

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: P226901

Luminaire Tested: **ISW-AF-1200-LED-E1-SL3-8030-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P226901
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-1200-LED-E1-SL3-8030-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, 80 CRI LEDs and (1) UPLIGHT LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7061.2 lumens
Efficiency: N/A
Efficacy: 85.4 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 - G2

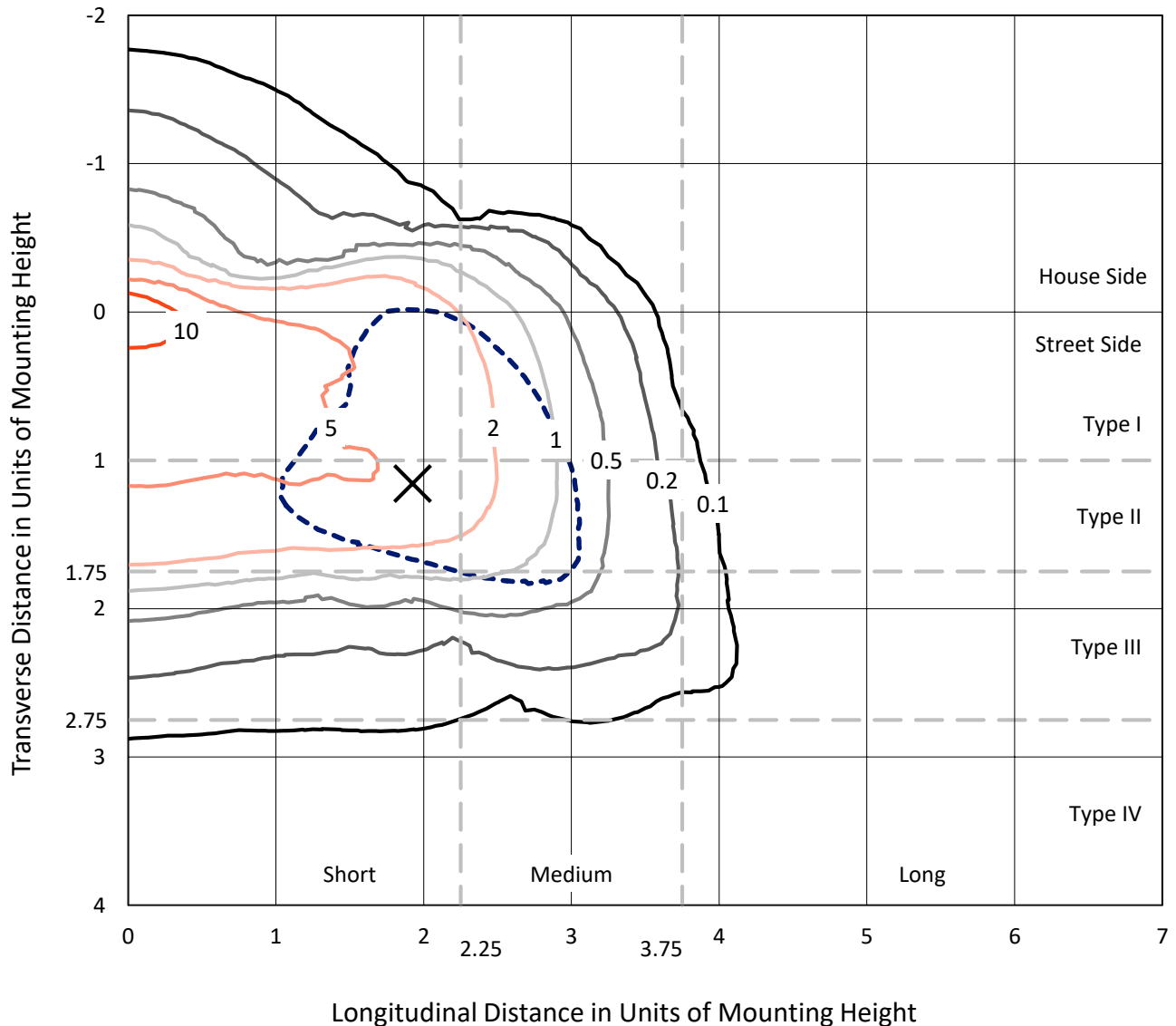
Input Watts (W): 82.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

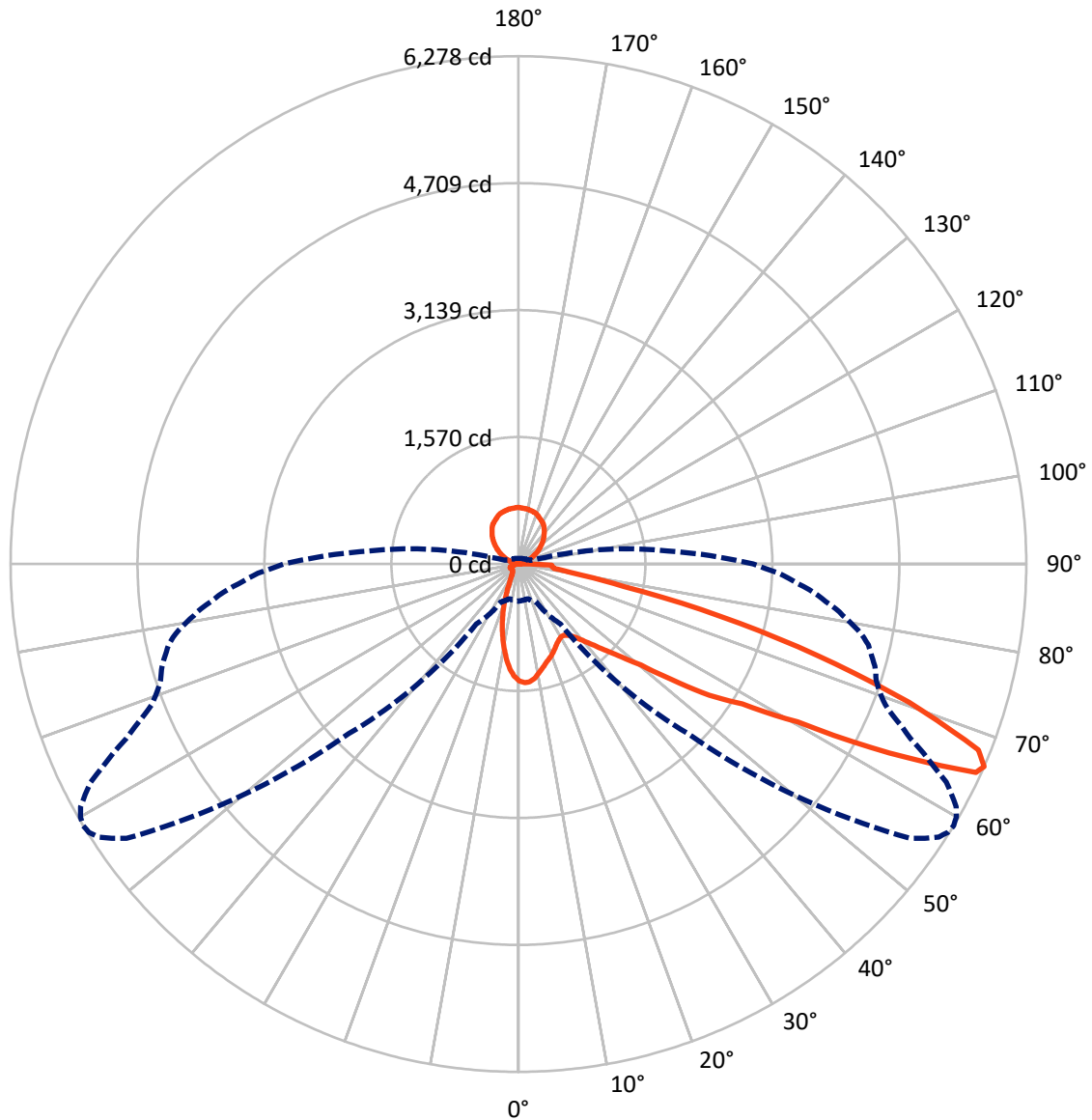


Based on 10 foot mounting height. Maximum calculated value = 14.5 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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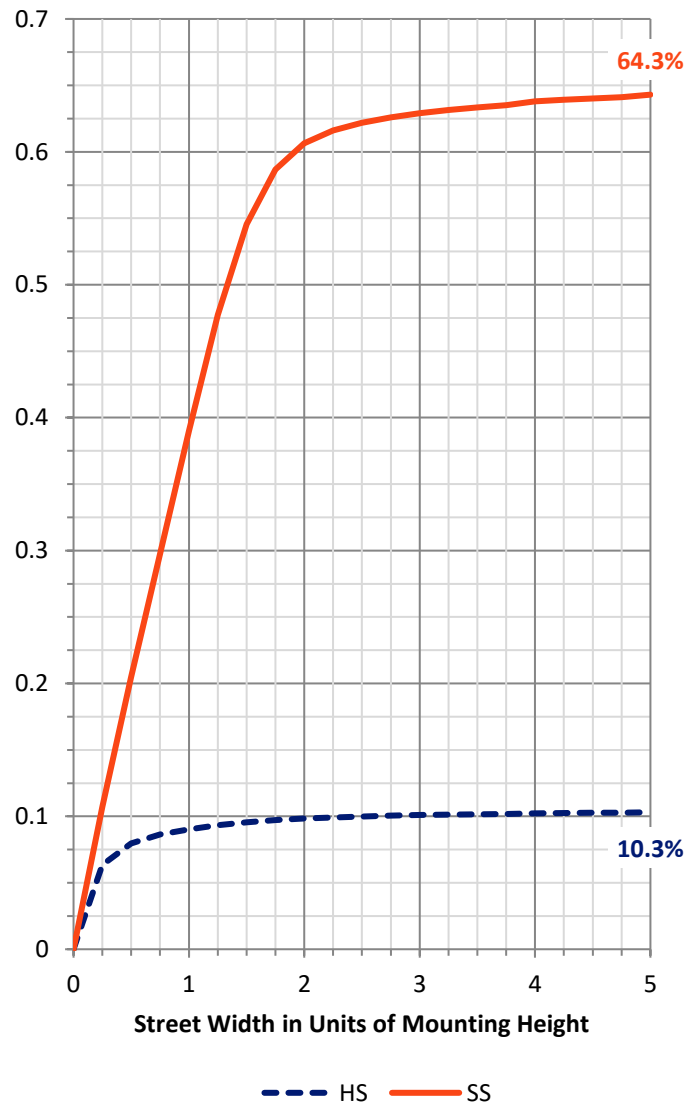
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	739.3	867.9	1607.2
	% Fixture	10.5	12.3	22.8
Street Side	Lumens	4584.5	869.5	5454.0
	% Fixture	64.9	12.3	77.2
Total	Lumens	5323.8	1737.4	7061.2
	% Fixture	75.4	24.6	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.3	1.7
10°-20°	260.5	3.7
20°-30°	326.8	4.6
30°-40°	447.1	6.3
40°-50°	719.2	10.2
50°-60°	1249.7	17.7
60°-70°	1518.4	21.5
70°-80°	566.4	8.0
80°-90°	112.4	1.6
90°-100°	11.5	0.2
100°-110°	57.4	0.8
110°-120°	166.1	2.4
120°-130°	273.2	3.9
130°-140°	336.8	4.8
140°-150°	344.6	4.9
150°-160°	290.3	4.1
160°-170°	191.2	2.7
170°-180°	66.3	0.9
0°-90°	5323.8	75.4
0°-180°	7061.2	100.0



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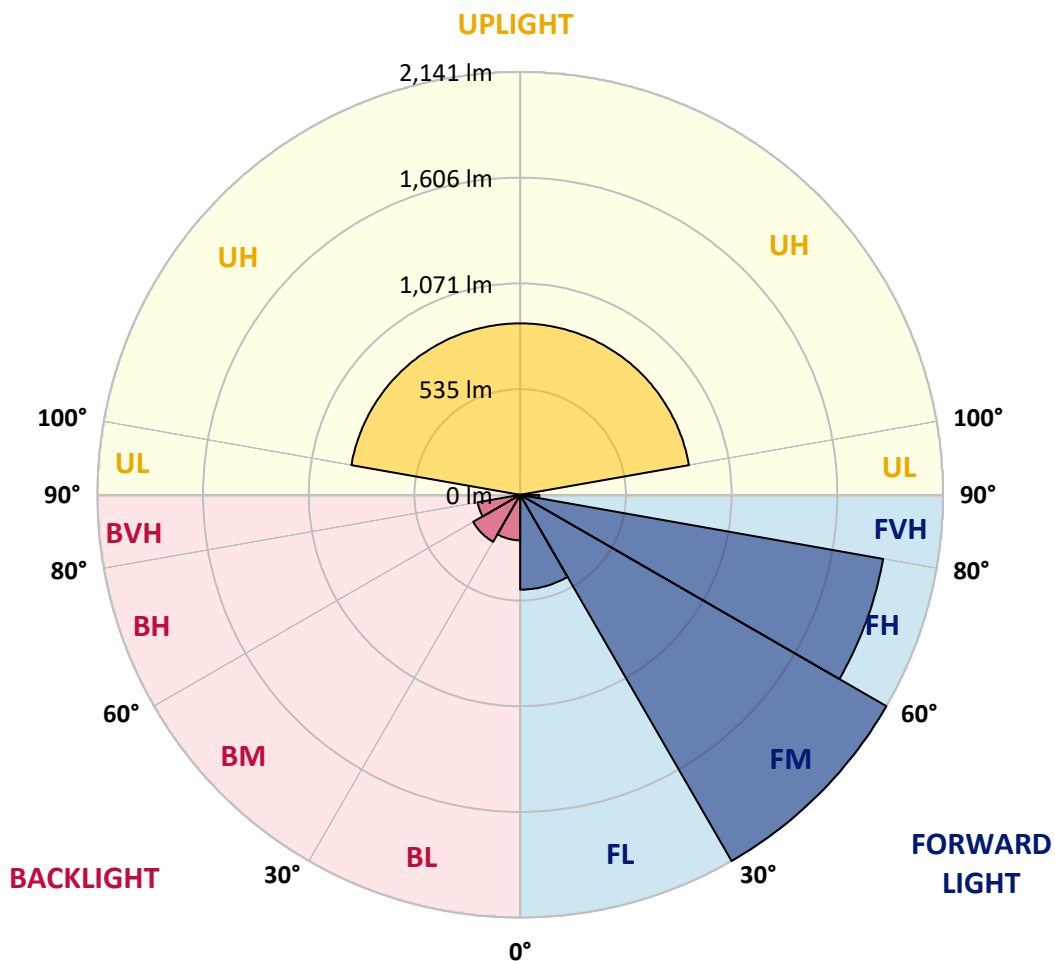
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	480.2	6.8			
FM	(30°-60°)	2141.3	30.3			
FH	(60°-80°)	1866.4	26.4			G2/5000
FVH	(80°-90°)	96.6	1.4			G1/100
BL	(0°-30°)	230.4	3.3	B1/500		
BM	(30°-60°)	274.7	3.9	B1/1000		
BH	(60°-80°)	218.5	3.1	B1/500		G1/500
BVH	(80°-90°)	15.8	0.2			G1/100
UL	(90°-100°)	11.5	0.2		U2/50	
UH	(100°-180°)	867.9	12.3		U4/1000	

BUG Rating: B1-U5-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	1446.7	1446.7	1446.7	1446.7	1446.7	1446.7	1446.7	1446.7	1446.7	1446.7	1446.7
2.5°	1484.2	1479.3	1488.3	1485.0	1487.5	1475.2	1472.8	1470.3	1472.0	1469.5	1469.5
5°	1449.1	1446.7	1457.3	1463.0	1467.9	1466.3	1465.4	1465.4	1466.3	1460.5	1461.4
7.5°	1346.2	1344.6	1359.3	1369.9	1393.6	1407.5	1425.4	1426.2	1427.9	1425.4	1430.3
10°	1236.8	1241.7	1254.8	1271.9	1307.1	1328.3	1362.6	1369.1	1371.5	1372.4	1373.2
12.5°	1132.3	1127.4	1143.8	1176.4	1223.8	1258.1	1301.3	1304.6	1308.7	1314.4	1320.1
15°	1039.3	1045.0	1058.1	1092.3	1142.1	1190.3	1246.6	1249.9	1258.1	1263.0	1271.1
17.5°	975.6	975.6	990.3	1022.1	1068.7	1129.9	1200.9	1206.6	1213.2	1219.7	1228.7
20°	943.8	943.8	949.5	968.2	1009.1	1067.8	1153.6	1160.1	1171.5	1178.9	1191.1
22.5°	941.3	940.5	939.7	943.8	968.2	1014.0	1103.0	1111.9	1121.7	1133.2	1143.8
25°	967.4	969.9	960.1	953.6	956.0	977.2	1054.8	1059.7	1078.5	1085.8	1098.9
27.5°	1005.0	1009.1	1000.9	991.1	976.4	962.5	1014.0	1022.1	1034.4	1046.6	1063.0
30°	1058.9	1058.1	1057.2	1050.7	1022.1	978.9	1001.7	1007.4	1018.0	1027.8	1041.7
32.5°	1116.8	1123.4	1128.3	1125.0	1095.6	1022.1	1018.9	1023.8	1033.6	1039.3	1048.3
35°	1191.9	1195.2	1214.0	1214.0	1184.6	1099.7	1067.0	1071.1	1076.0	1078.5	1085.0
37.5°	1274.4	1285.8	1313.6	1329.9	1284.2	1196.0	1143.0	1143.0	1145.4	1147.0	1151.1
40°	1369.9	1386.2	1424.6	1455.6	1426.2	1316.0	1242.6	1249.9	1247.5	1244.2	1253.2
42.5°	1480.9	1498.9	1545.4	1574.8	1557.7	1460.5	1376.4	1371.5	1378.9	1369.1	1372.4
45°	1609.9	1623.8	1671.2	1702.2	1716.1	1637.7	1552.0	1542.2	1542.2	1521.0	1529.9
47.5°	1725.9	1729.9	1775.7	1830.4	1875.3	1876.9	1756.1	1749.5	1734.0	1720.2	1716.9
50°	1833.6	1845.9	1875.3	1934.9	2028.8	2110.4	2036.9	2016.5	1999.4	1947.9	1963.4
52.5°	2020.6	2044.3	2063.0	2099.0	2210.0	2375.7	2466.3	2434.5	2430.4	2383.9	2373.3
55°	2055.7	2058.1	2120.2	2327.6	2588.8	2708.0	2881.9	2881.1	2894.1	2879.4	2865.6
57.5°	1890.8	1871.2	1974.9	2248.4	2773.3	3385.6	3332.5	3338.3	3321.1	3276.2	3262.3
60°	1472.8	1489.1	1601.0	1949.6	2640.2	3823.2	4173.4	4069.7	4144.0	4027.3	3964.4
62.5°	828.6	809.9	885.8	1252.4	2165.9	3846.1	5318.8	5330.3	5366.2	5300.9	5147.4
65°	534.7	526.6	519.2	633.5	1298.1	3364.4	5952.4	6092.8	6176.9	6211.2	6213.6
66°	459.6	453.1	444.1	518.4	904.6	2964.3	5911.5	6061.8	6195.6	6259.3	6278.1
67.5°	391.1	381.3	379.6	429.4	629.4	2299.8	5522.1	5758.1	5876.4	6041.3	6131.2
70°	298.8	293.9	308.6	370.6	483.3	1082.5	4400.4	4708.2	4912.3	5041.3	5124.5
72.5°	250.6	249.0	269.4	338.8	458.0	613.9	3080.3	3410.9	3624.0	3747.3	3861.6
75°	195.9	197.6	224.5	323.3	455.6	534.7	1789.5	2104.7	2228.8	2423.1	2571.7
77.5°	147.0	145.3	166.5	261.2	444.1	542.1	929.9	1060.5	1196.8	1295.6	1331.5
80°	102.9	104.5	119.2	179.6	346.2	557.6	579.6	609.8	638.4	670.3	676.8
82.5°	68.6	69.4	88.2	123.3	240.0	532.3	541.3	527.4	505.4	477.6	447.4
85°	41.6	43.3	62.9	83.3	186.1	481.7	560.0	523.3	489.8	453.1	416.4
87.5°	21.2	23.7	37.6	49.0	110.2	237.6	582.9	556.0	510.2	453.9	413.1
90°	10.7	10.7	15.2	20.2	30.0	55.2	154.0	139.5	73.5	133.3	69.8
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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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°	1446.7	1446.7	1446.7	1446.7	1446.7	1446.7	1446.7	1446.7	1446.7	1446.7	1446.7
2.5°	1468.7	1470.3	1468.7	1466.3	1468.7	1466.3	1465.4	1464.6	1465.4	1463.8	1463.0
5°	1461.4	1463.0	1463.0	1458.1	1457.3	1460.5	1455.6	1457.3	1455.6	1454.0	1450.7
7.5°	1426.2	1427.1	1427.9	1424.6	1427.1	1427.1	1425.4	1425.4	1423.8	1424.6	1421.3
10°	1377.3	1380.5	1383.8	1382.2	1381.3	1388.7	1385.4	1387.9	1387.9	1385.4	1386.2
12.5°	1324.2	1329.9	1334.0	1334.0	1337.3	1345.4	1344.6	1346.2	1352.8	1352.8	1350.3
15°	1275.2	1280.9	1287.5	1292.4	1298.9	1304.6	1308.7	1315.2	1318.5	1318.5	1322.6
17.5°	1236.8	1245.0	1252.4	1254.8	1263.8	1273.6	1276.0	1284.2	1289.1	1291.5	1296.4
20°	1199.3	1208.3	1217.3	1225.4	1233.6	1245.0	1250.7	1255.6	1263.8	1268.7	1276.0
22.5°	1155.2	1169.1	1180.5	1190.3	1204.2	1214.0	1225.4	1233.6	1243.4	1250.7	1256.4
25°	1113.6	1132.3	1147.9	1157.7	1176.4	1190.3	1204.2	1216.4	1228.7	1239.3	1247.5
27.5°	1075.2	1096.4	1115.2	1130.7	1151.1	1173.2	1187.0	1207.5	1223.8	1238.5	1248.3
30°	1056.4	1074.4	1094.0	1111.9	1132.3	1160.1	1183.0	1209.1	1229.5	1248.3	1263.0
32.5°	1060.5	1076.8	1094.0	1109.5	1130.7	1161.7	1185.4	1215.6	1245.8	1270.3	1289.1
35°	1093.2	1107.9	1119.3	1133.2	1151.9	1175.6	1200.9	1232.8	1270.3	1303.0	1327.5
37.5°	1161.7	1165.8	1177.2	1187.9	1197.7	1219.7	1243.4	1270.3	1313.6	1347.9	1382.2
40°	1246.6	1257.3	1267.9	1272.8	1284.2	1298.1	1308.7	1337.3	1375.6	1420.5	1458.1
42.5°	1373.2	1377.3	1378.9	1380.5	1384.6	1394.4	1409.9	1436.0	1473.6	1513.6	1555.2
45°	1515.2	1520.1	1525.0	1527.5	1521.8	1527.5	1543.8	1556.1	1592.8	1630.3	1683.4
47.5°	1712.0	1697.3	1689.9	1699.7	1694.8	1707.1	1714.4	1721.8	1765.9	1810.8	1855.7
50°	1964.3	1955.3	1943.8	1944.7	1953.6	1945.5	1950.4	1977.3	1992.0	2029.6	2089.2
52.5°	2367.6	2339.8	2296.5	2277.8	2288.4	2281.8	2284.3	2290.0	2280.2	2315.3	2365.9
55°	2865.6	2829.6	2801.1	2784.7	2724.3	2719.4	2679.4	2664.7	2632.9	2666.4	2654.9
57.5°	3220.7	3197.8	3183.1	3134.2	3106.4	3050.9	3034.6	3015.0	2970.9	2992.9	3012.5
60°	3906.5	3824.8	3797.1	3711.3	3682.8	3629.7	3561.9	3528.5	3505.6	3526.8	3513.8
62.5°	5051.1	4937.6	4915.5	4712.3	4662.5	4540.0	4412.6	4395.5	4323.6	4278.7	4268.1
65°	6168.7	6006.2	5884.6	5662.5	5512.3	5337.6	5143.3	5001.3	4855.1	4781.6	4684.5
66°	6252.0	6187.5	6065.0	5935.2	5716.4	5525.4	5305.0	5151.5	4987.4	4858.4	4775.1
67.5°	6109.9	6075.6	6032.4	5944.2	5807.0	5629.1	5420.1	5224.1	5026.6	4874.7	4741.6
70°	5164.5	5202.1	5251.1	5228.2	5149.8	5080.4	4895.9	4786.5	4638.0	4438.8	4357.1
72.5°	3898.3	3998.7	3964.4	3835.4	3775.0	3726.9	3659.9	3586.4	3373.4	3348.9	3252.5
75°	2508.0	2474.5	2496.5	2339.8	2232.8	2188.8	2029.6	1964.3	1804.2	1700.6	1621.4
77.5°	1321.7	1256.4	1205.8	1067.8	969.1	911.1	833.5	742.1	601.7	593.5	465.3
80°	613.1	563.3	517.6	469.4	421.3	357.6	310.2	253.1	223.7	191.9	178.8
82.5°	416.4	384.5	356.8	324.9	288.2	244.1	210.6	178.8	152.7	137.2	124.9
85°	377.2	342.9	311.9	271.9	233.5	196.8	160.8	133.1	108.6	94.7	86.5
87.5°	366.6	324.1	291.5	248.2	210.6	173.1	138.8	107.8	84.1	68.6	58.8
90°	54.5	58.0	44.3	42.9	23.5	27.8	22.9	17.2	18.0	15.5	16.3
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



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CATALOG NUMBER: ISW-AF-1200-LED-E1-SL3-8030-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



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CATALOG NUMBER: ISW-AF-1200-LED-E1-SL3-8030-ULG

CANDELA DISTRIBUTION (continued):

	71°	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°
0°	1446.7	1446.7	1446.7	1446.7	1446.7	1446.7	1446.7	1446.7	1446.7	1446.7	1446.7
2.5°	1461.4	1458.9	1461.4	1460.5	1457.3	1458.1	1458.9	1455.6	1454.0	1454.0	1453.2
5°	1448.3	1446.7	1448.3	1447.5	1442.6	1441.8	1441.8	1439.3	1436.0	1433.6	1432.0
7.5°	1417.3	1418.9	1418.1	1415.6	1413.2	1413.2	1410.7	1405.0	1401.8	1398.5	1395.2
10°	1382.2	1382.2	1383.0	1382.2	1378.1	1376.4	1373.2	1369.9	1370.7	1362.6	1356.0
12.5°	1351.1	1351.1	1350.3	1348.7	1346.2	1345.4	1345.4	1335.6	1333.2	1330.7	1323.4
15°	1321.7	1323.4	1323.4	1323.4	1319.3	1319.3	1315.2	1308.7	1308.7	1301.3	1294.0
17.5°	1298.9	1301.3	1300.5	1301.3	1302.2	1297.3	1289.9	1285.8	1280.9	1276.8	1267.1
20°	1279.3	1280.9	1281.7	1281.7	1279.3	1276.0	1269.5	1263.0	1259.7	1251.5	1239.3
22.5°	1261.3	1264.6	1265.4	1265.4	1262.2	1259.7	1253.2	1243.4	1236.8	1227.0	1215.6
25°	1254.0	1258.1	1255.6	1257.3	1254.0	1248.3	1239.3	1231.1	1221.3	1209.1	1196.8
27.5°	1256.4	1262.2	1260.5	1259.7	1255.6	1251.5	1240.1	1230.3	1218.9	1204.2	1188.7
30°	1271.1	1280.9	1276.8	1273.6	1272.8	1263.0	1252.4	1238.5	1225.4	1208.3	1190.3
32.5°	1298.9	1303.8	1304.6	1302.2	1298.1	1289.9	1275.2	1257.3	1242.6	1222.1	1200.9
35°	1344.6	1349.5	1347.9	1347.9	1343.8	1330.7	1312.8	1294.8	1274.4	1251.5	1229.5
37.5°	1408.3	1417.3	1415.6	1412.4	1407.5	1392.0	1378.1	1356.0	1333.2	1303.0	1277.7
40°	1488.3	1502.2	1514.4	1512.0	1500.5	1486.7	1473.6	1448.3	1425.4	1392.0	1364.2
42.5°	1596.1	1614.8	1630.3	1641.8	1636.9	1618.9	1596.1	1585.4	1552.8	1518.5	1489.9
45°	1734.0	1773.2	1787.1	1801.0	1801.0	1789.5	1784.6	1763.4	1729.1	1683.4	1656.5
47.5°	1916.1	1968.3	1983.8	2007.5	2021.4	2009.2	2000.2	1964.3	1941.4	1878.5	1872.0
50°	2137.3	2189.6	2232.0	2259.8	2255.7	2266.3	2245.1	2224.7	2192.8	2141.4	2123.5
52.5°	2419.8	2461.4	2499.8	2516.1	2533.3	2530.8	2525.9	2512.1	2472.1	2444.3	2398.6
55°	2709.6	2743.9	2790.5	2817.4	2839.4	2835.4	2816.6	2783.1	2790.5	2732.5	2707.2
57.5°	3039.5	3077.0	3127.6	3152.9	3162.7	3212.5	3200.3	3196.2	3182.3	3161.9	3135.8
60°	3606.8	3617.5	3659.1	3722.8	3801.2	3785.6	3805.2	3818.3	3828.1	3782.4	3779.1
62.5°	4282.8	4295.9	4331.8	4344.9	4356.3	4357.9	4331.8	4331.8	4286.9	4228.1	4182.4
65°	4651.8	4624.9	4600.4	4586.5	4556.3	4529.4	4490.2	4437.1	4361.2	4270.6	4188.9
66°	4704.9	4650.2	4618.4	4583.3	4535.1	4485.3	4438.8	4366.1	4277.1	4169.3	4061.6
67.5°	4653.5	4578.4	4504.1	4452.6	4385.7	4295.9	4214.2	4129.3	4045.3	3897.5	3797.1
70°	4184.0	4094.2	4012.6	3899.9	3793.8	3705.6	3565.2	3417.4	3295.8	3140.7	3041.9
72.5°	3107.2	3001.1	2894.9	2736.6	2582.3	2559.4	2383.1	2209.2	2116.1	1991.2	1890.8
75°	1534.8	1400.9	1210.7	1125.8	1002.5	942.1	908.7	782.9	752.7	629.4	627.8
77.5°	433.5	372.3	330.6	288.2	270.2	257.2	212.3	203.3	184.5	181.2	170.6
80°	164.1	155.1	151.0	147.0	142.9	140.4	138.8	132.3	129.0	124.1	121.6
82.5°	118.4	115.1	107.8	105.3	102.0	97.2	96.3	92.3	89.8	84.9	83.3
85°	80.0	75.9	71.8	67.8	66.1	65.3	62.9	61.2	59.6	57.1	56.3
87.5°	53.9	49.8	44.9	43.3	42.5	43.3	44.1	42.5	41.6	40.0	39.2
90°	15.5	18.0	17.2	17.2	18.8	17.0	16.8	17.4	16.4	16.2	15.1
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: P226901
 CATALOG NUMBER: ISW-AF-1200-LED-E1-SL3-8030-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°

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REPORT NUMBER: P
 CATALOG NUMBER:

DISTRIBUTION (continued):

CANDELA DISTRIBUTION

82°	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	110°	116.9
1446.7	1446.7	1446.7	1446.7	1446.7	1446.7	1446.7	1446.7	1446.7	1446.7	1446.7	110°	116.9
1451.6	1449.1	1449.9	1446.7	1445.8	1447.5	1448.3	1448.3	1445.8	1431.1	1414.0	112.5°	147.6
1430.3	1425.4	1424.6	1422.2	1418.1	1423.0	1420.5	1416.5	1411.6	1394.4	1360.9	115°	177.6
1391.1	1387.9	1383.8	1380.5	1378.1	1376.4	1375.6	1371.5	1362.6	1330.7	1274.4	117.5°	208.6
1353.6	1349.5	1344.6	1337.3	1334.0	1329.1	1329.1	1319.3	1312.8	1272.8	1189.5	120°	243.6
1316.9	1309.5	1307.1	1302.2	1293.2	1289.1	1283.4	1273.6	1263.8	1215.6	1106.2	122.5°	276.6
1289.1	1281.7	1271.1	1267.9	1258.1	1249.1	1241.7	1228.7	1218.1	1154.4	1018.9	125°	310.0
1258.9	1253.2	1241.7	1234.4	1223.8	1213.2	1200.9	1184.6	1177.2	1096.4	935.6	127.5°	345.3
1234.4	1221.3	1208.3	1201.7	1188.7	1176.4	1164.2	1144.6	1129.9	1039.3	847.4	130°	379.6
1205.8	1194.4	1180.5	1169.1	1151.1	1137.2	1123.4	1103.0	1085.0	981.3	758.4	132.5°	414.0
1186.2	1169.9	1155.2	1142.1	1121.7	1105.4	1085.8	1063.8	1045.8	925.8	660.5	135°	449.1
1174.8	1158.5	1139.7	1123.4	1099.7	1080.9	1059.7	1035.2	1012.3	880.9	568.2	137.5°	479.5
1171.5	1151.9	1132.3	1111.9	1087.4	1063.8	1038.5	1014.0	984.6	837.6	467.8	140°	507.5
1181.3	1157.7	1135.6	1111.1	1082.5	1055.6	1030.3	998.5	969.1	800.1	369.0	142.5°	533.7
1208.3	1179.7	1154.4	1127.4	1094.8	1065.4	1035.2	999.3	966.6	773.9	282.5	145°	558.9
1250.7	1223.8	1194.4	1167.4	1129.9	1097.2	1063.8	1025.4	986.2	763.3	213.1	147.5°	583.9
1336.4	1300.5	1270.3	1241.7	1198.5	1165.0	1126.6	1080.1	1036.0	773.1	178.0	150°	605.1
1456.5	1411.6	1383.8	1358.5	1304.6	1267.9	1223.8	1170.7	1120.9	800.9	156.7	152.5°	621.5
1622.2	1587.9	1538.1	1498.9	1444.2	1403.4	1354.4	1290.7	1235.2	840.1	146.1	155°	637.4
1829.5	1784.6	1735.7	1695.7	1636.1	1565.0	1513.6	1436.9	1374.0	901.3	141.2	157.5°	650.0
2083.4	2029.6	1963.4	1930.0	1847.5	1792.0	1723.4	1641.0	1561.0	996.0	143.7	160°	660.3
2359.4	2301.4	2250.0	2186.3	2111.2	2049.2	1983.8	1896.5	1796.1	1175.6	153.5	162.5°	668.6
2650.8	2613.3	2564.3	2481.9	2441.0	2362.7	2279.4	2183.0	2110.4	1409.1	177.2	165°	678.6
3075.4	3034.6	3028.8	2948.0	2886.0	2814.9	2749.6	2669.6	2583.9	1823.8	232.7	167.5°	688.0
3728.5	3686.0	3637.9	3575.0	3501.5	3413.4	3332.5	3224.8	3129.3	2239.4	258.8	170°	695.4
4115.5	4037.1	3950.6	3855.0	3748.1	3638.7	3530.1	3392.1	3253.3	2264.7	233.5	172.5°	695.4
4082.8	3985.7	3875.4	3745.6	3633.0	3498.3	3381.5	3203.5	3077.0	2016.5	190.2	175°	694.6
3962.0	3828.9	3725.2	3606.0	3464.8	3344.0	3220.7	3045.2	2900.7	1849.1	173.9	177.5°	698.9
3652.6	3539.1	3395.4	3281.1	3176.6	3032.1	2916.2	2752.1	2652.5	1603.4	155.9	180°	700.0
2919.4	2762.7	2641.0	2552.1	2433.7	2303.1	2200.2	2062.2	1974.1	1061.3	134.7		
1700.6	1661.4	1525.0	1448.3	1376.4	1270.3	1188.7	1122.5	1006.6	514.3	119.2		
524.1	487.4	482.5	409.8	433.5	370.6	360.8	328.2	328.2	197.6	93.9		
167.4	164.1	157.6	148.6	145.3	145.3	141.2	140.4	133.9	106.1	70.2		
118.4	115.9	113.5	111.0	109.4	110.2	106.9	105.3	103.7	76.7	55.5		
81.6	79.2	74.3	74.3	72.7	71.8	72.7	69.4	68.6	53.9	46.5		
55.5	54.7	53.9	53.1	52.2	51.4	50.6	48.2	46.5	37.6	32.7		
36.7	31.0	30.2	26.1	25.3	24.5	22.9	24.5	26.9	26.9	21.2		
15.8	14.7	15.4	15.2	13.5	14.3	14.3	12.7	12.7	15.2	16.3		
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		

'226901
 ISW-AF-1200-LED-E1-SL3-8030-ULG

REPORT NUMBER: P226901
 CATALOG NUMBER: ISW-AF-1:

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°	1446.7	1446.7
147.4	147.2	147.0	147.0	147.0	147.0	147.0	147.0	147.0	149.0	2.5°	1399.3	1386.2
177.4	177.2	177.0	177.2	177.4	177.6	177.8	178.0	177.0	179.0	5°	1325.0	1295.6
208.4	208.2	208.0	208.2	208.4	208.6	208.8	209.0	208.0	210.0	7.5°	1224.6	1167.4
243.4	243.2	243.0	243.0	243.0	243.0	243.0	243.0	243.0	245.0	10°	1109.5	1027.0
276.4	276.2	276.0	276.2	276.4	276.6	276.8	277.0	276.0	278.0	12.5°	990.3	885.0
310.0	310.0	310.0	310.0	310.0	310.0	310.0	310.0	310.0	310.0	15°	879.3	739.7
345.2	345.1	345.0	345.4	345.8	346.2	346.6	347.0	345.0	346.0	17.5°	762.5	590.3
379.4	379.2	379.0	379.2	379.4	379.6	379.8	380.0	379.0	381.0	20°	650.7	445.8
414.0	414.0	414.0	414.2	414.4	414.6	414.8	415.0	414.0	414.0	22.5°	524.1	312.7
449.4	449.7	450.0	450.2	450.4	450.6	450.8	451.0	450.0	447.0	25°	384.5	227.0
480.0	480.5	481.0	481.2	481.4	481.6	481.8	482.0	481.0	476.0	27.5°	274.3	181.2
508.0	508.5	509.0	509.4	509.8	510.2	510.6	511.0	509.0	504.0	30°	204.9	152.7
533.8	533.9	534.0	534.4	534.8	535.2	535.6	536.0	534.0	533.0	32.5°	164.1	132.3
558.6	558.3	558.0	558.4	558.8	559.2	559.6	560.0	558.0	561.0	35°	139.6	120.0
583.6	583.3	583.0	583.4	583.8	584.2	584.6	585.0	583.0	586.0	37.5°	124.9	111.8
605.4	605.7	606.0	606.8	607.6	608.4	609.2	610.0	606.0	603.0	40°	116.7	107.8
622.0	622.5	623.0	624.0	625.0	626.0	627.0	628.0	623.0	618.0	42.5°	111.8	103.7
637.6	637.8	638.0	638.6	639.2	639.8	640.4	641.0	638.0	636.0	45°	109.4	101.2
650.0	650.0	650.0	651.0	652.0	653.0	654.0	655.0	650.0	650.0	47.5°	107.8	98.0
660.2	660.1	660.0	661.2	662.4	663.6	664.8	666.0	660.0	661.0	50°	106.1	98.0
668.4	668.2	668.0	669.2	670.4	671.6	672.8	674.0	668.0	670.0	52.5°	106.9	99.6
678.4	678.2	678.0	678.8	679.6	680.4	681.2	682.0	678.0	680.0	55°	111.0	99.6
688.0	688.0	688.0	689.2	690.4	691.6	692.8	694.0	688.0	688.0	57.5°	117.6	99.6
695.6	695.8	696.0	697.0	698.0	699.0	700.0	701.0	696.0	694.0	60°	122.5	101.2
695.6	695.8	696.0	697.0	698.0	699.0	700.0	701.0	696.0	694.0	62.5°	124.1	104.5
694.4	694.2	694.0	695.0	696.0	697.0	698.0	699.0	694.0	696.0	65°	122.5	106.1
698.6	698.3	698.0	698.8	699.6	700.4	701.2	702.0	698.0	701.0	66°	120.8	106.1
700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	67.5°	118.4	104.5
										70°	112.7	98.0
										72.5°	101.2	88.2
										75°	86.5	71.0
										77.5°	70.2	57.1
										80°	52.2	43.3
										82.5°	38.4	33.5
										85°	26.9	23.7
										87.5°	16.3	14.7
										90°	13.1	11.1
										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



REPORT NUMBER: P226901

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

200-LED-E1-SL3-8030-ULG

tinued):

135°	145°	155°	165°	175°	180°
1446.7	1446.7	1446.7	1446.7	1446.7	1446.7
1377.3	1376.4	1356.0	1352.0	1338.1	1345.4
1260.5	1246.6	1209.9	1202.6	1187.0	1183.0
1120.9	1082.5	1053.2	1020.5	989.5	1005.0
957.6	893.1	828.6	786.2	769.0	763.3
802.5	686.6	605.8	522.5	493.1	503.7
614.7	482.5	374.7	326.6	298.8	293.9
433.5	309.4	259.6	247.4	241.7	241.7
293.9	235.9	217.2	211.4	211.4	212.3
223.7	198.4	190.2	191.0	194.3	195.1
185.3	175.5	171.4	177.2	183.7	184.5
160.0	157.6	158.4	165.7	172.3	173.1
140.4	142.9	146.1	152.7	158.4	160.0
126.5	130.6	133.1	137.2	140.4	141.2
116.7	121.6	120.8	123.3	125.7	126.5
111.0	113.5	111.0	112.7	112.7	114.3
106.1	106.9	102.9	103.7	105.3	105.3
101.2	100.4	96.3	98.0	100.4	101.2
96.3	94.7	91.4	94.7	98.8	99.6
92.3	90.6	89.0	93.1	98.0	98.8
90.6	89.0	87.4	93.1	98.0	98.8
90.6	89.0	87.4	91.4	96.3	97.2
91.4	89.8	86.5	90.6	93.9	94.7
92.3	90.6	84.9	87.4	89.0	89.8
92.3	89.0	83.3	84.1	84.1	84.9
90.6	86.5	80.0	80.0	79.2	79.2
90.6	83.3	76.7	75.1	73.5	73.5
89.8	82.5	75.9	73.5	71.0	71.0
88.2	80.8	74.3	71.0	68.6	68.6
82.5	77.6	70.2	66.9	64.5	63.7
73.5	71.0	65.3	62.9	60.4	59.6
62.0	62.9	59.6	58.0	55.5	54.7
52.2	53.9	52.2	51.4	49.8	49.0
41.6	44.9	43.3	43.3	44.1	42.5
31.8	35.9	34.3	35.9	37.6	35.1
22.0	26.1	26.1	26.9	27.8	26.1
13.9	17.1	16.3	17.1	17.1	16.3
10.3	13.7	11.3	11.9	9.1	8.3
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)