

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: P228441

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P228441
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29764)-DOWNLIGHT AND
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: ISS-AF-800-LED-E1-SLL-8030-ULG
Description: IMPACT ELITE LED QUATER SPHERE 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: 4755.2 lumens
Efficiency: N/A
Efficacy: 79.0 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 - G1

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

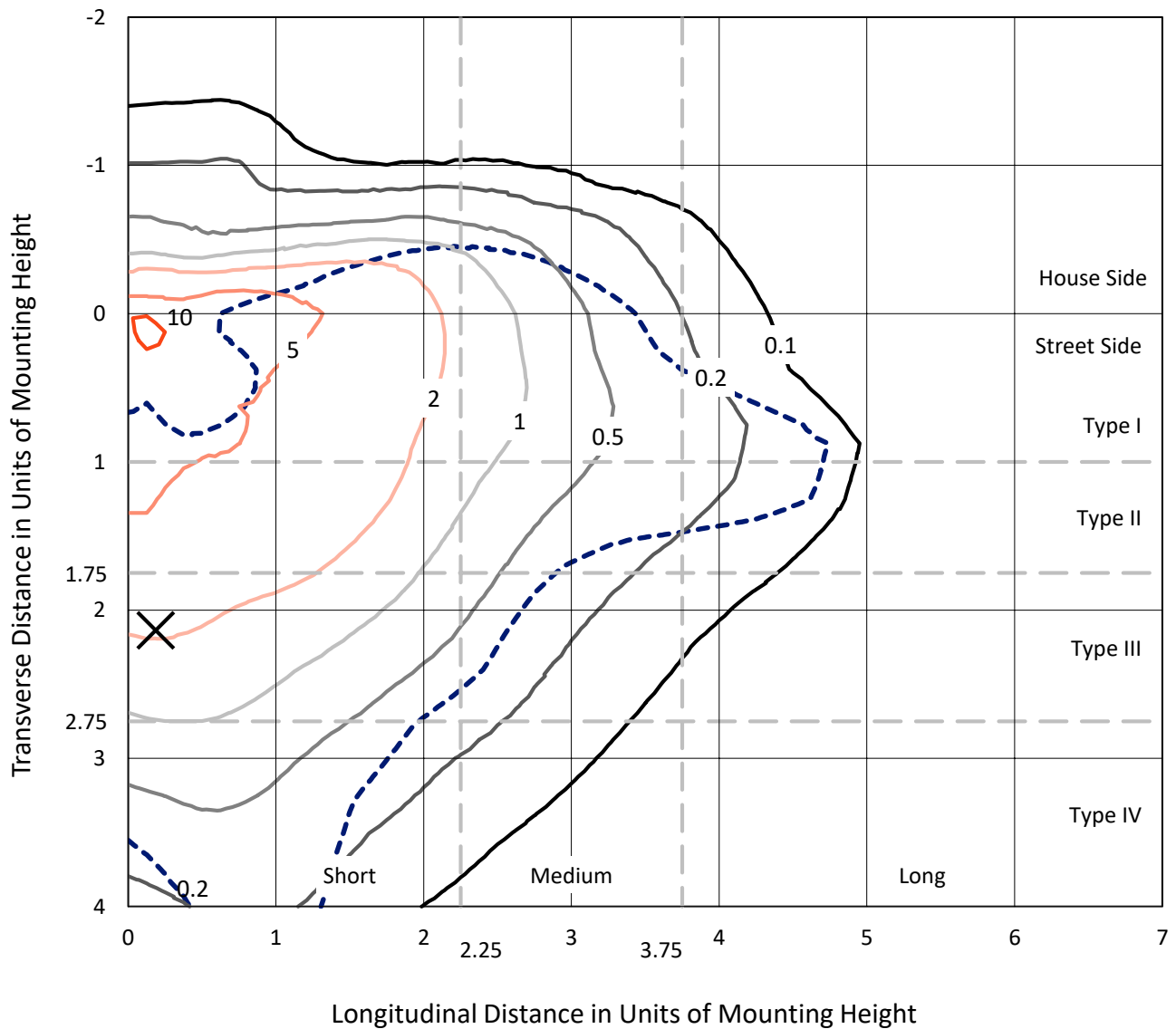


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

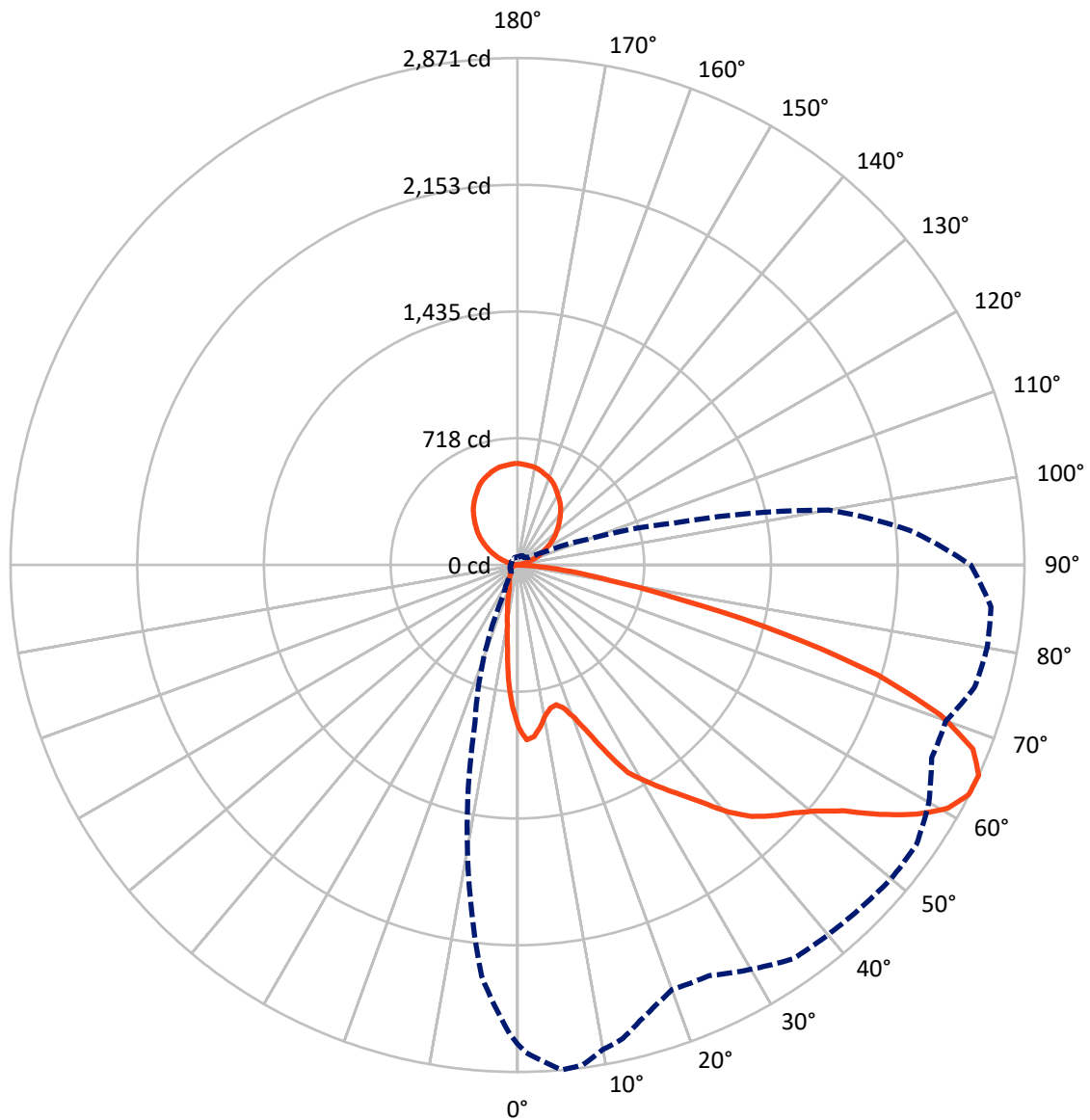


Based on 10 foot mounting height. Maximum calculated value = 12.5 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 5-Deg Lateral

- - - Horizontal Cone Through 65-Deg Vertical

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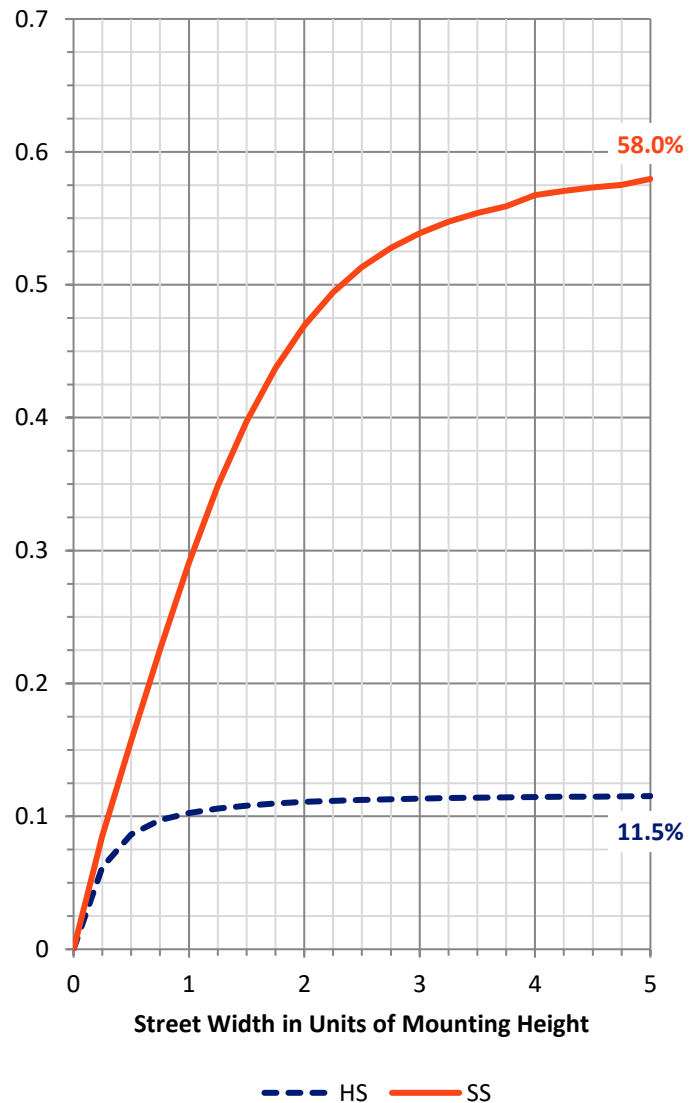
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	553.5	713.1	1266.6
	% Fixture	11.6	15.0	26.6
Street Side	Lumens	2775.5	713.1	3488.5
	% Fixture	58.4	15.0	73.4
Total	Lumens	3329.0	1426.2	4755.2
	% Fixture	70.0	30.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.7	1.5
10°-20°	145.8	3.1
20°-30°	211.9	4.5
30°-40°	313.4	6.6
40°-50°	456.6	9.6
50°-60°	684.5	14.4
60°-70°	853.0	17.9
70°-80°	499.7	10.5
80°-90°	93.4	2.0
90°-100°	4.7	0.1
100°-110°	69.0	1.5
110°-120°	153.0	3.2
120°-130°	223.9	4.7
130°-140°	265.6	5.6
140°-150°	269.3	5.7
150°-160°	231.1	4.9
160°-170°	155.1	3.3
170°-180°	54.3	1.1
0°-90°	3329.0	70.0
0°-180°	4755.2	100.0

Coefficient of Utilization



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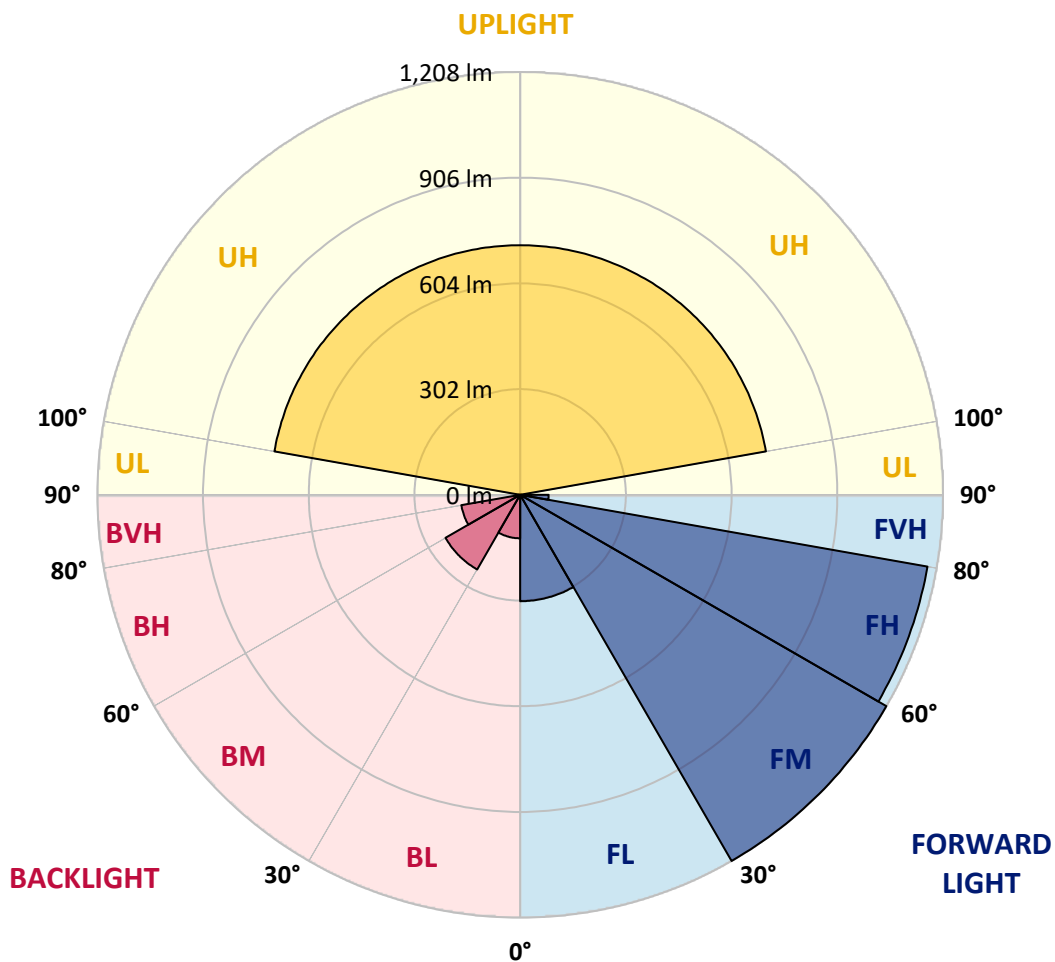
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	304.1	6.4			
FM	(30°-60°)	1208.2	25.4			
FH	(60°-80°)	1181.8	24.9			G1/1800
FVH	(80°-90°)	81.4	1.7			G1/100
BL	(0°-30°)	124.3	2.6	B1/500		
BM	(30°-60°)	246.4	5.2	B1/1000		
BH	(60°-80°)	170.8	3.6	B1/500		G1/500
BVH	(80°-90°)	12.0	0.3			G1/100
UL	(90°-100°)	4.7	0.1		U1/10	
UH	(100°-180°)	713.1	15.0		U4/1000	

BUG Rating: B1-U5-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	7.5°	10°	12.5°	15°	17.5°	20°	25°	35°
0°	921.3	921.3	921.3	921.3	921.3	921.3	921.3	921.3	921.3	921.3	921.3
2.5°	977.9	975.3	991.1	993.8	1004.3	1004.3	1016.2	1026.7	1030.7	1039.9	1063.6
5°	946.3	954.2	976.6	999.0	1014.8	1030.7	1047.8	1068.9	1086.0	1115.0	1175.6
7.5°	876.5	888.3	926.5	948.9	974.0	1001.7	1022.8	1047.8	1074.2	1122.9	1231.0
10°	807.9	817.1	865.9	893.6	929.2	958.2	988.5	1016.2	1045.2	1105.8	1231.0
12.5°	764.4	776.3	831.6	858.0	898.9	929.2	966.1	999.0	1033.3	1097.9	1219.1
15°	755.2	768.4	821.1	854.0	889.6	918.6	951.6	985.8	1020.1	1083.4	1191.5
17.5°	780.2	796.1	852.7	889.6	917.3	950.3	974.0	1006.9	1029.3	1079.4	1130.8
20°	839.6	858.0	925.2	960.8	983.2	1004.3	1022.8	1042.5	1051.7	1063.6	1054.4
22.5°	934.4	956.9	1033.3	1074.2	1090.0	1105.8	1107.1	1109.7	1103.1	1071.5	1000.3
25°	1070.2	1092.6	1179.6	1219.1	1219.1	1219.1	1204.6	1194.1	1163.8	1104.5	985.8
27.5°	1196.7	1225.7	1329.8	1354.9	1347.0	1335.1	1307.4	1281.1	1237.6	1138.7	984.5
30°	1291.6	1320.6	1416.8	1436.6	1416.8	1387.8	1344.3	1306.1	1254.7	1155.9	993.8
32.5°	1378.6	1412.9	1505.1	1507.8	1472.2	1439.2	1390.5	1347.0	1292.9	1187.5	1021.4
35°	1470.9	1505.1	1598.7	1580.3	1528.9	1484.0	1434.0	1395.7	1341.7	1228.4	1066.2
37.5°	1598.7	1629.0	1708.1	1664.6	1598.7	1540.7	1486.7	1436.6	1382.6	1283.7	1141.4
40°	1722.6	1766.1	1838.6	1768.7	1688.3	1610.6	1551.3	1498.5	1439.2	1358.8	1237.6
42.5°	1838.6	1879.4	1946.7	1857.0	1763.5	1685.7	1623.7	1567.1	1510.4	1444.5	1353.6
45°	1926.9	1969.1	2025.7	1930.8	1824.1	1743.7	1676.5	1626.4	1576.3	1531.5	1499.9
47.5°	2012.6	2054.7	2098.2	1995.4	1890.0	1808.3	1729.2	1683.1	1643.5	1619.8	1658.0
50°	2123.3	2152.3	2189.2	2078.4	1966.4	1872.8	1793.8	1758.2	1721.3	1729.2	1857.0
52.5°	2273.5	2298.6	2311.7	2203.7	2078.4	1971.7	1884.7	1835.9	1805.6	1851.8	2067.9
55°	2485.7	2521.3	2492.3	2385.5	2227.4	2106.1	1999.4	1941.4	1922.9	1984.9	2278.8
57.5°	2668.9	2684.7	2663.6	2558.2	2396.1	2260.3	2147.0	2086.4	2065.3	2147.0	2471.2
60°	2749.3	2769.1	2798.1	2707.1	2555.6	2421.1	2323.6	2264.3	2228.7	2323.6	2625.4
62.5°	2762.5	2795.4	2866.6	2820.5	2700.5	2600.4	2512.1	2430.3	2402.7	2475.2	2726.9
65°	2711.1	2761.2	2870.6	2853.4	2786.2	2748.0	2674.2	2610.9	2558.2	2566.1	2721.6
67.5°	2595.1	2653.1	2780.9	2773.0	2780.9	2780.9	2716.4	2663.6	2595.1	2497.6	2521.3
70°	2315.7	2392.1	2539.7	2578.0	2645.2	2645.2	2588.5	2508.1	2429.0	2228.7	2107.4
72.5°	1855.7	1907.1	2133.8	2319.6	2405.3	2371.0	2315.7	2181.3	2007.3	1787.2	1622.4
75°	1256.0	1286.3	1564.4	1904.5	2060.0	2031.0	1940.1	1772.7	1593.4	1348.3	1140.1
77.5°	699.8	739.4	947.6	1213.9	1423.4	1419.5	1407.6	1300.8	1158.5	955.5	847.5
80°	411.2	424.4	533.8	727.5	908.1	864.6	834.3	749.9	677.4	585.2	668.2
82.5°	251.7	238.6	303.1	442.8	536.4	518.0	466.6	434.9	400.7	375.6	444.2
85°	68.5	61.9	123.9	185.8	228.0	246.5	246.5	243.8	218.8	164.7	197.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
97.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.2	2.5	3.0	4.0
100°	8.0	8.0	8.0	8.5	9.0	9.5	10.0	11.0	12.0	14.0	22.0
102.5°	28.0	28.0	28.0	29.0	30.0	31.0	32.0	33.5	35.0	38.0	45.0
105°	54.0	54.0	54.0	54.5	55.0	55.5	56.0	57.2	58.5	61.0	66.0
107.5°	78.0	77.8	77.0	77.8	78.5	79.2	80.0	81.0	82.0	84.0	88.0
110°	101.0	101.2	102.0	102.2	102.5	102.8	103.0	103.8	104.5	106.0	110.0



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CANDELA DISTRIBUTION (continued):

	0°	1°	5°	7.5°	10°	12.5°	15°	17.5°	20°	25°	35°
112.5°	124.0	124.0	124.0	124.5	125.0	125.5	126.0	126.8	127.5	129.0	132.0
115°	146.0	146.2	147.0	147.5	148.0	148.5	149.0	149.5	150.0	151.0	154.0
117.5°	169.0	169.2	170.0	170.5	171.0	171.5	172.0	172.5	173.0	174.0	177.0
120°	193.0	193.4	195.0	195.2	195.5	195.8	196.0	196.5	197.0	198.0	201.0
122.5°	219.0	219.2	220.0	220.2	220.5	220.8	221.0	221.5	222.0	223.0	226.0
125°	244.0	244.4	246.0	246.2	246.5	246.8	247.0	247.2	247.5	248.0	251.0
127.5°	267.0	267.4	269.0	269.2	269.5	269.8	270.0	270.5	271.0	272.0	274.0
130°	290.0	290.4	292.0	292.2	292.5	292.8	293.0	293.2	293.5	294.0	298.0
132.5°	313.0	313.2	314.0	314.8	315.5	316.2	317.0	317.2	317.5	318.0	321.0
135°	336.0	336.2	337.0	337.5	338.0	338.5	339.0	339.5	340.0	341.0	345.0
137.5°	359.0	359.2	360.0	360.8	361.5	362.2	363.0	363.2	363.5	364.0	367.0
140°	382.0	382.2	383.0	383.5	384.0	384.5	385.0	385.2	385.5	386.0	388.0
142.5°	404.0	404.4	406.0	406.5	407.0	407.5	408.0	407.8	407.5	407.0	410.0
145°	425.0	425.2	426.0	426.5	427.0	427.5	428.0	428.0	428.0	428.0	431.0
147.5°	444.0	444.0	444.0	444.8	445.5	446.2	447.0	447.2	447.5	448.0	452.0
150°	461.0	461.2	462.0	462.5	463.0	463.5	464.0	464.2	464.5	465.0	469.0
152.5°	479.0	479.2	480.0	480.8	481.5	482.2	483.0	482.8	482.5	482.0	485.0
155°	499.0	499.2	500.0	500.5	501.0	501.5	502.0	501.8	501.5	501.0	503.0
157.5°	513.0	513.4	515.0	515.5	516.0	516.5	517.0	516.8	516.5	516.0	519.0
160°	525.0	525.4	527.0	527.5	528.0	528.5	529.0	529.0	529.0	529.0	532.0
162.5°	535.0	535.2	536.0	536.8	537.5	538.2	539.0	538.8	538.5	538.0	541.0
165°	546.0	546.2	547.0	547.5	548.0	548.5	549.0	548.8	548.5	548.0	552.0
167.5°	555.0	555.2	556.0	556.8	557.5	558.2	559.0	558.8	558.5	558.0	561.0
170°	562.0	562.2	563.0	563.8	564.5	565.2	566.0	565.8	565.5	565.0	567.0
172.5°	565.0	565.2	566.0	566.8	567.5	568.2	569.0	568.5	568.0	567.0	569.0
175°	567.0	567.4	569.0	569.2	569.5	569.8	570.0	569.8	569.5	569.0	572.0
177.5°	572.0	572.2	573.0	573.5	574.0	574.5	575.0	574.8	574.5	574.0	578.0
180°	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0



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CANDELA DISTRIBUTION (continued):

	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
0°	921.3	921.3	921.3	921.3	921.3	921.3	921.3	921.3	921.3	921.3	921.3
2.5°	1072.8	1074.2	1070.2	1079.4	1068.9	1063.6	1047.8	1047.8	1034.6	1024.1	1012.2
5°	1198.0	1205.9	1199.4	1200.7	1179.6	1158.5	1126.9	1108.4	1075.5	1039.9	1003.0
7.5°	1282.4	1295.6	1290.3	1267.9	1234.9	1190.1	1137.4	1087.3	1033.3	975.3	921.3
10°	1304.8	1319.3	1307.4	1265.3	1211.2	1148.0	1084.7	1017.5	951.6	889.6	831.6
12.5°	1273.2	1283.7	1258.7	1212.5	1159.8	1096.6	1030.7	972.7	894.9	829.0	761.8
15°	1192.8	1186.2	1183.5	1150.6	1113.7	1062.3	1000.3	941.0	868.5	801.3	730.2
17.5°	1105.8	1097.9	1100.5	1087.3	1082.1	1058.3	1012.2	962.1	897.5	815.8	739.4
20°	1029.3	1021.4	1025.4	1032.0	1051.7	1053.1	1045.2	1012.2	964.8	879.1	785.5
22.5°	963.4	964.8	977.9	996.4	1029.3	1071.5	1104.5	1111.1	1078.1	977.9	860.6
25°	943.7	937.1	951.6	981.9	1037.2	1119.0	1192.8	1229.7	1211.2	1111.1	967.4
27.5°	937.1	927.9	943.7	983.2	1071.5	1186.2	1291.6	1347.0	1353.6	1250.8	1082.1
30°	937.1	933.1	948.9	1000.3	1093.9	1208.6	1325.9	1408.9	1435.3	1349.6	1182.2
32.5°	948.9	951.6	979.3	1045.2	1141.4	1258.7	1379.9	1469.5	1517.0	1452.4	1262.6
35°	975.3	980.6	1020.1	1096.6	1200.7	1319.3	1430.0	1520.9	1597.4	1563.1	1337.7
37.5°	1032.0	1039.9	1088.6	1166.4	1261.3	1368.1	1476.1	1573.7	1684.4	1669.9	1416.8
40°	1132.1	1132.1	1180.9	1248.1	1325.9	1407.6	1514.4	1629.0	1764.8	1784.5	1514.4
42.5°	1258.7	1253.4	1285.0	1333.8	1387.8	1456.4	1552.6	1680.4	1839.9	1883.4	1588.2
45°	1432.6	1406.3	1423.4	1435.3	1461.6	1503.8	1589.5	1729.2	1900.5	1957.2	1643.5
47.5°	1636.9	1600.0	1585.5	1563.1	1553.9	1569.7	1643.5	1767.4	1958.5	2020.5	1733.1
50°	1862.3	1826.7	1788.5	1727.9	1675.1	1659.3	1704.1	1818.8	2020.5	2099.5	1832.0
52.5°	2096.9	2071.9	2021.8	1926.9	1826.7	1770.0	1791.1	1904.5	2119.3	2222.1	1949.3
55°	2311.7	2319.6	2259.0	2148.3	2004.6	1917.7	1942.7	2056.0	2298.6	2419.8	2145.7
57.5°	2542.4	2521.3	2473.8	2359.2	2202.3	2108.8	2119.3	2256.4	2498.9	2591.1	2340.7
60°	2695.3	2695.3	2643.9	2556.9	2407.9	2321.0	2336.8	2463.3	2659.7	2668.9	2427.7
62.5°	2794.1	2808.6	2767.8	2705.8	2560.8	2488.3	2542.4	2632.0	2738.8	2662.3	2384.2
65°	2746.7	2762.5	2758.5	2690.0	2587.2	2581.9	2679.4	2700.5	2691.3	2566.1	2234.0
67.5°	2531.8	2500.2	2498.9	2463.3	2442.2	2551.6	2675.5	2682.1	2526.6	2377.6	1996.7
70°	2123.3	2069.2	2048.1	2058.7	2154.9	2359.2	2535.8	2485.7	2237.9	2110.1	1700.2
72.5°	1636.9	1572.3	1559.2	1600.0	1749.0	2036.3	2277.5	2207.6	1839.9	1691.0	1316.7
75°	1161.1	1133.5	1134.8	1215.2	1376.0	1652.7	1933.5	1926.9	1362.8	1166.4	906.8
77.5°	844.8	850.1	873.8	905.5	1043.8	1311.4	1575.0	1557.8	970.0	801.3	633.9
80°	697.2	705.1	705.1	688.0	723.6	865.9	1070.2	1142.7	649.8	539.1	442.8
82.5°	500.8	540.4	562.8	535.1	521.9	570.7	670.9	718.3	404.6	340.0	309.7
85°	238.6	272.8	280.7	274.1	315.0	359.8	383.5	392.8	221.4	158.2	203.0
87.5°	0.0	0.0	1.3	10.5	29.0	50.1	50.1	76.4	11.9	4.0	9.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
97.5°	9.0	11.0	13.0	10.0	7.0	6.0	5.0	4.5	4.0	4.0	4.0
100°	30.0	31.0	32.0	31.0	30.0	28.5	27.0	26.5	26.0	25.0	26.0
102.5°	50.0	50.5	51.0	50.5	50.0	49.0	48.0	48.5	49.0	48.0	49.0
105°	70.0	70.5	71.0	71.0	71.0	70.0	69.0	70.0	71.0	69.0	71.0
107.5°	91.0	92.0	93.0	92.5	92.0	91.5	91.0	91.5	92.0	91.0	92.0
110°	112.0	113.0	114.0	114.0	114.0	113.5	113.0	113.5	114.0	113.0	114.0



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CANDELA DISTRIBUTION (continued):

	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
112.5°	134.0	135.0	136.0	136.0	136.0	135.5	135.0	136.0	137.0	135.0	137.0
115°	156.0	157.0	158.0	158.0	158.0	158.0	158.0	159.0	160.0	159.0	160.0
117.5°	179.0	179.5	180.0	180.5	181.0	180.5	180.0	181.0	182.0	180.0	182.0
120°	202.0	203.0	204.0	204.0	204.0	204.0	204.0	205.0	206.0	204.0	206.0
122.5°	227.0	227.5	228.0	228.0	228.0	228.5	229.0	231.0	233.0	232.0	233.0
125°	252.0	252.5	253.0	253.5	254.0	254.0	254.0	255.5	257.0	256.0	257.0
127.5°	276.0	277.0	278.0	277.5	277.0	277.5	278.0	279.5	281.0	278.0	281.0
130°	299.0	300.0	301.0	301.0	301.0	301.5	302.0	303.5	305.0	303.0	305.0
132.5°	322.0	323.5	325.0	325.0	325.0	325.5	326.0	327.5	329.0	327.0	329.0
135°	345.0	346.5	348.0	348.0	348.0	348.5	349.0	350.0	351.0	350.0	351.0
137.5°	367.0	368.0	369.0	369.0	369.0	369.5	370.0	372.0	374.0	372.0	374.0
140°	389.0	389.5	390.0	390.0	390.0	391.0	392.0	394.0	396.0	394.0	396.0
142.5°	410.0	411.0	412.0	412.0	412.0	412.5	413.0	414.5	416.0	415.0	416.0
145°	432.0	433.0	434.0	433.5	433.0	433.5	434.0	435.5	437.0	435.0	437.0
147.5°	453.0	453.5	454.0	453.0	452.0	452.5	453.0	454.5	456.0	453.0	456.0
150°	470.0	470.5	471.0	470.0	469.0	469.0	469.0	471.0	473.0	470.0	473.0
152.5°	486.0	486.5	487.0	486.5	486.0	486.0	486.0	487.5	489.0	486.0	489.0
155°	503.0	503.5	504.0	503.5	503.0	503.5	504.0	505.5	507.0	505.0	507.0
157.5°	519.0	519.0	519.0	518.0	517.0	517.5	518.0	520.5	523.0	520.0	523.0
160°	532.0	532.0	532.0	531.0	530.0	530.0	530.0	531.5	533.0	531.0	533.0
162.5°	541.0	541.5	542.0	541.0	540.0	539.0	538.0	539.0	540.0	537.0	540.0
165°	552.0	552.5	553.0	551.5	550.0	549.0	548.0	549.0	550.0	548.0	550.0
167.5°	560.0	560.0	560.0	559.0	558.0	558.5	559.0	561.0	563.0	561.0	563.0
170°	566.0	565.5	565.0	564.5	564.0	565.0	566.0	568.5	571.0	569.0	571.0
172.5°	568.0	568.5	569.0	568.0	567.0	567.5	568.0	569.5	571.0	568.0	571.0
175°	572.0	572.5	573.0	571.5	570.0	569.0	568.0	569.5	571.0	568.0	571.0
177.5°	577.0	577.0	577.0	575.5	574.0	574.0	574.0	575.5	577.0	574.0	577.0
180°	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	115°	120°	125°	130°	135°	145°	155°	165°
0°	921.3	921.3	921.3	921.3	921.3	921.3	921.3	921.3	921.3	921.3	921.3
2.5°	996.4	979.3	966.1	950.3	937.1	923.9	914.7	894.9	879.1	843.5	834.3
5°	972.7	935.8	910.7	887.0	856.7	835.6	813.2	785.5	755.2	703.8	688.0
7.5°	879.1	833.0	798.7	764.4	724.9	689.3	656.4	619.4	566.7	511.4	490.3
10°	777.6	728.8	681.4	640.5	593.1	553.6	524.6	498.2	456.0	413.8	386.2
12.5°	694.6	639.2	585.2	544.3	519.3	499.5	478.4	457.3	412.5	365.1	332.1
15°	656.4	591.8	544.3	510.1	487.7	463.9	438.9	415.2	362.4	307.1	267.5
17.5°	661.6	587.8	527.2	481.1	450.7	417.8	388.8	358.5	300.5	234.6	199.0
20°	690.6	591.8	508.7	454.7	411.2	369.0	332.1	293.9	222.7	171.3	146.3
22.5°	727.5	605.0	498.2	428.3	374.3	321.6	274.1	229.3	164.7	134.4	122.6
25°	790.8	635.3	495.6	404.6	338.7	275.5	226.7	179.2	133.1	118.6	112.0
27.5°	869.9	669.5	498.2	387.5	308.4	238.6	184.5	148.9	119.9	112.0	106.8
30°	948.9	705.1	486.3	361.1	272.8	204.3	158.2	135.8	118.6	109.4	100.2
32.5°	1018.8	731.5	466.6	333.4	241.2	174.0	134.4	116.0	104.1	93.6	90.9
35°	1068.9	743.3	444.2	316.3	220.1	155.5	118.6	104.1	92.3	81.7	76.4
37.5°	1116.3	744.7	420.4	300.5	212.2	147.6	109.4	96.2	85.7	76.4	71.2
40°	1165.1	739.4	407.3	284.7	200.3	143.7	105.4	89.6	83.0	72.5	67.2
42.5°	1200.7	730.2	402.0	275.5	189.8	133.1	102.8	88.3	79.1	71.2	64.6
45°	1233.6	720.9	402.0	267.5	181.9	126.5	97.5	89.6	76.4	69.9	61.9
47.5°	1273.2	724.9	403.3	261.0	175.3	119.9	92.3	87.0	77.8	68.5	60.6
50°	1340.4	769.7	409.9	257.0	170.0	114.7	88.3	83.0	85.7	67.2	59.3
52.5°	1456.4	840.9	420.4	254.4	164.7	110.7	83.0	80.4	87.0	67.2	58.0
55°	1607.9	913.4	431.0	247.8	156.8	102.8	80.4	75.1	80.4	67.2	56.7
57.5°	1755.5	967.4	440.2	238.6	143.7	94.9	76.4	71.2	73.8	65.9	54.0
60°	1841.2	1009.6	449.4	222.7	127.8	85.7	72.5	67.2	65.9	65.9	52.7
62.5°	1864.9	993.8	444.2	203.0	114.7	79.1	68.5	63.3	59.3	67.2	52.7
65°	1789.8	910.7	424.4	185.8	105.4	76.4	64.6	60.6	56.7	58.0	50.1
67.5°	1559.2	765.7	370.4	170.0	104.1	75.1	61.9	58.0	52.7	51.4	47.4
70°	1271.8	601.0	307.1	158.2	102.8	75.1	59.3	54.0	50.1	46.1	43.5
72.5°	977.9	449.4	258.3	152.9	104.1	73.8	55.4	48.8	44.8	42.2	39.5
75°	688.0	317.6	214.8	137.1	97.5	69.9	51.4	43.5	39.5	36.9	34.3
77.5°	498.2	216.1	159.5	110.7	83.0	60.6	44.8	36.9	32.9	31.6	29.0
80°	317.6	133.1	106.8	81.7	60.6	47.4	34.3	29.0	26.4	23.7	22.4
82.5°	183.2	77.8	64.6	55.4	39.5	31.6	25.0	22.4	17.1	15.8	14.5
85°	112.0	48.8	35.6	29.0	25.0	19.8	14.5	13.2	9.2	7.9	6.6
87.5°	25.0	10.5	9.2	6.6	7.9	6.6	4.0	2.6	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
97.5°	4.5	5.0	6.0	7.0	10.0	13.0	11.0	9.0	4.0	3.0	2.0
100°	26.5	27.0	28.5	30.0	31.0	32.0	31.0	30.0	22.0	14.0	10.0
102.5°	48.5	48.0	49.0	50.0	50.5	51.0	50.5	50.0	45.0	38.0	32.0
105°	70.0	69.0	70.0	71.0	71.0	71.0	70.5	70.0	66.0	61.0	56.0
107.5°	91.5	91.0	91.5	92.0	92.5	93.0	92.0	91.0	88.0	84.0	80.0
110°	113.5	113.0	113.5	114.0	114.0	114.0	113.0	112.0	110.0	106.0	103.0



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REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	100°	105°	110°	115°	120°	125°	130°	135°	145°	155°	165°	
112.5°	136.0	135.0	135.5	136.0	136.0	136.0	135.0	134.0	132.0	129.0	126.0	0°
115°	159.0	158.0	158.0	158.0	158.0	158.0	157.0	156.0	154.0	151.0	149.0	2.5°
117.5°	181.0	180.0	180.5	181.0	180.5	180.0	179.5	179.0	177.0	174.0	172.0	5°
120°	205.0	204.0	204.0	204.0	204.0	204.0	203.0	202.0	201.0	198.0	196.0	7.5°
122.5°	231.0	229.0	228.5	228.0	228.0	228.0	227.5	227.0	226.0	223.0	221.0	10°
125°	255.5	254.0	254.0	254.0	253.5	253.0	252.5	252.0	251.0	248.0	247.0	12.5°
127.5°	279.5	278.0	277.5	277.0	277.5	278.0	277.0	276.0	274.0	272.0	270.0	15°
130°	303.5	302.0	301.5	301.0	301.0	301.0	300.0	299.0	298.0	294.0	293.0	17.5°
132.5°	327.5	326.0	325.5	325.0	325.0	325.0	323.5	322.0	321.0	318.0	317.0	20°
135°	350.0	349.0	348.5	348.0	348.0	348.0	346.5	345.0	345.0	341.0	339.0	22.5°
137.5°	372.0	370.0	369.5	369.0	369.0	369.0	368.0	367.0	367.0	364.0	363.0	25°
140°	394.0	392.0	391.0	390.0	390.0	390.0	389.5	389.0	388.0	386.0	385.0	27.5°
142.5°	414.5	413.0	412.5	412.0	412.0	412.0	411.0	410.0	410.0	407.0	408.0	30°
145°	435.5	434.0	433.5	433.0	433.5	434.0	433.0	432.0	431.0	428.0	428.0	32.5°
147.5°	454.5	453.0	452.5	452.0	453.0	454.0	453.5	453.0	452.0	448.0	447.0	35°
150°	471.0	469.0	469.0	469.0	470.0	471.0	470.5	470.0	469.0	465.0	464.0	37.5°
152.5°	487.5	486.0	486.0	486.0	486.5	487.0	486.5	486.0	485.0	482.0	483.0	40°
155°	505.5	504.0	503.5	503.0	503.5	504.0	503.5	503.0	503.0	501.0	502.0	42.5°
157.5°	520.5	518.0	517.5	517.0	518.0	519.0	519.0	519.0	519.0	516.0	517.0	45°
160°	531.5	530.0	530.0	530.0	531.0	532.0	532.0	532.0	532.0	529.0	529.0	47.5°
162.5°	539.0	538.0	539.0	540.0	541.0	542.0	541.5	541.0	541.0	538.0	539.0	50°
165°	549.0	548.0	549.0	550.0	551.5	553.0	552.5	552.0	552.0	548.0	549.0	52.5°
167.5°	561.0	559.0	558.5	558.0	559.0	560.0	560.0	560.0	561.0	558.0	559.0	55°
170°	568.5	566.0	565.0	564.0	564.5	565.0	565.5	566.0	567.0	565.0	566.0	57.5°
172.5°	569.5	568.0	567.5	567.0	568.0	569.0	568.5	568.0	569.0	567.0	569.0	60°
175°	569.5	568.0	569.0	570.0	571.5	573.0	572.5	572.0	572.0	569.0	570.0	62.5°
177.5°	575.5	574.0	574.0	574.0	575.5	577.0	577.0	577.0	578.0	574.0	575.0	65°
180°	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	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°
												110°

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DISTRIBUTION (continued):

CANDELA DISTRIBUTION

175°	180°	185°	195°	205°	215°	225°	230°	232.5°	235°	237.5°	175°	175°
921.3	921.3	921.3	921.3	921.3	921.3	921.3	921.3	921.3	921.3	921.3	112.5°	124.0
819.8	800.0	801.3	797.4	786.8	769.7	764.4	755.2	756.5	761.8	756.5	115°	147.0
669.5	645.8	648.4	647.1	636.6	624.7	615.5	603.6	599.7	603.6	597.0	117.5°	170.0
474.5	458.7	463.9	475.8	474.5	467.9	460.0	446.8	444.2	445.5	433.6	120°	195.0
362.4	346.6	342.7	341.4	338.7	334.8	324.2	313.7	309.7	311.0	303.1	122.5°	220.0
303.1	290.0	274.1	259.6	246.5	241.2	228.0	221.4	220.1	220.1	216.1	125°	246.0
239.9	229.3	220.1	205.6	195.1	187.2	177.9	172.7	171.3	172.7	172.7	127.5°	269.0
179.2	174.0	170.0	168.7	163.4	158.2	152.9	150.2	148.9	148.9	150.2	130°	292.0
137.1	135.8	135.8	135.8	142.3	147.6	148.9	145.0	143.7	142.3	141.0	132.5°	314.0
118.6	117.3	118.6	126.5	122.6	118.6	118.6	118.6	118.6	118.6	119.9	135°	337.0
109.4	110.7	112.0	108.1	104.1	101.5	100.2	100.2	98.8	98.8	100.2	137.5°	360.0
104.1	102.8	101.5	98.8	96.2	92.3	90.9	89.6	89.6	89.6	89.6	140°	383.0
97.5	96.2	94.9	92.3	88.3	83.0	81.7	81.7	80.4	81.7	81.7	142.5°	406.0
89.6	88.3	87.0	84.4	80.4	77.8	76.4	73.8	73.8	73.8	75.1	145°	426.0
72.5	71.2	71.2	72.5	72.5	71.2	71.2	68.5	68.5	68.5	68.5	147.5°	444.0
67.2	65.9	65.9	64.6	65.9	67.2	65.9	64.6	64.6	63.3	63.3	150°	462.0
63.3	63.3	61.9	60.6	60.6	63.3	61.9	60.6	59.3	59.3	59.3	152.5°	480.0
60.6	59.3	59.3	58.0	58.0	58.0	56.7	55.4	54.0	54.0	54.0	155°	500.0
58.0	58.0	56.7	55.4	54.0	54.0	51.4	50.1	50.1	50.1	51.4	157.5°	515.0
56.7	55.4	55.4	54.0	52.7	50.1	48.8	47.4	47.4	47.4	47.4	160°	527.0
55.4	54.0	52.7	52.7	50.1	48.8	47.4	46.1	46.1	46.1	46.1	162.5°	536.0
54.0	52.7	51.4	50.1	48.8	47.4	46.1	44.8	44.8	44.8	44.8	165°	547.0
51.4	50.1	50.1	48.8	48.8	47.4	46.1	44.8	44.8	44.8	43.5	167.5°	556.0
50.1	48.8	47.4	47.4	47.4	46.1	44.8	43.5	43.5	43.5	43.5	170°	563.0
48.8	47.4	47.4	46.1	46.1	44.8	44.8	43.5	42.2	42.2	40.9	172.5°	566.0
47.4	46.1	46.1	44.8	46.1	44.8	43.5	42.2	40.9	40.9	39.5	175°	569.0
46.1	44.8	44.8	44.8	43.5	43.5	42.2	39.5	39.5	39.5	38.2	177.5°	573.0
43.5	42.2	42.2	43.5	42.2	40.9	40.9	38.2	38.2	36.9	36.9	180°	576.0
39.5	39.5	39.5	40.9	39.5	38.2	38.2	36.9	35.6	34.3	34.3		
36.9	35.6	36.9	36.9	36.9	35.6	36.9	34.3	32.9	31.6	31.6		
31.6	31.6	31.6	31.6	31.6	31.6	31.6	31.6	30.3	29.0	27.7		
25.0	26.4	26.4	26.4	26.4	27.7	26.4	26.4	26.4	25.0	23.7		
18.5	18.5	19.8	21.1	19.8	21.1	19.8	21.1	19.8	19.8	19.8		
10.5	10.5	11.9	13.2	13.2	14.5	11.9	13.2	13.2	14.5	13.2		
4.0	4.0	4.0	4.0	5.3	5.3	4.0	5.3	5.3	6.6	6.6		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
2.0	2.0	2.0	2.0	3.0	4.0	9.0	11.0	12.0	13.0	11.5		
8.0	8.0	8.0	10.0	14.0	22.0	30.0	31.0	31.5	32.0	31.5		
28.0	28.0	28.0	32.0	38.0	45.0	50.0	50.5	50.8	51.0	50.8		
54.0	54.0	54.0	56.0	61.0	66.0	70.0	70.5	70.8	71.0	71.0		
77.0	78.0	77.0	80.0	84.0	88.0	91.0	92.0	92.5	93.0	92.8		
102.0	101.0	102.0	103.0	106.0	110.0	112.0	113.0	113.5	114.0	114.0		

'228441
 ISS-AF-800-LED-E1-SLL-8030-ULG

REPORT NUMBER: P228441
 CATALOG NUMBER: ISS-AF-800

TION (continued):

CANDELA DISTRIBUTION (con

180°	185°	195°	205°	215°	225°	230°	232.5°	235°	237.5°		240°	242.5°
124.0	124.0	126.0	129.0	132.0	134.0	135.0	135.5	136.0	136.0	0°	921.3	921.3
146.0	147.0	149.0	151.0	154.0	156.0	157.0	157.5	158.0	158.0	2.5°	767.1	767.1
169.0	170.0	172.0	174.0	177.0	179.0	179.5	179.8	180.0	180.2	5°	602.3	601.0
193.0	195.0	196.0	198.0	201.0	202.0	203.0	203.5	204.0	204.0	7.5°	437.6	433.6
219.0	220.0	221.0	223.0	226.0	227.0	227.5	227.8	228.0	228.0	10°	305.8	295.2
244.0	246.0	247.0	248.0	251.0	252.0	252.5	252.8	253.0	253.2	12.5°	221.4	217.5
267.0	269.0	270.0	272.0	274.0	276.0	277.0	277.5	278.0	277.8	15°	175.3	175.3
290.0	292.0	293.0	294.0	298.0	299.0	300.0	300.5	301.0	301.0	17.5°	151.6	151.6
313.0	314.0	317.0	318.0	321.0	322.0	323.5	324.2	325.0	325.0	20°	139.7	138.4
336.0	337.0	339.0	341.0	345.0	345.0	346.5	347.2	348.0	348.0	22.5°	119.9	118.6
359.0	360.0	363.0	364.0	367.0	367.0	368.0	368.5	369.0	369.0	25°	98.8	98.8
382.0	383.0	385.0	386.0	388.0	389.0	389.5	389.8	390.0	390.0	27.5°	89.6	89.6
404.0	406.0	408.0	407.0	410.0	410.0	411.0	411.5	412.0	412.0	30°	81.7	83.0
425.0	426.0	428.0	428.0	431.0	432.0	433.0	433.5	434.0	433.8	32.5°	75.1	75.1
444.0	444.0	447.0	448.0	452.0	453.0	453.5	453.8	454.0	453.5	35°	67.2	67.2
461.0	462.0	464.0	465.0	469.0	470.0	470.5	470.8	471.0	470.5	37.5°	61.9	60.6
479.0	480.0	483.0	482.0	485.0	486.0	486.5	486.8	487.0	486.8	40°	56.7	56.7
499.0	500.0	502.0	501.0	503.0	503.0	503.5	503.8	504.0	503.8	42.5°	52.7	52.7
513.0	515.0	517.0	516.0	519.0	519.0	519.0	519.0	519.0	518.5	45°	50.1	50.1
525.0	527.0	529.0	529.0	532.0	532.0	532.0	532.0	532.0	531.5	47.5°	48.8	48.8
535.0	536.0	539.0	538.0	541.0	541.0	541.5	541.8	542.0	541.5	50°	46.1	46.1
546.0	547.0	549.0	548.0	552.0	552.0	552.5	552.8	553.0	552.2	52.5°	44.8	44.8
555.0	556.0	559.0	558.0	561.0	560.0	560.0	560.0	560.0	559.5	55°	43.5	44.8
562.0	563.0	566.0	565.0	567.0	566.0	565.5	565.2	565.0	564.8	57.5°	42.2	42.2
565.0	566.0	569.0	567.0	569.0	568.0	568.5	568.8	569.0	568.5	60°	40.9	40.9
567.0	569.0	570.0	569.0	572.0	572.0	572.5	572.8	573.0	572.2	62.5°	39.5	39.5
572.0	573.0	575.0	574.0	578.0	577.0	577.0	577.0	577.0	576.2	65°	38.2	38.2
576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	67.5°	35.6	35.6
										70°	32.9	32.9
										72.5°	30.3	30.3
										75°	27.7	26.4
										77.5°	23.7	22.4
										80°	19.8	18.5
										82.5°	14.5	13.2
										85°	6.6	6.6
										87.5°	0.0	0.0
										90°	0.0	0.0
										92.5°	0.0	0.0
										95°	1.0	1.0
										97.5°	10.0	8.5
										100°	31.0	30.5
										102.5°	50.5	50.2
										105°	71.0	71.0
										107.5°	92.5	92.2
										110°	114.0	114.0



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0-LED-E1-SLL-8030-ULG

tinued):

CANDELA DISTRIBUTION (continued):

245°	247.5°	250°	252.5°	255°	257.5°	260°	265°	270°		240°	242.5°	245°
921.3	921.3	921.3	921.3	921.3	921.3	921.3	921.3	921.3	112.5°	136.0	136.0	136.0
751.2	753.9	756.5	761.8	759.2	757.8	756.5	764.4	768.4	115°	158.0	158.0	158.0
581.2	579.9	583.9	585.2	581.2	574.6	570.7	572.0	576.0	117.5°	180.5	180.8	181.0
415.2	412.5	411.2	412.5	408.6	402.0	396.7	398.0	402.0	120°	204.0	204.0	204.0
292.6	293.9	296.5	299.2	299.2	299.2	300.5	308.4	317.6	122.5°	228.0	228.0	228.0
220.1	222.7	228.0	232.0	235.9	237.2	238.6	249.1	257.0	125°	253.5	253.8	254.0
177.9	179.2	181.9	184.5	187.2	187.2	188.5	192.4	199.0	127.5°	277.5	277.2	277.0
151.6	151.6	151.6	150.2	148.9	146.3	145.0	143.7	145.0	130°	301.0	301.0	301.0
135.8	134.4	131.8	129.2	127.8	123.9	122.6	118.6	117.3	132.5°	325.0	325.0	325.0
118.6	118.6	118.6	117.3	116.0	114.7	112.0	108.1	105.4	135°	348.0	348.0	348.0
98.8	100.2	100.2	101.5	104.1	104.1	104.1	104.1	100.2	137.5°	369.0	369.0	369.0
89.6	89.6	90.9	90.9	92.3	92.3	92.3	93.6	94.9	140°	390.0	390.0	390.0
83.0	84.4	84.4	85.7	85.7	87.0	87.0	88.3	88.3	142.5°	412.0	412.0	412.0
76.4	77.8	77.8	77.8	80.4	80.4	79.1	80.4	80.4	145°	433.5	433.2	433.0
67.2	67.2	67.2	67.2	67.2	67.2	64.6	63.3	64.6	147.5°	453.0	452.5	452.0
60.6	59.3	58.0	58.0	58.0	59.3	58.0	59.3	59.3	150°	470.0	469.5	469.0
55.4	55.4	55.4	55.4	55.4	55.4	55.4	56.7	58.0	152.5°	486.5	486.2	486.0
52.7	52.7	52.7	52.7	52.7	52.7	52.7	54.0	54.0	155°	503.5	503.2	503.0
50.1	50.1	51.4	51.4	51.4	51.4	51.4	51.4	52.7	157.5°	518.0	517.5	517.0
48.8	48.8	48.8	48.8	48.8	48.8	48.8	50.1	51.4	160°	531.0	530.5	530.0
47.4	47.4	47.4	47.4	47.4	47.4	47.4	48.8	50.1	162.5°	541.0	540.5	540.0
44.8	46.1	46.1	46.1	46.1	46.1	46.1	46.1	47.4	165°	551.5	550.8	550.0
44.8	44.8	44.8	44.8	43.5	43.5	43.5	43.5	44.8	167.5°	559.0	558.5	558.0
43.5	43.5	43.5	42.2	42.2	40.9	40.9	40.9	43.5	170°	564.5	564.2	564.0
40.9	40.9	40.9	39.5	39.5	39.5	39.5	40.9	40.9	172.5°	568.0	567.5	567.0
38.2	38.2	38.2	38.2	38.2	38.2	38.2	38.2	38.2	175°	571.5	570.8	570.0
36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9	177.5°	575.5	574.8	574.0
35.6	34.3	34.3	34.3	34.3	35.6	34.3	34.3	34.3	180°	576.0	576.0	576.0
32.9	31.6	31.6	31.6	31.6	31.6	31.6	31.6	31.6				
30.3	30.3	29.0	29.0	29.0	29.0	29.0	29.0	29.0				
26.4	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0				
22.4	22.4	21.1	21.1	21.1	21.1	21.1	21.1	21.1				
18.5	17.1	17.1	17.1	17.1	17.1	17.1	15.8	15.8				
13.2	13.2	13.2	11.9	11.9	11.9	11.9	10.5	9.2				
5.3	6.6	6.6	7.9	6.6	6.6	6.6	5.3	2.6				
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0				
7.0	6.5	6.0	5.5	5.0	4.8	4.5	4.0	4.0				
30.0	29.2	28.5	27.8	27.0	26.8	26.5	26.0	25.0				
50.0	49.5	49.0	48.5	48.0	48.2	48.5	49.0	48.0				
71.0	70.5	70.0	69.5	69.0	69.5	70.0	71.0	69.0				
92.0	91.8	91.5	91.2	91.0	91.2	91.5	92.0	91.0				
114.0	113.8	113.5	113.2	113.0	113.2	113.5	114.0	113.0				



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SLL-8030-ULG

CANDELA DISTRIBUTION (continued):

247.5°	250°	252.5°	255°	257.5°	260°	265°	270°		275°	280°	282.5°	285°
135.8	135.5	135.2	135.0	135.5	136.0	137.0	135.0	0°	921.3	921.3	921.3	921.3
158.0	158.0	158.0	158.0	158.5	159.0	160.0	159.0	2.5°	765.7	778.9	780.2	772.3
180.8	180.5	180.2	180.0	180.5	181.0	182.0	180.0	5°	570.7	587.8	586.5	576.0
204.0	204.0	204.0	204.0	204.5	205.0	206.0	204.0	7.5°	403.3	417.8	416.5	415.2
228.2	228.5	228.8	229.0	230.0	231.0	233.0	232.0	10°	326.9	340.0	344.0	353.2
254.0	254.0	254.0	254.0	254.8	255.5	257.0	256.0	12.5°	264.9	280.7	284.7	295.2
277.2	277.5	277.8	278.0	278.8	279.5	281.0	278.0	15°	204.3	217.5	221.4	229.3
301.2	301.5	301.8	302.0	302.8	303.5	305.0	303.0	17.5°	150.2	158.2	160.8	166.1
325.2	325.5	325.8	326.0	326.8	327.5	329.0	327.0	20°	117.3	119.9	121.3	122.6
348.2	348.5	348.8	349.0	349.5	350.0	351.0	350.0	22.5°	105.4	106.8	106.8	108.1
369.2	369.5	369.8	370.0	371.0	372.0	374.0	372.0	25°	97.5	98.8	98.8	100.2
390.5	391.0	391.5	392.0	393.0	394.0	396.0	394.0	27.5°	93.6	93.6	93.6	93.6
412.2	412.5	412.8	413.0	413.8	414.5	416.0	415.0	30°	89.6	89.6	89.6	90.9
433.2	433.5	433.8	434.0	434.8	435.5	437.0	435.0	32.5°	83.0	80.4	83.0	81.7
452.2	452.5	452.8	453.0	453.8	454.5	456.0	453.0	35°	64.6	64.6	65.9	67.2
469.0	469.0	469.0	469.0	470.0	471.0	473.0	470.0	37.5°	60.6	61.9	61.9	63.3
486.0	486.0	486.0	486.0	486.8	487.5	489.0	486.0	40°	58.0	59.3	60.6	61.9
503.2	503.5	503.8	504.0	504.8	505.5	507.0	505.0	42.5°	55.4	58.0	58.0	59.3
517.2	517.5	517.8	518.0	519.2	520.5	523.0	520.0	45°	54.0	55.4	56.7	58.0
530.0	530.0	530.0	530.0	530.8	531.5	533.0	531.0	47.5°	52.7	54.0	55.4	56.7
539.5	539.0	538.5	538.0	538.5	539.0	540.0	537.0	50°	50.1	52.7	54.0	55.4
549.5	549.0	548.5	548.0	548.5	549.0	550.0	548.0	52.5°	48.8	51.4	51.4	54.0
558.2	558.5	558.8	559.0	560.0	561.0	563.0	561.0	55°	46.1	48.8	48.8	51.4
564.5	565.0	565.5	566.0	567.2	568.5	571.0	569.0	57.5°	43.5	46.1	47.4	48.8
567.2	567.5	567.8	568.0	568.8	569.5	571.0	568.0	60°	42.2	43.5	44.8	46.1
569.5	569.0	568.5	568.0	568.8	569.5	571.0	568.0	62.5°	39.5	42.2	43.5	44.8
574.0	574.0	574.0	574.0	574.8	575.5	577.0	574.0	65°	38.2	40.9	40.9	43.5
576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	67.5°	35.6	38.2	38.2	39.5
								70°	32.9	34.3	35.6	36.9
								72.5°	30.3	31.6	31.6	32.9
								75°	25.0	26.4	27.7	29.0
								77.5°	21.1	21.1	23.7	23.7
								80°	15.8	15.8	17.1	18.5
								82.5°	9.2	9.2	10.5	10.5
								85°	2.6	2.6	2.6	2.6
								87.5°	0.0	0.0	0.0	0.0
								90°	0.0	0.0	0.0	0.0
								92.5°	0.0	0.0	0.0	0.0
								95°	1.0	1.0	1.0	1.0
								97.5°	4.0	4.5	4.8	5.0
								100°	26.0	26.5	26.8	27.0
								102.5°	49.0	48.5	48.2	48.0
								105°	71.0	70.0	69.5	69.0
								107.5°	92.0	91.5	91.2	91.0
								110°	114.0	113.5	113.2	113.0



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CANDELA DISTRIBUTION (continued):

287.5°	290°	292.5°	295°	297.5°	300°	302.5°		275°	280°	282.5°	285°	287.5°
921.3	921.3	921.3	921.3	921.3	921.3	921.3	112.5°	137.0	136.0	135.5	135.0	135.2
788.2	790.8	786.8	786.8	789.5	800.0	800.0	115°	160.0	159.0	158.5	158.0	158.0
597.0	603.6	599.7	601.0	606.3	618.1	624.7	117.5°	182.0	181.0	180.5	180.0	180.2
428.3	433.6	436.3	440.2	456.0	457.3	465.2	120°	206.0	205.0	204.5	204.0	204.0
357.2	365.1	370.4	376.9	390.1	396.7	405.9	122.5°	233.0	231.0	230.0	229.0	228.8
300.5	309.7	315.0	328.2	336.1	344.0	355.9	125°	257.0	255.5	254.8	254.0	254.0
234.6	245.1	250.4	258.3	274.1	282.0	297.9	127.5°	281.0	279.5	278.8	278.0	277.8
170.0	174.0	184.5	197.7	206.9	220.1	228.0	130°	305.0	303.5	302.8	302.0	301.8
125.2	127.8	133.1	142.3	147.6	158.2	166.1	132.5°	329.0	327.5	326.8	326.0	325.8
108.1	109.4	112.0	114.7	117.3	121.3	125.2	135°	351.0	350.0	349.5	349.0	348.8
100.2	101.5	102.8	104.1	106.8	108.1	109.4	137.5°	374.0	372.0	371.0	370.0	369.8
94.9	94.9	96.2	98.8	98.8	101.5	102.8	140°	396.0	394.0	393.0	392.0	391.5
92.3	94.9	97.5	101.5	102.8	105.4	106.8	142.5°	416.0	414.5	413.8	413.0	412.8
79.1	79.1	80.4	83.0	83.0	84.4	85.7	145°	437.0	435.5	434.8	434.0	433.8
67.2	68.5	69.9	71.2	72.5	75.1	76.4	147.5°	456.0	454.5	453.8	453.0	452.8
64.6	64.6	65.9	68.5	69.9	71.2	72.5	150°	473.0	471.0	470.0	469.0	469.0
61.9	63.3	64.6	65.9	67.2	69.9	71.2	152.5°	489.0	487.5	486.8	486.0	486.0
60.6	61.9	63.3	64.6	67.2	68.5	69.9	155°	507.0	505.5	504.8	504.0	503.8
59.3	60.6	61.9	64.6	65.9	68.5	69.9	157.5°	523.0	520.5	519.2	518.0	517.8
58.0	59.3	60.6	63.3	65.9	68.5	71.2	160°	533.0	531.5	530.8	530.0	530.0
56.7	58.0	60.6	63.3	65.9	69.9	76.4	162.5°	540.0	539.0	538.5	538.0	538.5
55.4	58.0	60.6	63.3	67.2	72.5	79.1	165°	550.0	549.0	548.5	548.0	548.5
54.0	56.7	58.0	61.9	65.9	71.2	72.5	167.5°	563.0	561.0	560.0	559.0	558.8
51.4	54.0	55.4	59.3	64.6	65.9	64.6	170°	571.0	568.5	567.2	566.0	565.5
48.8	50.1	54.0	61.9	67.2	61.9	55.4	172.5°	571.0	569.5	568.8	568.0	567.8
47.4	48.8	51.4	56.7	58.0	51.4	50.1	175°	571.0	569.5	568.8	568.0	568.5
44.8	44.8	46.1	46.1	46.1	46.1	46.1	177.5°	577.0	575.5	574.8	574.0	574.0
40.9	40.9	42.2	42.2	42.2	42.2	42.2	180°	576.0	576.0	576.0	576.0	576.0
36.9	36.9	38.2	38.2	38.2	39.5	39.5						
32.9	34.3	34.3	35.6	35.6	35.6	36.9						
29.0	30.3	30.3	30.3	30.3	31.6	31.6						
25.0	25.0	26.4	26.4	26.4	26.4	26.4						
19.8	19.8	19.8	19.8	19.8	19.8	19.8						
11.9	11.9	13.2	11.9	11.9	10.5	10.5						
2.6	2.6	2.6	1.3	1.3	0.0	0.0						
0.0	0.0	0.0	0.0	0.0	0.0	0.0						
0.0	0.0	0.0	0.0	0.0	0.0	0.0						
0.0	0.0	0.0	0.0	0.0	0.0	0.0						
1.0	1.0	1.0	1.0	1.0	1.0	1.0						
5.5	6.0	6.5	7.0	8.5	10.0	11.5						
27.8	28.5	29.2	30.0	30.5	31.0	31.5						
48.5	49.0	49.5	50.0	50.2	50.5	50.8						
69.5	70.0	70.5	71.0	71.0	71.0	71.0						
91.2	91.5	91.8	92.0	92.2	92.5	92.8						
113.2	113.5	113.8	114.0	114.0	114.0	114.0						



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CANDELA DISTRIBUTION (continued):

290°	292.5°	295°	297.5°	300°	302.5°		305°	307.5°	310°	312.5°	315°	317.5°
135.5	135.8	136.0	136.0	136.0	136.0	0°	921.3	921.3	921.3	921.3	921.3	921.3
158.0	158.0	158.0	158.0	158.0	158.0	2.5°	819.8	819.8	822.4	833.0	835.6	842.2
180.5	180.8	181.0	180.8	180.5	180.2	5°	648.4	653.7	661.6	674.8	682.7	697.2
204.0	204.0	204.0	204.0	204.0	204.0	7.5°	483.7	491.6	498.2	512.7	524.6	539.1
228.5	228.2	228.0	228.0	228.0	228.0	10°	419.1	425.7	434.9	444.2	456.0	462.6
254.0	254.0	254.0	253.8	253.5	253.2	12.5°	373.0	382.2	391.4	404.6	416.5	428.3
277.5	277.2	277.0	277.2	277.5	277.8	15°	316.3	326.9	337.4	351.9	369.0	380.9
301.5	301.2	301.0	301.0	301.0	301.0	17.5°	245.1	257.0	271.5	291.3	309.7	324.2
325.5	325.2	325.0	325.0	325.0	325.0	20°	180.6	191.1	204.3	221.4	234.6	259.6
348.5	348.2	348.0	348.0	348.0	348.0	22.5°	133.1	139.7	150.2	163.4	177.9	200.3
369.5	369.2	369.0	369.0	369.0	369.0	25°	112.0	114.7	118.6	126.5	135.8	151.6
391.0	390.5	390.0	390.0	390.0	390.0	27.5°	104.1	105.4	108.1	112.0	117.3	125.2
412.5	412.2	412.0	412.0	412.0	412.0	30°	109.4	109.4	109.4	110.7	113.3	117.3
433.5	433.2	433.0	433.2	433.5	433.8	32.5°	88.3	89.6	89.6	92.3	93.6	98.8
452.5	452.2	452.0	452.5	453.0	453.5	35°	79.1	80.4	81.7	83.0	85.7	87.0
469.0	469.0	469.0	469.5	470.0	470.5	37.5°	75.1	76.4	77.8	77.8	79.1	81.7
486.0	486.0	486.0	486.2	486.5	486.8	40°	73.8	73.8	73.8	73.8	76.4	79.1
503.5	503.2	503.0	503.2	503.5	503.8	42.5°	71.2	71.2	71.2	72.5	76.4	81.7
517.5	517.2	517.0	517.5	518.0	518.5	45°	71.2	71.2	72.5	77.8	79.1	79.1
530.0	530.0	530.0	530.5	531.0	531.5	47.5°	73.8	76.4	77.8	76.4	75.1	75.1
539.0	539.5	540.0	540.5	541.0	541.5	50°	80.4	79.1	73.8	72.5	72.5	69.9
549.0	549.5	550.0	550.8	551.5	552.2	52.5°	79.1	73.8	72.5	69.9	67.2	65.9
558.5	558.2	558.0	558.5	559.0	559.5	55°	71.2	69.9	65.9	63.3	61.9	63.3
565.0	564.5	564.0	564.2	564.5	564.8	57.5°	61.9	60.6	58.0	58.0	59.3	60.6
567.5	567.2	567.0	567.5	568.0	568.5	60°	54.0	54.0	54.0	55.4	56.7	58.0
569.0	569.5	570.0	570.8	571.5	572.2	62.5°	48.8	50.1	50.1	52.7	54.0	55.4
574.0	574.0	574.0	574.8	575.5	576.2	65°	46.1	47.4	48.8	48.8	50.1	51.4
576.0	576.0	576.0	576.0	576.0	576.0	67.5°	43.5	43.5	44.8	46.1	47.4	48.8
						70°	39.5	40.9	42.2	43.5	43.5	44.8
						72.5°	36.9	36.9	38.2	39.5	39.5	42.2
						75°	31.6	32.9	32.9	32.9	34.3	36.9
						77.5°	27.7	26.4	27.7	27.7	29.0	30.3
						80°	19.8	18.5	18.5	19.8	19.8	19.8
						82.5°	10.5	9.2	10.5	9.2	9.2	10.5
						85°	0.0	0.0	0.0	0.0	0.0	0.0
						87.5°	0.0	0.0	0.0	0.0	0.0	0.0
						90°	0.0	0.0	0.0	0.0	0.0	0.0
						92.5°	0.0	0.0	0.0	0.0	0.0	0.0
						95°	1.0	1.0	1.0	1.0	1.0	1.0
						97.5°	13.0	12.0	11.0	10.0	9.0	7.8
						100°	32.0	31.5	31.0	30.5	30.0	28.0
						102.5°	51.0	50.8	50.5	50.2	50.0	48.8
						105°	71.0	70.8	70.5	70.2	70.0	69.0
						107.5°	93.0	92.5	92.0	91.5	91.0	90.2
						110°	114.0	113.5	113.0	112.5	112.0	111.5



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CANDELA DISTRIBUTION (continued):

320°	322.5°	325°	335°	345°		305°	307.5°	310°	312.5°	315°	317.5°	320°
921.3	921.3	921.3	921.3	921.3	112.5°	136.0	135.5	135.0	134.5	134.0	133.5	133.0
840.9	852.7	858.0	889.6	922.6	115°	158.0	157.5	157.0	156.5	156.0	155.5	155.0
694.6	718.3	722.3	780.2	836.9	117.5°	180.0	179.8	179.5	179.2	179.0	178.5	178.0
543.0	570.7	578.6	655.0	734.1	120°	204.0	203.5	203.0	202.5	202.0	201.8	201.5
473.2	486.3	495.6	552.2	643.2	122.5°	228.0	227.8	227.5	227.2	227.0	226.8	226.5
438.9	452.1	463.9	510.1	581.2	125°	253.0	252.8	252.5	252.2	252.0	251.8	251.5
392.8	407.3	421.8	478.4	561.5	127.5°	278.0	277.5	277.0	276.5	276.0	275.5	275.0
336.1	355.9	374.3	442.8	552.2	130°	301.0	300.5	300.0	299.5	299.0	298.8	298.5
272.8	296.5	319.0	404.6	539.1	132.5°	325.0	324.2	323.5	322.8	322.0	321.8	321.5
214.8	235.9	261.0	369.0	539.1	135°	348.0	347.2	346.5	345.8	345.0	345.0	345.0
166.1	187.2	212.2	337.4	553.6	137.5°	369.0	368.5	368.0	367.5	367.0	367.0	367.0
135.8	152.9	177.9	312.4	574.6	140°	390.0	389.8	389.5	389.2	389.0	388.8	388.5
122.6	133.1	148.9	275.5	589.1	142.5°	412.0	411.5	411.0	410.5	410.0	410.0	410.0
104.1	112.0	126.5	253.1	598.4	145°	434.0	433.5	433.0	432.5	432.0	431.8	431.5
92.3	101.5	116.0	238.6	597.0	147.5°	454.0	453.8	453.5	453.2	453.0	452.8	452.5
85.7	94.9	112.0	233.3	597.0	150°	471.0	470.8	470.5	470.2	470.0	469.8	469.5
85.7	94.9	109.4	228.0	601.0	152.5°	487.0	486.8	486.5	486.2	486.0	485.8	485.5
84.4	89.6	101.5	225.4	607.6	155°	504.0	503.8	503.5	503.2	503.0	503.0	503.0
80.4	84.4	96.2	225.4	620.8	157.5°	519.0	519.0	519.0	519.0	519.0	519.0	519.0
75.1	80.4	92.3	229.3	645.8	160°	532.0	532.0	532.0	532.0	532.0	532.0	532.0
71.2	76.4	90.9	229.3	697.2	162.5°	542.0	541.8	541.5	541.2	541.0	541.0	541.0
67.2	75.1	89.6	226.7	771.0	165°	553.0	552.8	552.5	552.2	552.0	552.0	552.0
65.9	72.5	87.0	224.1	862.0	167.5°	560.0	560.0	560.0	560.0	560.0	560.2	560.5
64.6	69.9	80.4	217.5	934.4	170°	565.0	565.2	565.5	565.8	566.0	566.2	566.5
61.9	65.9	73.8	205.6	983.2	172.5°	569.0	568.8	568.5	568.2	568.0	568.2	568.5
58.0	61.9	67.2	192.4	993.8	175°	573.0	572.8	572.5	572.2	572.0	572.0	572.0
55.4	59.3	67.2	181.9	929.2	177.5°	577.0	577.0	577.0	577.0	577.0	577.2	577.5
51.4	58.0	68.5	172.7	788.2	180°	576.0	576.0	576.0	576.0	576.0	576.0	576.0
48.8	58.0	69.9	168.7	626.0								
46.1	56.7	71.2	162.1	471.8								
42.2	51.4	61.9	134.4	319.0								
34.3	39.5	46.1	85.7	168.7								
22.4	23.7	26.4	52.7	93.6								
10.5	13.2	13.2	25.0	42.2								
0.0	0.0	0.0	2.6	9.2								
0.0	0.0	0.0	0.0	0.0								
0.0	0.0	0.0	0.0	0.0								
0.0	0.0	0.0	0.0	0.0								
1.0	1.0	1.0	1.0	1.0								
6.5	5.2	4.0	3.0	2.0								
26.0	24.0	22.0	14.0	10.0								
47.5	46.2	45.0	38.0	32.0								
68.0	67.0	66.0	61.0	56.0								
89.5	88.8	88.0	84.0	80.0								
111.0	110.5	110.0	106.0	103.0								

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CANDELA DISTRIBUTION (continued):

322.5°	325°	335°	345°		355°	359°	360°
132.5	132.0	129.0	126.0	0°	921.3	921.3	921.3
154.5	154.0	151.0	149.0	2.5°	954.2	970.0	977.9
177.5	177.0	174.0	172.0	5°	902.8	935.8	946.3
201.2	201.0	198.0	196.0	7.5°	825.1	862.0	876.5
226.2	226.0	223.0	221.0	10°	747.3	793.4	807.9
251.2	251.0	248.0	247.0	12.5°	701.2	756.5	764.4
274.5	274.0	272.0	270.0	15°	682.7	739.4	755.2
298.2	298.0	294.0	293.0	17.5°	701.2	764.4	780.2
321.2	321.0	318.0	317.0	20°	736.7	814.5	839.6
345.0	345.0	341.0	339.0	22.5°	797.4	902.8	934.4
367.0	367.0	364.0	363.0	25°	896.2	1042.5	1070.2
388.2	388.0	386.0	385.0	27.5°	1001.7	1153.2	1196.7
410.0	410.0	407.0	408.0	30°	1093.9	1256.0	1291.6
431.2	431.0	428.0	428.0	32.5°	1159.8	1337.7	1378.6
452.2	452.0	448.0	447.0	35°	1237.6	1431.3	1470.9
469.2	469.0	465.0	464.0	37.5°	1327.2	1544.7	1598.7
485.2	485.0	482.0	483.0	40°	1426.1	1662.0	1722.6
503.0	503.0	501.0	502.0	42.5°	1515.7	1771.4	1838.6
519.0	519.0	516.0	517.0	45°	1585.5	1874.2	1926.9
532.0	532.0	529.0	529.0	47.5°	1665.9	1953.2	2012.6
541.0	541.0	538.0	539.0	50°	1776.6	2053.4	2123.3
552.0	552.0	548.0	549.0	52.5°	1938.7	2223.4	2273.5
560.8	561.0	558.0	559.0	55°	2135.1	2429.0	2485.7
566.8	567.0	565.0	566.0	57.5°	2315.7	2620.1	2668.9
568.8	569.0	567.0	569.0	60°	2431.7	2708.4	2749.3
572.0	572.0	569.0	570.0	62.5°	2433.0	2711.1	2762.5
577.8	578.0	574.0	575.0	65°	2336.8	2653.1	2711.1
576.0	576.0	576.0	576.0	67.5°	2092.9	2505.5	2595.1
				70°	1767.4	2215.5	2315.7
				72.5°	1378.6	1741.0	1855.7
				75°	934.4	1155.9	1256.0
				77.5°	594.4	666.9	699.8
				80°	350.6	394.1	411.2
				82.5°	217.5	234.6	251.7
				85°	88.3	63.3	68.5
				87.5°	0.0	0.0	0.0
				90°	0.0	0.0	0.0
				92.5°	0.0	0.0	0.0
				95°	1.0	1.0	1.0
				97.5°	2.0	2.0	2.0
				100°	8.0	8.0	8.0
				102.5°	28.0	28.0	28.0
				105°	54.0	54.0	54.0
				107.5°	77.0	77.8	78.0
				110°	102.0	101.2	101.0

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CANDELA DISTRIBUTION (continued):

	355°	359°	360°
112.5°	124.0	124.0	124.0
115°	147.0	146.2	146.0
117.5°	170.0	169.2	169.0
120°	195.0	193.4	193.0
122.5°	220.0	219.2	219.0
125°	246.0	244.4	244.0
127.5°	269.0	267.4	267.0
130°	292.0	290.4	290.0
132.5°	314.0	313.2	313.0
135°	337.0	336.2	336.0
137.5°	360.0	359.2	359.0
140°	383.0	382.2	382.0
142.5°	406.0	404.4	404.0
145°	426.0	425.2	425.0
147.5°	444.0	444.0	444.0
150°	462.0	461.2	461.0
152.5°	480.0	479.2	479.0
155°	500.0	499.2	499.0
157.5°	515.0	513.4	513.0
160°	527.0	525.4	525.0
162.5°	536.0	535.2	535.0
165°	547.0	546.2	546.0
167.5°	556.0	555.2	555.0
170°	563.0	562.2	562.0
172.5°	566.0	565.2	565.0
175°	569.0	567.4	567.0
177.5°	573.0	572.2	572.0
180°	576.0	576.0	576.0

(END OF REPORT)