

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: P227141

Luminaire Tested: **ISW-AF-800-LED-E1-SLL-8030-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P227141
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35948)-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-SLL-8030-ULG
Description: IMPACT ELITE LED WEDGE LUMINAIRE WITH UPLIGHT
LIGHT SQUARE WITH ACCULED OPTICS-90° SPILL LIGHT ELIMINATOR LEFT, 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: 5341 lumens
Efficiency: N/A
Efficacy: 88.7 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 0.54')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U5 - G2

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

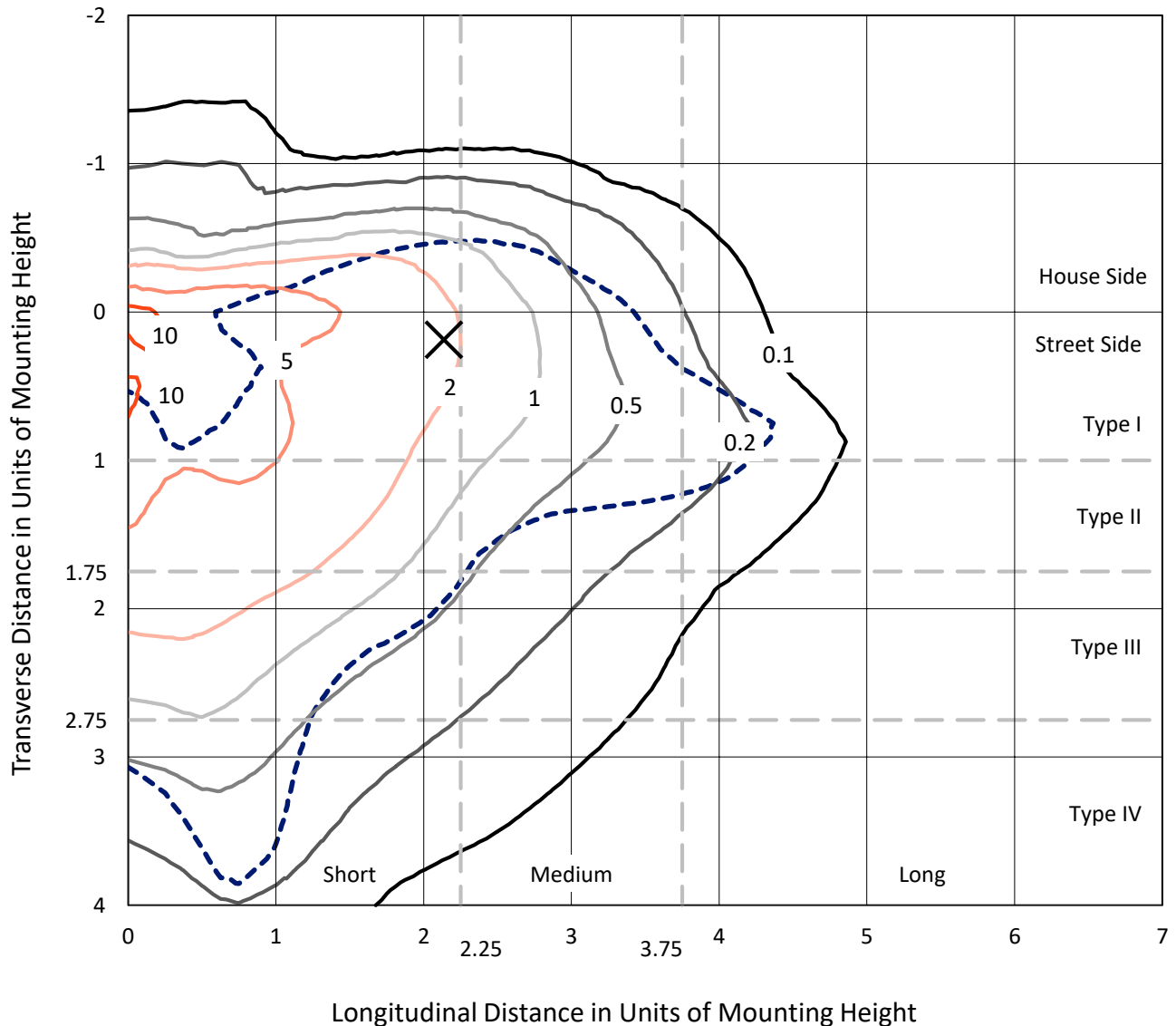


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Iso-Footcandle Lines of Horizontal Illumination

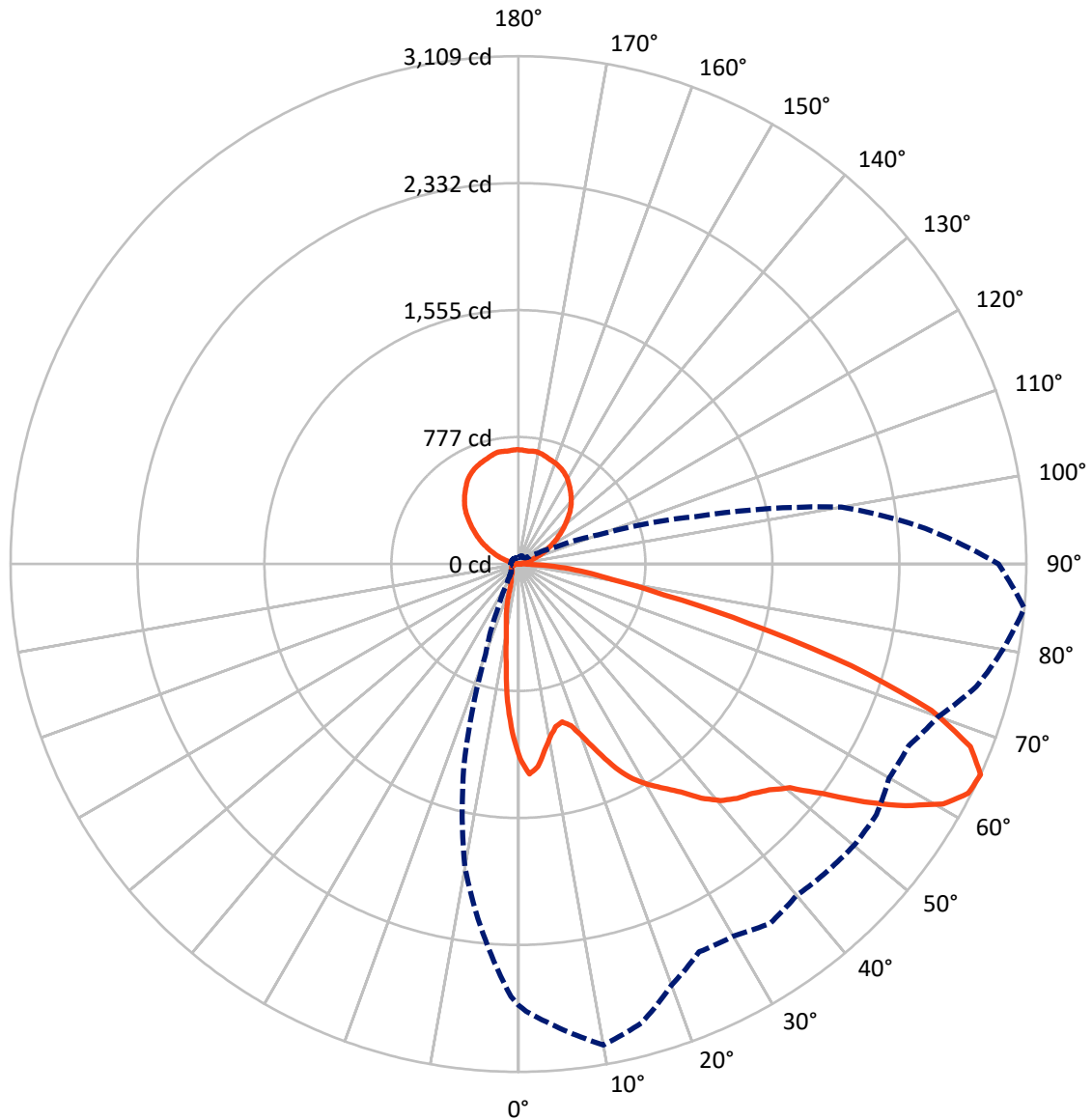
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 85-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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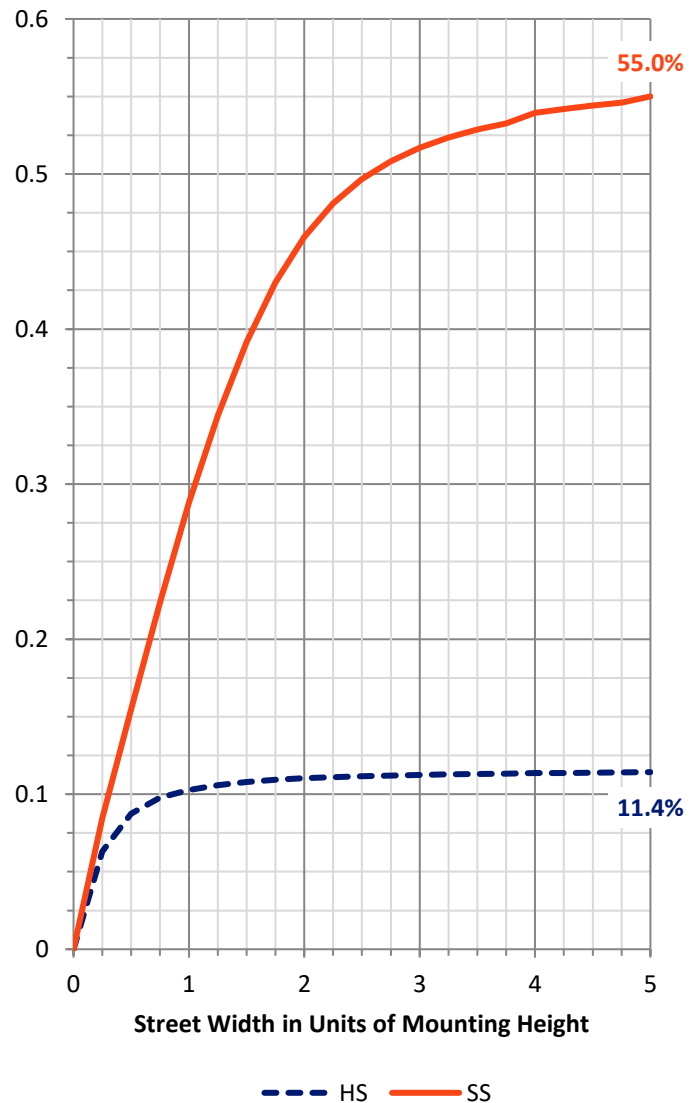
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	618.8	867.6	1486.4
	% Fixture	11.6	16.2	27.8
Street Side	Lumens	2986.9	867.7	3854.6
	% Fixture	55.9	16.2	72.2
Total	Lumens	3605.7	1735.3	5341.0
	% Fixture	67.5	32.5	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.2	1.7
10°-20°	169.8	3.2
20°-30°	242.1	4.5
30°-40°	351.2	6.6
40°-50°	502.4	9.4
50°-60°	771.3	14.4
60°-70°	892.8	16.7
70°-80°	455.5	8.5
80°-90°	132.5	2.5
90°-100°	9.4	0.2
100°-110°	57.4	1.1
110°-120°	166.1	3.1
120°-130°	273.2	5.1
130°-140°	336.8	6.3
140°-150°	344.6	6.5
150°-160°	290.3	5.4
160°-170°	191.2	3.6
170°-180°	66.3	1.2
0°-90°	3605.7	67.5
0°-180°	5341.0	100.0

Coefficient of Utilization



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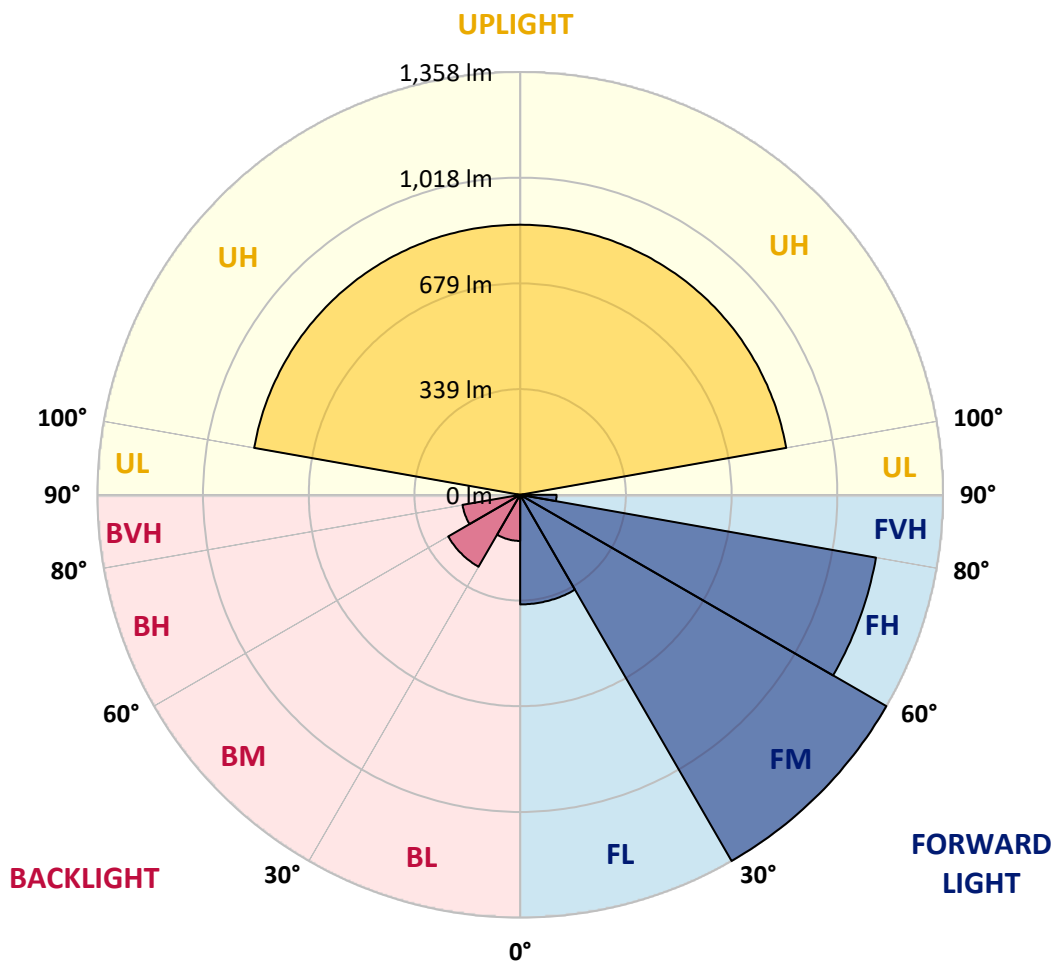
CATALOG NUMBER: ISW-AF-800-LED-E1-SLL-8030-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	352.1	6.6			
FM	(30°-60°)	1357.9	25.4			
FH	(60°-80°)	1160.2	21.7			G1/1800
FVH	(80°-90°)	116.7	2.2			G2/225
BL	(0°-30°)	148.0	2.8	B1/500		
BM	(30°-60°)	267.0	5.0	B1/1000		
BH	(60°-80°)	188.1	3.5	B1/500		G1/500
BVH	(80°-90°)	15.8	0.3			G1/100
UL	(90°-100°)	9.4	0.2		U1/10	
UH	(100°-180°)	867.6	16.2		U4/1000	

BUG Rating: B1-U5-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	10°	15°	20°	25°	30°	35°	40°	45°
0°	1190.9	1190.9	1190.9	1190.9	1190.9	1190.9	1190.9	1190.9	1190.9	1190.9	1190.9
2.5°	1232.8	1234.0	1251.0	1267.3	1288.0	1284.9	1301.9	1314.7	1326.2	1328.0	1336.5
5°	1157.5	1169.7	1207.9	1240.6	1281.9	1314.0	1348.6	1375.9	1395.9	1414.8	1417.2
7.5°	1052.0	1061.1	1105.4	1156.9	1216.4	1258.8	1311.0	1356.5	1388.7	1419.0	1425.7
10°	961.6	970.1	1019.2	1085.9	1138.1	1193.3	1247.3	1284.3	1326.2	1352.3	1365.0
12.5°	917.9	928.2	974.9	1035.6	1089.0	1142.4	1183.0	1215.2	1238.8	1243.7	1247.3
15°	934.9	940.3	991.9	1045.9	1088.4	1115.1	1126.0	1145.4	1143.6	1153.3	1155.1
17.5°	1003.4	1001.0	1055.6	1093.2	1113.8	1110.8	1093.8	1083.5	1065.3	1059.9	1075.6
20°	1121.1	1129.6	1164.8	1187.9	1166.6	1117.5	1070.8	1038.6	1013.1	1004.6	1002.8
22.5°	1258.8	1269.8	1308.0	1295.8	1241.9	1152.1	1067.1	1015.6	984.0	974.9	971.3
25°	1403.2	1410.5	1429.9	1388.7	1312.8	1196.4	1092.6	1020.4	978.6	965.2	963.4
27.5°	1519.7	1527.0	1517.9	1470.6	1360.8	1246.1	1127.8	1042.3	987.7	974.3	968.2
30°	1615.0	1618.6	1588.3	1529.4	1420.2	1301.3	1173.9	1080.5	1016.8	986.4	982.2
32.5°	1721.7	1719.3	1660.5	1579.2	1470.6	1351.1	1226.7	1123.6	1044.7	1007.7	1001.0
35°	1838.8	1817.6	1713.8	1628.3	1505.1	1389.3	1274.6	1169.1	1089.6	1040.4	1031.9
37.5°	1943.2	1921.3	1782.4	1667.1	1539.7	1419.0	1312.2	1227.9	1158.1	1113.2	1109.6
40°	2024.5	1997.8	1834.6	1693.2	1556.7	1440.8	1356.5	1301.9	1255.8	1219.4	1219.4
42.5°	2090.0	2060.9	1885.5	1723.6	1571.9	1474.2	1430.5	1411.7	1402.0	1382.0	1389.3
45°	2153.1	2123.3	1927.4	1743.0	1605.9	1539.1	1545.2	1561.6	1590.7	1579.2	1589.5
47.5°	2213.1	2184.0	1974.7	1773.9	1671.4	1655.6	1687.2	1752.7	1809.7	1854.6	1886.1
50°	2313.8	2279.3	2059.6	1864.9	1774.5	1782.4	1873.4	2002.0	2094.8	2136.1	2133.7
52.5°	2504.9	2455.8	2242.3	2034.8	1921.9	1965.6	2073.0	2235.0	2356.3	2388.5	2401.2
55°	2738.5	2699.7	2506.2	2259.8	2177.9	2193.1	2326.6	2509.8	2603.2	2636.6	2647.5
57.5°	2875.6	2865.3	2744.0	2500.7	2421.2	2415.2	2589.3	2739.1	2819.8	2851.4	2841.6
59°	2907.8	2910.8	2841.6	2671.2	2562.0	2548.6	2725.8	2864.7	2932.0	2941.7	2936.9
60°	2904.7	2921.7	2913.2	2764.6	2651.2	2634.2	2783.4	2915.7	2972.1	2987.2	2970.3
62.5°	2842.3	2871.4	2952.1	2936.3	2853.2	2766.4	2836.8	2932.6	2969.0	2954.5	2941.7
65°	2700.3	2738.5	2850.7	2990.3	2910.2	2742.8	2619.6	2630.5	2685.7	2649.3	2666.9
67.5°	2455.2	2498.9	2558.3	2875.0	2758.5	2477.6	2265.9	2162.2	2136.1	2171.3	2227.1
70°	1997.2	2025.7	2176.1	2623.9	2422.4	2036.6	1770.9	1632.6	1586.4	1667.7	1724.8
72.5°	1408.7	1451.2	1649.5	2171.3	1992.9	1631.3	1340.1	1212.7	1166.6	1170.3	1220.0
75°	857.2	914.9	1152.7	1716.9	1570.7	1249.7	1021.0	929.4	915.5	907.6	899.1
77.5°	565.4	587.3	757.7	1184.8	1059.2	888.8	766.2	803.8	845.7	854.8	865.7
80°	383.4	390.1	491.4	831.1	697.7	656.4	619.4	708.0	787.5	802.0	794.1
82.5°	236.0	256.0	342.8	560.6	556.3	536.9	489.6	558.7	611.5	620.6	637.0
85°	81.9	85.5	210.5	495.0	565.4	571.5	403.4	318.5	357.9	351.3	252.4
87.5°	35.2	39.4	65.5	331.2	382.8	316.7	184.4	163.8	126.2	71.0	68.6
90°	7.4	7.4	6.8	9.0	16.1	13.6	13.5	9.8	8.0	7.5	7.0
92.5°	4.0	4.0	4.0	4.5	5.0	5.5	6.0	6.0	6.0	6.0	6.0
95°	5.0	5.0	5.0	5.5	6.0	6.5	7.0	7.0	7.0	7.0	7.0
97.5°	7.0	7.0	7.0	7.5	8.0	8.0	8.0	8.5	9.0	9.0	9.0
100°	8.0	8.0	8.0	8.5	9.0	9.5	10.0	11.0	12.0	16.5	21.0
102.5°	11.0	11.0	11.0	12.0	13.0	15.5	18.0	22.5	27.0	33.5	40.0
105°	21.0	21.2	22.0	24.5	27.0	31.5	36.0	42.0	48.0	55.5	63.0
107.5°	41.0	41.2	42.0	45.5	49.0	53.5	58.0	65.5	73.0	80.5	88.0



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CANDELA DISTRIBUTION (continued):

	0°	1°	5°	10°	15°	20°	25°	30°	35°	40°	45°
110°	66.0	66.4	68.0	71.0	74.0	80.5	87.0	94.5	102.0	108.0	114.0
112.5°	99.0	99.0	99.0	102.5	106.0	113.5	121.0	127.5	134.0	138.5	143.0
115°	140.0	139.8	139.0	143.0	147.0	153.0	159.0	163.5	168.0	171.0	174.0
117.5°	184.0	184.0	184.0	186.5	189.0	193.0	197.0	199.5	202.0	203.5	205.0
120°	225.0	224.6	223.0	224.5	226.0	229.5	233.0	235.0	237.0	240.0	243.0
122.5°	263.0	262.4	260.0	260.5	261.0	264.0	267.0	269.0	271.0	274.0	277.0
125°	298.0	297.2	294.0	295.0	296.0	297.5	299.0	302.0	305.0	307.5	310.0
127.5°	330.0	329.8	329.0	329.0	329.0	331.0	333.0	336.0	339.0	339.5	340.0
130°	363.0	362.6	361.0	361.5	362.0	364.0	366.0	368.0	370.0	371.0	372.0
132.5°	396.0	395.6	394.0	393.5	393.0	397.0	401.0	402.5	404.0	404.5	405.0
135°	429.0	428.4	426.0	426.0	426.0	429.0	432.0	433.5	435.0	436.0	437.0
137.5°	460.0	459.4	457.0	458.0	459.0	459.5	460.0	462.0	464.0	466.0	468.0
140°	488.0	487.4	485.0	486.0	487.0	488.0	489.0	490.0	491.0	494.0	497.0
142.5°	518.0	517.4	515.0	516.0	517.0	517.5	518.0	519.5	521.0	523.0	525.0
145°	550.0	549.2	546.0	545.0	544.0	545.5	547.0	548.5	550.0	550.5	551.0
147.5°	575.0	574.4	572.0	571.5	571.0	572.5	574.0	574.0	574.0	574.5	575.0
150°	595.0	594.4	592.0	592.5	593.0	593.0	593.0	593.0	593.0	593.0	593.0
152.5°	611.0	610.4	608.0	608.0	608.0	608.5	609.0	609.5	610.0	610.0	610.0
155°	629.0	628.2	625.0	625.0	625.0	626.0	627.0	628.5	630.0	629.0	628.0
157.5°	646.0	645.4	643.0	643.0	643.0	643.5	644.0	645.0	646.0	645.5	645.0
160°	663.0	662.4	660.0	659.5	659.0	657.5	656.0	655.5	655.0	655.0	655.0
162.5°	673.0	672.2	669.0	669.0	669.0	667.0	665.0	663.0	661.0	662.0	663.0
165°	681.0	680.4	678.0	677.0	676.0	676.0	676.0	674.5	673.0	673.0	673.0
167.5°	690.0	689.4	687.0	685.5	684.0	685.0	686.0	687.0	688.0	686.5	685.0
170°	698.0	697.4	695.0	693.5	692.0	692.0	692.0	692.5	693.0	692.0	691.0
172.5°	699.0	698.6	697.0	696.0	695.0	694.0	693.0	691.5	690.0	690.0	690.0
175°	700.0	699.6	698.0	697.5	697.0	696.0	695.0	693.0	691.0	690.5	690.0
177.5°	707.0	706.6	705.0	702.5	700.0	699.5	699.0	698.0	697.0	696.0	695.0
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):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	1190.9	1190.9	1190.9	1190.9	1190.9	1190.9	1190.9	1190.9	1190.9	1190.9	1190.9
2.5°	1334.7	1326.8	1331.6	1325.0	1314.0	1306.8	1298.3	1287.4	1274.6	1257.6	1240.6
5°	1411.7	1405.7	1390.5	1368.6	1338.3	1312.8	1282.5	1246.7	1217.0	1178.8	1143.0
7.5°	1418.4	1408.7	1380.8	1340.1	1293.4	1246.1	1210.3	1152.1	1114.5	1053.8	1013.1
10°	1357.7	1358.3	1330.4	1292.2	1243.7	1187.9	1136.3	1072.6	1017.4	955.5	887.6
12.5°	1268.5	1277.0	1278.3	1244.3	1197.0	1138.1	1080.5	1019.8	951.3	885.1	822.6
15°	1167.2	1191.5	1193.3	1184.8	1160.0	1110.2	1057.4	1002.8	933.1	860.9	790.5
17.5°	1076.8	1099.9	1121.1	1140.5	1141.8	1118.1	1085.9	1039.2	969.5	884.5	802.0
20°	1008.3	1033.2	1069.6	1105.4	1144.8	1156.9	1159.3	1129.6	1055.0	951.3	839.6
22.5°	979.8	1008.9	1045.9	1113.2	1183.0	1226.1	1250.3	1250.3	1172.1	1050.8	901.5
25°	973.7	997.4	1053.8	1137.5	1230.9	1306.2	1352.3	1383.2	1326.8	1178.8	978.0
27.5°	978.0	1010.1	1079.9	1165.4	1263.1	1359.5	1435.4	1489.4	1436.6	1266.1	1048.9
30°	994.9	1042.9	1115.1	1203.6	1304.3	1406.3	1497.9	1566.4	1527.6	1345.6	1116.3
32.5°	1024.7	1082.9	1164.8	1244.9	1345.0	1455.4	1545.8	1636.2	1607.7	1400.8	1152.1
35°	1069.0	1137.5	1212.1	1292.8	1388.7	1499.1	1595.5	1713.8	1703.5	1470.0	1187.9
37.5°	1140.5	1210.9	1279.5	1348.6	1439.6	1547.0	1667.1	1818.2	1809.7	1572.5	1245.5
40°	1266.7	1308.0	1358.9	1403.2	1488.8	1591.3	1719.9	1904.3	1934.7	1660.5	1296.5
42.5°	1423.2	1447.5	1462.1	1474.2	1517.9	1614.4	1758.1	1962.0	2011.7	1726.0	1335.9
45°	1622.8	1615.6	1586.4	1558.5	1553.7	1627.7	1775.7	2004.4	2072.4	1789.7	1375.9
47.5°	1858.8	1843.1	1763.6	1672.0	1621.0	1652.0	1806.7	2066.9	2147.0	1873.4	1425.7
50°	2131.2	2094.2	1964.4	1809.7	1715.7	1720.5	1884.9	2153.7	2245.3	1982.6	1518.5
52.5°	2383.6	2317.5	2162.8	1958.3	1823.7	1840.0	2025.7	2333.3	2446.7	2163.4	1674.4
55°	2606.3	2521.3	2354.5	2130.6	2008.7	2037.2	2250.7	2571.1	2678.5	2378.8	1832.1
57.5°	2795.5	2705.1	2540.7	2343.6	2191.9	2215.6	2451.6	2791.9	2864.1	2572.3	1983.2
59°	2881.7	2792.5	2640.8	2458.8	2316.9	2366.6	2593.5	2901.7	2932.6	2646.9	2040.8
60°	2923.5	2834.4	2700.9	2523.1	2393.3	2458.8	2668.7	2984.8	2958.1	2657.8	2062.7
62.5°	2920.5	2858.0	2770.1	2648.7	2625.1	2734.3	2913.2	3091.6	2975.7	2626.3	2076.6
65°	2680.9	2675.4	2620.8	2634.8	2733.7	2902.3	3012.1	3109.2	2939.3	2500.7	2009.3
67.5°	2236.2	2258.6	2265.9	2351.5	2582.6	2868.9	2965.4	2984.2	2781.0	2231.9	1800.0
70°	1726.6	1676.8	1758.7	1909.8	2242.9	2611.7	2748.8	2683.3	2457.0	1869.2	1470.0
72.5°	1222.4	1237.0	1354.7	1550.7	1889.8	2272.0	2486.7	2129.4	1848.5	1399.0	1042.3
75°	919.7	988.3	1045.3	1217.0	1534.9	1946.2	2123.3	1463.9	1204.2	964.6	681.9
77.5°	881.5	876.0	832.4	868.8	1106.6	1363.2	1514.9	913.6	754.1	630.9	411.9
80°	814.8	768.0	688.6	653.4	697.1	875.4	961.6	587.3	501.7	441.0	232.4
82.5°	632.2	600.6	516.9	514.5	581.2	621.8	661.3	416.2	377.3	357.3	142.6
85°	401.0	411.9	422.2	515.1	644.9	652.2	514.5	253.6	199.0	280.3	91.0
87.5°	118.9	193.5	234.8	398.6	581.2	583.0	387.1	83.1	74.6	87.4	52.8
90°	7.0	7.0	8.0	9.0	9.0	9.0	8.6	7.0	7.0	7.0	8.0
92.5°	6.5	7.0	7.0	7.0	6.5	6.0	6.0	6.0	6.0	6.0	6.0
95°	7.0	7.0	7.5	8.0	7.5	7.0	7.0	7.0	7.0	7.0	7.0
97.5°	10.5	12.0	11.0	10.0	9.5	9.0	8.5	8.0	8.0	8.0	8.5
100°	25.0	29.0	27.5	26.0	24.5	23.0	21.0	19.0	19.0	19.0	21.0
102.5°	45.0	50.0	48.5	47.0	44.5	42.0	40.5	39.0	38.0	39.0	40.5
105°	67.5	72.0	71.0	70.0	67.5	65.0	63.0	61.0	61.0	61.0	63.0
107.5°	91.5	95.0	94.5	94.0	92.0	90.0	88.5	87.0	86.0	87.0	88.5



REPORT NUMBER: P227141

CATALOG NUMBER: ISW-AF-800-LED-E1-SLL-8030-ULG

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
110°	117.0	120.0	120.5	121.0	120.0	119.0	117.5	116.0	117.0	116.0	117.5
112.5°	145.5	148.0	149.0	150.0	149.5	149.0	148.0	147.0	147.0	147.0	148.0
115°	176.5	179.0	180.5	182.0	180.5	179.0	178.0	177.0	178.0	177.0	178.0
117.5°	208.0	211.0	213.0	215.0	212.5	210.0	209.0	208.0	209.0	208.0	209.0
120°	244.5	246.0	248.0	250.0	247.5	245.0	244.0	243.0	243.0	243.0	244.0
122.5°	278.0	279.0	281.0	283.0	280.5	278.0	277.0	276.0	277.0	276.0	277.0
125°	311.5	313.0	314.0	315.0	312.5	310.0	310.0	310.0	310.0	310.0	310.0
127.5°	342.5	345.0	345.5	346.0	346.0	346.0	345.5	345.0	347.0	345.0	345.5
130°	374.5	377.0	379.0	381.0	381.0	381.0	380.0	379.0	380.0	379.0	380.0
132.5°	408.0	411.0	413.5	416.0	415.0	414.0	414.0	414.0	415.0	414.0	414.0
135°	440.0	443.0	445.5	448.0	447.5	447.0	448.5	450.0	451.0	450.0	448.5
137.5°	470.5	473.0	474.0	475.0	475.5	476.0	478.5	481.0	482.0	481.0	478.5
140°	498.5	500.0	501.0	502.0	503.0	504.0	506.5	509.0	511.0	509.0	506.5
142.5°	526.0	527.0	530.0	533.0	533.0	533.0	533.5	534.0	536.0	534.0	533.5
145°	553.5	556.0	559.0	562.0	561.5	561.0	559.5	558.0	560.0	558.0	559.5
147.5°	577.5	580.0	582.5	585.0	585.5	586.0	584.5	583.0	585.0	583.0	584.5
150°	595.0	597.0	598.5	600.0	601.5	603.0	604.5	606.0	610.0	606.0	604.5
152.5°	610.5	611.0	612.5	614.0	616.0	618.0	620.5	623.0	628.0	623.0	620.5
155°	627.0	626.0	628.5	631.0	633.5	636.0	637.0	638.0	641.0	638.0	637.0
157.5°	644.5	644.0	646.0	648.0	649.0	650.0	650.0	650.0	655.0	650.0	650.0
160°	656.5	658.0	661.0	664.0	662.5	661.0	660.5	660.0	666.0	660.0	660.5
162.5°	665.0	667.0	669.0	671.0	670.5	670.0	669.0	668.0	674.0	668.0	669.0
165°	672.5	672.0	674.5	677.0	678.5	680.0	679.0	678.0	682.0	678.0	679.0
167.5°	681.5	678.0	681.0	684.0	686.0	688.0	688.0	688.0	694.0	688.0	688.0
170°	688.5	686.0	687.5	689.0	691.5	694.0	695.0	696.0	701.0	696.0	695.0
172.5°	689.5	689.0	690.5	692.0	693.0	694.0	695.0	696.0	701.0	696.0	695.0
175°	690.0	690.0	692.5	695.0	695.5	696.0	695.0	694.0	699.0	694.0	695.0
177.5°	694.5	694.0	696.5	699.0	700.0	701.0	699.5	698.0	702.0	698.0	699.5
180°	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0



REPORT NUMBER: P227141

CATALOG NUMBER: ISW-AF-800-LED-E1-SLL-8030-ULG

CANDELA DISTRIBUTION (continued):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	1190.9	1190.9	1190.9	1190.9	1190.9	1190.9	1190.9	1190.9	1190.9	1190.9	1190.9
2.5°	1223.0	1220.6	1203.6	1175.1	1177.5	1164.2	1147.2	1119.9	1114.5	1099.3	1096.9
5°	1112.6	1084.1	1047.1	1002.2	985.2	962.2	938.5	921.5	900.3	880.9	907.0
7.5°	965.2	923.4	880.3	833.0	805.7	768.0	748.0	709.2	680.7	675.2	652.8
10°	842.1	789.3	740.1	697.7	646.7	611.5	586.0	564.8	545.4	521.7	507.2
12.5°	760.2	700.7	648.5	595.8	571.5	542.4	526.6	506.6	478.7	458.6	439.2
15°	723.2	658.8	601.8	555.7	520.5	493.2	465.3	441.0	410.7	388.3	365.8
17.5°	718.3	634.6	562.4	510.8	472.6	442.9	405.9	373.7	336.7	311.8	293.0
20°	723.8	616.4	526.0	458.6	419.8	367.6	333.1	293.6	257.2	224.5	194.7
22.5°	745.6	606.7	490.2	416.2	358.5	299.1	262.1	211.7	180.8	149.2	137.7
25°	775.3	600.6	459.2	369.5	296.7	237.8	187.5	145.6	131.6	123.8	119.5
27.5°	806.9	589.7	424.7	326.4	246.9	175.3	140.1	122.5	117.1	112.8	109.8
30°	830.5	568.5	382.2	280.3	196.6	149.8	125.0	113.4	109.8	105.0	101.9
32.5°	840.8	535.7	344.0	236.6	165.6	128.6	109.2	102.5	98.9	94.6	92.8
35°	839.0	498.7	324.6	219.6	151.7	114.1	95.9	91.6	86.8	82.5	78.3
37.5°	840.8	464.7	309.4	215.4	145.6	103.1	87.4	84.3	80.7	76.4	72.8
40°	848.1	445.9	302.1	206.3	140.7	98.9	80.7	77.7	77.0	72.2	69.2
42.5°	851.2	447.7	298.5	193.5	128.6	97.7	80.7	74.0	74.0	70.4	66.7
45°	847.5	461.1	300.9	186.2	119.5	91.6	84.9	74.0	72.2	69.2	65.5
47.5°	858.4	470.8	300.9	185.0	113.4	85.5	80.7	81.3	73.4	69.8	64.3
50°	903.3	479.9	294.8	183.2	111.6	79.5	76.4	80.1	82.5	71.0	64.9
52.5°	982.8	491.4	288.2	180.2	109.2	74.6	71.0	75.2	84.3	74.6	64.9
55°	1064.1	512.0	283.9	175.3	105.6	71.6	64.3	72.2	77.0	74.0	64.3
57.5°	1150.9	534.5	279.7	163.8	97.1	68.6	61.9	63.1	69.2	71.6	62.5
59°	1176.9	545.4	276.0	155.3	89.8	66.1	60.1	58.2	61.9	68.6	61.3
60°	1195.7	546.0	271.8	148.0	85.5	64.9	58.8	56.4	57.6	70.4	61.9
62.5°	1197.6	545.4	258.4	132.9	77.0	62.5	57.0	54.0	52.8	58.8	63.1
65°	1122.3	519.9	234.2	125.0	77.7	60.1	54.0	51.6	49.1	50.4	54.6
67.5°	981.6	454.4	208.7	126.8	81.9	58.2	51.6	49.1	47.3	46.1	47.9
70°	742.6	377.3	201.4	131.0	85.5	57.0	47.9	45.5	44.3	43.7	43.7
72.5°	514.5	310.6	193.5	134.1	88.6	56.4	44.3	41.9	41.3	40.6	40.6
75°	331.2	225.7	160.2	114.1	80.7	51.6	40.0	37.6	37.0	36.4	37.0
77.5°	196.0	157.7	117.7	80.1	58.8	41.3	34.6	32.8	32.8	32.8	33.4
80°	108.6	93.4	78.3	51.6	41.9	30.9	28.5	26.7	26.7	27.3	28.5
82.5°	64.9	51.6	44.3	32.8	28.5	21.8	21.2	20.0	20.6	21.2	22.4
85°	42.5	32.8	26.7	21.8	19.4	14.0	12.1	12.7	13.3	14.6	15.2
87.5°	23.7	18.2	14.6	12.7	11.5	6.1	4.9	4.9	6.1	7.3	8.5
90°	9.0	9.0	9.0	8.0	7.0	7.0	7.0	7.5	8.0	8.0	8.0
92.5°	6.0	6.5	7.0	7.0	7.0	6.5	6.0	6.0	6.0	6.0	6.0
95°	7.0	7.5	8.0	7.5	7.0	7.0	7.0	7.0	7.0	7.0	7.0
97.5°	9.0	9.5	10.0	11.0	12.0	10.5	9.0	9.0	9.0	8.5	8.0
100°	23.0	24.5	26.0	27.5	29.0	25.0	21.0	16.5	12.0	11.0	10.0
102.5°	42.0	44.5	47.0	48.5	50.0	45.0	40.0	33.5	27.0	22.5	18.0
105°	65.0	67.5	70.0	71.0	72.0	67.5	63.0	55.5	48.0	42.0	36.0
107.5°	90.0	92.0	94.0	94.5	95.0	91.5	88.0	80.5	73.0	65.5	58.0



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REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	
110°	119.0	120.0	121.0	120.5	120.0	117.0	114.0	108.0	102.0	94.5	87.0	0°
112.5°	149.0	149.5	150.0	149.0	148.0	145.5	143.0	138.5	134.0	127.5	121.0	2.5°
115°	179.0	180.5	182.0	180.5	179.0	176.5	174.0	171.0	168.0	163.5	159.0	5°
117.5°	210.0	212.5	215.0	213.0	211.0	208.0	205.0	203.5	202.0	199.5	197.0	7.5°
120°	245.0	247.5	250.0	248.0	246.0	244.5	243.0	240.0	237.0	235.0	233.0	10°
122.5°	278.0	280.5	283.0	281.0	279.0	278.0	277.0	274.0	271.0	269.0	267.0	12.5°
125°	310.0	312.5	315.0	314.0	313.0	311.5	310.0	307.5	305.0	302.0	299.0	15°
127.5°	346.0	346.0	346.0	345.5	345.0	342.5	340.0	339.5	339.0	336.0	333.0	17.5°
130°	381.0	381.0	381.0	379.0	377.0	374.5	372.0	371.0	370.0	368.0	366.0	20°
132.5°	414.0	415.0	416.0	413.5	411.0	408.0	405.0	404.5	404.0	402.5	401.0	22.5°
135°	447.0	447.5	448.0	445.5	443.0	440.0	437.0	436.0	435.0	433.5	432.0	25°
137.5°	476.0	475.5	475.0	474.0	473.0	470.5	468.0	466.0	464.0	462.0	460.0	27.5°
140°	504.0	503.0	502.0	501.0	500.0	498.5	497.0	494.0	491.0	490.0	489.0	30°
142.5°	533.0	533.0	533.0	530.0	527.0	526.0	525.0	523.0	521.0	519.5	518.0	32.5°
145°	561.0	561.5	562.0	559.0	556.0	553.5	551.0	550.5	550.0	548.5	547.0	35°
147.5°	586.0	585.5	585.0	582.5	580.0	577.5	575.0	574.5	574.0	574.0	574.0	37.5°
150°	603.0	601.5	600.0	598.5	597.0	595.0	593.0	593.0	593.0	593.0	593.0	40°
152.5°	618.0	616.0	614.0	612.5	611.0	610.5	610.0	610.0	610.0	609.5	609.0	42.5°
155°	636.0	633.5	631.0	628.5	626.0	627.0	628.0	629.0	630.0	628.5	627.0	45°
157.5°	650.0	649.0	648.0	646.0	644.0	644.5	645.0	645.5	646.0	645.0	644.0	47.5°
160°	661.0	662.5	664.0	661.0	658.0	656.5	655.0	655.0	655.0	655.5	656.0	50°
162.5°	670.0	670.5	671.0	669.0	667.0	665.0	663.0	662.0	661.0	663.0	665.0	52.5°
165°	680.0	678.5	677.0	674.5	672.0	672.5	673.0	673.0	673.0	674.5	676.0	55°
167.5°	688.0	686.0	684.0	681.0	678.0	681.5	685.0	686.5	688.0	687.0	686.0	57.5°
170°	694.0	691.5	689.0	687.5	686.0	688.5	691.0	692.0	693.0	692.5	692.0	59°
172.5°	694.0	693.0	692.0	690.5	689.0	689.5	690.0	690.0	690.0	691.5	693.0	60°
175°	696.0	695.5	695.0	692.5	690.0	690.0	690.0	690.5	691.0	693.0	695.0	62.5°
177.5°	701.0	700.0	699.0	696.5	694.0	694.5	695.0	696.0	697.0	698.0	699.0	65°
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

160°	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	110°	160°
1190.9	1190.9	1190.9	1190.9	1190.9	1190.9	1190.9	1190.9	1190.9	1190.9	1190.9	110°	80.5
1105.4	1087.8	1069.0	1055.0	1061.1	1041.0	1042.9	1037.4	1035.0	1033.8	1021.0	112.5°	113.5
875.4	882.1	854.2	857.2	865.7	845.1	831.1	854.2	851.2	830.5	842.1	115°	153.0
630.9	632.8	620.0	591.5	591.5	606.7	612.1	623.1	630.3	655.8	640.0	117.5°	193.0
482.3	465.3	452.6	439.8	432.6	417.4	421.0	434.4	442.9	457.4	469.0	120°	229.5
419.2	400.4	378.0	358.5	348.2	334.3	325.2	322.1	325.2	316.1	316.7	122.5°	264.0
348.2	331.2	306.4	296.1	276.6	265.7	259.7	251.8	245.7	233.0	227.5	125°	297.5
270.0	247.5	222.0	222.0	208.1	199.0	196.6	194.7	191.1	184.4	177.8	127.5°	331.0
179.6	165.0	150.5	143.2	144.4	143.2	139.5	145.6	145.6	148.0	146.8	130°	364.0
131.0	128.6	123.2	118.9	116.5	115.9	116.5	118.3	121.9	125.0	128.0	132.5°	397.0
117.7	116.5	111.6	107.4	106.8	105.6	105.6	107.4	108.0	108.6	108.0	135°	429.0
109.2	106.8	102.5	99.5	98.3	97.7	98.3	96.5	95.2	95.9	95.2	137.5°	459.5
98.9	97.1	92.8	90.4	89.8	89.8	88.0	87.4	86.1	86.8	86.1	140°	488.0
91.0	88.6	84.3	81.3	81.3	80.7	81.3	80.7	80.1	79.5	79.5	142.5°	517.5
76.4	75.8	71.6	70.4	71.0	72.8	72.8	72.8	73.4	72.8	72.8	145°	545.5
71.0	70.4	66.1	63.1	62.5	62.5	62.5	63.7	65.5	66.1	67.3	147.5°	572.5
67.3	66.7	62.5	60.1	58.8	58.2	57.6	57.6	58.2	60.7	62.5	150°	593.0
64.9	63.7	59.5	56.4	55.8	55.2	54.6	54.6	54.6	55.2	57.0	152.5°	608.5
63.7	61.9	57.0	54.0	52.8	52.2	52.2	52.8	52.2	52.2	52.2	155°	626.0
61.9	60.7	55.8	52.2	51.0	51.0	50.4	50.4	50.4	49.1	49.1	157.5°	643.5
61.3	59.5	54.6	51.0	49.7	49.1	48.5	49.1	47.9	47.3	46.7	160°	657.5
60.1	57.6	52.2	49.1	48.5	47.3	46.7	46.7	46.7	45.5	45.5	162.5°	667.0
59.5	56.4	51.0	47.9	46.7	45.5	44.9	44.9	46.1	44.9	44.9	165°	676.0
58.8	54.6	49.1	45.5	44.9	43.7	43.1	43.7	45.5	44.3	43.7	167.5°	685.0
56.4	53.4	47.9	44.9	43.7	42.5	41.9	42.5	43.7	43.7	43.7	170°	692.0
55.2	52.2	46.7	43.7	43.1	41.9	41.3	41.3	43.1	43.1	42.5	172.5°	694.0
53.4	51.0	45.5	41.9	40.6	40.6	40.0	40.0	40.6	40.6	41.3	175°	696.0
51.0	49.7	44.3	40.0	39.4	38.8	38.8	38.8	38.8	40.0	40.0	177.5°	699.5
48.5	47.9	42.5	38.8	37.6	37.6	37.6	37.6	37.6	38.2	38.8	180°	700.0
44.9	44.9	40.0	36.4	35.8	35.2	35.2	35.2	35.2	35.8	36.4		
41.3	41.9	37.0	33.4	32.8	32.8	32.8	32.8	33.4	33.4	34.0		
37.6	38.2	33.4	29.7	29.7	29.7	29.7	29.7	29.7	29.7	30.9		
34.0	34.0	28.5	24.9	25.5	26.1	26.7	26.1	26.1	26.7	28.5		
29.1	28.5	23.7	20.6	20.6	21.8	22.4	21.8	22.4	22.4	24.9		
23.1	23.1	18.2	15.2	15.2	17.6	17.6	17.6	18.2	18.8	20.6		
17.6	17.0	12.7	10.3	10.3	12.1	12.7	13.3	14.0	14.6	15.8		
10.3	10.3	6.7	4.2	4.9	5.5	7.3	7.3	7.3	8.5	10.3		
7.5	7.6	6.0	5.0	5.0	5.0	6.0	7.0	7.5	8.0	8.0		
5.5	5.0	4.5	4.0	4.0	4.0	4.5	5.0	5.5	6.0	6.0		
6.5	6.0	5.5	5.0	5.0	5.0	5.5	6.0	6.5	7.0	7.0		
8.0	8.0	7.5	7.0	7.0	7.0	7.5	8.0	8.0	8.0	8.5		
9.5	9.0	8.5	8.0	8.0	8.0	8.5	9.0	9.5	10.0	11.0		
15.5	13.0	12.0	11.0	11.0	11.0	12.0	13.0	15.5	18.0	22.5		
31.5	27.0	24.5	22.0	21.0	22.0	24.5	27.0	31.5	36.0	42.0		
53.5	49.0	45.5	42.0	41.0	42.0	45.5	49.0	53.5	58.0	65.5		

'227141
 ISW-AF-800-LED-E1-SLL-8030-ULG

REPORT NUMBER: P227141
 CATALOG NUMBER: ISW-AF-80

TION (continued):

CANDELA DISTRIBUTION (con

165°	170°	175°	180°	185°	190°	195°	200°	205°	210°		215°	220°
74.0	71.0	68.0	66.0	68.0	71.0	74.0	80.5	87.0	94.5	0°	1190.9	1190.9
106.0	102.5	99.0	99.0	99.0	102.5	106.0	113.5	121.0	127.5	2.5°	1031.9	1031.3
147.0	143.0	139.0	140.0	139.0	143.0	147.0	153.0	159.0	163.5	5°	846.9	841.5
189.0	186.5	184.0	184.0	184.0	186.5	189.0	193.0	197.0	199.5	7.5°	656.4	676.4
226.0	224.5	223.0	225.0	223.0	224.5	226.0	229.5	233.0	235.0	10°	473.2	487.2
261.0	260.5	260.0	263.0	260.0	260.5	261.0	264.0	267.0	269.0	12.5°	329.4	336.7
296.0	295.0	294.0	298.0	294.0	295.0	296.0	297.5	299.0	302.0	15°	226.9	241.5
329.0	329.0	329.0	330.0	329.0	329.0	329.0	331.0	333.0	336.0	17.5°	176.5	178.4
362.0	361.5	361.0	363.0	361.0	361.5	362.0	364.0	366.0	368.0	20°	145.6	146.8
393.0	393.5	394.0	396.0	394.0	393.5	393.0	397.0	401.0	402.5	22.5°	129.2	131.6
426.0	426.0	426.0	429.0	426.0	426.0	426.0	429.0	432.0	433.5	25°	108.6	111.0
459.0	458.0	457.0	460.0	457.0	458.0	459.0	459.5	460.0	462.0	27.5°	95.9	98.3
487.0	486.0	485.0	488.0	485.0	486.0	487.0	488.0	489.0	490.0	30°	88.0	89.2
517.0	516.0	515.0	518.0	515.0	516.0	517.0	517.5	518.0	519.5	32.5°	80.1	80.1
544.0	545.0	546.0	550.0	546.0	545.0	544.0	545.5	547.0	548.5	35°	73.4	74.0
571.0	571.5	572.0	575.0	572.0	571.5	571.0	572.5	574.0	574.0	37.5°	68.6	69.8
593.0	592.5	592.0	595.0	592.0	592.5	593.0	593.0	593.0	593.0	40°	64.3	64.9
608.0	608.0	608.0	611.0	608.0	608.0	608.0	608.5	609.0	609.5	42.5°	58.2	59.5
625.0	625.0	625.0	629.0	625.0	625.0	625.0	626.0	627.0	628.5	45°	52.8	53.4
643.0	643.0	643.0	646.0	643.0	643.0	643.0	643.5	644.0	645.0	47.5°	49.1	49.1
659.0	659.5	660.0	663.0	660.0	659.5	659.0	657.5	656.0	655.5	50°	46.7	47.3
669.0	669.0	669.0	673.0	669.0	669.0	669.0	667.0	665.0	663.0	52.5°	45.5	46.1
676.0	677.0	678.0	681.0	678.0	677.0	676.0	676.0	676.0	674.5	55°	44.9	46.1
684.0	685.5	687.0	690.0	687.0	685.5	684.0	685.0	686.0	687.0	57.5°	44.9	45.5
692.0	693.5	695.0	698.0	695.0	693.5	692.0	692.0	692.0	692.5	59°	44.3	44.9
695.0	696.0	697.0	699.0	697.0	696.0	695.0	694.0	693.0	691.5	60°	44.3	45.5
697.0	697.5	698.0	700.0	698.0	697.5	697.0	696.0	695.0	693.0	62.5°	42.5	43.7
700.0	702.5	705.0	707.0	705.0	702.5	700.0	699.5	699.0	698.0	65°	41.3	42.5
700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	67.5°	39.4	41.3
										70°	37.6	39.4
										72.5°	35.2	37.6
										75°	32.8	34.6
										77.5°	29.7	31.5
										80°	26.1	26.7
										82.5°	21.8	21.8
										85°	16.4	14.6
										87.5°	9.1	9.7
										90°	8.0	7.5
										92.5°	6.0	6.0
										95°	7.0	7.0
										97.5°	9.0	9.0
										100°	12.0	16.5
										102.5°	27.0	33.5
										105°	48.0	55.5
										107.5°	73.0	80.5



REPORT NUMBER: P227141

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

00-LED-E1-SLL-8030-ULG

tinued):

CANDELA DISTRIBUTION (continued):

225°	230°	235°	240°	245°	250°	255°	260°	265°		215°	220°	225°
1190.9	1190.9	1190.9	1190.9	1190.9	1190.9	1190.9	1190.9	1190.9	110°	102.0	108.0	114.0
1018.6	1018.6	1036.8	1038.6	1017.4	1022.8	1033.2	1021.0	1034.4	112.5°	134.0	138.5	143.0
854.8	847.5	848.1	843.3	851.8	842.1	852.4	848.7	845.7	115°	168.0	171.0	174.0
663.7	676.4	667.3	649.7	663.7	652.8	632.2	634.0	610.9	117.5°	202.0	203.5	205.0
498.7	489.6	484.7	476.2	453.8	458.0	435.0	438.6	446.5	120°	237.0	240.0	243.0
344.0	337.3	345.2	339.7	330.6	332.5	337.3	342.2	354.9	122.5°	271.0	274.0	277.0
241.5	238.4	236.6	240.2	250.6	256.0	263.9	278.5	285.7	125°	305.0	307.5	310.0
181.4	182.0	180.2	185.6	194.1	198.4	200.2	201.4	209.9	127.5°	339.0	339.5	340.0
149.8	152.3	151.7	153.5	151.1	148.6	150.5	146.8	143.8	130°	370.0	371.0	372.0
131.0	131.6	128.6	128.0	124.4	121.3	118.9	118.9	117.7	132.5°	404.0	404.5	405.0
111.0	111.6	108.6	108.6	108.0	109.8	108.6	106.2	105.6	135°	435.0	436.0	437.0
99.5	98.3	96.5	96.5	95.2	95.2	95.9	96.5	95.9	137.5°	464.0	466.0	468.0
89.2	88.0	87.4	88.0	87.4	88.0	88.6	88.0	88.6	140°	491.0	494.0	497.0
81.9	80.7	80.7	81.3	80.7	81.3	81.3	81.3	80.7	142.5°	521.0	523.0	525.0
75.8	74.6	74.6	74.6	74.0	72.8	71.6	69.8	67.9	145°	550.0	550.5	551.0
71.0	70.4	69.2	68.6	66.7	63.1	61.9	61.9	61.9	147.5°	574.0	574.5	575.0
66.7	65.5	64.9	62.5	60.1	58.8	58.8	58.8	58.8	150°	593.0	593.0	593.0
61.3	59.5	58.2	57.6	57.0	57.0	56.4	56.4	56.4	152.5°	610.0	610.0	610.0
54.6	54.0	54.0	54.6	54.6	54.6	54.6	54.0	54.6	155°	630.0	629.0	628.0
50.4	50.4	51.0	51.6	52.2	52.8	53.4	52.8	53.4	157.5°	646.0	645.5	645.0
48.5	48.5	48.5	49.7	50.4	51.0	52.2	52.2	52.2	160°	655.0	655.0	655.0
47.3	47.3	47.9	48.5	49.1	49.7	50.4	51.0	51.6	162.5°	661.0	662.0	663.0
46.7	47.3	46.7	47.3	47.9	49.1	49.7	49.7	50.4	165°	673.0	673.0	673.0
46.7	46.7	46.7	46.7	47.9	48.5	47.9	48.5	49.1	167.5°	688.0	686.5	685.0
46.7	46.7	46.1	46.7	47.3	47.9	47.3	47.3	48.5	170°	693.0	692.0	691.0
46.1	46.7	46.1	46.1	46.7	47.3	46.7	47.3	47.9	172.5°	690.0	690.0	690.0
44.9	45.5	44.9	45.5	45.5	46.1	46.1	46.1	46.7	175°	691.0	690.5	690.0
43.7	43.7	43.7	44.3	44.3	44.9	44.9	45.5	44.9	177.5°	697.0	696.0	695.0
42.5	42.5	42.5	43.1	43.1	43.7	44.3	43.7	43.7	180°	700.0	700.0	700.0
41.3	40.6	40.0	40.6	41.3	41.3	41.9	41.3	41.9				
39.4	38.8	38.2	38.2	38.8	38.8	39.4	38.8	38.8				
36.4	36.4	35.2	35.2	35.2	35.2	35.8	35.2	34.6				
32.8	32.8	31.5	31.5	31.5	31.5	30.9	30.9	30.9				
27.3	27.9	27.9	27.3	27.3	26.7	26.7	26.1	25.5				
20.6	21.8	22.4	22.4	22.4	22.4	22.4	21.2	20.0				
14.6	16.4	18.2	18.2	17.6	17.6	17.6	15.8	14.0				
9.1	10.9	11.5	12.7	10.9	10.3	10.3	9.1	8.5				
7.0	7.0	8.2	8.6	10.8	10.8	11.4	9.2	7.6				
6.0	6.5	7.0	7.0	7.0	6.5	6.0	6.0	6.0				
7.0	7.0	7.0	7.5	8.0	7.5	7.0	7.0	7.0				
9.0	10.5	12.0	11.0	10.0	9.5	9.0	8.5	8.0				
21.0	25.0	29.0	27.5	26.0	24.5	23.0	21.0	19.0				
40.0	45.0	50.0	48.5	47.0	44.5	42.0	40.5	39.0				
63.0	67.5	72.0	71.0	70.0	67.5	65.0	63.0	61.0				
88.0	91.5	95.0	94.5	94.0	92.0	90.0	88.5	87.0				



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CATALOG NUMBER: ISW-AF-800-LED-E1-SLL-8030-

SLL-8030-ULG

CANDELA DISTRIBUTION (continued):

230°	235°	240°	245°	250°	255°	260°	265°		270°	275°	280°	285°
117.0	120.0	120.5	121.0	120.0	119.0	117.5	116.0	0°	1190.9	1190.9	1190.9	1190.9
145.5	148.0	149.0	150.0	149.5	149.0	148.0	147.0	2.5°	1022.8	1045.3	1048.3	1051.4
176.5	179.0	180.5	182.0	180.5	179.0	178.0	177.0	5°	840.8	863.3	850.6	856.0
208.0	211.0	213.0	215.0	212.5	210.0	209.0	208.0	7.5°	614.0	599.4	618.2	629.7
244.5	246.0	248.0	250.0	247.5	245.0	244.0	243.0	10°	448.3	465.3	472.6	485.9
278.0	279.0	281.0	283.0	280.5	278.0	277.0	276.0	12.5°	371.9	382.8	396.2	417.4
311.5	313.0	314.0	315.0	312.5	310.0	310.0	310.0	15°	301.5	309.4	326.4	347.0
342.5	345.0	345.5	346.0	346.0	346.0	345.5	345.0	17.5°	219.6	231.1	242.1	259.0
374.5	377.0	379.0	381.0	381.0	381.0	380.0	379.0	20°	147.4	152.3	165.6	173.5
408.0	411.0	413.5	416.0	415.0	414.0	414.0	414.0	22.5°	118.3	120.1	122.5	129.2
440.0	443.0	445.5	448.0	447.5	447.0	448.5	450.0	25°	106.2	107.4	109.2	111.6
470.5	473.0	474.0	475.0	475.5	476.0	478.5	481.0	27.5°	96.5	97.1	98.9	100.1
498.5	500.0	501.0	502.0	503.0	504.0	506.5	509.0	30°	88.0	87.4	88.0	89.8
526.0	527.0	530.0	533.0	533.0	533.0	533.5	534.0	32.5°	78.9	78.9	80.1	80.1
553.5	556.0	559.0	562.0	561.5	561.0	559.5	558.0	35°	67.9	67.3	68.6	70.4
577.5	580.0	582.5	585.0	585.5	586.0	584.5	583.0	37.5°	62.5	63.1	64.3	65.5
595.0	597.0	598.5	600.0	601.5	603.0	604.5	606.0	40°	59.5	60.1	61.3	62.5
610.5	611.0	612.5	614.0	616.0	618.0	620.5	623.0	42.5°	56.4	57.6	58.8	60.7
627.0	626.0	628.5	631.0	633.5	636.0	637.0	638.0	45°	54.6	55.8	57.6	59.5
644.5	644.0	646.0	648.0	649.0	650.0	650.0	650.0	47.5°	54.0	55.2	57.0	59.5
656.5	658.0	661.0	664.0	662.5	661.0	660.5	660.0	50°	52.8	54.6	56.4	58.8
665.0	667.0	669.0	671.0	670.5	670.0	669.0	668.0	52.5°	52.8	54.0	55.8	58.8
672.5	672.0	674.5	677.0	678.5	680.0	679.0	678.0	55°	51.0	52.8	54.6	57.6
681.5	678.0	681.0	684.0	686.0	688.0	688.0	688.0	57.5°	49.7	51.0	53.4	57.0
688.5	686.0	687.5	689.0	691.5	694.0	695.0	696.0	59°	49.1	50.4	52.8	56.4
689.5	689.0	690.5	692.0	693.0	694.0	695.0	696.0	60°	47.9	49.7	52.2	55.8
690.0	690.0	692.5	695.0	695.5	696.0	695.0	694.0	62.5°	46.7	48.5	51.0	54.6
694.5	694.0	696.5	699.0	700.0	701.0	699.5	698.0	65°	44.9	47.3	49.7	52.2
700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	67.5°	43.7	44.9	47.3	49.7
								70°	41.3	42.5	44.3	46.1
								72.5°	38.2	38.8	40.0	41.9
								75°	34.0	34.6	35.2	37.0
								77.5°	29.7	29.7	30.3	32.8
								80°	24.9	24.9	25.5	26.7
								82.5°	18.8	18.8	20.0	21.8
								85°	13.3	12.7	14.6	15.8
								87.5°	7.9	7.3	7.9	7.9
								90°	7.6	8.8	9.2	10.2
								92.5°	6.0	6.0	6.0	6.0
								95°	7.0	7.0	7.0	7.0
								97.5°	8.0	8.0	8.5	9.0
								100°	19.0	19.0	21.0	23.0
								102.5°	38.0	39.0	40.5	42.0
								105°	61.0	61.0	63.0	65.0
								107.5°	86.0	87.0	88.5	90.0



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CATALOG NUMBER: ISW-AF-800-LED-E1-SLL-8030-ULG

ULG

CANDELA DISTRIBUTION (continued):

290°	295°	300°	305°	310°	315°	320°		270°	275°	280°	285°	290°
1190.9	1190.9	1190.9	1190.9	1190.9	1190.9	1190.9	110°	117.0	116.0	117.5	119.0	120.0
1063.5	1057.4	1062.3	1081.1	1087.8	1096.3	1124.8	112.5°	147.0	147.0	148.0	149.0	149.5
869.4	877.2	869.4	907.6	909.4	934.9	945.2	115°	178.0	177.0	178.0	179.0	180.5
638.8	649.1	666.1	691.6	698.9	735.3	766.2	117.5°	209.0	208.0	209.0	210.0	212.5
498.7	512.0	535.7	551.5	567.2	588.5	613.3	120°	243.0	243.0	244.0	245.0	247.5
442.9	456.8	477.4	497.5	519.9	536.3	556.9	122.5°	277.0	276.0	277.0	278.0	280.5
370.1	391.9	411.9	438.0	456.8	486.5	510.8	125°	310.0	310.0	310.0	310.0	312.5
282.7	313.0	333.1	364.6	393.1	419.2	452.0	127.5°	347.0	345.0	345.5	346.0	346.0
196.6	220.2	245.7	279.7	316.7	352.5	396.2	130°	380.0	379.0	380.0	381.0	381.0
135.3	148.0	167.4	202.6	240.8	292.4	339.7	132.5°	415.0	414.0	414.0	414.0	415.0
115.3	120.1	127.4	144.4	176.5	233.0	285.1	135°	451.0	450.0	448.5	447.0	447.5
102.5	106.2	111.0	119.5	136.5	175.3	233.0	137.5°	482.0	481.0	478.5	476.0	475.5
94.0	98.3	103.1	109.2	118.3	145.0	188.1	140°	511.0	509.0	506.5	504.0	503.0
82.5	85.5	89.8	96.5	103.1	124.4	166.2	142.5°	536.0	534.0	533.5	533.0	533.0
72.8	76.4	81.9	86.8	93.4	110.4	151.1	145°	560.0	558.0	559.5	561.0	561.5
67.9	71.6	76.4	80.7	85.5	99.5	140.1	147.5°	585.0	583.0	584.5	586.0	585.5
64.9	68.6	73.4	77.0	80.1	95.9	135.9	150°	610.0	606.0	604.5	603.0	601.5
63.1	67.3	71.6	74.0	80.1	97.7	125.6	152.5°	628.0	623.0	620.5	618.0	616.0
62.5	66.7	71.6	75.8	88.0	92.2	118.9	155°	641.0	638.0	637.0	636.0	633.5
63.1	66.7	72.8	84.9	85.5	87.4	111.6	157.5°	655.0	650.0	650.0	650.0	649.0
63.1	68.6	81.3	88.6	81.3	82.5	105.0	160°	666.0	660.0	660.5	661.0	662.5
63.7	71.0	84.3	82.5	78.9	77.0	97.7	162.5°	674.0	668.0	669.0	670.0	670.5
63.7	69.8	80.7	77.7	72.8	73.4	89.2	165°	682.0	678.0	679.0	680.0	678.5
61.9	69.8	77.7	70.4	66.7	69.8	81.9	167.5°	694.0	688.0	688.0	688.0	686.0
60.7	71.6	69.2	64.9	64.9	67.9	78.3	170°	701.0	696.0	695.0	694.0	691.5
60.1	73.4	65.5	63.1	63.1	67.3	76.4	172.5°	701.0	696.0	695.0	694.0	693.0
58.2	68.6	60.1	58.8	60.7	63.7	74.0	175°	699.0	694.0	695.0	696.0	695.5
54.6	57.0	55.2	55.2	57.6	61.3	72.8	177.5°	702.0	698.0	699.5	701.0	700.0
50.4	51.6	51.6	52.2	54.6	57.6	74.0	180°	700.0	700.0	700.0	700.0	700.0
46.7	46.7	47.9	48.5	50.4	54.6	71.0						
42.5	43.1	43.1	44.3	45.5	49.7	68.6						
37.6	37.6	38.8	38.8	40.6	44.9	61.3						
32.8	32.8	32.8	33.4	34.6	38.8	50.4						
27.3	27.3	27.3	27.9	28.5	32.2	38.2						
21.8	21.2	20.6	20.6	21.8	24.9	29.7						
15.2	15.2	14.6	14.6	14.6	16.4	20.0						
8.5	7.3	7.9	8.5	7.9	9.1	10.9						
9.6	10.2	9.8	9.4	9.4	9.4	11.1						
6.5	7.0	7.0	7.0	6.5	6.0	6.0						
7.5	8.0	7.5	7.0	7.0	7.0	7.0						
9.5	10.0	11.0	12.0	10.5	9.0	9.0						
24.5	26.0	27.5	29.0	25.0	21.0	16.5						
44.5	47.0	48.5	50.0	45.0	40.0	33.5						
67.5	70.0	71.0	72.0	67.5	63.0	55.5						
92.0	94.0	94.5	95.0	91.5	88.0	80.5						



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CANDELA DISTRIBUTION (continued):

295°	300°	305°	310°	315°	320°		325°	330°	335°	340°	345°	350°
121.0	120.5	120.0	117.0	114.0	108.0	0°	1190.9	1190.9	1190.9	1190.9	1190.9	1190.9
150.0	149.0	148.0	145.5	143.0	138.5	2.5°	1121.1	1136.9	1161.8	1166.6	1186.6	1200.6
182.0	180.5	179.0	176.5	174.0	171.0	5°	950.0	987.7	1001.0	1027.1	1072.6	1095.6
215.0	213.0	211.0	208.0	205.0	203.5	7.5°	783.8	812.3	844.5	886.3	919.7	959.1
250.0	248.0	246.0	244.5	243.0	240.0	10°	644.9	685.5	727.4	761.4	808.1	855.4
283.0	281.0	279.0	278.0	277.0	274.0	12.5°	572.7	595.1	636.4	684.3	742.6	795.3
315.0	314.0	313.0	311.5	310.0	307.5	15°	535.1	561.8	606.1	657.0	718.9	784.4
346.0	345.5	345.0	342.5	340.0	339.5	17.5°	488.4	530.8	581.2	654.0	734.1	825.1
381.0	379.0	377.0	374.5	372.0	371.0	20°	442.3	493.8	560.0	655.8	766.8	885.1
416.0	413.5	411.0	408.0	405.0	404.5	22.5°	401.6	462.9	546.6	666.7	808.7	966.4
448.0	445.5	443.0	440.0	437.0	436.0	25°	353.7	435.6	536.3	689.2	873.0	1075.6
475.0	474.0	473.0	470.5	468.0	466.0	27.5°	315.5	409.5	521.1	708.6	931.8	1180.6
502.0	501.0	500.0	498.5	497.0	494.0	30°	273.0	379.2	499.9	715.3	1003.4	1266.7
533.0	530.0	527.0	526.0	525.0	523.0	32.5°	239.0	350.7	475.6	709.2	1035.6	1326.8
562.0	559.0	556.0	553.5	551.0	550.5	35°	222.6	330.0	455.0	688.0	1062.3	1391.7
585.0	582.5	580.0	577.5	575.0	574.5	37.5°	211.7	307.6	435.0	652.8	1092.6	1456.0
600.0	598.5	597.0	595.0	593.0	593.0	40°	197.8	290.0	418.6	627.3	1116.3	1509.4
614.0	612.5	611.0	610.5	610.0	610.0	42.5°	185.0	274.2	405.9	604.9	1122.3	1557.3
631.0	628.5	626.0	627.0	628.0	629.0	45°	174.1	264.5	396.2	606.1	1126.6	1624.1
648.0	646.0	644.0	644.5	645.0	645.5	47.5°	165.6	255.4	392.5	626.7	1171.5	1716.9
664.0	661.0	658.0	656.5	655.0	655.0	50°	157.7	247.5	386.4	666.7	1243.7	1842.5
671.0	669.0	667.0	665.0	663.0	662.0	52.5°	148.6	236.6	378.6	708.0	1322.5	2010.5
677.0	674.5	672.0	672.5	673.0	673.0	55°	136.5	222.0	370.1	742.6	1429.9	2215.0
684.0	681.0	678.0	681.5	685.0	686.5	57.5°	117.7	205.1	364.6	760.2	1496.0	2332.6
689.0	687.5	686.0	688.5	691.0	692.0	59°	108.0	188.7	361.6	751.7	1513.6	2352.7
692.0	690.5	689.0	689.5	690.0	690.0	60°	102.5	179.0	356.7	741.4	1518.5	2339.9
695.0	692.5	690.0	690.0	690.0	690.5	62.5°	95.2	155.9	336.7	689.8	1450.5	2185.8
699.0	696.5	694.0	694.5	695.0	696.0	65°	97.1	147.4	291.2	587.3	1294.6	1884.9
700.0	700.0	700.0	700.0	700.0	700.0	67.5°	99.5	143.8	251.8	474.4	1031.9	1559.8
						70°	97.7	142.0	228.7	377.3	772.9	1167.8
						72.5°	95.2	134.1	198.4	303.3	490.2	817.8
						75°	84.3	112.8	155.9	208.1	309.4	595.8
						77.5°	66.1	86.8	110.4	129.2	157.1	420.4
						80°	48.5	63.1	72.2	77.7	87.4	287.0
						82.5°	34.6	42.5	46.1	49.1	58.2	214.8
						85°	26.1	29.7	32.2	32.2	39.4	151.7
						87.5°	14.6	15.2	15.2	16.4	19.4	41.3
						90°	12.2	12.2	11.6	11.7	10.0	8.4
						92.5°	6.0	6.0	6.0	5.5	5.0	4.5
						95°	7.0	7.0	7.0	6.5	6.0	5.5
						97.5°	9.0	8.5	8.0	8.0	8.0	7.5
						100°	12.0	11.0	10.0	9.5	9.0	8.5
						102.5°	27.0	22.5	18.0	15.5	13.0	12.0
						105°	48.0	42.0	36.0	31.5	27.0	24.5
						107.5°	73.0	65.5	58.0	53.5	49.0	45.5



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CANDELA DISTRIBUTION (continued):

355°	359°	360°		325°	330°	335°	340°	345°	350°	355°
1190.9	1190.9	1190.9	110°	102.0	94.5	87.0	80.5	74.0	71.0	68.0
1216.4	1225.5	1232.8	112.5°	134.0	127.5	121.0	113.5	106.0	102.5	99.0
1130.8	1153.3	1157.5	115°	168.0	163.5	159.0	153.0	147.0	143.0	139.0
1002.8	1039.2	1052.0	117.5°	202.0	199.5	197.0	193.0	189.0	186.5	184.0
908.8	948.2	961.6	120°	237.0	235.0	233.0	229.5	226.0	224.5	223.0
857.2	903.3	917.9	122.5°	271.0	269.0	267.0	264.0	261.0	260.5	260.0
858.4	913.6	934.9	125°	305.0	302.0	299.0	297.5	296.0	295.0	294.0
914.3	977.3	1003.4	127.5°	339.0	336.0	333.0	331.0	329.0	329.0	329.0
1010.1	1101.7	1121.1	130°	370.0	368.0	366.0	364.0	362.0	361.5	361.0
1139.9	1229.7	1258.8	132.5°	404.0	402.5	401.0	397.0	393.0	393.5	394.0
1261.9	1380.8	1403.2	135°	435.0	433.5	432.0	429.0	426.0	426.0	426.0
1382.0	1499.7	1519.7	137.5°	464.0	462.0	460.0	459.5	459.0	458.0	457.0
1474.8	1598.0	1615.0	140°	491.0	490.0	489.0	488.0	487.0	486.0	485.0
1564.0	1702.9	1721.7	142.5°	521.0	519.5	518.0	517.5	517.0	516.0	515.0
1663.5	1817.0	1838.8	145°	550.0	548.5	547.0	545.5	544.0	545.0	546.0
1753.3	1929.2	1943.2	147.5°	574.0	574.0	574.0	572.5	571.0	571.5	572.0
1852.8	2020.8	2024.5	150°	593.0	593.0	593.0	593.0	593.0	592.5	592.0
1934.1	2088.8	2090.0	152.5°	610.0	609.5	609.0	608.5	608.0	608.0	608.0
2012.9	2152.5	2153.1	155°	630.0	628.5	627.0	626.0	625.0	625.0	625.0
2095.4	2222.2	2213.1	157.5°	646.0	645.0	644.0	643.5	643.0	643.0	643.0
2225.9	2304.7	2313.8	160°	655.0	655.5	656.0	657.5	659.0	659.5	660.0
2424.3	2494.6	2504.9	162.5°	661.0	663.0	665.0	667.0	669.0	669.0	669.0
2654.8	2752.5	2738.5	165°	673.0	674.5	676.0	676.0	676.0	677.0	678.0
2752.5	2864.1	2875.6	167.5°	688.0	687.0	686.0	685.0	684.0	685.5	687.0
2736.1	2888.4	2907.8	170°	693.0	692.5	692.0	692.0	692.0	693.5	695.0
2710.0	2881.1	2904.7	172.5°	690.0	691.5	693.0	694.0	695.0	696.0	697.0
2562.0	2805.2	2842.3	175°	691.0	693.0	695.0	696.0	697.0	697.5	698.0
2313.2	2648.1	2700.3	177.5°	697.0	698.0	699.0	699.5	700.0	702.5	705.0
1993.5	2413.3	2455.2	180°	700.0	700.0	700.0	700.0	700.0	700.0	700.0
1555.5	1961.4	1997.2								
1033.8	1346.8	1408.7								
657.0	868.8	857.2								
484.7	564.8	565.4								
351.9	387.7	383.4								
272.4	236.6	236.0								
95.2	83.7	81.9								
41.3	34.6	35.2								
6.8	6.8	7.4								
4.0	4.0	4.0								
5.0	5.0	5.0								
7.0	7.0	7.0								
8.0	8.0	8.0								
11.0	11.0	11.0								
22.0	21.2	21.0								
42.0	41.2	41.0								



359°	360°
66.4	66.0
99.0	99.0
139.8	140.0
184.0	184.0
224.6	225.0
262.4	263.0
297.2	298.0
329.8	330.0
362.6	363.0
395.6	396.0
428.4	429.0
459.4	460.0
487.4	488.0
517.4	518.0
549.2	550.0
574.4	575.0
594.4	595.0
610.4	611.0
628.2	629.0
645.4	646.0
662.4	663.0
672.2	673.0
680.4	681.0
689.4	690.0
697.4	698.0
698.6	699.0
699.6	700.0
706.6	707.0
700.0	700.0

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