

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: P227145

Luminaire Tested: **ISW-AF-600-LED-E1-SLL-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P227145
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-600-LED-E1-SLL-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) 4000K CCT, 70 CRI LEDs and (1) UPLIGHT LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5386.2 lumens
Efficiency: N/A
Efficacy: 106.9 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

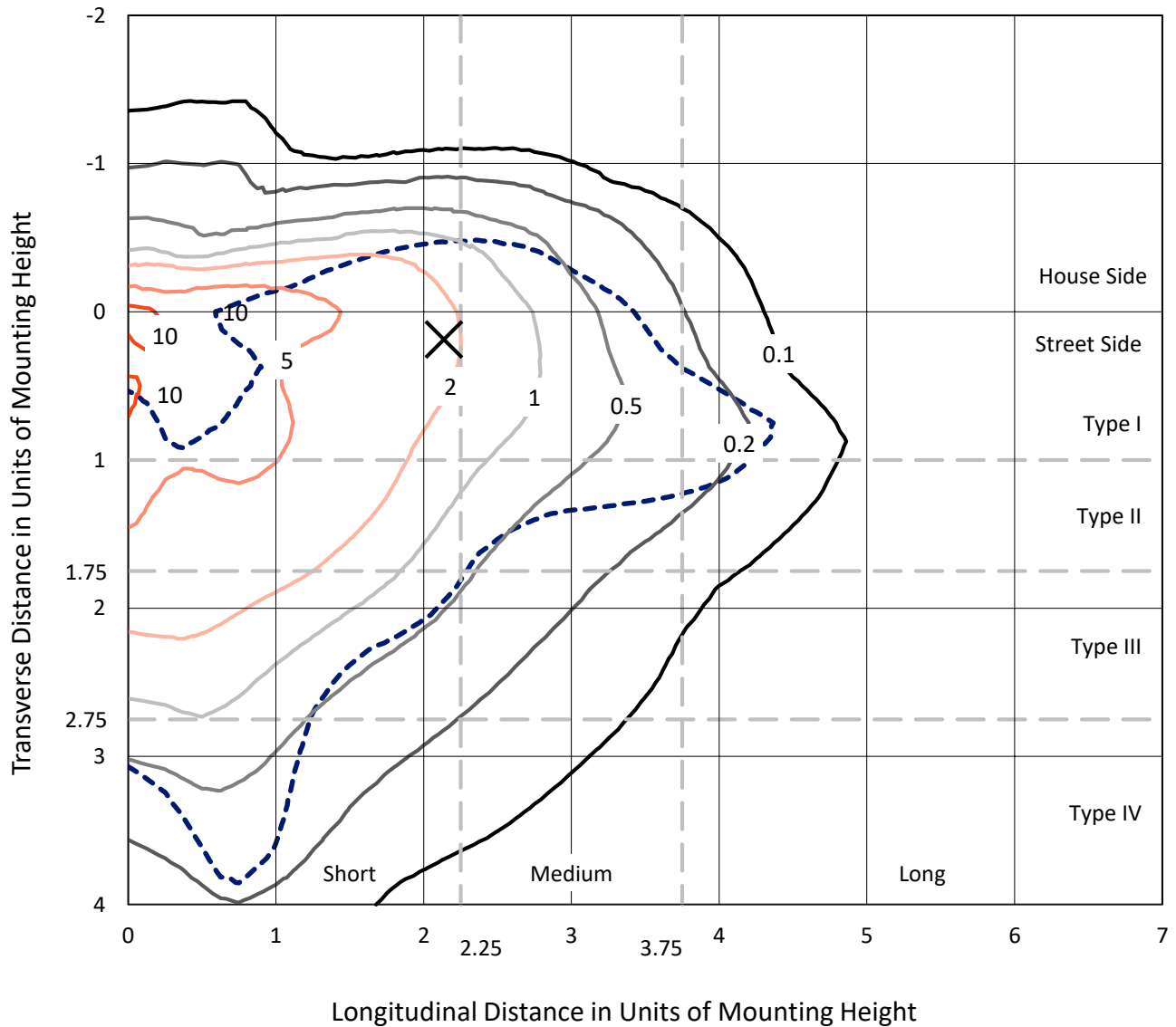
Input Watts (W): 50.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

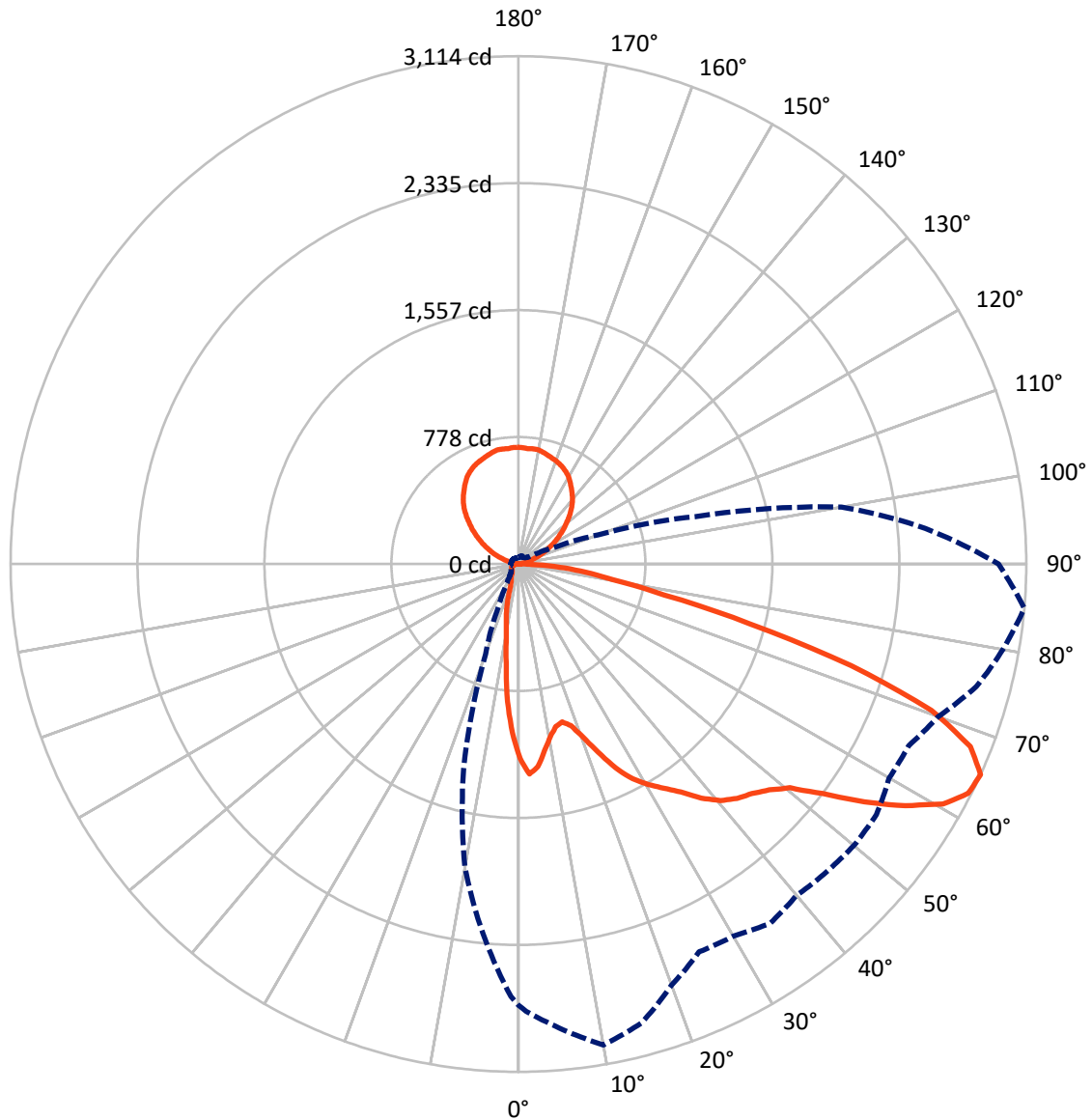
× Max cd
 - - - 1/2 Max cd



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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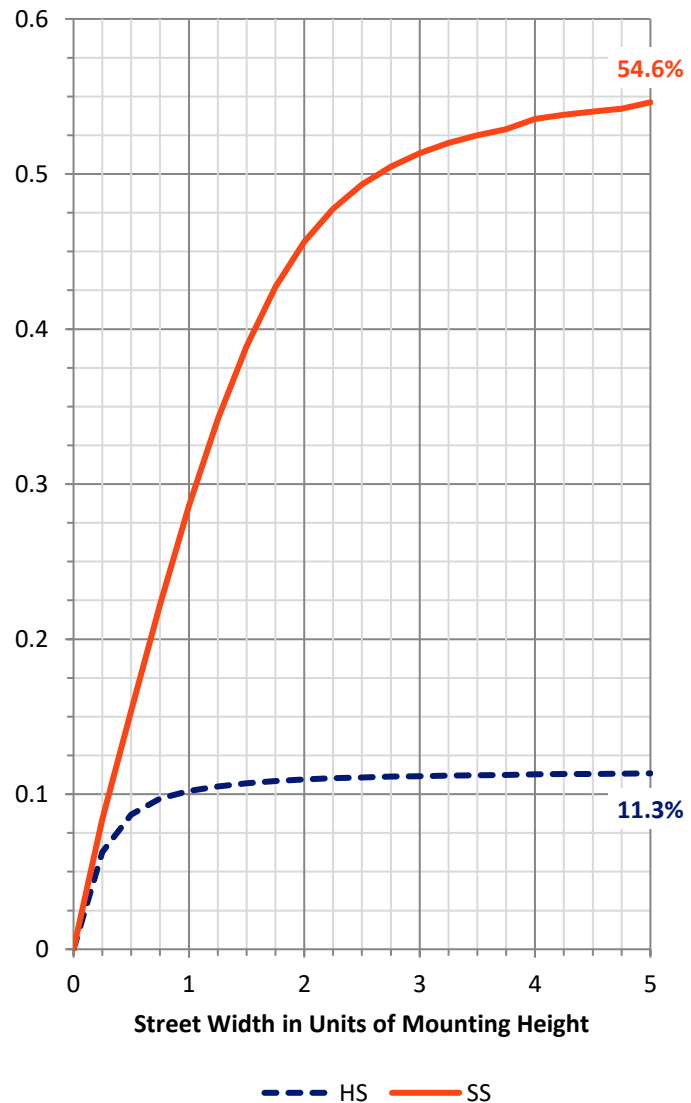
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	619.8	887.5	1507.3
	% Fixture	11.5	16.5	28.0
Street Side	Lumens	2991.3	887.6	3878.9
	% Fixture	55.5	16.5	72.0
Total	Lumens	3611.0	1775.1	5386.2
	% Fixture	67.0	33.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.4	1.6
10°-20°	170.0	3.2
20°-30°	242.4	4.5
30°-40°	351.7	6.5
40°-50°	503.1	9.3
50°-60°	772.5	14.3
60°-70°	894.1	16.6
70°-80°	456.1	8.5
80°-90°	132.7	2.5
90°-100°	9.6	0.2
100°-110°	58.7	1.1
110°-120°	169.9	3.2
120°-130°	279.4	5.2
130°-140°	344.6	6.4
140°-150°	352.5	6.5
150°-160°	297.0	5.5
160°-170°	195.5	3.6
170°-180°	67.8	1.3
0°-90°	3611.0	67.0
0°-180°	5386.2	100.0



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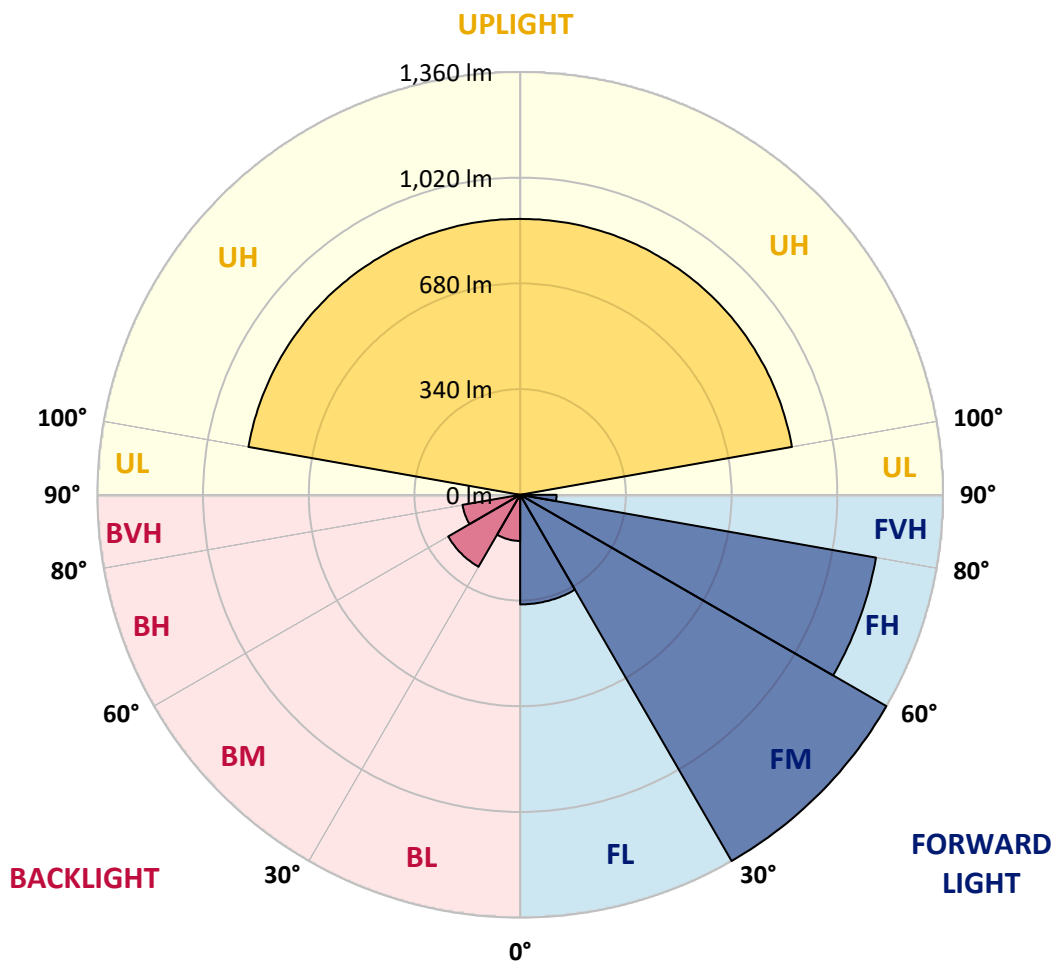
CATALOG NUMBER: ISW-AF-600-LED-E1-SLL-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	352.6	6.5			
FM	(30°-60°)	1359.9	25.2			
FH	(60°-80°)	1161.9	21.6			G1/1800
FVH	(80°-90°)	116.9	2.2			G2/225
BL	(0°-30°)	148.2	2.8	B1/500		
BM	(30°-60°)	267.4	5.0	B1/1000		
BH	(60°-80°)	188.3	3.5	B1/500		G1/500
BVH	(80°-90°)	15.8	0.3			G1/100
UL	(90°-100°)	9.6	0.2		U1/10	
UH	(100°-180°)	887.5	16.5		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°	1192.7	1192.7	1192.7	1192.7	1192.7	1192.7	1192.7	1192.7	1192.7	1192.7	1192.7
2.5°	1234.6	1235.8	1252.8	1269.2	1289.8	1286.9	1303.9	1316.6	1328.1	1329.9	1338.4
5°	1159.2	1171.4	1209.6	1242.5	1283.8	1316.0	1350.6	1377.9	1398.0	1416.9	1419.2
7.5°	1053.5	1062.6	1106.9	1158.6	1218.1	1260.7	1313.0	1358.5	1390.7	1421.1	1427.7
10°	963.0	971.5	1020.7	1087.5	1139.8	1195.1	1249.1	1286.3	1328.1	1354.3	1367.1
12.5°	919.2	929.6	976.4	1037.1	1090.6	1144.1	1184.8	1216.9	1240.6	1245.5	1249.1
15°	936.3	941.7	993.4	1047.4	1090.0	1116.8	1127.6	1147.0	1145.3	1155.0	1156.9
17.5°	1004.9	1002.5	1057.1	1094.9	1115.5	1112.5	1095.5	1085.1	1066.8	1061.4	1077.2
20°	1122.8	1131.3	1166.6	1189.6	1168.3	1119.1	1072.4	1040.1	1014.7	1006.2	1004.3
22.5°	1260.7	1271.6	1309.9	1297.7	1243.7	1153.8	1068.7	1017.0	985.5	976.4	972.7
25°	1405.3	1412.6	1432.0	1390.7	1314.8	1198.1	1094.3	1021.9	980.0	966.6	964.8
27.5°	1521.9	1529.2	1520.1	1472.7	1362.8	1247.9	1129.4	1043.8	989.1	975.8	969.7
30°	1617.4	1621.0	1590.6	1531.7	1422.3	1303.2	1175.7	1082.1	1018.2	987.9	983.7
32.5°	1724.3	1721.8	1662.9	1581.5	1472.7	1353.1	1228.5	1125.2	1046.3	1009.1	1002.5
35°	1841.5	1820.2	1716.4	1630.7	1507.3	1391.3	1276.5	1170.8	1091.2	1042.0	1033.5
37.5°	1946.1	1924.2	1785.0	1669.6	1542.0	1421.1	1314.2	1229.7	1159.8	1114.9	1111.2
40°	2027.5	2000.7	1837.3	1695.7	1559.0	1443.0	1358.5	1303.9	1257.6	1221.2	1221.2
42.5°	2093.1	2063.9	1888.3	1726.1	1574.2	1476.4	1432.6	1413.8	1404.1	1384.1	1391.3
45°	2156.3	2126.5	1930.2	1745.6	1608.2	1541.4	1547.4	1563.9	1593.0	1581.5	1591.8
47.5°	2216.4	2187.3	1977.7	1776.6	1673.9	1658.0	1689.6	1755.3	1812.4	1857.4	1888.9
50°	2317.3	2282.6	2062.7	1867.7	1777.2	1785.0	1876.2	2005.0	2098.0	2139.2	2136.8
52.5°	2508.7	2459.4	2245.6	2037.8	1924.8	1968.5	2076.1	2238.3	2359.7	2392.0	2404.8
55°	2742.5	2703.7	2509.8	2263.2	2181.1	2196.4	2330.0	2513.5	2607.1	2640.4	2651.4
57.5°	2879.8	2869.5	2748.1	2504.4	2424.8	2418.8	2593.1	2743.1	2824.0	2855.6	2845.8
59°	2912.0	2915.1	2845.8	2675.1	2565.8	2552.4	2729.7	2869.0	2936.4	2946.1	2941.2
60°	2909.1	2926.0	2917.6	2768.7	2655.1	2638.1	2787.5	2919.9	2976.5	2991.6	2974.6
62.5°	2846.5	2875.6	2956.4	2940.6	2857.4	2770.5	2840.9	2937.0	2973.4	2958.9	2946.1
65°	2704.3	2742.5	2855.0	2994.7	2914.5	2746.8	2623.5	2634.4	2689.6	2653.2	2670.8
67.5°	2458.9	2502.5	2562.1	2879.3	2762.6	2481.3	2269.2	2165.4	2139.2	2174.5	2230.3
70°	2000.1	2028.6	2179.3	2627.8	2426.0	2039.6	1773.5	1635.0	1588.7	1670.2	1727.4
72.5°	1410.8	1453.3	1652.0	2174.5	1995.9	1633.8	1342.1	1214.5	1168.3	1172.0	1221.8
75°	858.5	916.3	1154.4	1719.4	1573.0	1251.6	1022.5	930.8	916.8	908.9	900.4
77.5°	566.2	588.1	758.8	1186.6	1060.8	890.1	767.3	805.1	846.9	856.1	867.0
80°	384.0	390.7	492.1	832.4	698.7	657.3	620.3	709.0	788.6	803.2	795.3
82.5°	236.3	256.4	343.3	561.4	557.1	537.7	490.3	559.6	612.4	621.5	637.9
85°	82.0	85.6	210.8	495.8	566.2	572.3	404.1	319.0	358.4	351.8	252.8
87.5°	35.2	39.5	65.6	331.7	383.4	317.1	184.7	164.1	126.3	71.1	68.6
90°	7.6	7.6	7.0	9.2	16.3	13.7	13.6	10.0	8.2	7.7	7.2
92.5°	4.1	4.1	4.1	4.6	5.1	5.6	6.1	6.1	6.1	6.1	6.1
95°	5.1	5.1	5.1	5.6	6.1	6.6	7.2	7.2	7.2	7.2	7.2
97.5°	7.2	7.2	7.2	7.7	8.2	8.2	8.2	8.7	9.2	9.2	9.2
100°	8.2	8.2	8.2	8.7	9.2	9.7	10.2	11.3	12.3	16.9	21.5
102.5°	11.3	11.3	11.3	12.3	13.3	15.9	18.4	23.0	27.6	34.3	40.9
105°	21.5	21.7	22.5	25.1	27.6	32.2	36.8	43.0	49.1	56.8	64.4
107.5°	41.9	42.1	43.0	46.5	50.1	54.7	59.3	67.0	74.7	82.3	90.0



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CATALOG NUMBER: ISW-AF-600-LED-E1-SLL-ULG

CANDELA DISTRIBUTION (continued):

	0°	1°	5°	10°	15°	20°	25°	30°	35°	40°	45°
110°	67.5	67.9	69.6	72.6	75.7	82.3	89.0	96.7	104.3	110.5	116.6
112.5°	101.3	101.3	101.3	104.9	108.4	116.1	123.8	130.4	137.1	141.7	146.3
115°	143.2	143.0	142.2	146.3	150.4	156.5	162.6	167.3	171.9	174.9	178.0
117.5°	188.2	188.2	188.2	190.8	193.3	197.4	201.5	204.1	206.6	208.2	209.7
120°	230.2	229.8	228.1	229.7	231.2	234.8	238.3	240.4	242.4	245.5	248.6
122.5°	269.0	268.4	266.0	266.5	267.0	270.1	273.1	275.2	277.2	280.3	283.4
125°	304.8	304.0	300.7	301.8	302.8	304.3	305.9	308.9	312.0	314.6	317.1
127.5°	337.6	337.4	336.6	336.6	336.6	338.6	340.6	343.7	346.8	347.3	347.8
130°	371.3	370.9	369.3	369.8	370.3	372.4	374.4	376.4	378.5	379.5	380.5
132.5°	405.1	404.7	403.0	402.5	402.0	406.1	410.2	411.7	413.3	413.8	414.3
135°	438.8	438.2	435.8	435.8	435.8	438.8	441.9	443.4	445.0	446.0	447.0
137.5°	470.6	469.9	467.5	468.5	469.5	470.0	470.6	472.6	474.6	476.7	478.7
140°	499.2	498.6	496.1	497.2	498.2	499.2	500.2	501.2	502.3	505.3	508.4
142.5°	529.9	529.3	526.8	527.8	528.9	529.4	529.9	531.4	533.0	535.0	537.0
145°	562.6	561.8	558.5	557.5	556.5	558.0	559.6	561.1	562.6	563.1	563.6
147.5°	588.2	587.6	585.1	584.6	584.1	585.6	587.2	587.2	587.2	587.7	588.2
150°	608.7	608.0	605.6	606.1	606.6	606.6	606.6	606.6	606.6	606.6	606.6
152.5°	625.0	624.4	622.0	622.0	622.0	622.5	623.0	623.5	624.0	624.0	624.0
155°	643.4	642.6	639.3	639.3	639.3	640.4	641.4	642.9	644.5	643.4	642.4
157.5°	660.8	660.2	657.8	657.8	657.8	658.3	658.8	659.8	660.8	660.3	659.8
160°	678.2	677.6	675.1	674.6	674.1	672.6	671.1	670.5	670.0	670.0	670.0
162.5°	688.4	687.6	684.4	684.4	684.4	682.3	680.3	678.2	676.2	677.2	678.2
165°	696.6	696.0	693.6	692.5	691.5	691.5	691.5	690.0	688.4	688.4	688.4
167.5°	705.8	705.2	702.8	701.2	699.7	700.7	701.7	702.8	703.8	702.3	700.7
170°	714.0	713.4	711.0	709.4	707.9	707.9	707.9	708.4	708.9	707.9	706.9
172.5°	715.0	714.6	713.0	712.0	711.0	709.9	708.9	707.4	705.8	705.8	705.8
175°	716.1	715.7	714.0	713.5	713.0	712.0	711.0	708.9	706.9	706.3	705.8
177.5°	723.2	722.8	721.2	718.6	716.1	715.6	715.0	714.0	713.0	712.0	711.0
180°	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	1192.7	1192.7	1192.7	1192.7	1192.7	1192.7	1192.7	1192.7	1192.7	1192.7	1192.7
2.5°	1336.7	1328.7	1333.6	1327.0	1316.0	1308.7	1300.2	1289.2	1276.5	1259.5	1242.5
5°	1413.8	1407.7	1392.5	1370.7	1340.3	1314.8	1284.4	1248.5	1218.7	1180.5	1144.7
7.5°	1420.5	1410.8	1382.8	1342.1	1295.4	1247.9	1212.1	1153.8	1116.1	1055.4	1014.7
10°	1359.7	1360.3	1332.4	1294.1	1245.5	1189.6	1137.9	1074.2	1018.9	956.9	888.8
12.5°	1270.4	1278.9	1280.1	1246.2	1198.7	1139.8	1082.1	1021.3	952.7	886.4	823.9
15°	1168.9	1193.3	1195.1	1186.6	1161.7	1111.8	1059.0	1004.3	934.5	862.1	791.7
17.5°	1078.4	1101.5	1122.8	1142.2	1143.5	1119.7	1087.5	1040.8	970.9	885.9	803.2
20°	1009.8	1034.7	1071.1	1106.9	1146.5	1158.6	1161.0	1131.3	1056.6	952.7	840.9
22.5°	981.2	1010.4	1047.4	1114.9	1184.8	1227.8	1252.2	1252.2	1173.8	1052.3	902.9
25°	975.2	998.8	1055.4	1139.2	1232.8	1308.0	1354.3	1385.3	1328.7	1180.5	979.4
27.5°	979.4	1011.6	1081.5	1167.1	1265.0	1361.5	1437.5	1491.6	1438.7	1267.9	1050.5
30°	996.5	1044.4	1116.8	1205.4	1306.3	1408.3	1500.1	1568.7	1529.8	1347.5	1117.9
32.5°	1026.2	1084.5	1166.6	1246.8	1347.0	1457.5	1548.0	1638.6	1610.0	1402.9	1153.8
35°	1070.5	1139.2	1213.9	1294.7	1390.7	1501.3	1597.8	1716.4	1706.1	1472.1	1189.6
37.5°	1142.2	1212.7	1281.3	1350.6	1441.7	1549.3	1669.6	1820.9	1812.4	1574.8	1247.3
40°	1268.6	1309.9	1360.9	1405.3	1491.0	1593.7	1722.4	1907.2	1937.6	1662.9	1298.3
42.5°	1425.4	1449.6	1464.3	1476.4	1520.1	1616.8	1760.7	1964.9	2014.7	1728.5	1337.8
45°	1625.3	1617.9	1588.7	1560.8	1556.0	1630.1	1778.3	2007.4	2075.5	1792.3	1377.9
47.5°	1861.6	1845.8	1766.2	1674.5	1623.4	1654.4	1809.3	2069.9	2150.1	1876.2	1427.7
50°	2134.4	2097.4	1967.3	1812.4	1718.1	1723.1	1887.8	2156.9	2248.5	1985.5	1520.7
52.5°	2387.2	2320.9	2166.0	1961.2	1826.4	1842.7	2028.6	2336.7	2450.3	2166.6	1676.9
55°	2610.1	2525.1	2358.0	2133.8	2011.6	2040.2	2254.1	2574.9	2682.4	2382.2	1834.9
57.5°	2799.6	2709.2	2544.5	2347.1	2195.2	2218.8	2455.2	2796.0	2868.4	2576.1	1986.2
59°	2885.9	2796.6	2644.7	2462.4	2320.3	2370.1	2597.4	2906.0	2937.0	2650.8	2043.9
60°	2927.9	2838.6	2704.9	2526.9	2396.9	2462.4	2672.7	2989.3	2962.5	2661.7	2065.7
62.5°	2924.8	2862.2	2774.1	2652.6	2629.0	2738.3	2917.6	3096.2	2980.1	2630.1	2079.7
65°	2684.8	2679.3	2624.7	2638.7	2737.7	2906.6	3016.6	3113.8	2943.6	2504.4	2012.2
67.5°	2239.4	2261.9	2269.2	2354.9	2586.4	2873.2	2969.7	2988.7	2785.1	2235.2	1802.6
70°	1729.1	1679.3	1761.3	1912.6	2246.2	2615.6	2752.9	2687.3	2460.6	1871.9	1472.1
72.5°	1224.3	1238.8	1356.7	1552.9	1892.6	2275.3	2490.4	2132.5	1851.2	1401.0	1043.8
75°	921.1	989.7	1046.8	1218.7	1537.2	1949.0	2126.5	1466.1	1206.1	966.1	682.9
77.5°	882.8	877.3	833.6	870.0	1108.2	1365.2	1517.1	915.0	755.2	631.9	412.6
80°	816.0	769.2	689.6	654.4	698.1	876.7	963.0	588.1	502.5	441.7	232.7
82.5°	633.1	601.5	517.6	515.3	582.1	622.8	662.3	416.8	377.9	357.8	142.8
85°	401.6	412.6	422.9	515.8	645.9	653.2	515.3	254.0	199.3	280.7	91.1
87.5°	119.1	193.8	235.2	399.2	582.1	583.9	387.6	83.3	74.8	87.5	52.9
90°	7.2	7.2	8.2	9.2	9.2	9.2	8.8	7.2	7.2	7.2	8.2
92.5°	6.6	7.2	7.2	7.2	6.6	6.1	6.1	6.1	6.1	6.1	6.1
95°	7.2	7.2	7.7	8.2	7.7	7.2	7.2	7.2	7.2	7.2	7.2
97.5°	10.7	12.3	11.3	10.2	9.7	9.2	8.7	8.2	8.2	8.2	8.7
100°	25.6	29.7	28.1	26.6	25.1	23.5	21.5	19.4	19.4	19.4	21.5
102.5°	46.0	51.1	49.6	48.1	45.5	43.0	41.4	39.9	38.9	39.9	41.4
105°	69.0	73.7	72.6	71.6	69.0	66.5	64.4	62.4	62.4	62.4	64.4
107.5°	93.6	97.2	96.7	96.2	94.1	92.1	90.5	89.0	88.0	89.0	90.5

REPORT NUMBER: P227145

CATALOG NUMBER: ISW-AF-600-LED-E1-SLL-ULG

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
110°	119.7	122.8	123.3	123.8	122.8	121.7	120.2	118.7	119.7	118.7	120.2
112.5°	148.8	151.4	152.4	153.4	152.9	152.4	151.4	150.4	150.4	150.4	151.4
115°	180.6	183.1	184.6	186.2	184.6	183.1	182.1	181.1	182.1	181.1	182.1
117.5°	212.8	215.8	217.9	219.9	217.4	214.8	213.8	212.8	213.8	212.8	213.8
120°	250.1	251.6	253.7	255.7	253.2	250.6	249.6	248.6	248.6	248.6	249.6
122.5°	284.4	285.4	287.4	289.5	286.9	284.4	283.4	282.3	283.4	282.3	283.4
125°	318.6	320.2	321.2	322.2	319.7	317.1	317.1	317.1	317.1	317.1	317.1
127.5°	350.4	352.9	353.4	353.9	353.9	353.9	353.4	352.9	355.0	352.9	353.4
130°	383.1	385.7	387.7	389.7	389.7	389.7	388.7	387.7	388.7	387.7	388.7
132.5°	417.4	420.4	423.0	425.5	424.5	423.5	423.5	423.5	424.5	423.5	423.5
135°	450.1	453.2	455.7	458.3	457.8	457.3	458.8	460.3	461.4	460.3	458.8
137.5°	481.3	483.9	484.9	485.9	486.4	486.9	489.5	492.0	493.1	492.0	489.5
140°	509.9	511.5	512.5	513.5	514.5	515.6	518.1	520.7	522.7	520.7	518.1
142.5°	538.1	539.1	542.2	545.2	545.2	545.2	545.7	546.3	548.3	546.3	545.7
145°	566.2	568.8	571.8	574.9	574.4	573.9	572.3	570.8	572.9	570.8	572.3
147.5°	590.8	593.3	595.9	598.4	598.9	599.4	597.9	596.4	598.4	596.4	597.9
150°	608.7	610.7	612.2	613.8	615.3	616.8	618.4	619.9	624.0	619.9	618.4
152.5°	624.5	625.0	626.6	628.1	630.1	632.2	634.7	637.3	642.4	637.3	634.7
155°	641.4	640.4	642.9	645.5	648.0	650.6	651.6	652.6	655.7	652.6	651.6
157.5°	659.3	658.8	660.8	662.9	663.9	664.9	664.9	664.9	670.0	664.9	664.9
160°	671.6	673.1	676.2	679.2	677.7	676.2	675.7	675.1	681.3	675.1	675.7
162.5°	680.3	682.3	684.4	686.4	685.9	685.4	684.4	683.3	689.5	683.3	684.4
165°	687.9	687.4	690.0	692.5	694.1	695.6	694.6	693.6	697.7	693.6	694.6
167.5°	697.1	693.6	696.6	699.7	701.7	703.8	703.8	703.8	709.9	703.8	703.8
170°	704.3	701.7	703.3	704.8	707.4	709.9	711.0	712.0	717.1	712.0	711.0
172.5°	705.3	704.8	706.3	707.9	708.9	709.9	711.0	712.0	717.1	712.0	711.0
175°	705.8	705.8	708.4	711.0	711.5	712.0	711.0	709.9	715.0	709.9	711.0
177.5°	710.4	709.9	712.5	715.0	716.1	717.1	715.6	714.0	718.1	714.0	715.6
180°	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1



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CATALOG NUMBER: ISW-AF-600-LED-E1-SLL-ULG

CANDELA DISTRIBUTION (continued):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	1192.7	1192.7	1192.7	1192.7	1192.7	1192.7	1192.7	1192.7	1192.7	1192.7	1192.7
2.5°	1224.9	1222.4	1205.4	1176.8	1179.3	1166.0	1148.9	1121.6	1116.1	1100.9	1098.4
5°	1114.3	1085.8	1048.6	1003.7	986.6	963.6	939.9	922.9	901.6	882.2	908.3
7.5°	966.6	924.7	881.6	834.2	806.8	769.2	749.1	710.2	681.7	676.2	653.8
10°	843.3	790.4	741.2	698.7	647.6	612.4	586.9	565.7	546.2	522.5	507.9
12.5°	761.3	701.7	649.5	596.6	572.3	543.2	527.3	507.3	479.4	459.3	439.9
15°	724.2	659.8	602.7	556.5	521.3	494.0	466.0	441.7	411.3	388.8	366.3
17.5°	719.3	635.6	563.2	511.6	473.3	443.6	406.4	374.3	337.2	312.3	293.5
20°	724.9	617.2	526.7	459.3	420.4	368.2	333.6	294.1	257.6	224.8	195.1
22.5°	746.7	607.5	490.9	416.8	359.1	299.5	262.5	212.1	181.1	149.5	137.9
25°	776.4	601.5	459.9	370.0	297.1	238.1	187.7	145.8	131.9	124.0	119.7
27.5°	808.0	590.5	425.3	326.8	247.2	175.5	140.3	122.8	117.2	113.0	110.0
30°	831.8	569.3	382.8	280.7	196.8	150.1	125.2	113.6	110.0	105.2	102.1
32.5°	842.1	536.4	344.5	236.9	165.8	128.8	109.4	102.7	99.0	94.8	93.0
35°	840.3	499.4	325.1	219.9	151.9	114.3	96.0	91.8	86.8	82.7	78.4
37.5°	842.1	465.4	309.9	215.6	145.8	103.3	87.5	84.5	80.8	76.5	72.9
40°	849.4	446.5	302.6	206.5	141.0	99.0	80.8	77.7	77.1	72.3	69.3
42.5°	852.4	448.4	298.9	193.8	128.8	97.8	80.8	74.2	74.2	70.5	66.8
45°	848.7	461.8	301.4	186.5	119.7	91.8	85.1	74.2	72.3	69.3	65.6
47.5°	859.7	471.5	301.4	185.3	113.6	85.6	80.8	81.4	73.6	69.9	64.4
50°	904.7	480.6	295.3	183.5	111.8	79.6	76.5	80.2	82.7	71.1	65.1
52.5°	984.3	492.1	288.6	180.4	109.4	74.8	71.1	75.3	84.5	74.8	65.1
55°	1065.7	512.8	284.4	175.5	105.7	71.7	64.4	72.3	77.1	74.2	64.4
57.5°	1152.6	535.3	280.1	164.1	97.2	68.6	62.0	63.2	69.3	71.7	62.6
59°	1178.6	546.2	276.4	155.5	89.9	66.2	60.1	58.3	62.0	68.6	61.4
60°	1197.5	546.8	272.2	148.2	85.6	65.1	58.9	56.5	57.7	70.5	62.0
62.5°	1199.3	546.2	258.8	133.1	77.1	62.6	57.1	54.1	52.9	58.9	63.2
65°	1124.0	520.7	234.6	125.2	77.7	60.1	54.1	51.7	49.2	50.4	54.7
67.5°	983.1	455.1	209.0	126.9	82.0	58.3	51.7	49.2	47.4	46.1	48.0
70°	743.7	377.9	201.7	131.2	85.6	57.1	48.0	45.5	44.4	43.8	43.8
72.5°	515.3	311.1	193.8	134.3	88.7	56.5	44.4	41.9	41.3	40.7	40.7
75°	331.7	226.0	160.4	114.3	80.8	51.7	40.1	37.6	37.0	36.4	37.0
77.5°	196.2	157.9	117.8	80.2	58.9	41.3	34.7	32.8	32.8	32.8	33.5
80°	108.7	93.6	78.4	51.7	41.9	31.0	28.5	26.7	26.7	27.3	28.5
82.5°	65.1	51.7	44.4	32.8	28.5	21.9	21.3	20.0	20.7	21.3	22.5
85°	42.6	32.8	26.7	21.9	19.4	14.0	12.2	12.8	13.4	14.6	15.1
87.5°	23.7	18.2	14.6	12.8	11.6	6.0	4.9	4.9	6.0	7.3	8.5
90°	9.2	9.2	9.2	8.2	7.2	7.2	7.2	7.7	8.2	8.2	8.2
92.5°	6.1	6.6	7.2	7.2	7.2	6.6	6.1	6.1	6.1	6.1	6.1
95°	7.2	7.7	8.2	7.7	7.2	7.2	7.2	7.2	7.2	7.2	7.2
97.5°	9.2	9.7	10.2	11.3	12.3	10.7	9.2	9.2	9.2	8.7	8.2
100°	23.5	25.1	26.6	28.1	29.7	25.6	21.5	16.9	12.3	11.3	10.2
102.5°	43.0	45.5	48.1	49.6	51.1	46.0	40.9	34.3	27.6	23.0	18.4
105°	66.5	69.0	71.6	72.6	73.7	69.0	64.4	56.8	49.1	43.0	36.8
107.5°	92.1	94.1	96.2	96.7	97.2	93.6	90.0	82.3	74.7	67.0	59.3



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REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	
110°	121.7	122.8	123.8	123.3	122.8	119.7	116.6	110.5	104.3	96.7	89.0	0°
112.5°	152.4	152.9	153.4	152.4	151.4	148.8	146.3	141.7	137.1	130.4	123.8	2.5°
115°	183.1	184.6	186.2	184.6	183.1	180.6	178.0	174.9	171.9	167.3	162.6	5°
117.5°	214.8	217.4	219.9	217.9	215.8	212.8	209.7	208.2	206.6	204.1	201.5	7.5°
120°	250.6	253.2	255.7	253.7	251.6	250.1	248.6	245.5	242.4	240.4	238.3	10°
122.5°	284.4	286.9	289.5	287.4	285.4	284.4	283.4	280.3	277.2	275.2	273.1	12.5°
125°	317.1	319.7	322.2	321.2	320.2	318.6	317.1	314.6	312.0	308.9	305.9	15°
127.5°	353.9	353.9	353.9	353.4	352.9	350.4	347.8	347.3	346.8	343.7	340.6	17.5°
130°	389.7	389.7	389.7	387.7	385.7	383.1	380.5	379.5	378.5	376.4	374.4	20°
132.5°	423.5	424.5	425.5	423.0	420.4	417.4	414.3	413.8	413.3	411.7	410.2	22.5°
135°	457.3	457.8	458.3	455.7	453.2	450.1	447.0	446.0	445.0	443.4	441.9	25°
137.5°	486.9	486.4	485.9	484.9	483.9	481.3	478.7	476.7	474.6	472.6	470.6	27.5°
140°	515.6	514.5	513.5	512.5	511.5	509.9	508.4	505.3	502.3	501.2	500.2	30°
142.5°	545.2	545.2	545.2	542.2	539.1	538.1	537.0	535.0	533.0	531.4	529.9	32.5°
145°	573.9	574.4	574.9	571.8	568.8	566.2	563.6	563.1	562.6	561.1	559.6	35°
147.5°	599.4	598.9	598.4	595.9	593.3	590.8	588.2	587.7	587.2	587.2	587.2	37.5°
150°	616.8	615.3	613.8	612.2	610.7	608.7	606.6	606.6	606.6	606.6	606.6	40°
152.5°	632.2	630.1	628.1	626.6	625.0	624.5	624.0	624.0	624.0	623.5	623.0	42.5°
155°	650.6	648.0	645.5	642.9	640.4	641.4	642.4	643.4	644.5	642.9	641.4	45°
157.5°	664.9	663.9	662.9	660.8	658.8	659.3	659.8	660.3	660.8	659.8	658.8	47.5°
160°	676.2	677.7	679.2	676.2	673.1	671.6	670.0	670.0	670.0	670.5	671.1	50°
162.5°	685.4	685.9	686.4	684.4	682.3	680.3	678.2	677.2	676.2	678.2	680.3	52.5°
165°	695.6	694.1	692.5	690.0	687.4	687.9	688.4	688.4	688.4	690.0	691.5	55°
167.5°	703.8	701.7	699.7	696.6	693.6	697.1	700.7	702.3	703.8	702.8	701.7	57.5°
170°	709.9	707.4	704.8	703.3	701.7	704.3	706.9	707.9	708.9	708.4	707.9	59°
172.5°	709.9	708.9	707.9	706.3	704.8	705.3	705.8	705.8	705.8	707.4	708.9	60°
175°	712.0	711.5	711.0	708.4	705.8	705.8	705.8	706.3	706.9	708.9	711.0	62.5°
177.5°	717.1	716.1	715.0	712.5	709.9	710.4	711.0	712.0	713.0	714.0	715.0	65°
180°	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	67.5°
												70°
												72.5°
												75°
												77.5°
												80°
												82.5°
												85°
												87.5°
												90°
												92.5°
												95°
												97.5°
												100°
												102.5°
												105°
												107.5°



NUMBER: P227145
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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°
1192.7	1192.7	1192.7	1192.7	1192.7	1192.7	1192.7	1192.7	1192.7	1192.7	1192.7	110°	82.3
1106.9	1089.3	1070.5	1056.6	1062.6	1042.6	1044.4	1038.9	1036.6	1035.3	1022.5	112.5°	116.1
876.7	883.4	855.5	858.5	867.0	846.3	832.4	855.5	852.4	831.8	843.3	115°	156.5
631.9	633.7	620.9	592.4	592.4	607.5	613.1	624.0	631.3	656.7	641.0	117.5°	197.4
483.0	466.0	453.3	440.5	433.2	418.0	421.7	435.1	443.6	458.1	469.6	120°	234.8
419.8	401.0	378.5	359.1	348.7	334.8	325.6	322.6	325.6	316.5	317.1	122.5°	270.1
348.7	331.7	306.8	296.5	277.0	266.1	260.0	252.2	246.0	233.3	227.8	125°	304.3
270.4	247.9	222.4	222.4	208.4	199.3	196.8	195.1	191.4	184.7	178.0	127.5°	338.6
179.8	165.3	150.7	143.4	144.6	143.4	139.7	145.8	145.8	148.2	147.0	130°	372.4
131.2	128.8	123.4	119.1	116.6	116.0	116.6	118.5	122.1	125.2	128.2	132.5°	406.1
117.8	116.6	111.8	107.5	106.9	105.7	105.7	107.5	108.1	108.7	108.1	135°	438.8
109.4	106.9	102.7	99.6	98.4	97.8	98.4	96.6	95.3	96.0	95.3	137.5°	470.0
99.0	97.2	93.0	90.5	89.9	89.9	88.1	87.5	86.2	86.8	86.2	140°	499.2
91.1	88.7	84.5	81.4	81.4	80.8	81.4	80.8	80.2	79.6	79.6	142.5°	529.4
76.5	75.9	71.7	70.5	71.1	72.9	72.9	72.9	73.6	72.9	72.9	145°	558.0
71.1	70.5	66.2	63.2	62.6	62.6	62.6	63.8	65.6	66.2	67.4	147.5°	585.6
67.4	66.8	62.6	60.1	58.9	58.3	57.7	57.7	58.3	60.8	62.6	150°	606.6
65.1	63.8	59.5	56.5	55.9	55.2	54.7	54.7	54.7	55.2	57.1	152.5°	622.5
63.8	62.0	57.1	54.1	52.9	52.3	52.3	52.9	52.3	52.3	52.3	155°	640.4
62.0	60.8	55.9	52.3	51.0	51.0	50.4	50.4	50.4	49.2	49.2	157.5°	658.3
61.4	59.5	54.7	51.0	49.8	49.2	48.6	49.2	48.0	47.4	46.7	160°	672.6
60.1	57.7	52.3	49.2	48.6	47.4	46.7	46.7	46.7	45.5	45.5	162.5°	682.3
59.5	56.5	51.0	48.0	46.7	45.5	45.0	45.0	46.1	45.0	45.0	165°	691.5
58.9	54.7	49.2	45.5	45.0	43.8	43.2	43.8	45.5	44.4	43.8	167.5°	700.7
56.5	53.5	48.0	45.0	43.8	42.6	41.9	42.6	43.8	43.8	43.8	170°	707.9
55.2	52.3	46.7	43.8	43.2	41.9	41.3	41.3	43.2	43.2	42.6	172.5°	709.9
53.5	51.0	45.5	41.9	40.7	40.7	40.1	40.1	40.7	40.7	41.3	175°	712.0
51.0	49.8	44.4	40.1	39.5	38.9	38.9	38.9	38.9	40.1	40.1	177.5°	715.6
48.6	48.0	42.6	38.9	37.6	37.6	37.6	37.6	37.6	38.3	38.9	180°	716.1
45.0	45.0	40.1	36.4	35.8	35.2	35.2	35.2	35.2	35.8	36.4		
41.3	41.9	37.0	33.5	32.8	32.8	32.8	32.8	33.5	33.5	34.1		
37.6	38.3	33.5	29.8	29.8	29.8	29.8	29.8	29.8	29.8	31.0		
34.1	34.1	28.5	25.0	25.5	26.1	26.7	26.1	26.1	26.7	28.5		
29.2	28.5	23.7	20.7	20.7	21.9	22.5	21.9	22.5	22.5	25.0		
23.1	23.1	18.2	15.1	15.1	17.6	17.6	17.6	18.2	18.8	20.7		
17.6	17.0	12.8	10.3	10.3	12.2	12.8	13.4	14.0	14.6	15.8		
10.3	10.3	6.6	4.3	4.9	5.4	7.3	7.3	7.3	8.5	10.3		
7.7	7.8	6.1	5.1	5.1	5.1	6.1	7.2	7.7	8.2	8.2		
5.6	5.1	4.6	4.1	4.1	4.1	4.6	5.1	5.6	6.1	6.1		
6.6	6.1	5.6	5.1	5.1	5.1	5.6	6.1	6.6	7.2	7.2		
8.2	8.2	7.7	7.2	7.2	7.2	7.7	8.2	8.2	8.2	8.7		
9.7	9.2	8.7	8.2	8.2	8.2	8.7	9.2	9.7	10.2	11.3		
15.9	13.3	12.3	11.3	11.3	11.3	12.3	13.3	15.9	18.4	23.0		
32.2	27.6	25.1	22.5	21.5	22.5	25.1	27.6	32.2	36.8	43.0		
54.7	50.1	46.5	43.0	41.9	43.0	46.5	50.1	54.7	59.3	67.0		

'227145
 ISW-AF-600-LED-E1-SLL-ULG

REPORT NUMBER: P227145
 CATALOG NUMBER: ISW-AF-61

TION (continued):

CANDELA DISTRIBUTION (con

165°	170°	175°	180°	185°	190°	195°	200°	205°	210°		215°	220°
75.7	72.6	69.6	67.5	69.6	72.6	75.7	82.3	89.0	96.7	0°	1192.7	1192.7
108.4	104.9	101.3	101.3	101.3	104.9	108.4	116.1	123.8	130.4	2.5°	1033.5	1032.9
150.4	146.3	142.2	143.2	142.2	146.3	150.4	156.5	162.6	167.3	5°	848.1	842.7
193.3	190.8	188.2	188.2	188.2	190.8	193.3	197.4	201.5	204.1	7.5°	657.3	677.4
231.2	229.7	228.1	230.2	228.1	229.7	231.2	234.8	238.3	240.4	10°	473.9	487.8
267.0	266.5	266.0	269.0	266.0	266.5	267.0	270.1	273.1	275.2	12.5°	329.9	337.2
302.8	301.8	300.7	304.8	300.7	301.8	302.8	304.3	305.9	308.9	15°	227.2	241.8
336.6	336.6	336.6	337.6	336.6	336.6	336.6	338.6	340.6	343.7	17.5°	176.8	178.6
370.3	369.8	369.3	371.3	369.3	369.8	370.3	372.4	374.4	376.4	20°	145.8	147.0
402.0	402.5	403.0	405.1	403.0	402.5	402.0	406.1	410.2	411.7	22.5°	129.4	131.9
435.8	435.8	435.8	438.8	435.8	435.8	435.8	438.8	441.9	443.4	25°	108.7	111.2
469.5	468.5	467.5	470.6	467.5	468.5	469.5	470.0	470.6	472.6	27.5°	96.0	98.4
498.2	497.2	496.1	499.2	496.1	497.2	498.2	499.2	500.2	501.2	30°	88.1	89.3
528.9	527.8	526.8	529.9	526.8	527.8	528.9	529.4	529.9	531.4	32.5°	80.2	80.2
556.5	557.5	558.5	562.6	558.5	557.5	556.5	558.0	559.6	561.1	35°	73.6	74.2
584.1	584.6	585.1	588.2	585.1	584.6	584.1	585.6	587.2	587.2	37.5°	68.6	69.9
606.6	606.1	605.6	608.7	605.6	606.1	606.6	606.6	606.6	606.6	40°	64.4	65.1
622.0	622.0	622.0	625.0	622.0	622.0	622.0	622.5	623.0	623.5	42.5°	58.3	59.5
639.3	639.3	639.3	643.4	639.3	639.3	639.3	640.4	641.4	642.9	45°	52.9	53.5
657.8	657.8	657.8	660.8	657.8	657.8	657.8	658.3	658.8	659.8	47.5°	49.2	49.2
674.1	674.6	675.1	678.2	675.1	674.6	674.1	672.6	671.1	670.5	50°	46.7	47.4
684.4	684.4	684.4	688.4	684.4	684.4	684.4	682.3	680.3	678.2	52.5°	45.5	46.1
691.5	692.5	693.6	696.6	693.6	692.5	691.5	691.5	691.5	690.0	55°	45.0	46.1
699.7	701.2	702.8	705.8	702.8	701.2	699.7	700.7	701.7	702.8	57.5°	45.0	45.5
707.9	709.4	711.0	714.0	711.0	709.4	707.9	707.9	707.9	708.4	59°	44.4	45.0
711.0	712.0	713.0	715.0	713.0	712.0	711.0	709.9	708.9	707.4	60°	44.4	45.5
713.0	713.5	714.0	716.1	714.0	713.5	713.0	712.0	711.0	708.9	62.5°	42.6	43.8
716.1	718.6	721.2	723.2	721.2	718.6	716.1	715.6	715.0	714.0	65°	41.3	42.6
716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	67.5°	39.5	41.3
										70°	37.6	39.5
										72.5°	35.2	37.6
										75°	32.8	34.7
										77.5°	29.8	31.6
										80°	26.1	26.7
										82.5°	21.9	21.9
										85°	16.4	14.6
										87.5°	9.1	9.7
										90°	8.2	7.7
										92.5°	6.1	6.1
										95°	7.2	7.2
										97.5°	9.2	9.2
										100°	12.3	16.9
										102.5°	27.6	34.3
										105°	49.1	56.8
										107.5°	74.7	82.3



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CATALOG NUMBER: ISW-AF-600-LED-E1-

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tinued):

CANDELA DISTRIBUTION (continued):

225°	230°	235°	240°	245°	250°	255°	260°	265°		215°	220°	225°
1192.7	1192.7	1192.7	1192.7	1192.7	1192.7	1192.7	1192.7	1192.7	110°	104.3	110.5	116.6
1020.1	1020.1	1038.3	1040.1	1018.9	1024.4	1034.7	1022.5	1035.9	112.5°	137.1	141.7	146.3
856.1	848.7	849.4	844.5	853.0	843.3	853.7	850.0	846.9	115°	171.9	174.9	178.0
664.7	677.4	668.3	650.7	664.7	653.8	633.1	634.9	611.8	117.5°	206.6	208.2	209.7
499.4	490.3	485.5	476.9	454.5	458.7	435.7	439.3	447.1	120°	242.4	245.5	248.6
344.5	337.8	345.7	340.2	331.1	333.0	337.8	342.7	355.5	122.5°	277.2	280.3	283.4
241.8	238.8	236.9	240.6	250.9	256.4	264.3	278.9	286.1	125°	312.0	314.6	317.1
181.7	182.3	180.4	185.9	194.5	198.7	200.5	201.7	210.2	127.5°	346.8	347.3	347.8
150.1	152.5	151.9	153.7	151.3	148.8	150.7	147.0	144.0	130°	378.5	379.5	380.5
131.2	131.9	128.8	128.2	124.6	121.5	119.1	119.1	117.8	132.5°	413.3	413.8	414.3
111.2	111.8	108.7	108.7	108.1	110.0	108.7	106.3	105.7	135°	445.0	446.0	447.0
99.6	98.4	96.6	96.6	95.3	95.3	96.0	96.6	96.0	137.5°	474.6	476.7	478.7
89.3	88.1	87.5	88.1	87.5	88.1	88.7	88.1	88.7	140°	502.3	505.3	508.4
82.0	80.8	80.8	81.4	80.8	81.4	81.4	81.4	80.8	142.5°	533.0	535.0	537.0
75.9	74.8	74.8	74.8	74.2	72.9	71.7	69.9	68.0	145°	562.6	563.1	563.6
71.1	70.5	69.3	68.6	66.8	63.2	62.0	62.0	62.0	147.5°	587.2	587.7	588.2
66.8	65.6	65.1	62.6	60.1	58.9	58.9	58.9	58.9	150°	606.6	606.6	606.6
61.4	59.5	58.3	57.7	57.1	57.1	56.5	56.5	56.5	152.5°	624.0	624.0	624.0
54.7	54.1	54.1	54.7	54.7	54.7	54.7	54.1	54.7	155°	644.5	643.4	642.4
50.4	50.4	51.0	51.7	52.3	52.9	53.5	52.9	53.5	157.5°	660.8	660.3	659.8
48.6	48.6	48.6	49.8	50.4	51.0	52.3	52.3	52.3	160°	670.0	670.0	670.0
47.4	47.4	48.0	48.6	49.2	49.8	50.4	51.0	51.7	162.5°	676.2	677.2	678.2
46.7	47.4	46.7	47.4	48.0	49.2	49.8	49.8	50.4	165°	688.4	688.4	688.4
46.7	46.7	46.7	46.7	48.0	48.6	48.0	48.6	49.2	167.5°	703.8	702.3	700.7
46.7	46.7	46.1	46.7	47.4	48.0	47.4	47.4	48.6	170°	708.9	707.9	706.9
46.1	46.7	46.1	46.1	46.7	47.4	46.7	47.4	48.0	172.5°	705.8	705.8	705.8
45.0	45.5	45.0	45.5	45.5	46.1	46.1	46.1	46.7	175°	706.9	706.3	705.8
43.8	43.8	43.8	44.4	44.4	45.0	45.0	45.5	45.0	177.5°	713.0	712.0	711.0
42.6	42.6	42.6	43.2	43.2	43.8	44.4	43.8	43.8	180°	716.1	716.1	716.1
41.3	40.7	40.1	40.7	41.3	41.3	41.9	41.3	41.9				
39.5	38.9	38.3	38.3	38.9	38.9	39.5	38.9	38.9				
36.4	36.4	35.2	35.2	35.2	35.2	35.8	35.2	34.7				
32.8	32.8	31.6	31.6	31.6	31.6	31.0	31.0	31.0				
27.3	27.9	27.9	27.3	27.3	26.7	26.7	26.1	25.5				
20.7	21.9	22.5	22.5	22.5	22.5	22.5	21.3	20.0				
14.6	16.4	18.2	18.2	17.6	17.6	17.6	15.8	14.0				
9.1	10.9	11.6	12.8	10.9	10.3	10.3	9.1	8.5				
7.2	7.2	8.4	8.8	11.0	11.0	11.7	9.4	7.8				
6.1	6.6	7.2	7.2	7.2	6.6	6.1	6.1	6.1				
7.2	7.2	7.2	7.7	8.2	7.7	7.2	7.2	7.2				
9.2	10.7	12.3	11.3	10.2	9.7	9.2	8.7	8.2				
21.5	25.6	29.7	28.1	26.6	25.1	23.5	21.5	19.4				
40.9	46.0	51.1	49.6	48.1	45.5	43.0	41.4	39.9				
64.4	69.0	73.7	72.6	71.6	69.0	66.5	64.4	62.4				
90.0	93.6	97.2	96.7	96.2	94.1	92.1	90.5	89.0				

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CATALOG NUMBER: ISW-AF-600-LED-E1-SLL-ULG

SLL-ULG

CANDELA DISTRIBUTION (continued):

230°	235°	240°	245°	250°	255°	260°	265°		270°	275°	280°	285°
119.7	122.8	123.3	123.8	122.8	121.7	120.2	118.7	0°	1192.7	1192.7	1192.7	1192.7
148.8	151.4	152.4	153.4	152.9	152.4	151.4	150.4	2.5°	1024.4	1046.8	1049.9	1052.9
180.6	183.1	184.6	186.2	184.6	183.1	182.1	181.1	5°	842.1	864.6	851.8	857.2
212.8	215.8	217.9	219.9	217.4	214.8	213.8	212.8	7.5°	614.9	600.3	619.1	630.6
250.1	251.6	253.7	255.7	253.2	250.6	249.6	248.6	10°	449.0	466.0	473.3	486.6
284.4	285.4	287.4	289.5	286.9	284.4	283.4	282.3	12.5°	372.5	383.4	396.7	418.0
318.6	320.2	321.2	322.2	319.7	317.1	317.1	317.1	15°	302.0	309.9	326.8	347.5
350.4	352.9	353.4	353.9	353.9	353.9	353.4	352.9	17.5°	219.9	231.5	242.4	259.4
383.1	385.7	387.7	389.7	389.7	389.7	388.7	387.7	20°	147.6	152.5	165.8	173.8
417.4	420.4	423.0	425.5	424.5	423.5	423.5	423.5	22.5°	118.5	120.3	122.8	129.4
450.1	453.2	455.7	458.3	457.8	457.3	458.8	460.3	25°	106.3	107.5	109.4	111.8
481.3	483.9	484.9	485.9	486.4	486.9	489.5	492.0	27.5°	96.6	97.2	99.0	100.2
509.9	511.5	512.5	513.5	514.5	515.6	518.1	520.7	30°	88.1	87.5	88.1	89.9
538.1	539.1	542.2	545.2	545.2	545.2	545.7	546.3	32.5°	79.0	79.0	80.2	80.2
566.2	568.8	571.8	574.9	574.4	573.9	572.3	570.8	35°	68.0	67.4	68.6	70.5
590.8	593.3	595.9	598.4	598.9	599.4	597.9	596.4	37.5°	62.6	63.2	64.4	65.6
608.7	610.7	612.2	613.8	615.3	616.8	618.4	619.9	40°	59.5	60.1	61.4	62.6
624.5	625.0	626.6	628.1	630.1	632.2	634.7	637.3	42.5°	56.5	57.7	58.9	60.8
641.4	640.4	642.9	645.5	648.0	650.6	651.6	652.6	45°	54.7	55.9	57.7	59.5
659.3	658.8	660.8	662.9	663.9	664.9	664.9	664.9	47.5°	54.1	55.2	57.1	59.5
671.6	673.1	676.2	679.2	677.7	676.2	675.7	675.1	50°	52.9	54.7	56.5	58.9
680.3	682.3	684.4	686.4	685.9	685.4	684.4	683.3	52.5°	52.9	54.1	55.9	58.9
687.9	687.4	690.0	692.5	694.1	695.6	694.6	693.6	55°	51.0	52.9	54.7	57.7
697.1	693.6	696.6	699.7	701.7	703.8	703.8	703.8	57.5°	49.8	51.0	53.5	57.1
704.3	701.7	703.3	704.8	707.4	709.9	711.0	712.0	59°	49.2	50.4	52.9	56.5
705.3	704.8	706.3	707.9	708.9	709.9	711.0	712.0	60°	48.0	49.8	52.3	55.9
705.8	705.8	708.4	711.0	711.5	712.0	711.0	709.9	62.5°	46.7	48.6	51.0	54.7
710.4	709.9	712.5	715.0	716.1	717.1	715.6	714.0	65°	45.0	47.4	49.8	52.3
716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	67.5°	43.8	45.0	47.4	49.8
								70°	41.3	42.6	44.4	46.1
								72.5°	38.3	38.9	40.1	41.9
								75°	34.1	34.7	35.2	37.0
								77.5°	29.8	29.8	30.4	32.8
								80°	25.0	25.0	25.5	26.7
								82.5°	18.8	18.8	20.0	21.9
								85°	13.4	12.8	14.6	15.8
								87.5°	7.9	7.3	7.9	7.9
								90°	7.8	9.0	9.4	10.4
								92.5°	6.1	6.1	6.1	6.1
								95°	7.2	7.2	7.2	7.2
								97.5°	8.2	8.2	8.7	9.2
								100°	19.4	19.4	21.5	23.5
								102.5°	38.9	39.9	41.4	43.0
								105°	62.4	62.4	64.4	66.5
								107.5°	88.0	89.0	90.5	92.1



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CATALOG NUMBER: ISW-AF-600-LED-E1-SLL-ULG

CANDELA DISTRIBUTION (continued):

290°	295°	300°	305°	310°	315°	320°		270°	275°	280°	285°	290°
1192.7	1192.7	1192.7	1192.7	1192.7	1192.7	1192.7	110°	119.7	118.7	120.2	121.7	122.8
1065.1	1059.0	1063.9	1082.7	1089.3	1097.8	1126.5	112.5°	150.4	150.4	151.4	152.4	152.9
870.6	878.5	870.6	908.9	910.7	936.3	946.5	115°	182.1	181.1	182.1	183.1	184.6
639.8	650.1	667.1	692.6	699.9	736.3	767.3	117.5°	213.8	212.8	213.8	214.8	217.4
499.4	512.8	536.4	552.3	568.0	589.3	614.3	120°	248.6	248.6	249.6	250.6	253.2
443.6	457.5	478.1	498.2	520.7	537.0	557.7	122.5°	283.4	282.3	283.4	284.4	286.9
370.6	392.5	412.6	438.6	457.5	487.2	511.6	125°	317.1	317.1	317.1	317.1	319.7
283.2	313.5	333.6	365.2	393.7	419.8	452.7	127.5°	355.0	352.9	353.4	353.9	353.9
196.8	220.5	246.0	280.1	317.1	353.0	396.7	130°	388.7	387.7	388.7	389.7	389.7
135.4	148.2	167.7	203.0	241.2	292.9	340.2	132.5°	424.5	423.5	423.5	423.5	424.5
115.4	120.3	127.6	144.6	176.8	233.3	285.5	135°	461.4	460.3	458.8	457.3	457.8
102.7	106.3	111.2	119.7	136.7	175.5	233.3	137.5°	493.1	492.0	489.5	486.9	486.4
94.2	98.4	103.3	109.4	118.5	145.3	188.3	140°	522.7	520.7	518.1	515.6	514.5
82.7	85.6	89.9	96.6	103.3	124.6	166.4	142.5°	548.3	546.3	545.7	545.2	545.2
72.9	76.5	82.0	86.8	93.6	110.6	151.3	145°	572.9	570.8	572.3	573.9	574.4
68.0	71.7	76.5	80.8	85.6	99.6	140.3	147.5°	598.4	596.4	597.9	599.4	598.9
65.1	68.6	73.6	77.1	80.2	96.0	136.1	150°	624.0	619.9	618.4	616.8	615.3
63.2	67.4	71.7	74.2	80.2	97.8	125.7	152.5°	642.4	637.3	634.7	632.2	630.1
62.6	66.8	71.7	75.9	88.1	92.4	119.1	155°	655.7	652.6	651.6	650.6	648.0
63.2	66.8	72.9	85.1	85.6	87.5	111.8	157.5°	670.0	664.9	664.9	664.9	663.9
63.2	68.6	81.4	88.7	81.4	82.7	105.2	160°	681.3	675.1	675.7	676.2	677.7
63.8	71.1	84.5	82.7	79.0	77.1	97.8	162.5°	689.5	683.3	684.4	685.4	685.9
63.8	69.9	80.8	77.7	72.9	73.6	89.3	165°	697.7	693.6	694.6	695.6	694.1
62.0	69.9	77.7	70.5	66.8	69.9	82.0	167.5°	709.9	703.8	703.8	703.8	701.7
60.8	71.7	69.3	65.1	65.1	68.0	78.4	170°	717.1	712.0	711.0	709.9	707.4
60.1	73.6	65.6	63.2	63.2	67.4	76.5	172.5°	717.1	712.0	711.0	709.9	708.9
58.3	68.6	60.1	58.9	60.8	63.8	74.2	175°	715.0	709.9	711.0	712.0	711.5
54.7	57.1	55.2	55.2	57.7	61.4	72.9	177.5°	718.1	714.0	715.6	717.1	716.1
50.4	51.7	51.7	52.3	54.7	57.7	74.2	180°	716.1	716.1	716.1	716.1	716.1
46.7	46.7	48.0	48.6	50.4	54.7	71.1						
42.6	43.2	43.2	44.4	45.5	49.8	68.6						
37.6	37.6	38.9	38.9	40.7	45.0	61.4						
32.8	32.8	32.8	33.5	34.7	38.9	50.4						
27.3	27.3	27.3	27.9	28.5	32.2	38.3						
21.9	21.3	20.7	20.7	21.9	25.0	29.8						
15.1	15.1	14.6	14.6	14.6	16.4	20.0						
8.5	7.3	7.9	8.5	7.9	9.1	10.9						
9.8	10.4	10.0	9.6	9.6	9.6	11.4						
6.6	7.2	7.2	7.2	6.6	6.1	6.1						
7.7	8.2	7.7	7.2	7.2	7.2	7.2						
9.7	10.2	11.3	12.3	10.7	9.2	9.2						
25.1	26.6	28.1	29.7	25.6	21.5	16.9						
45.5	48.1	49.6	51.1	46.0	40.9	34.3						
69.0	71.6	72.6	73.7	69.0	64.4	56.8						
94.1	96.2	96.7	97.2	93.6	90.0	82.3						



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CANDELA DISTRIBUTION (continued):

295°	300°	305°	310°	315°	320°		325°	330°	335°	340°	345°	350°
123.8	123.3	122.8	119.7	116.6	110.5	0°	1192.7	1192.7	1192.7	1192.7	1192.7	1192.7
153.4	152.4	151.4	148.8	146.3	141.7	2.5°	1122.8	1138.5	1163.5	1168.3	1188.4	1202.4
186.2	184.6	183.1	180.6	178.0	174.9	5°	951.4	989.1	1002.5	1028.6	1074.2	1097.2
219.9	217.9	215.8	212.8	209.7	208.2	7.5°	785.0	813.6	845.8	887.6	921.1	960.6
255.7	253.7	251.6	250.1	248.6	245.5	10°	645.9	686.5	728.4	762.5	809.3	856.6
289.5	287.4	285.4	284.4	283.4	280.3	12.5°	573.6	596.0	637.3	685.4	743.7	796.5
322.2	321.2	320.2	318.6	317.1	314.6	15°	535.8	562.6	606.9	658.0	720.0	785.6
353.9	353.4	352.9	350.4	347.8	347.3	17.5°	489.1	531.6	582.1	655.0	735.2	826.3
389.7	387.7	385.7	383.1	380.5	379.5	20°	442.9	494.6	560.8	656.7	767.9	886.4
425.5	423.0	420.4	417.4	414.3	413.8	22.5°	402.2	463.6	547.4	667.7	809.9	967.8
458.3	455.7	453.2	450.1	447.0	446.0	25°	354.2	436.2	537.0	690.2	874.3	1077.2
485.9	484.9	483.9	481.3	478.7	476.7	27.5°	315.9	410.1	521.9	709.6	933.2	1182.3
513.5	512.5	511.5	509.9	508.4	505.3	30°	273.4	379.7	500.6	716.3	1004.9	1268.6
545.2	542.2	539.1	538.1	537.0	535.0	32.5°	239.4	351.2	476.3	710.2	1037.1	1328.7
574.9	571.8	568.8	566.2	563.6	563.1	35°	223.0	330.5	455.7	689.0	1063.9	1393.8
598.4	595.9	593.3	590.8	588.2	587.7	37.5°	212.1	308.0	435.7	653.8	1094.3	1458.1
613.8	612.2	610.7	608.7	606.6	606.6	40°	198.0	290.4	419.2	628.2	1117.9	1511.6
628.1	626.6	625.0	624.5	624.0	624.0	42.5°	185.3	274.7	406.4	605.8	1124.0	1559.6
645.5	642.9	640.4	641.4	642.4	643.4	45°	174.4	264.9	396.7	606.9	1128.2	1626.5
662.9	660.8	658.8	659.3	659.8	660.3	47.5°	165.8	255.7	393.1	627.6	1173.2	1719.4
679.2	676.2	673.1	671.6	670.0	670.0	50°	157.9	247.9	387.0	667.7	1245.5	1845.2
686.4	684.4	682.3	680.3	678.2	677.2	52.5°	148.8	236.9	379.1	709.0	1324.5	2013.5
692.5	690.0	687.4	687.9	688.4	688.4	55°	136.7	222.4	370.6	743.7	1432.0	2218.3
699.7	696.6	693.6	697.1	700.7	702.3	57.5°	117.8	205.3	365.2	761.3	1498.2	2336.1
704.8	703.3	701.7	704.3	706.9	707.9	59°	108.1	188.9	362.1	752.8	1515.9	2356.2
707.9	706.3	704.8	705.3	705.8	705.8	60°	102.7	179.2	357.2	742.5	1520.7	2343.4
711.0	708.4	705.8	705.8	705.8	706.3	62.5°	95.3	156.1	337.2	690.8	1452.7	2189.0
715.0	712.5	709.9	710.4	711.0	712.0	65°	97.2	147.6	291.6	588.1	1296.6	1887.8
716.1	716.1	716.1	716.1	716.1	716.1	67.5°	99.6	144.0	252.2	475.2	1033.5	1562.0
						70°	97.8	142.2	229.0	377.9	774.1	1169.5
						72.5°	95.3	134.3	198.7	303.8	490.9	819.0
						75°	84.5	113.0	156.1	208.4	309.9	596.6
						77.5°	66.2	86.8	110.6	129.4	157.3	421.0
						80°	48.6	63.2	72.3	77.7	87.5	287.3
						82.5°	34.7	42.6	46.1	49.2	58.3	215.1
						85°	26.1	29.8	32.2	32.2	39.5	151.9
						87.5°	14.6	15.1	15.1	16.4	19.4	41.3
						90°	12.5	12.5	11.9	12.0	10.2	8.6
						92.5°	6.1	6.1	6.1	5.6	5.1	4.6
						95°	7.2	7.2	7.2	6.6	6.1	5.6
						97.5°	9.2	8.7	8.2	8.2	8.2	7.7
						100°	12.3	11.3	10.2	9.7	9.2	8.7
						102.5°	27.6	23.0	18.4	15.9	13.3	12.3
						105°	49.1	43.0	36.8	32.2	27.6	25.1
						107.5°	74.7	67.0	59.3	54.7	50.1	46.5



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CANDELA DISTRIBUTION (continued):

355°	359°	360°		325°	330°	335°	340°	345°	350°	355°
1192.7	1192.7	1192.7	110°	104.3	96.7	89.0	82.3	75.7	72.6	69.6
1218.1	1227.2	1234.6	112.5°	137.1	130.4	123.8	116.1	108.4	104.9	101.3
1132.5	1155.0	1159.2	115°	171.9	167.3	162.6	156.5	150.4	146.3	142.2
1004.3	1040.8	1053.5	117.5°	206.6	204.1	201.5	197.4	193.3	190.8	188.2
910.1	949.6	963.0	120°	242.4	240.4	238.3	234.8	231.2	229.7	228.1
858.5	904.7	919.2	122.5°	277.2	275.2	273.1	270.1	267.0	266.5	266.0
859.7	915.0	936.3	125°	312.0	308.9	305.9	304.3	302.8	301.8	300.7
915.6	978.8	1004.9	127.5°	346.8	343.7	340.6	338.6	336.6	336.6	336.6
1011.6	1103.4	1122.8	130°	378.5	376.4	374.4	372.4	370.3	369.8	369.3
1141.6	1231.5	1260.7	132.5°	413.3	411.7	410.2	406.1	402.0	402.5	403.0
1263.8	1382.8	1405.3	135°	445.0	443.4	441.9	438.8	435.8	435.8	435.8
1384.1	1501.9	1521.9	137.5°	474.6	472.6	470.6	470.0	469.5	468.5	467.5
1477.0	1600.3	1617.4	140°	502.3	501.2	500.2	499.2	498.2	497.2	496.1
1566.3	1705.5	1724.3	142.5°	533.0	531.4	529.9	529.4	528.9	527.8	526.8
1666.0	1819.6	1841.5	145°	562.6	561.1	559.6	558.0	556.5	557.5	558.5
1755.9	1932.0	1946.1	147.5°	587.2	587.2	587.2	585.6	584.1	584.6	585.1
1855.5	2023.8	2027.5	150°	606.6	606.6	606.6	606.6	606.6	606.1	605.6
1937.0	2091.8	2093.1	152.5°	624.0	623.5	623.0	622.5	622.0	622.0	622.0
2015.9	2155.7	2156.3	155°	644.5	642.9	641.4	640.4	639.3	639.3	639.3
2098.5	2225.5	2216.4	157.5°	660.8	659.8	658.8	658.3	657.8	657.8	657.8
2229.1	2308.2	2317.3	160°	670.0	670.5	671.1	672.6	674.1	674.6	675.1
2427.9	2498.4	2508.7	162.5°	676.2	678.2	680.3	682.3	684.4	684.4	684.4
2658.8	2756.5	2742.5	165°	688.4	690.0	691.5	691.5	691.5	692.5	693.6
2756.5	2868.4	2879.8	167.5°	703.8	702.8	701.7	700.7	699.7	701.2	702.8
2740.1	2892.6	2912.0	170°	708.9	708.4	707.9	707.9	707.9	709.4	711.0
2714.0	2885.3	2909.1	172.5°	705.8	707.4	708.9	709.9	711.0	712.0	713.0
2565.8	2809.4	2846.5	175°	706.9	708.9	711.0	712.0	713.0	713.5	714.0
2316.7	2652.0	2704.3	177.5°	713.0	714.0	715.0	715.6	716.1	718.6	721.2
1996.5	2416.9	2458.9	180°	716.1	716.1	716.1	716.1	716.1	716.1	716.1
1557.7	1964.3	2000.1								
1035.3	1348.8	1410.8								
658.0	870.0	858.5								
485.5	565.7	566.2								
352.4	388.2	384.0								
272.8	236.9	236.3								
95.3	83.9	82.0								
41.3	34.7	35.2								
7.0	7.0	7.6								
4.1	4.1	4.1								
5.1	5.1	5.1								
7.2	7.2	7.2								
8.2	8.2	8.2								
11.3	11.3	11.3								
22.5	21.7	21.5								
43.0	42.1	41.9								



359°	360°
67.9	67.5
101.3	101.3
143.0	143.2
188.2	188.2
229.8	230.2
268.4	269.0
304.0	304.8
337.4	337.6
370.9	371.3
404.7	405.1
438.2	438.8
469.9	470.6
498.6	499.2
529.3	529.9
561.8	562.6
587.6	588.2
608.0	608.7
624.4	625.0
642.6	643.4
660.2	660.8
677.6	678.2
687.6	688.4
696.0	696.6
705.2	705.8
713.4	714.0
714.6	715.0
715.7	716.1
722.8	723.2
716.1	716.1

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