

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: P227143

Luminaire Tested: **ISW-AF-800-LED-E1-SLL-7050-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P227143
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-7050-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) 5000K CCT, 70 CRI LEDs and (1) UPLIGHT LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6153.8 lumens
Efficiency: N/A
Efficacy: 102.2 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

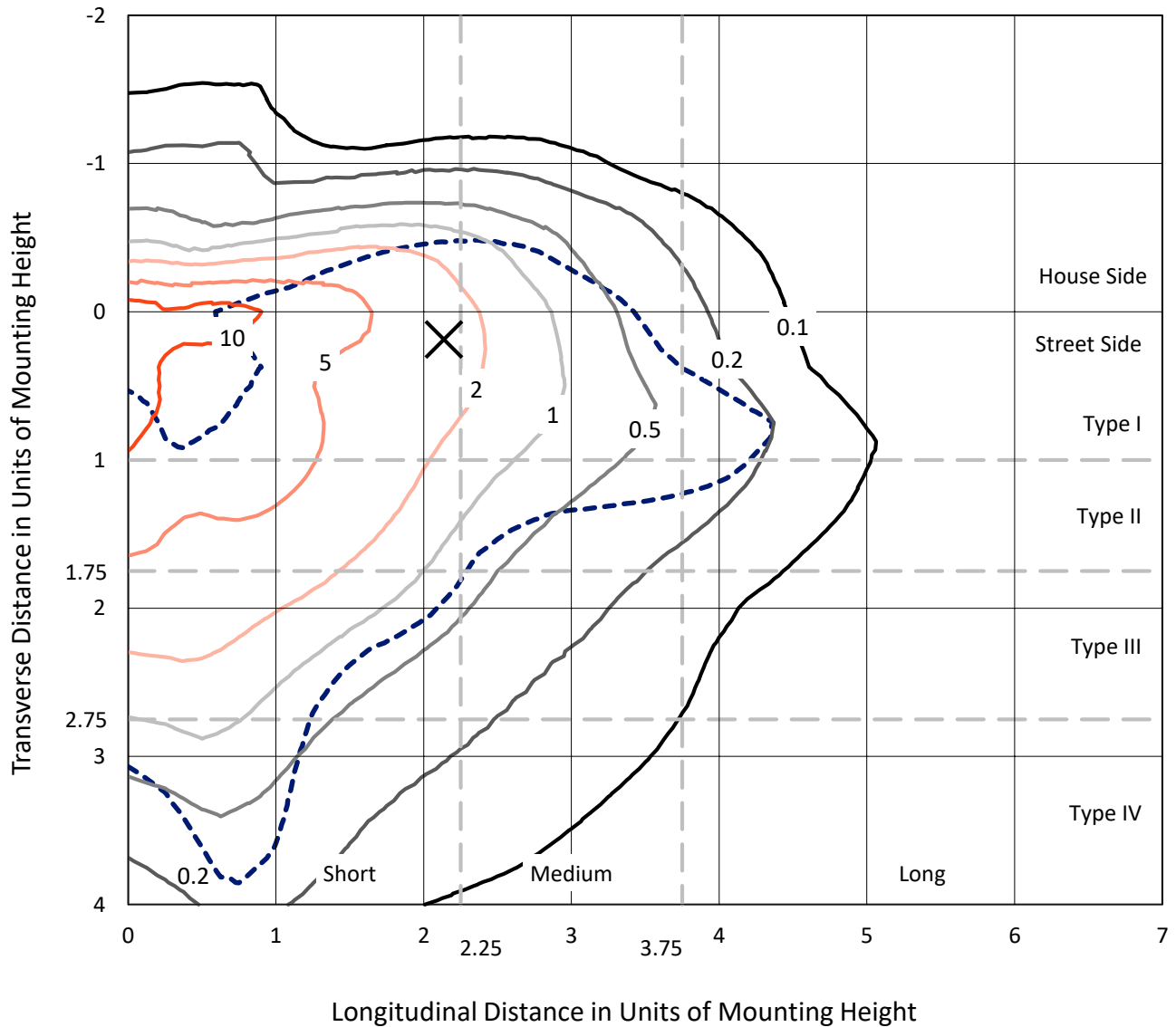


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Iso-Footcandle Lines of Horizontal Illumination

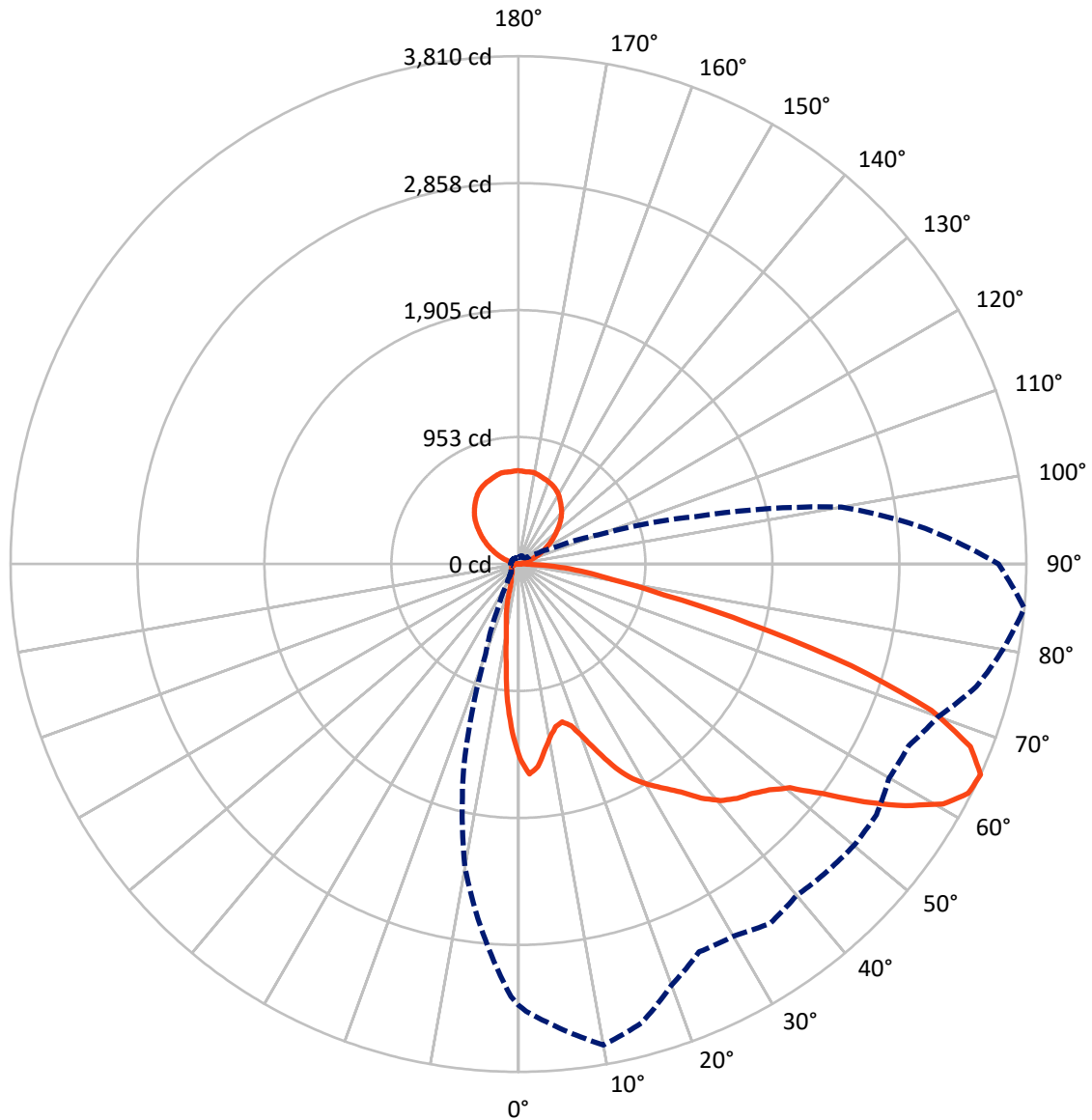
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16 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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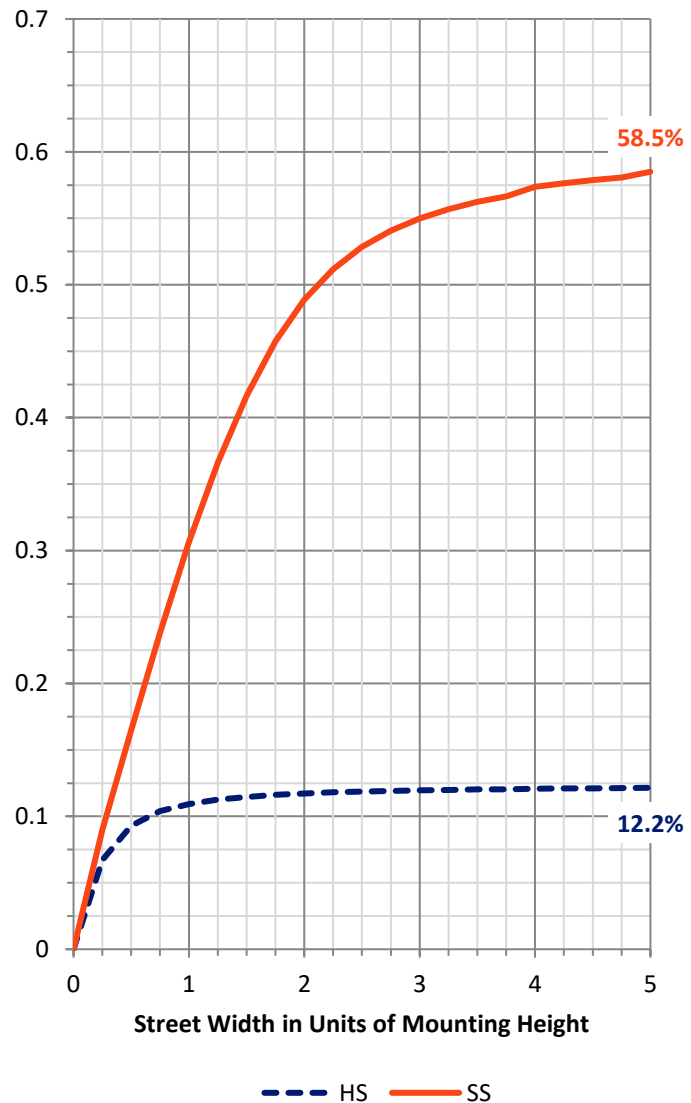
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	758.3	867.6	1625.9
	% Fixture	12.3	14.1	26.4
Street Side	Lumens	3660.2	867.7	4528.0
	% Fixture	59.5	14.1	73.6
Total	Lumens	4418.5	1735.3	6153.8
	% Fixture	71.8	28.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.1	1.8
10°-20°	208.0	3.4
20°-30°	296.7	4.8
30°-40°	430.4	7.0
40°-50°	615.7	10.0
50°-60°	945.3	15.4
60°-70°	1094.1	17.8
70°-80°	558.2	9.1
80°-90°	162.1	2.6
90°-100°	9.5	0.2
100°-110°	57.4	0.9
110°-120°	166.1	2.7
120°-130°	273.2	4.4
130°-140°	336.8	5.5
140°-150°	344.6	5.6
150°-160°	290.3	4.7
160°-170°	191.2	3.1
170°-180°	66.3	1.1
0°-90°	4418.5	71.8
0°-180°	6153.8	100.0

Coefficient of Utilization



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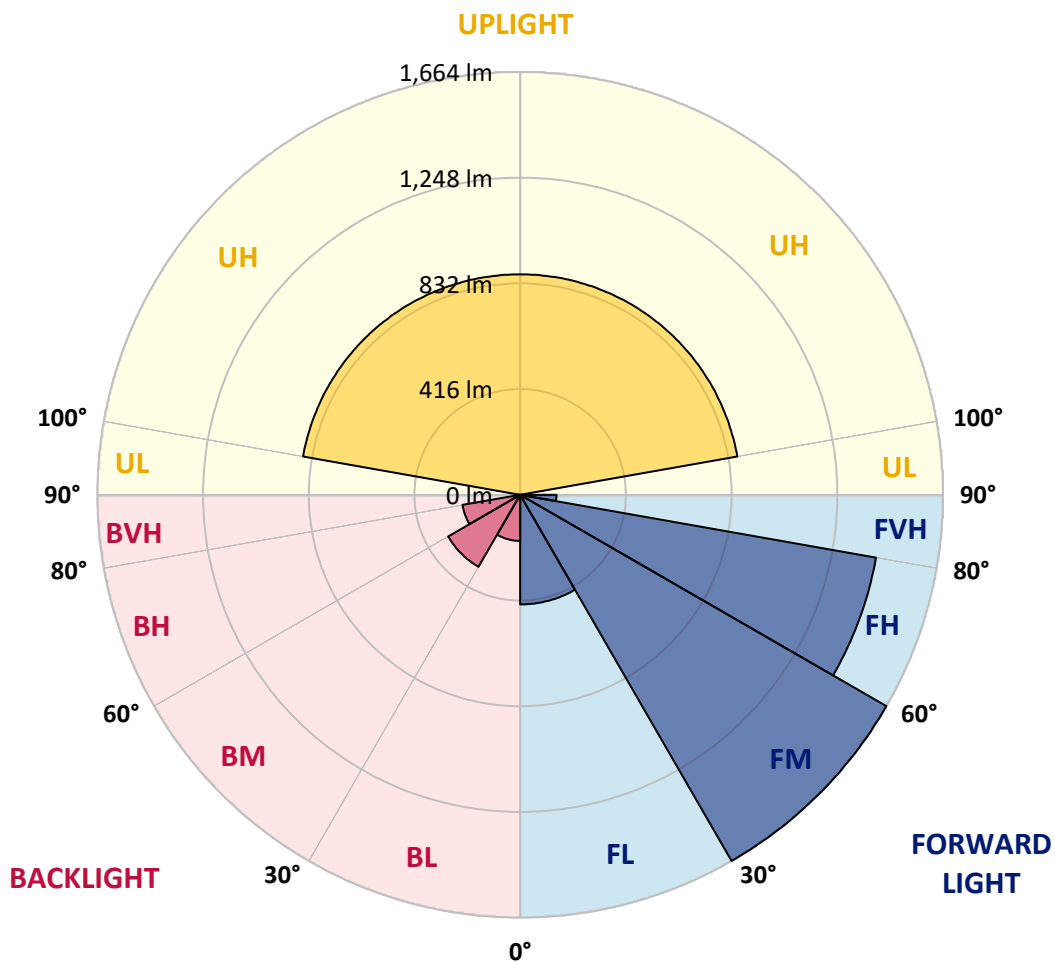
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	431.4	7.0			
FM (30°-60°)	1664.1	27.0			
FH (60°-80°)	1421.8	23.1			G1/1800
FVH (80°-90°)	142.9	2.3			G2/225
BL (0°-30°)	181.4	2.9	B1/500		
BM (30°-60°)	327.2	5.3	B1/1000		
BH (60°-80°)	230.5	3.7	B1/500		G1/500
BVH (80°-90°)	19.2	0.3			G1/100
UL (90°-100°)	9.5	0.2		U1/10	
UH (100°-180°)	867.6	14.1		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°	1459.4	1459.4	1459.4	1459.4	1459.4	1459.4	1459.4	1459.4	1459.4	1459.4	1459.4
2.5°	1510.7	1512.2	1533.0	1553.1	1578.4	1574.7	1595.5	1611.1	1625.2	1627.5	1637.9
5°	1418.5	1433.4	1480.2	1520.4	1570.9	1610.4	1652.7	1686.2	1710.7	1733.8	1736.7
7.5°	1289.2	1300.3	1354.6	1417.8	1490.7	1542.7	1606.6	1662.4	1701.8	1739.0	1747.2
10°	1178.4	1188.8	1249.0	1330.8	1394.7	1462.4	1528.6	1573.9	1625.2	1657.2	1672.8
12.5°	1124.9	1137.5	1194.8	1269.1	1334.5	1400.0	1449.8	1489.2	1518.2	1524.1	1528.6
15°	1145.7	1152.4	1215.6	1281.7	1333.8	1366.5	1379.9	1403.7	1401.4	1413.3	1415.6
17.5°	1229.7	1226.7	1293.6	1339.7	1365.0	1361.3	1340.5	1327.8	1305.5	1298.8	1318.2
20°	1373.9	1384.3	1427.5	1455.7	1429.7	1369.5	1312.2	1272.8	1241.6	1231.2	1229.0
22.5°	1542.7	1556.1	1602.9	1588.0	1521.9	1411.8	1307.8	1244.6	1205.9	1194.8	1190.3
25°	1719.6	1728.6	1752.4	1701.8	1608.9	1466.1	1339.0	1250.5	1199.2	1182.9	1180.6
27.5°	1862.4	1871.3	1860.2	1802.2	1667.6	1527.1	1382.1	1277.3	1210.4	1194.0	1186.6
30°	1979.1	1983.6	1946.4	1874.3	1740.5	1594.7	1438.6	1324.1	1246.1	1208.9	1203.7
32.5°	2110.0	2107.0	2034.9	1935.2	1802.2	1655.7	1503.3	1376.9	1280.3	1234.9	1226.7
35°	2253.5	2227.4	2100.3	1995.5	1844.5	1702.5	1562.0	1432.7	1335.3	1275.0	1264.6
37.5°	2381.3	2354.6	2184.3	2043.1	1886.9	1739.0	1608.1	1504.8	1419.3	1364.3	1359.8
40°	2481.0	2448.2	2248.2	2075.0	1907.7	1765.7	1662.4	1595.5	1539.0	1494.4	1494.4
42.5°	2561.3	2525.6	2310.7	2112.2	1926.3	1806.6	1753.1	1730.1	1718.2	1693.6	1702.5
45°	2638.6	2602.1	2362.0	2136.0	1968.0	1886.2	1893.6	1913.7	1949.4	1935.2	1947.9
47.5°	2712.2	2676.5	2420.0	2173.9	2048.3	2028.9	2067.6	2147.9	2217.8	2272.8	2311.4
50°	2835.6	2793.2	2524.1	2285.4	2174.6	2184.3	2295.8	2453.4	2567.2	2617.8	2614.8
52.5°	3069.8	3009.6	2747.9	2493.6	2355.3	2408.8	2540.4	2738.9	2887.6	2927.0	2942.6
55°	3356.0	3308.4	3071.3	2769.4	2669.1	2687.6	2851.2	3075.7	3190.2	3231.1	3244.5
57.5°	3524.0	3511.4	3362.7	3064.6	2967.2	2959.7	3173.1	3356.8	3455.6	3494.3	3482.4
59°	3563.4	3567.2	3482.4	3273.5	3139.7	3123.3	3340.4	3510.7	3593.2	3605.1	3599.1
60°	3559.7	3580.5	3570.1	3388.0	3249.0	3228.1	3411.0	3573.1	3642.3	3660.8	3640.0
62.5°	3483.2	3518.8	3617.7	3598.4	3496.5	3390.2	3476.5	3593.9	3638.5	3620.7	3605.1
65°	3309.2	3356.0	3493.6	3664.6	3566.4	3361.2	3210.3	3223.7	3291.3	3246.7	3268.3
67.5°	3008.8	3062.3	3135.2	3523.3	3380.6	3036.3	2776.9	2649.7	2617.8	2660.9	2729.3
70°	2447.5	2482.4	2666.8	3215.5	2968.7	2495.8	2170.2	2000.7	1944.2	2043.8	2113.7
72.5°	1726.3	1778.4	2021.5	2660.9	2442.3	1999.2	1642.3	1486.2	1429.7	1434.2	1495.1
75°	1050.5	1121.2	1412.6	2104.0	1924.8	1531.5	1251.3	1139.0	1121.9	1112.2	1101.8
77.5°	692.9	719.7	928.6	1452.0	1298.1	1089.2	939.0	985.1	1036.4	1047.5	1060.9
80°	469.9	478.1	602.2	1018.6	855.0	804.4	759.1	867.6	965.0	982.9	973.2
82.5°	289.2	313.7	420.1	687.0	681.8	658.0	600.0	684.7	749.4	760.6	780.6
85°	100.4	104.8	258.0	606.7	692.9	700.3	494.4	390.3	438.6	430.5	309.3
87.5°	43.1	48.3	80.3	405.9	469.1	388.1	226.0	200.7	154.6	87.0	84.0
90°	8.0	8.0	7.2	9.7	18.2	14.9	14.7	10.2	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°	1459.4	1459.4	1459.4	1459.4	1459.4	1459.4	1459.4	1459.4	1459.4	1459.4	1459.4
2.5°	1635.6	1626.0	1631.9	1623.7	1610.4	1601.4	1591.0	1577.6	1562.0	1541.2	1520.4
5°	1730.1	1722.6	1704.0	1677.3	1640.1	1608.9	1571.7	1527.8	1491.4	1444.6	1400.7
7.5°	1738.2	1726.3	1692.1	1642.3	1585.1	1527.1	1483.2	1411.8	1365.8	1291.4	1241.6
10°	1663.9	1664.6	1630.4	1583.6	1524.1	1455.7	1392.5	1314.5	1246.8	1171.0	1087.7
12.5°	1554.6	1565.0	1566.5	1524.9	1466.9	1394.7	1324.1	1249.8	1165.8	1084.7	1008.1
15°	1430.4	1460.2	1462.4	1452.0	1421.5	1360.5	1295.9	1229.0	1143.5	1055.0	968.7
17.5°	1319.7	1347.9	1373.9	1397.7	1399.2	1370.2	1330.8	1273.6	1188.1	1084.0	982.9
20°	1235.6	1266.1	1310.7	1354.6	1402.9	1417.8	1420.8	1384.3	1292.9	1165.8	1029.0
22.5°	1200.7	1236.4	1281.7	1364.3	1449.8	1502.6	1532.3	1532.3	1436.4	1287.7	1104.8
25°	1193.3	1222.3	1291.4	1394.0	1508.5	1600.7	1657.2	1695.1	1626.0	1444.6	1198.5
27.5°	1198.5	1237.9	1323.4	1428.2	1547.9	1666.1	1759.0	1825.2	1760.5	1551.6	1285.5
30°	1219.3	1278.0	1366.5	1475.0	1598.5	1723.4	1835.6	1919.6	1872.1	1649.0	1368.0
32.5°	1255.7	1327.1	1427.5	1525.6	1648.3	1783.6	1894.4	2005.1	1970.2	1716.7	1411.8
35°	1310.0	1394.0	1485.5	1584.3	1701.8	1837.1	1955.3	2100.3	2087.7	1801.4	1455.7
37.5°	1397.7	1484.0	1568.0	1652.7	1764.3	1895.8	2043.1	2228.2	2217.8	1927.1	1526.3
40°	1552.4	1602.9	1665.4	1719.6	1824.5	1950.1	2107.7	2333.7	2370.9	2034.9	1588.8
42.5°	1744.2	1773.9	1791.8	1806.6	1860.2	1978.4	2154.6	2404.4	2465.3	2115.2	1637.1
45°	1988.8	1979.9	1944.2	1910.0	1904.0	1994.7	2176.1	2456.4	2539.7	2193.2	1686.2
47.5°	2278.0	2258.7	2161.3	2049.0	1986.5	2024.5	2214.1	2533.0	2631.1	2295.8	1747.2
50°	2611.8	2566.5	2407.4	2217.8	2102.5	2108.5	2310.0	2639.3	2751.6	2429.7	1860.9
52.5°	2921.1	2840.1	2650.5	2399.9	2234.9	2254.9	2482.4	2859.4	2998.4	2651.2	2052.0
55°	3193.9	3089.9	2885.4	2611.1	2461.6	2496.6	2758.3	3150.8	3282.4	2915.1	2245.3
57.5°	3425.9	3315.1	3113.6	2872.0	2686.2	2715.1	3004.4	3421.4	3509.9	3152.3	2430.4
59°	3531.5	3422.2	3236.3	3013.3	2839.3	2900.3	3178.3	3556.0	3593.9	3243.8	2501.0
60°	3582.8	3473.5	3309.9	3092.1	2933.0	3013.3	3270.5	3657.9	3625.2	3257.1	2527.8
62.5°	3579.1	3502.5	3394.7	3246.0	3217.0	3350.8	3570.1	3788.7	3646.7	3218.5	2544.9
65°	3285.4	3278.7	3211.8	3228.9	3350.1	3556.8	3691.3	3810.3	3602.1	3064.6	2462.4
67.5°	2740.4	2767.9	2776.9	2881.7	3164.9	3515.9	3634.1	3657.1	3408.1	2735.2	2205.9
70°	2115.9	2054.9	2155.3	2340.4	2748.6	3200.6	3368.7	3288.4	3011.0	2290.6	1801.4
72.5°	1498.1	1515.9	1660.2	1900.3	2315.9	2784.3	3047.5	2609.6	2265.3	1714.4	1277.3
75°	1127.1	1211.1	1281.0	1491.4	1881.0	2385.0	2602.1	1794.0	1475.8	1182.1	835.7
77.5°	1080.3	1073.6	1020.0	1064.6	1356.1	1670.6	1856.4	1119.7	924.1	773.2	504.8
80°	998.5	941.2	843.8	800.7	854.2	1072.8	1178.4	719.7	614.8	540.5	284.7
82.5°	774.7	736.0	633.4	630.5	712.2	762.1	810.4	510.0	462.4	437.9	174.7
85°	491.4	504.8	517.5	631.2	790.3	799.2	630.5	310.8	243.9	343.5	111.5
87.5°	145.7	237.2	287.7	488.5	712.2	714.5	474.3	101.9	91.4	107.1	64.7
90°	7.0	7.0	8.0	9.0	9.0	9.0	8.7	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



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CATALOG NUMBER: ISW-AF-800-LED-E1-SLL-7050-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



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CATALOG NUMBER: ISW-AF-800-LED-E1-SLL-7050-ULG

CANDELA DISTRIBUTION (continued):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	1459.4	1459.4	1459.4	1459.4	1459.4	1459.4	1459.4	1459.4	1459.4	1459.4	1459.4
2.5°	1498.8	1495.9	1475.0	1440.1	1443.1	1426.7	1405.9	1372.4	1365.8	1347.2	1344.2
5°	1363.5	1328.6	1283.2	1228.2	1207.4	1179.1	1150.1	1129.3	1103.3	1079.5	1111.5
7.5°	1182.9	1131.6	1078.8	1020.8	987.3	941.2	916.7	869.1	834.2	827.5	800.0
10°	1031.9	967.3	907.0	855.0	792.5	749.4	718.2	692.2	668.4	639.4	621.5
12.5°	931.6	858.7	794.8	730.1	700.3	664.7	645.3	620.8	586.6	562.1	538.3
15°	886.2	807.4	737.5	681.0	637.9	604.4	570.2	540.5	503.3	475.8	448.3
17.5°	880.3	777.7	689.2	626.0	579.2	542.7	497.4	458.0	412.6	382.1	359.1
20°	887.0	755.4	644.6	562.1	514.5	450.5	408.2	359.8	315.2	275.1	238.7
22.5°	913.7	743.5	600.7	510.0	439.4	366.5	321.2	259.5	221.6	182.9	168.8
25°	950.2	736.0	562.8	452.8	363.6	291.4	229.7	178.4	161.3	151.7	146.5
27.5°	988.8	722.7	520.4	400.0	302.6	214.9	171.7	150.2	143.5	138.3	134.6
30°	1017.8	696.6	468.4	343.5	240.9	183.6	153.2	139.0	134.6	128.6	124.9
32.5°	1030.4	656.5	421.5	290.0	203.0	157.6	133.8	125.6	121.2	116.0	113.8
35°	1028.2	611.1	397.8	269.1	185.9	139.8	117.5	112.3	106.3	101.1	95.9
37.5°	1030.4	569.5	379.2	263.9	178.4	126.4	107.1	103.3	98.9	93.7	89.2
40°	1039.4	546.4	370.2	252.8	172.5	121.2	98.9	95.2	94.4	88.5	84.8
42.5°	1043.1	548.7	365.8	237.2	157.6	119.7	98.9	90.7	90.7	86.2	81.8
45°	1038.6	565.0	368.8	228.2	146.5	112.3	104.1	90.7	88.5	84.8	80.3
47.5°	1052.0	576.9	368.8	226.8	139.0	104.8	98.9	99.6	90.0	85.5	78.8
50°	1107.0	588.1	361.3	224.5	136.8	97.4	93.7	98.1	101.1	87.0	79.6
52.5°	1204.4	602.2	353.1	220.8	133.8	91.4	87.0	92.2	103.3	91.4	79.6
55°	1304.0	627.5	347.9	214.9	129.4	87.7	78.8	88.5	94.4	90.7	78.8
57.5°	1410.4	655.0	342.7	200.7	119.0	84.0	75.8	77.3	84.8	87.7	76.6
59°	1442.3	668.4	338.3	190.3	110.0	81.0	73.6	71.4	75.8	84.0	75.1
60°	1465.4	669.1	333.1	181.4	104.8	79.6	72.1	69.1	70.6	86.2	75.8
62.5°	1467.6	668.4	316.7	162.8	94.4	76.6	69.9	66.2	64.7	72.1	77.3
65°	1375.4	637.2	287.0	153.2	95.2	73.6	66.2	63.2	60.2	61.7	66.9
67.5°	1202.9	556.9	255.8	155.4	100.4	71.4	63.2	60.2	58.0	56.5	58.7
70°	910.0	462.4	246.8	160.6	104.8	69.9	58.7	55.8	54.3	53.5	53.5
72.5°	630.5	380.7	237.2	164.3	108.5	69.1	54.3	51.3	50.6	49.8	49.8
75°	405.9	276.6	196.3	139.8	98.9	63.2	49.1	46.1	45.4	44.6	45.4
77.5°	240.1	193.3	144.2	98.1	72.1	50.6	42.4	40.1	40.1	40.1	40.9
80°	133.1	114.5	95.9	63.2	51.3	37.9	34.9	32.7	32.7	33.5	34.9
82.5°	79.6	63.2	54.3	40.1	34.9	26.8	26.0	24.5	25.3	26.0	27.5
85°	52.0	40.1	32.7	26.8	23.8	17.1	14.9	15.6	16.4	17.8	18.6
87.5°	29.0	22.3	17.8	15.6	14.1	7.4	5.9	5.9	7.4	8.9	10.4
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°
1459.4	1459.4	1459.4	1459.4	1459.4	1459.4	1459.4	1459.4	1459.4	1459.4	1459.4	110°	80.5
1354.6	1333.0	1310.0	1292.9	1300.3	1275.8	1278.0	1271.3	1268.4	1266.9	1251.3	112.5°	113.5
1072.8	1081.0	1046.8	1050.5	1060.9	1035.7	1018.6	1046.8	1043.1	1017.8	1031.9	115°	153.0
773.2	775.4	759.8	724.9	724.9	743.5	750.2	763.5	772.5	803.7	784.4	117.5°	193.0
591.1	570.2	554.6	539.0	530.1	511.5	516.0	532.3	542.7	560.6	574.7	120°	229.5
513.7	490.7	463.2	439.4	426.8	409.7	398.5	394.8	398.5	387.3	388.1	122.5°	264.0
426.8	405.9	375.5	362.8	339.0	325.6	318.2	308.5	301.1	285.5	278.8	125°	297.5
330.8	303.3	272.1	272.1	255.0	243.9	240.9	238.7	234.2	226.0	217.8	127.5°	331.0
220.1	202.2	184.4	175.5	176.9	175.5	171.0	178.4	178.4	181.4	179.9	130°	364.0
160.6	157.6	150.9	145.7	142.7	142.0	142.7	145.0	149.4	153.2	156.9	132.5°	397.0
144.2	142.7	136.8	131.6	130.9	129.4	129.4	131.6	132.3	133.1	132.3	135°	429.0
133.8	130.9	125.6	121.9	120.4	119.7	120.4	118.2	116.7	117.5	116.7	137.5°	459.5
121.2	119.0	113.8	110.8	110.0	110.0	107.8	107.1	105.6	106.3	105.6	140°	488.0
111.5	108.5	103.3	99.6	99.6	98.9	99.6	98.9	98.1	97.4	97.4	142.5°	517.5
93.7	92.9	87.7	86.2	87.0	89.2	89.2	89.2	90.0	89.2	89.2	145°	545.5
87.0	86.2	81.0	77.3	76.6	76.6	76.6	78.1	80.3	81.0	82.5	147.5°	572.5
82.5	81.8	76.6	73.6	72.1	71.4	70.6	70.6	71.4	74.3	76.6	150°	593.0
79.6	78.1	72.9	69.1	68.4	67.7	66.9	66.9	66.9	67.7	69.9	152.5°	608.5
78.1	75.8	69.9	66.2	64.7	63.9	63.9	64.7	63.9	63.9	63.9	155°	626.0
75.8	74.3	68.4	63.9	62.5	62.5	61.7	61.7	61.7	60.2	60.2	157.5°	643.5
75.1	72.9	66.9	62.5	61.0	60.2	59.5	60.2	58.7	58.0	57.2	160°	657.5
73.6	70.6	63.9	60.2	59.5	58.0	57.2	57.2	57.2	55.8	55.8	162.5°	667.0
72.9	69.1	62.5	58.7	57.2	55.8	55.0	55.0	56.5	55.0	55.0	165°	676.0
72.1	66.9	60.2	55.8	55.0	53.5	52.8	53.5	55.8	54.3	53.5	167.5°	685.0
69.1	65.4	58.7	55.0	53.5	52.0	51.3	52.0	53.5	53.5	53.5	170°	692.0
67.7	63.9	57.2	53.5	52.8	51.3	50.6	50.6	52.8	52.8	52.0	172.5°	694.0
65.4	62.5	55.8	51.3	49.8	49.8	49.1	49.1	49.8	49.8	50.6	175°	696.0
62.5	61.0	54.3	49.1	48.3	47.6	47.6	47.6	47.6	49.1	49.1	177.5°	699.5
59.5	58.7	52.0	47.6	46.1	46.1	46.1	46.1	46.1	46.8	47.6	180°	700.0
55.0	55.0	49.1	44.6	43.9	43.1	43.1	43.1	43.1	43.9	44.6		
50.6	51.3	45.4	40.9	40.1	40.1	40.1	40.1	40.9	40.9	41.6		
46.1	46.8	40.9	36.4	36.4	36.4	36.4	36.4	36.4	36.4	37.9		
41.6	41.6	34.9	30.5	31.2	32.0	32.7	32.0	32.0	32.7	34.9		
35.7	34.9	29.0	25.3	25.3	26.8	27.5	26.8	27.5	27.5	30.5		
28.3	28.3	22.3	18.6	18.6	21.6	21.6	21.6	22.3	23.0	25.3		
21.6	20.8	15.6	12.6	12.6	14.9	15.6	16.4	17.1	17.8	19.3		
12.6	12.6	8.2	5.2	5.9	6.7	8.9	8.9	8.9	10.4	12.6		
7.5	7.7	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		

'227143
 ISW-AF-800-LED-E1-SLL-7050-ULG

REPORT NUMBER: P227143
 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°	1459.4	1459.4
106.0	102.5	99.0	99.0	99.0	102.5	106.0	113.5	121.0	127.5	2.5°	1264.6	1263.9
147.0	143.0	139.0	140.0	139.0	143.0	147.0	153.0	159.0	163.5	5°	1037.9	1031.2
189.0	186.5	184.0	184.0	184.0	186.5	189.0	193.0	197.0	199.5	7.5°	804.4	829.0
226.0	224.5	223.0	225.0	223.0	224.5	226.0	229.5	233.0	235.0	10°	579.9	597.0
261.0	260.5	260.0	263.0	260.0	260.5	261.0	264.0	267.0	269.0	12.5°	403.7	412.6
296.0	295.0	294.0	298.0	294.0	295.0	296.0	297.5	299.0	302.0	15°	278.1	295.9
329.0	329.0	329.0	330.0	329.0	329.0	329.0	331.0	333.0	336.0	17.5°	216.3	218.6
362.0	361.5	361.0	363.0	361.0	361.5	362.0	364.0	366.0	368.0	20°	178.4	179.9
393.0	393.5	394.0	396.0	394.0	393.5	393.0	397.0	401.0	402.5	22.5°	158.4	161.3
426.0	426.0	426.0	429.0	426.0	426.0	426.0	429.0	432.0	433.5	25°	133.1	136.1
459.0	458.0	457.0	460.0	457.0	458.0	459.0	459.5	460.0	462.0	27.5°	117.5	120.4
487.0	486.0	485.0	488.0	485.0	486.0	487.0	488.0	489.0	490.0	30°	107.8	109.3
517.0	516.0	515.0	518.0	515.0	516.0	517.0	517.5	518.0	519.5	32.5°	98.1	98.1
544.0	545.0	546.0	550.0	546.0	545.0	544.0	545.5	547.0	548.5	35°	90.0	90.7
571.0	571.5	572.0	575.0	572.0	571.5	571.0	572.5	574.0	574.0	37.5°	84.0	85.5
593.0	592.5	592.0	595.0	592.0	592.5	593.0	593.0	593.0	593.0	40°	78.8	79.6
608.0	608.0	608.0	611.0	608.0	608.0	608.0	608.5	609.0	609.5	42.5°	71.4	72.9
625.0	625.0	625.0	629.0	625.0	625.0	625.0	626.0	627.0	628.5	45°	64.7	65.4
643.0	643.0	643.0	646.0	643.0	643.0	643.0	643.5	644.0	645.0	47.5°	60.2	60.2
659.0	659.5	660.0	663.0	660.0	659.5	659.0	657.5	656.0	655.5	50°	57.2	58.0
669.0	669.0	669.0	673.0	669.0	669.0	669.0	667.0	665.0	663.0	52.5°	55.8	56.5
676.0	677.0	678.0	681.0	678.0	677.0	676.0	676.0	676.0	674.5	55°	55.0	56.5
684.0	685.5	687.0	690.0	687.0	685.5	684.0	685.0	686.0	687.0	57.5°	55.0	55.8
692.0	693.5	695.0	698.0	695.0	693.5	692.0	692.0	692.0	692.5	59°	54.3	55.0
695.0	696.0	697.0	699.0	697.0	696.0	695.0	694.0	693.0	691.5	60°	54.3	55.8
697.0	697.5	698.0	700.0	698.0	697.5	697.0	696.0	695.0	693.0	62.5°	52.0	53.5
700.0	702.5	705.0	707.0	705.0	702.5	700.0	699.5	699.0	698.0	65°	50.6	52.0
700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	67.5°	48.3	50.6
										70°	46.1	48.3
										72.5°	43.1	46.1
										75°	40.1	42.4
										77.5°	36.4	38.7
										80°	32.0	32.7
										82.5°	26.8	26.8
										85°	20.1	17.8
										87.5°	11.2	11.9
										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



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

00-LED-E1-SLL-7050-ULG

tinued):

CANDELA DISTRIBUTION (continued):

225°	230°	235°	240°	245°	250°	255°	260°	265°		215°	220°	225°
1459.4	1459.4	1459.4	1459.4	1459.4	1459.4	1459.4	1459.4	1459.4	110°	102.0	108.0	114.0
1248.3	1248.3	1270.6	1272.8	1246.8	1253.5	1266.1	1251.3	1267.6	112.5°	134.0	138.5	143.0
1047.5	1038.6	1039.4	1033.4	1043.8	1031.9	1044.6	1040.1	1036.4	115°	168.0	171.0	174.0
813.4	829.0	817.8	796.3	813.4	800.0	774.7	776.9	748.7	117.5°	202.0	203.5	205.0
611.1	600.0	594.0	583.6	556.1	561.3	533.1	537.5	547.2	120°	237.0	240.0	243.0
421.5	413.4	423.0	416.3	405.2	407.4	413.4	419.3	434.9	122.5°	271.0	274.0	277.0
295.9	292.2	290.0	294.4	307.1	313.7	323.4	341.3	350.2	125°	305.0	307.5	310.0
222.3	223.0	220.8	227.5	237.9	243.1	245.3	246.8	257.2	127.5°	339.0	339.5	340.0
183.6	186.6	185.9	188.1	185.1	182.1	184.4	179.9	176.2	130°	370.0	371.0	372.0
160.6	161.3	157.6	156.9	152.4	148.7	145.7	145.7	144.2	132.5°	404.0	404.5	405.0
136.1	136.8	133.1	133.1	132.3	134.6	133.1	130.1	129.4	135°	435.0	436.0	437.0
121.9	120.4	118.2	118.2	116.7	116.7	117.5	118.2	117.5	137.5°	464.0	466.0	468.0
109.3	107.8	107.1	107.8	107.1	107.8	108.5	107.8	108.5	140°	491.0	494.0	497.0
100.4	98.9	98.9	99.6	98.9	99.6	99.6	99.6	98.9	142.5°	521.0	523.0	525.0
92.9	91.4	91.4	91.4	90.7	89.2	87.7	85.5	83.3	145°	550.0	550.5	551.0
87.0	86.2	84.8	84.0	81.8	77.3	75.8	75.8	75.8	147.5°	574.0	574.5	575.0
81.8	80.3	79.6	76.6	73.6	72.1	72.1	72.1	72.1	150°	593.0	593.0	593.0
75.1	72.9	71.4	70.6	69.9	69.9	69.1	69.1	69.1	152.5°	610.0	610.0	610.0
66.9	66.2	66.2	66.9	66.9	66.9	66.9	66.2	66.9	155°	630.0	629.0	628.0
61.7	61.7	62.5	63.2	63.9	64.7	65.4	64.7	65.4	157.5°	646.0	645.5	645.0
59.5	59.5	59.5	61.0	61.7	62.5	63.9	63.9	63.9	160°	655.0	655.0	655.0
58.0	58.0	58.7	59.5	60.2	61.0	61.7	62.5	63.2	162.5°	661.0	662.0	663.0
57.2	58.0	57.2	58.0	58.7	60.2	61.0	61.0	61.7	165°	673.0	673.0	673.0
57.2	57.2	57.2	57.2	58.7	59.5	58.7	59.5	60.2	167.5°	688.0	686.5	685.0
57.2	57.2	56.5	57.2	58.0	58.7	58.0	58.0	59.5	170°	693.0	692.0	691.0
56.5	57.2	56.5	56.5	57.2	58.0	57.2	58.0	58.7	172.5°	690.0	690.0	690.0
55.0	55.8	55.0	55.8	55.8	56.5	56.5	56.5	57.2	175°	691.0	690.5	690.0
53.5	53.5	53.5	54.3	54.3	55.0	55.0	55.8	55.0	177.5°	697.0	696.0	695.0
52.0	52.0	52.0	52.8	52.8	53.5	54.3	53.5	53.5	180°	700.0	700.0	700.0
50.6	49.8	49.1	49.8	50.6	50.6	51.3	50.6	51.3				
48.3	47.6	46.8	46.8	47.6	47.6	48.3	47.6	47.6				
44.6	44.6	43.1	43.1	43.1	43.1	43.9	43.1	42.4				
40.1	40.1	38.7	38.7	38.7	38.7	37.9	37.9	37.9				
33.5	34.2	34.2	33.5	33.5	32.7	32.7	32.0	31.2				
25.3	26.8	27.5	27.5	27.5	27.5	27.5	26.0	24.5				
17.8	20.1	22.3	22.3	21.6	21.6	21.6	19.3	17.1				
11.2	13.4	14.1	15.6	13.4	12.6	12.6	11.2	10.4				
7.0	7.0	8.5	8.7	11.2	11.2	12.0	9.5	7.7				
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-7050-

SLL-7050-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°	1459.4	1459.4	1459.4	1459.4
145.5	148.0	149.0	150.0	149.5	149.0	148.0	147.0	2.5°	1253.5	1281.0	1284.7	1288.4
176.5	179.0	180.5	182.0	180.5	179.0	178.0	177.0	5°	1030.4	1058.0	1042.3	1049.0
208.0	211.0	213.0	215.0	212.5	210.0	209.0	208.0	7.5°	752.4	734.5	757.6	771.7
244.5	246.0	248.0	250.0	247.5	245.0	244.0	243.0	10°	549.4	570.2	579.2	595.5
278.0	279.0	281.0	283.0	280.5	278.0	277.0	276.0	12.5°	455.7	469.1	485.5	511.5
311.5	313.0	314.0	315.0	312.5	310.0	310.0	310.0	15°	369.5	379.2	400.0	425.3
342.5	345.0	345.5	346.0	346.0	346.0	345.5	345.0	17.5°	269.1	283.3	296.6	317.5
374.5	377.0	379.0	381.0	381.0	381.0	380.0	379.0	20°	180.7	186.6	203.0	212.6
408.0	411.0	413.5	416.0	415.0	414.0	414.0	414.0	22.5°	145.0	147.2	150.2	158.4
440.0	443.0	445.5	448.0	447.5	447.0	448.5	450.0	25°	130.1	131.6	133.8	136.8
470.5	473.0	474.0	475.0	475.5	476.0	478.5	481.0	27.5°	118.2	119.0	121.2	122.7
498.5	500.0	501.0	502.0	503.0	504.0	506.5	509.0	30°	107.8	107.1	107.8	110.0
526.0	527.0	530.0	533.0	533.0	533.0	533.5	534.0	32.5°	96.7	96.7	98.1	98.1
553.5	556.0	559.0	562.0	561.5	561.0	559.5	558.0	35°	83.3	82.5	84.0	86.2
577.5	580.0	582.5	585.0	585.5	586.0	584.5	583.0	37.5°	76.6	77.3	78.8	80.3
595.0	597.0	598.5	600.0	601.5	603.0	604.5	606.0	40°	72.9	73.6	75.1	76.6
610.5	611.0	612.5	614.0	616.0	618.0	620.5	623.0	42.5°	69.1	70.6	72.1	74.3
627.0	626.0	628.5	631.0	633.5	636.0	637.0	638.0	45°	66.9	68.4	70.6	72.9
644.5	644.0	646.0	648.0	649.0	650.0	650.0	650.0	47.5°	66.2	67.7	69.9	72.9
656.5	658.0	661.0	664.0	662.5	661.0	660.5	660.0	50°	64.7	66.9	69.1	72.1
665.0	667.0	669.0	671.0	670.5	670.0	669.0	668.0	52.5°	64.7	66.2	68.4	72.1
672.5	672.0	674.5	677.0	678.5	680.0	679.0	678.0	55°	62.5	64.7	66.9	70.6
681.5	678.0	681.0	684.0	686.0	688.0	688.0	688.0	57.5°	61.0	62.5	65.4	69.9
688.5	686.0	687.5	689.0	691.5	694.0	695.0	696.0	59°	60.2	61.7	64.7	69.1
689.5	689.0	690.5	692.0	693.0	694.0	695.0	696.0	60°	58.7	61.0	63.9	68.4
690.0	690.0	692.5	695.0	695.5	696.0	695.0	694.0	62.5°	57.2	59.5	62.5	66.9
694.5	694.0	696.5	699.0	700.0	701.0	699.5	698.0	65°	55.0	58.0	61.0	63.9
700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	67.5°	53.5	55.0	58.0	61.0
								70°	50.6	52.0	54.3	56.5
								72.5°	46.8	47.6	49.1	51.3
								75°	41.6	42.4	43.1	45.4
								77.5°	36.4	36.4	37.2	40.1
								80°	30.5	30.5	31.2	32.7
								82.5°	23.0	23.0	24.5	26.8
								85°	16.4	15.6	17.8	19.3
								87.5°	9.7	8.9	9.7	9.7
								90°	7.7	9.2	9.5	10.5
								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-7050-ULG

ULG

CANDELA DISTRIBUTION (continued):

290°	295°	300°	305°	310°	315°	320°		270°	275°	280°	285°	290°
1459.4	1459.4	1459.4	1459.4	1459.4	1459.4	1459.4	110°	117.0	116.0	117.5	119.0	120.0
1303.3	1295.9	1301.8	1324.9	1333.0	1343.4	1378.4	112.5°	147.0	147.0	148.0	149.0	149.5
1065.4	1075.1	1065.4	1112.2	1114.5	1145.7	1158.3	115°	178.0	177.0	178.0	179.0	180.5
782.9	795.5	816.3	847.6	856.5	901.1	939.0	117.5°	209.0	208.0	209.0	210.0	212.5
611.1	627.5	656.5	675.8	695.1	721.2	751.6	120°	243.0	243.0	244.0	245.0	247.5
542.7	559.8	585.1	609.6	637.2	657.2	682.5	122.5°	277.0	276.0	277.0	278.0	280.5
453.5	480.3	504.8	536.8	559.8	596.3	626.0	125°	310.0	310.0	310.0	310.0	312.5
346.5	383.6	408.2	446.8	481.8	513.7	553.9	127.5°	347.0	345.0	345.5	346.0	346.0
240.9	269.9	301.1	342.7	388.1	432.0	485.5	130°	380.0	379.0	380.0	381.0	381.0
165.8	181.4	205.2	248.3	295.2	358.4	416.3	132.5°	415.0	414.0	414.0	414.0	415.0
141.3	147.2	156.1	176.9	216.3	285.5	349.4	135°	451.0	450.0	448.5	447.0	447.5
125.6	130.1	136.1	146.5	167.3	214.9	285.5	137.5°	482.0	481.0	478.5	476.0	475.5
115.2	120.4	126.4	133.8	145.0	177.7	230.5	140°	511.0	509.0	506.5	504.0	503.0
101.1	104.8	110.0	118.2	126.4	152.4	203.7	142.5°	536.0	534.0	533.5	533.0	533.0
89.2	93.7	100.4	106.3	114.5	135.3	185.1	145°	560.0	558.0	559.5	561.0	561.5
83.3	87.7	93.7	98.9	104.8	121.9	171.7	147.5°	585.0	583.0	584.5	586.0	585.5
79.6	84.0	90.0	94.4	98.1	117.5	166.5	150°	610.0	606.0	604.5	603.0	601.5
77.3	82.5	87.7	90.7	98.1	119.7	153.9	152.5°	628.0	623.0	620.5	618.0	616.0
76.6	81.8	87.7	92.9	107.8	113.0	145.7	155°	641.0	638.0	637.0	636.0	633.5
77.3	81.8	89.2	104.1	104.8	107.1	136.8	157.5°	655.0	650.0	650.0	650.0	649.0
77.3	84.0	99.6	108.5	99.6	101.1	128.6	160°	666.0	660.0	660.5	661.0	662.5
78.1	87.0	103.3	101.1	96.7	94.4	119.7	162.5°	674.0	668.0	669.0	670.0	670.5
78.1	85.5	98.9	95.2	89.2	90.0	109.3	165°	682.0	678.0	679.0	680.0	678.5
75.8	85.5	95.2	86.2	81.8	85.5	100.4	167.5°	694.0	688.0	688.0	688.0	686.0
74.3	87.7	84.8	79.6	79.6	83.3	95.9	170°	701.0	696.0	695.0	694.0	691.5
73.6	90.0	80.3	77.3	77.3	82.5	93.7	172.5°	701.0	696.0	695.0	694.0	693.0
71.4	84.0	73.6	72.1	74.3	78.1	90.7	175°	699.0	694.0	695.0	696.0	695.5
66.9	69.9	67.7	67.7	70.6	75.1	89.2	177.5°	702.0	698.0	699.5	701.0	700.0
61.7	63.2	63.2	63.9	66.9	70.6	90.7	180°	700.0	700.0	700.0	700.0	700.0
57.2	57.2	58.7	59.5	61.7	66.9	87.0						
52.0	52.8	52.8	54.3	55.8	61.0	84.0						
46.1	46.1	47.6	47.6	49.8	55.0	75.1						
40.1	40.1	40.1	40.9	42.4	47.6	61.7						
33.5	33.5	33.5	34.2	34.9	39.4	46.8						
26.8	26.0	25.3	25.3	26.8	30.5	36.4						
18.6	18.6	17.8	17.8	17.8	20.1	24.5						
10.4	8.9	9.7	10.4	9.7	11.2	13.4						
9.7	10.5	10.2	10.0	10.0	10.0	12.0						
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°	1459.4	1459.4	1459.4	1459.4	1459.4	1459.4
150.0	149.0	148.0	145.5	143.0	138.5	2.5°	1373.9	1393.3	1423.7	1429.7	1454.2	1471.3
182.0	180.5	179.0	176.5	174.0	171.0	5°	1164.3	1210.4	1226.7	1258.7	1314.5	1342.7
215.0	213.0	211.0	208.0	205.0	203.5	7.5°	960.6	995.5	1034.9	1086.2	1127.1	1175.4
250.0	248.0	246.0	244.5	243.0	240.0	10°	790.3	840.1	891.4	933.1	990.3	1048.3
283.0	281.0	279.0	278.0	277.0	274.0	12.5°	701.8	729.3	779.9	838.6	910.0	974.7
315.0	314.0	313.0	311.5	310.0	307.5	15°	655.7	688.5	742.7	805.2	881.0	961.3
346.0	345.5	345.0	342.5	340.0	339.5	17.5°	598.5	650.5	712.2	801.5	899.6	1011.1
381.0	379.0	377.0	374.5	372.0	371.0	20°	542.0	605.2	686.2	803.7	939.7	1084.7
416.0	413.5	411.0	408.0	405.0	404.5	22.5°	492.2	567.3	669.9	817.1	991.0	1184.3
448.0	445.5	443.0	440.0	437.0	436.0	25°	433.4	533.8	657.2	844.6	1069.9	1318.2
475.0	474.0	473.0	470.5	468.0	466.0	27.5°	386.6	501.8	638.6	868.4	1142.0	1446.8
502.0	501.0	500.0	498.5	497.0	494.0	30°	334.6	464.7	612.6	876.5	1229.7	1552.4
533.0	530.0	527.0	526.0	525.0	523.0	32.5°	292.9	429.7	582.9	869.1	1269.1	1626.0
562.0	559.0	556.0	553.5	551.0	550.5	35°	272.9	404.4	557.6	843.1	1301.8	1705.5
585.0	582.5	580.0	577.5	575.0	574.5	37.5°	259.5	376.9	533.1	800.0	1339.0	1784.3
600.0	598.5	597.0	595.0	593.0	593.0	40°	242.4	355.4	513.0	768.7	1368.0	1849.8
614.0	612.5	611.0	610.5	610.0	610.0	42.5°	226.8	336.0	497.4	741.2	1375.4	1908.5
631.0	628.5	626.0	627.0	628.0	629.0	45°	213.4	324.2	485.5	742.7	1380.6	1990.3
648.0	646.0	644.0	644.5	645.0	645.5	47.5°	203.0	313.0	481.0	768.0	1435.6	2104.0
664.0	661.0	658.0	656.5	655.0	655.0	50°	193.3	303.3	473.6	817.1	1524.1	2257.9
671.0	669.0	667.0	665.0	663.0	662.0	52.5°	182.1	290.0	463.9	867.6	1620.8	2463.9
677.0	674.5	672.0	672.5	673.0	673.0	55°	167.3	272.1	453.5	910.0	1752.4	2714.4
684.0	681.0	678.0	681.5	685.0	686.5	57.5°	144.2	251.3	446.8	931.6	1833.4	2858.6
689.0	687.5	686.0	688.5	691.0	692.0	59°	132.3	231.2	443.1	921.2	1855.0	2883.2
692.0	690.5	689.0	689.5	690.0	690.0	60°	125.6	219.3	437.2	908.5	1860.9	2867.6
695.0	692.5	690.0	690.0	690.0	690.5	62.5°	116.7	191.1	412.6	845.3	1777.6	2678.7
699.0	696.5	694.0	694.5	695.0	696.0	65°	119.0	180.7	356.9	719.7	1586.6	2310.0
700.0	700.0	700.0	700.0	700.0	700.0	67.5°	121.9	176.2	308.5	581.4	1264.6	1911.5
						70°	119.7	174.0	280.3	462.4	947.2	1431.2
						72.5°	116.7	164.3	243.1	371.7	600.7	1002.2
						75°	103.3	138.3	191.1	255.0	379.2	730.1
						77.5°	81.0	106.3	135.3	158.4	192.6	515.2
						80°	59.5	77.3	88.5	95.2	107.1	351.7
						82.5°	42.4	52.0	56.5	60.2	71.4	263.2
						85°	32.0	36.4	39.4	39.4	48.3	185.9
						87.5°	17.8	18.6	18.6	20.1	23.8	50.6
						90°	13.2	13.2	12.5	12.7	10.7	9.0
						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°
1459.4	1459.4	1459.4	110°	102.0	94.5	87.0	80.5	74.0	71.0	68.0
1490.7	1501.8	1510.7	112.5°	134.0	127.5	121.0	113.5	106.0	102.5	99.0
1385.8	1413.3	1418.5	115°	168.0	163.5	159.0	153.0	147.0	143.0	139.0
1229.0	1273.6	1289.2	117.5°	202.0	199.5	197.0	193.0	189.0	186.5	184.0
1113.7	1162.0	1178.4	120°	237.0	235.0	233.0	229.5	226.0	224.5	223.0
1050.5	1107.0	1124.9	122.5°	271.0	269.0	267.0	264.0	261.0	260.5	260.0
1052.0	1119.7	1145.7	125°	305.0	302.0	299.0	297.5	296.0	295.0	294.0
1120.4	1197.7	1229.7	127.5°	339.0	336.0	333.0	331.0	329.0	329.0	329.0
1237.9	1350.1	1373.9	130°	370.0	368.0	366.0	364.0	362.0	361.5	361.0
1397.0	1507.0	1542.7	132.5°	404.0	402.5	401.0	397.0	393.0	393.5	394.0
1546.4	1692.1	1719.6	135°	435.0	433.5	432.0	429.0	426.0	426.0	426.0
1693.6	1837.9	1862.4	137.5°	464.0	462.0	460.0	459.5	459.0	458.0	457.0
1807.4	1958.3	1979.1	140°	491.0	490.0	489.0	488.0	487.0	486.0	485.0
1916.7	2086.9	2110.0	142.5°	521.0	519.5	518.0	517.5	517.0	516.0	515.0
2038.6	2226.7	2253.5	145°	550.0	548.5	547.0	545.5	544.0	545.0	546.0
2148.6	2364.2	2381.3	147.5°	574.0	574.0	574.0	572.5	571.0	571.5	572.0
2270.6	2476.5	2481.0	150°	593.0	593.0	593.0	593.0	593.0	592.5	592.0
2370.2	2559.8	2561.3	152.5°	610.0	609.5	609.0	608.5	608.0	608.0	608.0
2466.8	2637.8	2638.6	155°	630.0	628.5	627.0	626.0	625.0	625.0	625.0
2567.9	2723.3	2712.2	157.5°	646.0	645.0	644.0	643.5	643.0	643.0	643.0
2727.8	2824.4	2835.6	160°	655.0	655.5	656.0	657.5	659.0	659.5	660.0
2970.9	3057.1	3069.8	162.5°	661.0	663.0	665.0	667.0	669.0	669.0	669.0
3253.4	3373.1	3356.0	165°	673.0	674.5	676.0	676.0	676.0	677.0	678.0
3373.1	3509.9	3524.0	167.5°	688.0	687.0	686.0	685.0	684.0	685.5	687.0
3353.0	3539.7	3563.4	170°	693.0	692.5	692.0	692.0	692.0	693.5	695.0
3321.1	3530.7	3559.7	172.5°	690.0	691.5	693.0	694.0	695.0	696.0	697.0
3139.7	3437.8	3483.2	175°	691.0	693.0	695.0	696.0	697.0	697.5	698.0
2834.8	3245.2	3309.2	177.5°	697.0	698.0	699.0	699.5	700.0	702.5	705.0
2443.0	2957.5	3008.8	180°	700.0	700.0	700.0	700.0	700.0	700.0	700.0
1906.3	2403.6	2447.5								
1266.9	1650.5	1726.3								
805.2	1064.6	1050.5								
594.0	692.2	692.9								
431.2	475.1	469.9								
333.8	290.0	289.2								
116.7	102.6	100.4								
50.6	42.4	43.1								
7.2	7.2	8.0								
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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