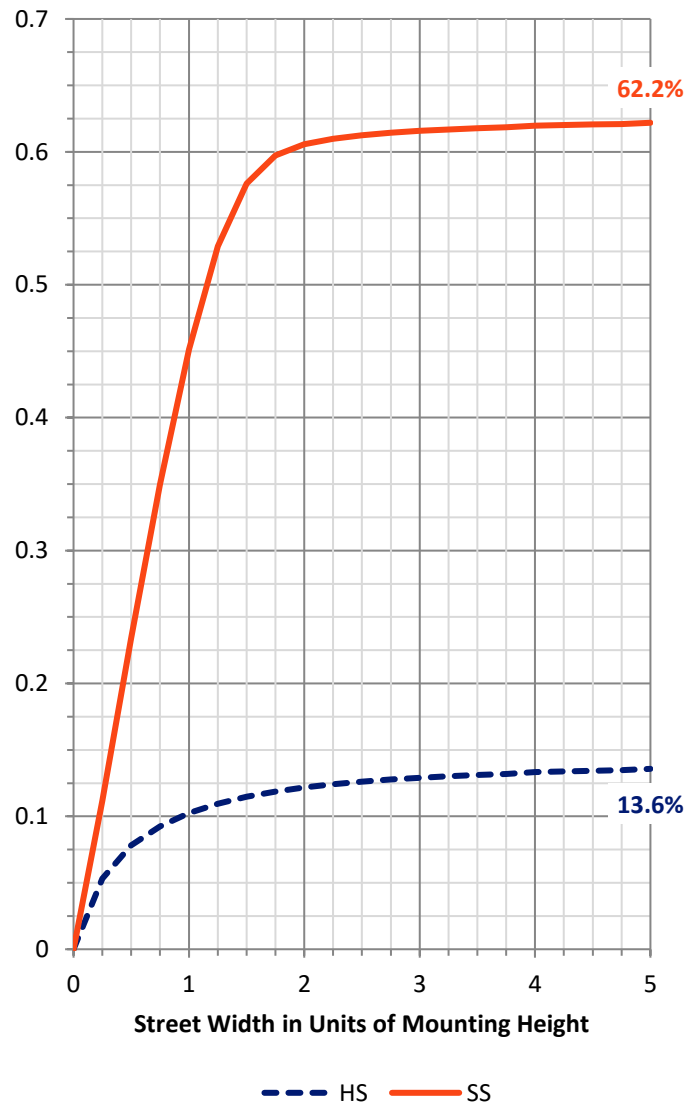
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1028.8	869.5	1898.4
	% Fixture	14.0	11.8	25.8
Street Side	Lumens	4593.6	868.5	5462.1
	% Fixture	62.4	11.8	74.2
Total	Lumens	5622.4	1738.0	7360.5
	% Fixture	76.4	23.6	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.6	1.0
10°-20°	219.3	3.0
20°-30°	393.2	5.3
30°-40°	641.8	8.7
40°-50°	949.3	12.9
50°-60°	1239.5	16.8
60°-70°	1386.3	18.8
70°-80°	622.4	8.5
80°-90°	98.1	1.3
90°-100°	12.1	0.2
100°-110°	57.4	0.8
110°-120°	166.1	2.3
120°-130°	273.2	3.7
130°-140°	336.8	4.6
140°-150°	344.6	4.7
150°-160°	290.3	3.9
160°-170°	191.2	2.6
170°-180°	66.3	0.9
0°-90°	5622.4	76.4
0°-180°	7360.5	100.0



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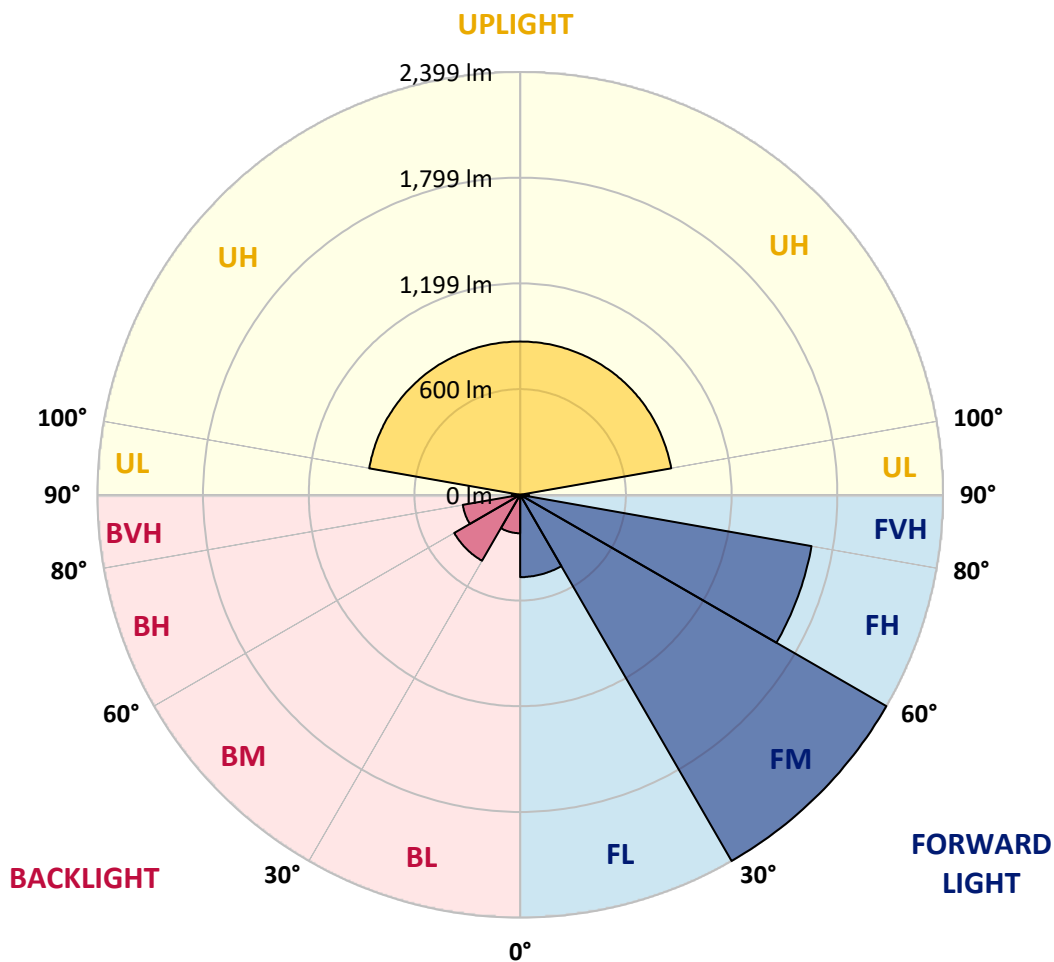
CATALOG NUMBER: ISW-AF-1200-LED-E1-T2-8030-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	466.9	6.3			
FM	(30°-60°)	2398.5	32.6			
FH	(60°-80°)	1678.1	22.8			G1/1800
FVH	(80°-90°)	50.1	0.7			G1/100
BL	(0°-30°)	218.3	3.0	B1/500		
BM	(30°-60°)	432.1	5.9	B1/1000		
BH	(60°-80°)	330.5	4.5	B1/500		G1/500
BVH	(80°-90°)	48.0	0.7			G1/100
UL	(90°-100°)	12.1	0.2		U2/50	
UH	(100°-180°)	869.5	11.8		U4/1000	

BUG Rating: B1-U5-G1

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	782.2	782.2	782.2	782.2	782.2	782.2	782.2	782.2	782.2	782.2	782.2
2.5°	837.7	837.7	835.3	833.6	831.2	824.6	814.8	813.2	812.4	810.8	809.1
5°	898.9	892.4	894.0	890.0	881.0	869.5	851.6	842.6	837.7	836.9	833.6
7.5°	948.7	949.6	947.1	938.9	926.7	912.8	888.3	874.4	870.4	867.9	862.2
10°	984.7	982.2	980.6	978.9	969.2	957.7	926.7	909.5	906.3	899.8	893.2
12.5°	1010.8	1010.8	1010.8	1009.2	1003.4	994.5	970.0	952.8	948.7	939.8	934.0
15°	1039.4	1036.1	1032.8	1030.4	1031.2	1031.2	1013.2	1000.2	993.6	988.7	977.3
17.5°	1100.6	1093.3	1085.9	1076.1	1060.6	1056.5	1055.7	1054.9	1045.9	1045.1	1033.7
20°	1152.9	1146.3	1139.8	1130.0	1108.0	1084.3	1096.5	1108.0	1106.3	1107.1	1101.4
22.5°	1217.4	1212.5	1199.4	1188.0	1159.4	1130.8	1132.4	1156.9	1160.2	1163.5	1165.1
25°	1305.5	1303.1	1281.9	1259.8	1227.2	1200.2	1174.9	1205.1	1211.6	1219.0	1233.7
27.5°	1394.5	1388.8	1366.0	1346.4	1305.5	1277.0	1241.9	1258.2	1268.0	1281.9	1304.7
30°	1509.7	1494.1	1486.0	1441.9	1404.3	1362.7	1332.5	1337.4	1335.7	1352.1	1387.2
32.5°	1676.2	1651.7	1610.9	1566.8	1522.7	1467.2	1441.9	1441.1	1437.0	1455.8	1475.4
35°	1766.0	1760.3	1735.0	1690.9	1642.7	1590.5	1574.2	1558.6	1561.1	1570.9	1578.2
37.5°	1863.2	1858.3	1838.7	1814.2	1777.5	1806.0	1715.4	1692.5	1681.9	1677.0	1679.5
40°	1905.6	1909.7	1920.3	1924.4	1903.2	2040.4	1861.6	1786.4	1783.2	1775.8	1768.5
42.5°	1914.6	1925.2	1946.5	1993.0	2013.4	2312.2	1982.4	1891.8	1878.7	1873.0	1873.8
45°	1947.3	1963.6	1967.7	2010.2	2106.5	2326.1	2118.7	1984.8	1975.0	1974.2	1969.3
47.5°	2026.5	2048.5	2048.5	2067.3	2158.8	2353.1	2165.3	2077.9	2071.4	2068.1	2081.2
50°	2037.9	2067.3	2126.1	2186.5	2252.6	2375.1	2218.4	2179.2	2181.6	2189.0	2227.3
52.5°	1844.4	1873.8	2028.9	2206.9	2422.5	2435.5	2298.4	2313.9	2330.2	2366.1	2436.4
55°	1581.5	1602.7	1786.4	2071.4	2429.0	2665.0	2499.2	2542.5	2576.8	2587.4	2697.6
57.5°	1245.1	1274.5	1461.5	1831.3	2268.2	2730.3	2961.3	2980.9	2942.6	2977.7	3017.7
60°	674.4	671.1	931.6	1324.3	1930.1	2609.4	3407.1	3743.5	3751.7	3805.6	3741.1
62.5°	377.2	377.2	452.3	680.1	1241.9	2207.7	3621.1	4403.2	4505.3	4591.0	4779.6
65°	284.9	287.4	314.3	409.9	697.3	1393.7	3464.3	4628.6	4824.5	5021.3	5352.0
67.5°	236.8	236.8	256.4	305.4	436.0	632.8	2550.7	4176.3	4421.2	4656.3	5113.6
69°	219.6	220.4	235.1	268.6	365.0	411.5	1761.9	3541.0	3821.1	4146.9	4685.7
70°	211.5	209.0	222.9	250.7	330.7	325.0	1290.8	3078.9	3296.1	3588.4	4208.1
72.5°	187.8	185.3	192.7	213.9	260.5	231.9	526.6	1656.6	1984.0	2311.4	2805.4
75°	167.4	164.9	170.6	180.4	202.5	177.2	264.5	694.0	840.1	1085.9	1498.2
77.5°	147.8	142.9	147.8	154.3	159.2	132.3	179.6	320.9	393.5	483.4	682.6
80°	133.9	129.0	134.7	131.5	124.9	102.1	119.2	187.0	207.4	248.2	325.0
82.5°	95.5	94.7	128.2	132.3	99.6	74.3	84.9	120.0	133.9	141.2	171.5
85°	58.8	56.3	74.3	94.7	101.2	46.5	54.7	71.0	74.3	80.8	95.5
87.5°	30.2	31.0	40.0	49.0	66.1	27.8	32.7	41.6	41.6	41.6	47.4
90°	12.3	14.0	19.2	25.1	21.9	14.3	19.2	17.8	19.6	18.2	20.2
92.5°	4.0	4.0	5.0	6.0	6.0	6.0	7.0	7.0	7.0	7.0	7.0
95°	5.0	5.0	6.0	7.0	7.0	7.0	7.0	7.5	7.6	7.7	7.9
97.5°	7.0	7.0	8.0	8.0	9.0	9.0	12.0	11.0	10.8	10.6	10.2
100°	8.0	8.0	9.0	10.0	12.0	21.0	29.0	27.5	27.2	26.9	26.3
102.5°	11.0	11.0	13.0	18.0	27.0	40.0	50.0	48.5	48.2	47.9	47.3
105°	21.0	22.0	27.0	36.0	48.0	63.0	72.0	71.0	70.8	70.6	70.2
107.5°	41.0	42.0	49.0	58.0	73.0	88.0	95.0	94.5	94.4	94.3	94.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
110°	66.0	68.0	74.0	87.0	102.0	114.0	120.0	120.5	120.6	120.7	120.9
112.5°	99.0	99.0	106.0	121.0	134.0	143.0	148.0	149.0	149.2	149.4	149.8
115°	140.0	139.0	147.0	159.0	168.0	174.0	179.0	180.5	180.8	181.1	181.7
117.5°	184.0	184.0	189.0	197.0	202.0	205.0	211.0	213.0	213.4	213.8	214.6
120°	225.0	223.0	226.0	233.0	237.0	243.0	246.0	248.0	248.4	248.8	249.6
122.5°	263.0	260.0	261.0	267.0	271.0	277.0	279.0	281.0	281.4	281.8	282.6
125°	298.0	294.0	296.0	299.0	305.0	310.0	313.0	314.0	314.2	314.4	314.8
127.5°	330.0	329.0	329.0	333.0	339.0	340.0	345.0	345.5	345.6	345.7	345.9
130°	363.0	361.0	362.0	366.0	370.0	372.0	377.0	379.0	379.4	379.8	380.6
132.5°	396.0	394.0	393.0	401.0	404.0	405.0	411.0	413.5	414.0	414.5	415.5
135°	429.0	426.0	426.0	432.0	435.0	437.0	443.0	445.5	446.0	446.5	447.5
137.5°	460.0	457.0	459.0	460.0	464.0	468.0	473.0	474.0	474.2	474.4	474.8
140°	488.0	485.0	487.0	489.0	491.0	497.0	500.0	501.0	501.2	501.4	501.8
142.5°	518.0	515.0	517.0	518.0	521.0	525.0	527.0	530.0	530.6	531.2	532.4
145°	550.0	546.0	544.0	547.0	550.0	551.0	556.0	559.0	559.6	560.2	561.4
147.5°	575.0	572.0	571.0	574.0	574.0	575.0	580.0	582.5	583.0	583.5	584.5
150°	595.0	592.0	593.0	593.0	593.0	593.0	597.0	598.5	598.8	599.1	599.7
152.5°	611.0	608.0	608.0	609.0	610.0	610.0	611.0	612.5	612.8	613.1	613.7
155°	629.0	625.0	625.0	627.0	630.0	628.0	626.0	628.5	629.0	629.5	630.5
157.5°	646.0	643.0	643.0	644.0	646.0	645.0	644.0	646.0	646.4	646.8	647.6
160°	663.0	660.0	659.0	656.0	655.0	655.0	658.0	661.0	661.6	662.2	663.4
162.5°	673.0	669.0	669.0	665.0	661.0	663.0	667.0	669.0	669.4	669.8	670.6
165°	681.0	678.0	676.0	676.0	673.0	673.0	672.0	674.5	675.0	675.5	676.5
167.5°	690.0	687.0	684.0	686.0	688.0	685.0	678.0	681.0	681.6	682.2	683.4
170°	698.0	695.0	692.0	692.0	693.0	691.0	686.0	687.5	687.8	688.1	688.7
172.5°	699.0	697.0	695.0	693.0	690.0	690.0	689.0	690.5	690.8	691.1	691.7
175°	700.0	698.0	697.0	695.0	691.0	690.0	690.0	692.5	693.0	693.5	694.5
177.5°	707.0	705.0	700.0	699.0	697.0	695.0	694.0	696.5	697.0	697.5	698.5
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):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	782.2	782.2	782.2	782.2	782.2	782.2	782.2	782.2	782.2	782.2	782.2
2.5°	809.9	807.5	804.2	805.0	803.4	801.0	801.8	801.0	801.8	800.1	798.5
5°	833.6	832.0	827.1	826.3	824.6	823.0	820.6	818.1	817.3	815.7	812.4
7.5°	860.6	855.7	853.2	849.9	845.9	839.3	838.5	835.3	832.8	831.2	827.1
10°	888.3	882.6	879.3	875.3	871.2	867.1	863.0	857.3	851.6	849.9	845.0
12.5°	930.0	922.6	916.1	909.5	905.5	898.1	892.4	885.1	879.3	876.9	868.7
15°	975.7	965.9	959.4	954.5	947.9	941.4	934.0	927.5	918.5	911.2	903.8
17.5°	1029.6	1020.6	1015.7	1006.7	998.5	991.2	985.5	977.3	970.0	956.9	950.4
20°	1100.6	1093.3	1087.5	1077.7	1068.8	1061.4	1056.5	1039.4	1029.6	1018.1	1007.5
22.5°	1166.7	1167.6	1161.8	1155.3	1149.6	1139.8	1131.6	1119.4	1107.1	1093.3	1078.6
25°	1238.6	1245.1	1245.9	1244.3	1241.0	1229.6	1225.5	1213.3	1203.5	1180.6	1174.1
27.5°	1318.6	1326.0	1334.9	1346.4	1348.8	1336.6	1342.3	1330.0	1312.9	1303.1	1281.9
30°	1396.2	1416.6	1435.4	1448.4	1456.6	1462.3	1458.2	1454.1	1442.7	1426.4	1407.6
32.5°	1495.8	1517.0	1535.8	1564.4	1579.1	1597.0	1593.8	1595.4	1591.3	1575.0	1552.9
35°	1596.2	1615.0	1639.5	1658.3	1694.2	1713.8	1730.1	1729.3	1729.3	1719.5	1698.3
37.5°	1685.2	1695.8	1716.2	1747.3	1770.9	1802.0	1828.1	1838.7	1855.8	1856.7	1833.8
40°	1778.3	1788.9	1804.4	1827.3	1853.4	1890.1	1925.2	1959.5	1975.9	1993.0	1984.0
42.5°	1878.7	1890.1	1901.6	1916.3	1953.8	1982.4	2029.7	2076.3	2109.8	2144.9	2140.8
45°	1978.3	1991.4	2007.7	2029.7	2063.2	2109.8	2155.5	2207.7	2284.5	2326.1	2354.7
47.5°	2091.0	2112.2	2142.4	2177.5	2204.5	2252.6	2310.6	2391.4	2469.0	2540.9	2585.8
50°	2260.8	2269.0	2318.0	2352.3	2403.7	2452.7	2510.7	2581.7	2682.1	2755.6	2827.4
52.5°	2460.8	2491.9	2540.9	2580.1	2620.9	2669.9	2729.5	2793.2	2892.8	2975.2	3068.3
55°	2718.9	2762.9	2805.4	2826.6	2883.8	2927.9	2976.0	3038.9	3145.9	3235.7	3345.1
57.5°	3026.7	3070.8	3091.2	3122.2	3146.7	3195.7	3261.0	3303.4	3398.2	3491.2	3607.2
60°	3658.6	3630.9	3655.3	3607.2	3599.8	3603.9	3617.8	3650.4	3703.5	3790.1	3912.5
62.5°	4799.2	4759.2	4653.1	4614.7	4540.4	4440.0	4345.3	4332.2	4304.4	4369.8	4446.5
65°	5465.5	5610.8	5626.3	5667.1	5637.7	5559.4	5448.3	5412.4	5322.6	5259.7	5255.6
67.5°	5305.4	5523.4	5659.8	5832.1	5927.6	6020.7	6045.2	6077.0	6019.0	5990.5	5998.6
69°	4860.5	5022.1	5327.5	5445.1	5596.1	5720.2	5883.5	5912.1	5968.4	5976.6	6085.2
70°	4419.6	4657.2	4831.9	5008.2	5217.3	5353.6	5427.1	5547.9	5687.5	5756.1	5873.7
72.5°	3177.7	3255.3	3379.4	3608.0	3666.0	3807.2	3951.7	4054.6	4218.7	4334.6	4611.4
75°	1714.6	1761.1	1956.3	2086.1	2120.4	2166.9	2273.1	2298.4	2359.6	2397.2	2663.3
77.5°	783.0	854.0	879.3	950.4	910.4	930.0	955.3	949.6	966.7	1048.4	1141.4
80°	360.9	374.8	384.6	414.0	415.6	409.1	411.5	407.4	404.2	417.2	427.0
82.5°	175.5	196.8	196.8	214.7	223.7	221.3	226.2	224.5	227.8	224.5	235.1
85°	102.9	102.9	111.0	120.8	119.2	122.5	122.5	129.0	129.8	131.5	131.5
87.5°	48.2	53.1	55.5	59.6	61.2	63.7	65.3	65.3	66.1	64.5	66.1
90°	21.2	21.2	29.4	29.4	31.0	33.5	30.2	31.9	37.6	30.2	35.9
92.5°	7.0	6.9	6.8	6.7	6.6	6.5	6.4	6.3	6.2	6.1	6.0
95°	8.0	7.9	7.8	7.7	7.6	7.5	7.4	7.3	7.2	7.1	7.0
97.5°	10.0	9.9	9.8	9.7	9.6	9.5	9.4	9.3	9.2	9.1	9.0
100°	26.0	25.7	25.4	25.1	24.8	24.5	24.2	23.9	23.6	23.3	23.0
102.5°	47.0	46.5	46.0	45.5	45.0	44.5	44.0	43.5	43.0	42.5	42.0
105°	70.0	69.5	69.0	68.5	68.0	67.5	67.0	66.5	66.0	65.5	65.0
107.5°	94.0	93.6	93.2	92.8	92.4	92.0	91.6	91.2	90.8	90.4	90.0



REPORT NUMBER: P226351

CATALOG NUMBER: ISW-AF-1200-LED-E1-T2-8030-ULG

CANDELA DISTRIBUTION (continued):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
110°	121.0	120.8	120.6	120.4	120.2	120.0	119.8	119.6	119.4	119.2	119.0
112.5°	150.0	149.9	149.8	149.7	149.6	149.5	149.4	149.3	149.2	149.1	149.0
115°	182.0	181.7	181.4	181.1	180.8	180.5	180.2	179.9	179.6	179.3	179.0
117.5°	215.0	214.5	214.0	213.5	213.0	212.5	212.0	211.5	211.0	210.5	210.0
120°	250.0	249.5	249.0	248.5	248.0	247.5	247.0	246.5	246.0	245.5	245.0
122.5°	283.0	282.5	282.0	281.5	281.0	280.5	280.0	279.5	279.0	278.5	278.0
125°	315.0	314.5	314.0	313.5	313.0	312.5	312.0	311.5	311.0	310.5	310.0
127.5°	346.0	346.0	346.0	346.0	346.0	346.0	346.0	346.0	346.0	346.0	346.0
130°	381.0	381.0	381.0	381.0	381.0	381.0	381.0	381.0	381.0	381.0	381.0
132.5°	416.0	415.8	415.6	415.4	415.2	415.0	414.8	414.6	414.4	414.2	414.0
135°	448.0	447.9	447.8	447.7	447.6	447.5	447.4	447.3	447.2	447.1	447.0
137.5°	475.0	475.1	475.2	475.3	475.4	475.5	475.6	475.7	475.8	475.9	476.0
140°	502.0	502.2	502.4	502.6	502.8	503.0	503.2	503.4	503.6	503.8	504.0
142.5°	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0
145°	562.0	561.9	561.8	561.7	561.6	561.5	561.4	561.3	561.2	561.1	561.0
147.5°	585.0	585.1	585.2	585.3	585.4	585.5	585.6	585.7	585.8	585.9	586.0
150°	600.0	600.3	600.6	600.9	601.2	601.5	601.8	602.1	602.4	602.7	603.0
152.5°	614.0	614.4	614.8	615.2	615.6	616.0	616.4	616.8	617.2	617.6	618.0
155°	631.0	631.5	632.0	632.5	633.0	633.5	634.0	634.5	635.0	635.5	636.0
157.5°	648.0	648.2	648.4	648.6	648.8	649.0	649.2	649.4	649.6	649.8	650.0
160°	664.0	663.7	663.4	663.1	662.8	662.5	662.2	661.9	661.6	661.3	661.0
162.5°	671.0	670.9	670.8	670.7	670.6	670.5	670.4	670.3	670.2	670.1	670.0
165°	677.0	677.3	677.6	677.9	678.2	678.5	678.8	679.1	679.4	679.7	680.0
167.5°	684.0	684.4	684.8	685.2	685.6	686.0	686.4	686.8	687.2	687.6	688.0
170°	689.0	689.5	690.0	690.5	691.0	691.5	692.0	692.5	693.0	693.5	694.0
172.5°	692.0	692.2	692.4	692.6	692.8	693.0	693.2	693.4	693.6	693.8	694.0
175°	695.0	695.1	695.2	695.3	695.4	695.5	695.6	695.7	695.8	695.9	696.0
177.5°	699.0	699.2	699.4	699.6	699.8	700.0	700.2	700.4	700.6	700.8	701.0
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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CATALOG NUMBER: ISW-AF-1200-LED-E1-T2-8030-ULG

CANDELA DISTRIBUTION (continued):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	782.2	782.2	782.2	782.2	782.2	782.2	782.2	782.2	782.2	782.2	782.2
2.5°	796.9	798.5	797.7	794.4	793.6	793.6	792.0	791.2	789.5	788.7	790.3
5°	811.6	811.6	809.1	805.9	802.6	801.8	801.0	796.9	795.2	793.6	792.0
7.5°	825.5	823.8	820.6	814.8	811.6	810.8	807.5	803.4	799.3	796.1	794.4
10°	840.1	838.5	832.0	827.9	821.4	820.6	814.8	809.9	805.9	801.8	798.5
12.5°	861.4	859.7	852.4	842.6	837.7	834.4	827.1	821.4	815.7	810.8	805.0
15°	894.0	887.5	882.6	872.8	865.5	858.9	849.9	841.8	833.6	825.5	820.6
17.5°	939.8	930.8	917.7	912.0	902.2	891.6	879.3	873.6	863.0	853.2	843.4
20°	999.4	990.4	970.0	962.6	948.7	933.2	923.4	911.2	902.2	886.7	876.1
22.5°	1065.5	1057.3	1037.7	1018.1	1005.1	992.8	977.3	961.8	944.7	930.0	918.5
25°	1151.2	1139.0	1121.8	1102.2	1082.6	1065.5	1044.3	1022.2	1007.5	987.1	970.8
27.5°	1268.0	1246.8	1218.2	1196.9	1181.4	1155.3	1129.2	1109.6	1086.7	1059.8	1041.8
30°	1394.5	1370.9	1349.6	1325.1	1299.0	1273.7	1237.8	1209.2	1184.7	1156.1	1126.7
32.5°	1535.0	1514.6	1484.3	1452.5	1423.9	1392.1	1366.0	1335.7	1293.3	1263.1	1232.1
35°	1676.2	1652.5	1621.5	1594.6	1561.9	1529.3	1499.9	1459.9	1421.5	1378.2	1334.9
37.5°	1812.6	1792.2	1757.9	1717.0	1688.5	1653.4	1623.1	1580.7	1535.0	1486.8	1454.1
40°	1964.4	1931.8	1908.1	1860.7	1831.3	1792.2	1748.9	1716.2	1672.1	1619.9	1573.3
42.5°	2138.3	2115.5	2090.2	2051.8	2020.8	1974.2	1919.5	1877.9	1837.1	1775.0	1710.5
45°	2358.8	2344.1	2302.5	2271.4	2229.8	2180.8	2133.4	2082.8	2018.3	1946.5	1887.7
47.5°	2623.3	2611.9	2574.3	2530.2	2475.5	2409.4	2365.3	2295.9	2241.2	2151.4	2081.2
50°	2863.4	2869.1	2848.7	2780.9	2731.9	2665.8	2596.4	2536.0	2451.9	2358.8	2269.0
52.5°	3149.9	3144.2	3092.8	3055.2	2997.3	2917.3	2841.3	2763.8	2671.5	2575.2	2463.3
55°	3424.3	3441.4	3405.5	3352.4	3282.2	3170.4	3093.6	2993.2	2896.0	2789.9	2660.9
57.5°	3690.5	3745.2	3717.4	3654.5	3582.7	3501.8	3400.6	3287.9	3187.5	3048.7	2903.4
60°	4021.9	4094.6	4106.0	4065.2	3986.8	3892.9	3759.9	3671.7	3533.7	3405.5	3293.6
62.5°	4532.2	4697.2	4687.4	4707.0	4651.4	4593.5	4437.5	4342.8	4163.2	4070.9	3915.0
65°	5384.6	5506.3	5652.4	5647.5	5609.2	5470.4	5308.7	5150.3	5031.9	4849.8	4687.4
67.5°	6099.9	6200.3	6286.8	6241.9	6153.7	5997.8	5808.4	5587.9	5407.5	5206.6	4993.5
69°	6166.8	6289.3	6339.9	6284.4	6126.0	5922.7	5737.3	5532.4	5284.2	5111.9	4852.3
70°	5987.2	6108.0	6210.1	6067.2	5921.9	5723.5	5521.0	5307.9	5085.8	4900.5	4638.4
72.5°	4755.9	4892.3	4878.4	4862.9	4747.0	4548.6	4362.4	4248.1	4092.2	3868.4	3679.0
75°	2765.4	2828.3	2718.0	2834.0	2695.2	2495.1	2521.3	2392.3	2278.0	2149.0	2049.3
77.5°	1085.9	1141.4	1083.5	1064.7	1002.6	988.7	885.1	897.3	845.9	744.6	698.1
80°	411.5	418.9	409.1	388.6	384.6	360.9	354.3	331.5	320.9	287.4	275.2
82.5°	221.3	225.3	218.8	212.3	207.4	193.5	184.5	167.4	157.6	147.0	146.1
85°	127.4	124.1	120.8	117.6	110.2	102.1	95.5	89.0	81.6	75.9	70.2
87.5°	67.0	67.8	68.6	65.3	60.4	53.9	49.8	47.4	41.6	39.2	36.7
90°	30.8	24.9	27.2	31.9	30.0	25.8	24.7	22.1	19.4	19.2	16.8
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°	8.9	8.8	8.7	8.6	8.5	8.4	8.3	8.2	8.1	8.0	8.0
100°	22.6	22.2	21.8	21.4	21.0	20.6	20.2	19.8	19.4	19.0	19.0
102.5°	41.7	41.4	41.1	40.8	40.5	40.2	39.9	39.6	39.3	39.0	38.8
105°	64.6	64.2	63.8	63.4	63.0	62.6	62.2	61.8	61.4	61.0	61.0
107.5°	89.7	89.4	89.1	88.8	88.5	88.2	87.9	87.6	87.3	87.0	86.8



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REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°	
110°	118.7	118.4	118.1	117.8	117.5	117.2	116.9	116.6	116.3	116.0	116.2	0°
112.5°	148.8	148.6	148.4	148.2	148.0	147.8	147.6	147.4	147.2	147.0	147.0	2.5°
115°	178.8	178.6	178.4	178.2	178.0	177.8	177.6	177.4	177.2	177.0	177.2	5°
117.5°	209.8	209.6	209.4	209.2	209.0	208.8	208.6	208.4	208.2	208.0	208.2	7.5°
120°	244.8	244.6	244.4	244.2	244.0	243.8	243.6	243.4	243.2	243.0	243.0	10°
122.5°	277.8	277.6	277.4	277.2	277.0	276.8	276.6	276.4	276.2	276.0	276.2	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°	345.9	345.8	345.7	345.6	345.5	345.4	345.3	345.2	345.1	345.0	345.4	17.5°
130°	380.8	380.6	380.4	380.2	380.0	379.8	379.6	379.4	379.2	379.0	379.2	20°
132.5°	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.2	22.5°
135°	447.3	447.6	447.9	448.2	448.5	448.8	449.1	449.4	449.7	450.0	450.2	25°
137.5°	476.5	477.0	477.5	478.0	478.5	479.0	479.5	480.0	480.5	481.0	481.2	27.5°
140°	504.5	505.0	505.5	506.0	506.5	507.0	507.5	508.0	508.5	509.0	509.4	30°
142.5°	533.1	533.2	533.3	533.4	533.5	533.6	533.7	533.8	533.9	534.0	534.4	32.5°
145°	560.7	560.4	560.1	559.8	559.5	559.2	558.9	558.6	558.3	558.0	558.4	35°
147.5°	585.7	585.4	585.1	584.8	584.5	584.2	583.9	583.6	583.3	583.0	583.4	37.5°
150°	603.3	603.6	603.9	604.2	604.5	604.8	605.1	605.4	605.7	606.0	606.8	40°
152.5°	618.5	619.0	619.5	620.0	620.5	621.0	621.5	622.0	622.5	623.0	624.0	42.5°
155°	636.2	636.4	636.6	636.8	637.0	637.2	637.4	637.6	637.8	638.0	638.6	45°
157.5°	650.0	650.0	650.0	650.0	650.0	650.0	650.0	650.0	650.0	650.0	651.0	47.5°
160°	660.9	660.8	660.7	660.6	660.5	660.4	660.3	660.2	660.1	660.0	661.2	50°
162.5°	669.8	669.6	669.4	669.2	669.0	668.8	668.6	668.4	668.2	668.0	669.2	52.5°
165°	679.8	679.6	679.4	679.2	679.0	678.8	678.6	678.4	678.2	678.0	678.8	55°
167.5°	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	689.2	57.5°
170°	694.2	694.4	694.6	694.8	695.0	695.2	695.4	695.6	695.8	696.0	697.0	60°
172.5°	694.2	694.4	694.6	694.8	695.0	695.2	695.4	695.6	695.8	696.0	697.0	62.5°
175°	695.8	695.6	695.4	695.2	695.0	694.8	694.6	694.4	694.2	694.0	695.0	65°
177.5°	700.7	700.4	700.1	699.8	699.5	699.2	698.9	698.6	698.3	698.0	698.8	67.5°
180°	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	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°

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REPORT NUMBER: P
 CATALOG NUMBER:

DISTRIBUTION (continued):

CANDELA DISTRIBUTION

87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	155°	110°	87°
782.2	782.2	782.2	782.2	782.2	782.2	782.2	782.2	782.2	782.2	782.2	110°	116.4
787.9	787.9	785.4	783.8	778.1	768.3	758.5	749.5	737.3	732.4	725.8	112.5°	147.0
790.3	788.7	786.3	783.0	771.6	748.7	725.0	699.7	673.6	649.9	622.2	115°	177.4
792.0	788.7	785.4	781.4	765.0	729.9	682.6	632.8	586.2	551.1	536.4	117.5°	208.4
792.8	790.3	786.3	780.5	757.7	705.4	629.5	557.7	516.8	502.9	500.5	120°	243.0
801.8	797.7	791.2	784.6	754.4	678.5	569.9	501.3	485.0	491.5	502.9	122.5°	276.4
813.2	808.3	800.1	793.6	752.8	643.4	511.9	469.5	475.2	493.1	511.9	125°	310.0
833.6	825.5	816.5	809.9	756.1	600.1	465.4	453.1	470.3	493.1	518.5	127.5°	345.8
863.8	852.4	841.8	830.4	761.0	546.2	437.6	442.5	462.9	487.4	515.2	130°	379.4
901.4	888.3	873.6	856.5	766.7	499.7	422.1	431.1	449.9	471.1	494.0	132.5°	414.4
952.0	934.0	915.3	894.0	774.8	449.1	408.2	418.0	429.5	441.7	453.1	135°	450.4
1015.7	991.2	970.8	942.2	783.0	414.8	396.8	400.1	402.5	404.2	403.3	137.5°	481.4
1100.6	1063.0	1039.4	1004.3	792.0	396.8	383.7	379.7	375.6	369.9	363.3	140°	509.8
1190.4	1159.4	1121.8	1076.9	797.7	384.6	371.5	358.4	347.0	341.3	341.3	142.5°	534.8
1294.9	1256.6	1209.2	1152.9	790.3	371.5	355.2	338.0	331.5	338.8	336.4	145°	558.8
1399.4	1346.4	1294.1	1229.6	772.4	356.8	337.2	328.2	333.1	323.3	317.6	147.5°	583.8
1514.6	1455.8	1383.1	1308.0	746.3	341.3	328.2	333.1	316.0	304.5	309.4	150°	607.6
1643.6	1574.2	1495.8	1393.7	729.1	331.5	314.3	318.4	303.7	295.6	293.1	152.5°	625.0
1819.1	1720.3	1624.8	1504.8	742.2	316.0	287.4	303.7	295.6	288.2	281.7	155°	639.2
1991.4	1886.1	1773.4	1632.1	765.0	304.5	266.2	288.2	293.9	281.7	269.4	157.5°	652.0
2164.5	2052.6	1921.2	1763.6	792.8	297.2	249.8	269.4	289.8	275.2	265.4	160°	662.4
2346.5	2205.3	2070.6	1900.7	828.7	289.8	236.8	253.1	282.5	275.2	260.5	162.5°	670.4
2537.6	2371.0	2236.3	2052.6	891.6	279.2	220.4	240.0	275.2	274.3	255.6	165°	679.6
2759.7	2611.1	2438.0	2251.0	978.9	267.0	205.8	230.2	268.6	271.1	249.8	167.5°	690.4
3137.7	2984.2	2775.2	2597.2	1152.0	250.7	196.8	220.4	258.0	264.5	244.9	170°	698.0
3750.9	3541.9	3350.0	3183.4	1448.4	227.8	190.2	209.8	246.6	256.4	240.9	172.5°	698.0
4453.9	4249.7	4017.9	3737.8	1613.3	206.6	181.3	196.8	235.1	248.2	236.8	175°	696.0
4752.7	4485.7	4204.0	3871.7	1455.8	189.4	171.5	184.5	222.1	236.8	231.1	177.5°	699.6
4615.5	4345.3	4017.9	3692.1	1266.3	180.4	165.7	178.0	212.3	229.4	225.3	180°	700.0
4377.1	4105.2	3812.9	3421.8	1130.8	175.5	161.7	173.9	208.2	225.3	222.1		
3461.8	3219.3	2949.9	2651.9	770.7	159.2	148.6	161.7	191.9	210.6	209.8		
1834.6	1763.6	1564.4	1389.6	399.3	142.1	134.7	147.8	177.2	196.8	196.8		
660.5	599.3	573.2	476.0	212.3	124.1	120.8	130.6	160.8	179.6	178.8		
249.8	243.3	218.0	204.1	134.7	101.2	102.1	111.9	141.2	159.2	158.4		
141.2	128.2	124.1	120.0	85.7	80.0	84.1	93.9	120.8	136.4	138.8		
67.8	62.9	61.2	57.2	56.3	61.2	66.1	74.3	96.3	115.1	112.7		
32.7	31.0	30.2	29.4	40.0	39.2	48.2	51.4	64.5	91.4	82.5		
17.6	17.6	16.8	15.2	18.4	22.1	24.5	29.0	33.9	61.1	51.3		
6.0	6.0	6.0	6.0	6.0	6.0	7.0	7.0	6.0	6.0	6.0		
7.0	7.0	7.0	7.0	7.0	7.0	8.0	7.0	7.0	7.0	7.0		
8.0	8.0	8.0	8.0	8.0	9.0	10.0	12.0	9.0	9.0	8.0		
19.0	19.0	19.0	19.0	19.0	23.0	26.0	29.0	21.0	12.0	10.0		
38.6	38.4	38.2	38.0	39.0	42.0	47.0	50.0	40.0	27.0	18.0		
61.0	61.0	61.0	61.0	61.0	65.0	70.0	72.0	63.0	48.0	36.0		
86.6	86.4	86.2	86.0	87.0	90.0	94.0	95.0	88.0	73.0	58.0		

'226351
 ISW-AF-1200-LED-E1-T2-8030-ULG

REPORT NUMBER: P226351
 CATALOG NUMBER: ISW-AF-1:

TION (continued):

CANDELA DISTRIBUTION (con

88°	89°	90°	95°	105°	115°	125°	135°	145°	155°		165°	175°
116.6	116.8	117.0	116.0	119.0	121.0	120.0	114.0	102.0	87.0	0°	782.2	782.2
147.0	147.0	147.0	147.0	149.0	150.0	148.0	143.0	134.0	121.0	2.5°	720.1	708.7
177.6	177.8	178.0	177.0	179.0	182.0	179.0	174.0	168.0	159.0	5°	601.7	600.1
208.6	208.8	209.0	208.0	210.0	215.0	211.0	205.0	202.0	197.0	7.5°	527.4	516.8
243.0	243.0	243.0	243.0	245.0	250.0	246.0	243.0	237.0	233.0	10°	502.9	502.1
276.6	276.8	277.0	276.0	278.0	283.0	279.0	277.0	271.0	267.0	12.5°	513.6	516.0
310.0	310.0	310.0	310.0	310.0	315.0	313.0	310.0	305.0	299.0	15°	527.4	532.3
346.2	346.6	347.0	345.0	346.0	346.0	345.0	340.0	339.0	333.0	17.5°	536.4	545.4
379.6	379.8	380.0	379.0	381.0	381.0	377.0	372.0	370.0	366.0	20°	534.0	544.6
414.6	414.8	415.0	414.0	414.0	416.0	411.0	405.0	404.0	401.0	22.5°	507.0	511.9
450.6	450.8	451.0	450.0	447.0	448.0	443.0	437.0	435.0	432.0	25°	458.9	460.5
481.6	481.8	482.0	481.0	476.0	475.0	473.0	468.0	464.0	460.0	27.5°	400.9	399.3
510.2	510.6	511.0	509.0	504.0	502.0	500.0	497.0	491.0	489.0	30°	360.1	349.5
535.2	535.6	536.0	534.0	533.0	533.0	527.0	525.0	521.0	518.0	32.5°	341.3	334.8
559.2	559.6	560.0	558.0	561.0	562.0	556.0	551.0	550.0	547.0	35°	328.2	317.6
584.2	584.6	585.0	583.0	586.0	585.0	580.0	575.0	574.0	574.0	37.5°	340.5	339.7
608.4	609.2	610.0	606.0	603.0	600.0	597.0	593.0	593.0	593.0	40°	351.9	350.3
626.0	627.0	628.0	623.0	618.0	614.0	611.0	610.0	610.0	609.0	42.5°	332.3	317.6
639.8	640.4	641.0	638.0	636.0	631.0	626.0	628.0	630.0	627.0	45°	296.4	279.2
653.0	654.0	655.0	650.0	650.0	648.0	644.0	645.0	646.0	644.0	47.5°	271.9	262.1
663.6	664.8	666.0	660.0	661.0	664.0	658.0	655.0	655.0	656.0	50°	260.5	257.2
671.6	672.8	674.0	668.0	670.0	671.0	667.0	663.0	661.0	665.0	52.5°	257.2	265.4
680.4	681.2	682.0	678.0	680.0	677.0	672.0	673.0	673.0	676.0	55°	255.6	264.5
691.6	692.8	694.0	688.0	688.0	684.0	678.0	685.0	688.0	686.0	57.5°	244.1	259.6
699.0	700.0	701.0	696.0	694.0	689.0	686.0	691.0	693.0	692.0	60°	236.0	254.7
699.0	700.0	701.0	696.0	694.0	692.0	689.0	690.0	690.0	693.0	62.5°	231.1	252.3
697.0	698.0	699.0	694.0	696.0	695.0	690.0	690.0	691.0	695.0	65°	227.0	253.9
700.4	701.2	702.0	698.0	701.0	699.0	694.0	695.0	697.0	699.0	67.5°	220.4	258.8
700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	69°	217.2	258.0
										70°	213.9	255.6
										72.5°	202.5	236.0
										75°	188.6	208.2
										77.5°	170.6	178.8
										80°	151.0	155.9
										82.5°	131.5	150.2
										85°	102.9	127.4
										87.5°	75.9	70.2
										90°	50.3	36.8
										92.5°	5.0	4.0
										95°	6.0	5.0
										97.5°	8.0	7.0
										100°	9.0	8.0
										102.5°	13.0	11.0
										105°	27.0	22.0
										107.5°	49.0	42.0



REPORT NUMBER: P226351

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

200-LED-E1-T2-8030-ULG

tinued):

180°
782.2
711.1
595.2
517.6
504.6
514.4
534.0
548.7
547.0
516.0
462.1
405.8
357.6
342.1
322.5
343.7
353.5
320.9
279.2
260.5
255.6
267.8
263.7
260.5
255.6
251.5
250.7
252.3
249.0
244.9
220.4
198.4
178.8
157.6
133.1
99.6
75.9
31.9
4.0
5.0
7.0
8.0
11.0
21.0
41.0

CANDELA DISTRIBUTION (continued):

	165°	175°	180°
110°	74.0	68.0	66.0
112.5°	106.0	99.0	99.0
115°	147.0	139.0	140.0
117.5°	189.0	184.0	184.0
120°	226.0	223.0	225.0
122.5°	261.0	260.0	263.0
125°	296.0	294.0	298.0
127.5°	329.0	329.0	330.0
130°	362.0	361.0	363.0
132.5°	393.0	394.0	396.0
135°	426.0	426.0	429.0
137.5°	459.0	457.0	460.0
140°	487.0	485.0	488.0
142.5°	517.0	515.0	518.0
145°	544.0	546.0	550.0
147.5°	571.0	572.0	575.0
150°	593.0	592.0	595.0
152.5°	608.0	608.0	611.0
155°	625.0	625.0	629.0
157.5°	643.0	643.0	646.0
160°	659.0	660.0	663.0
162.5°	669.0	669.0	673.0
165°	676.0	678.0	681.0
167.5°	684.0	687.0	690.0
170°	692.0	695.0	698.0
172.5°	695.0	697.0	699.0
175°	697.0	698.0	700.0
177.5°	700.0	705.0	707.0
180°	700.0	700.0	700.0

(END OF F

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

Scaled Data Report

