

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: P227688

Luminaire Tested: **ISS-AF-1000-LED-E1-T3-7050-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P227688
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29759)-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-1000-LED-E1-T3-7050-ULG
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE WITH UPLIGHT
LIGHT SQUARE WITH ACCULED OPTICS-TYPE III, 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: 7205.2 lumens
Efficiency: N/A
Efficacy: 101.1 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 0.54')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B1 - U5 - G2

Input Watts (W): 71.3
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

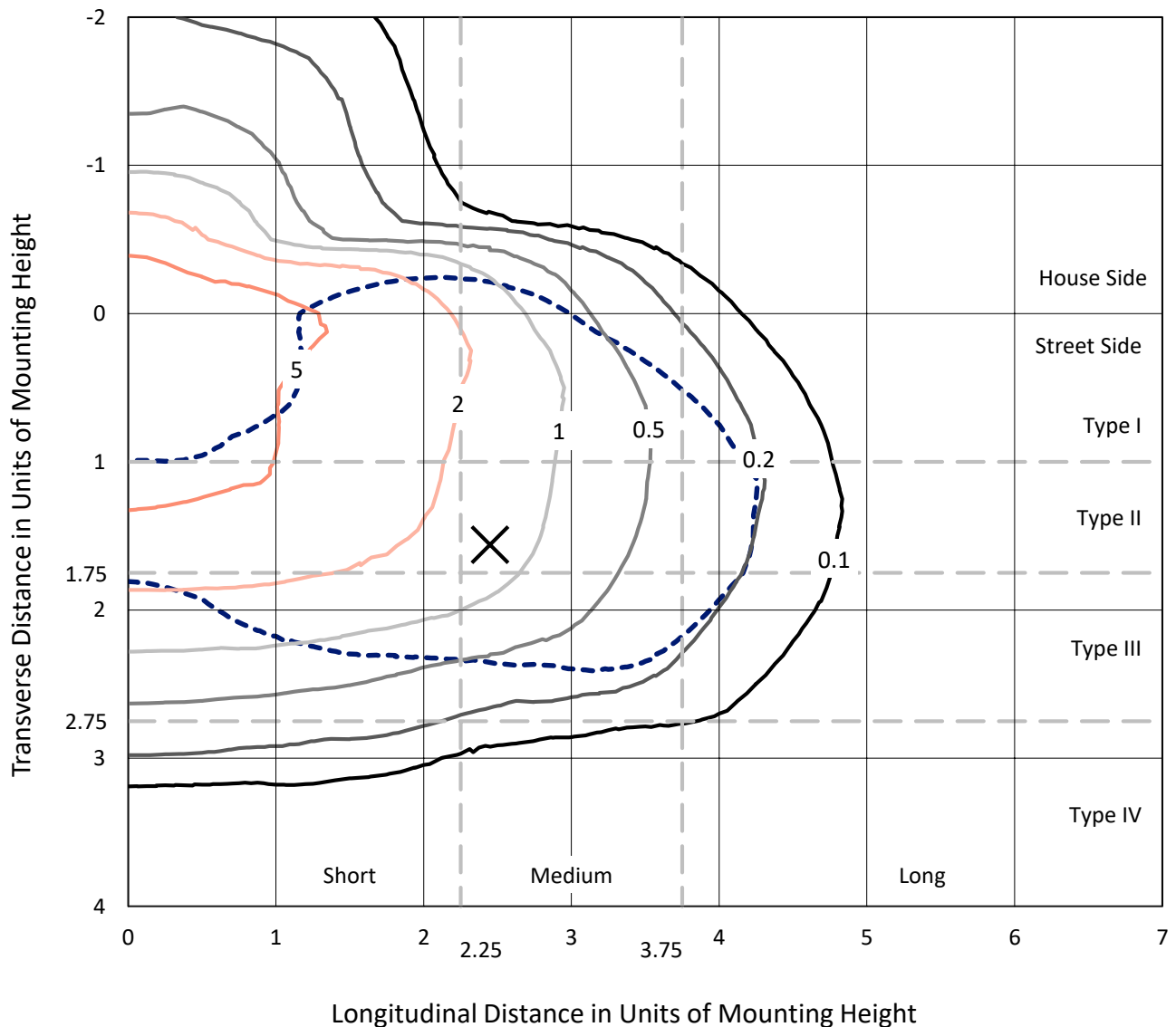


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

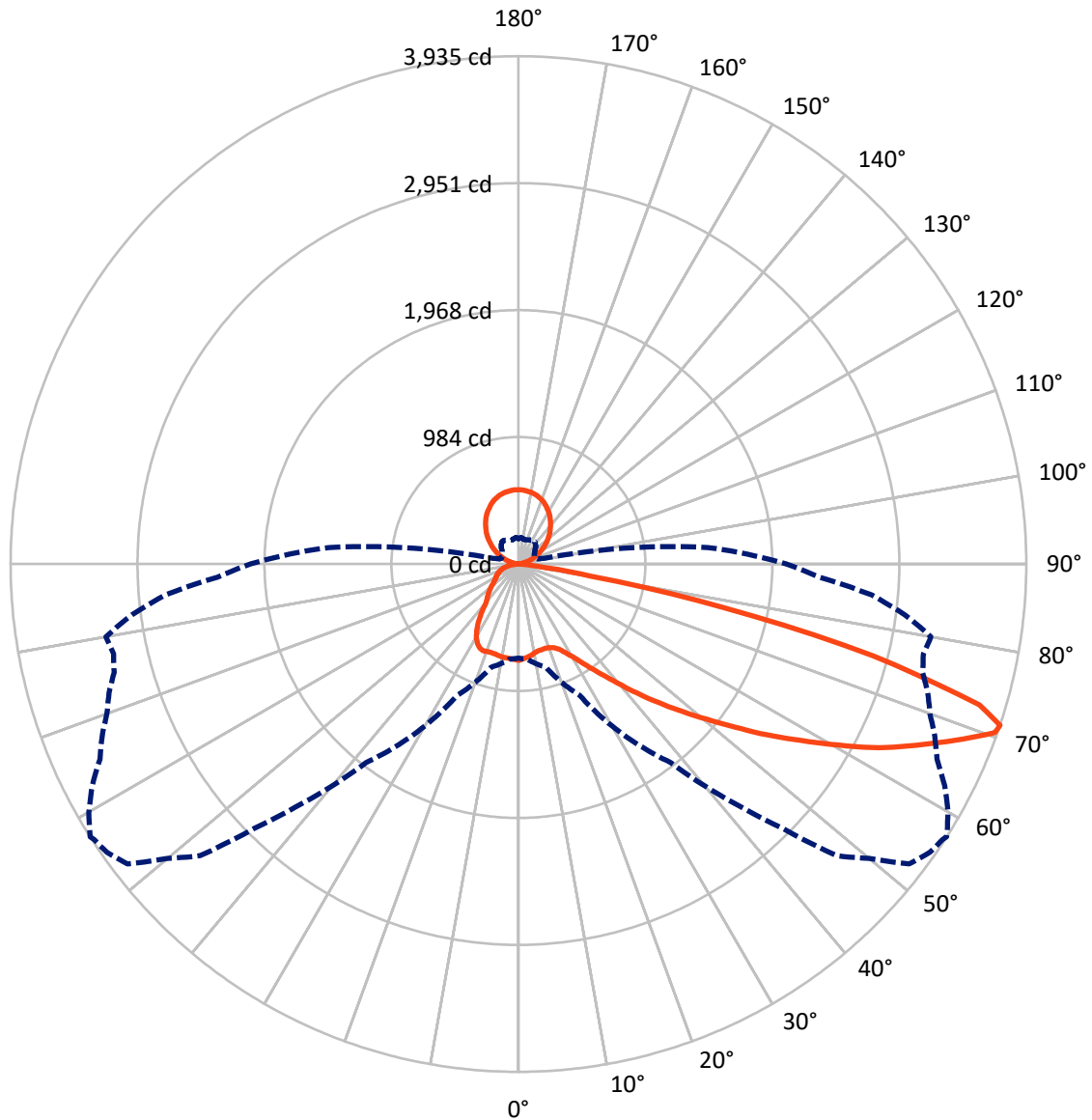


Based on 10 foot mounting height. Maximum calculated value = 7.5 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 57.5-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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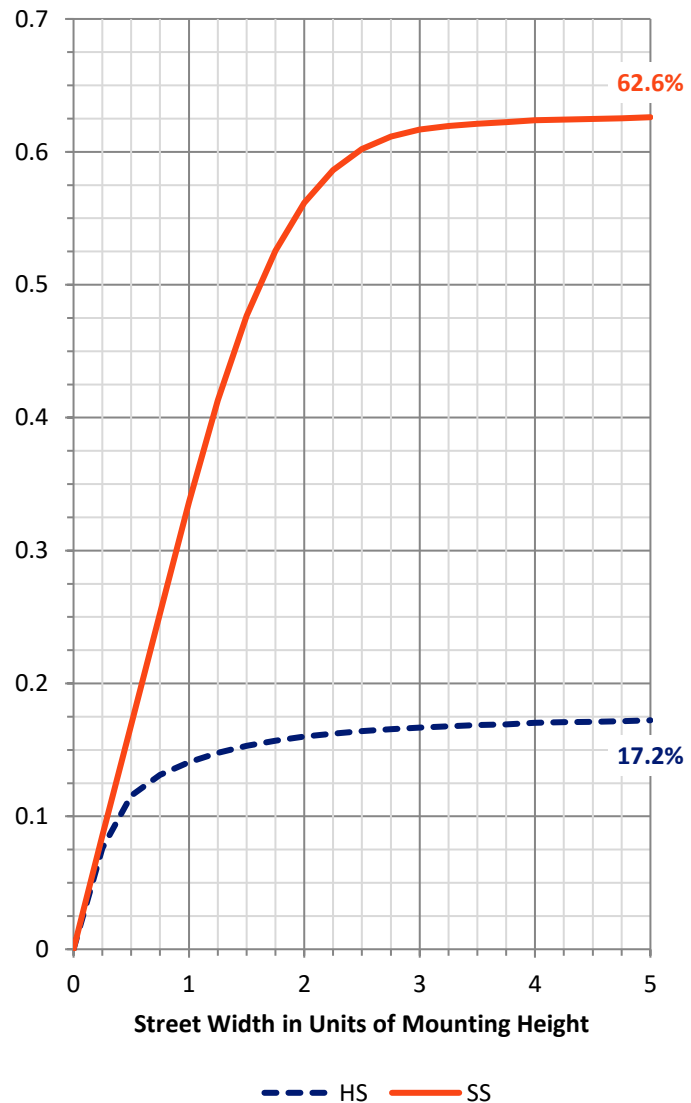
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1258.1	713.1	1971.2
	% Fixture	17.5	9.9	27.4
Street Side	Lumens	4520.9	713.1	5234.0
	% Fixture	62.7	9.9	72.6
Total	Lumens	5779.0	1426.2	7205.2
	% Fixture	80.2	19.8	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.3	1.0
10°-20°	202.5	2.8
20°-30°	336.1	4.7
30°-40°	535.0	7.4
40°-50°	869.2	12.1
50°-60°	1303.2	18.1
60°-70°	1554.7	21.6
70°-80°	839.7	11.7
80°-90°	68.3	0.9
90°-100°	4.7	0.1
100°-110°	69.0	1.0
110°-120°	153.0	2.1
120°-130°	223.9	3.1
130°-140°	265.6	3.7
140°-150°	269.3	3.7
150°-160°	231.1	3.2
160°-170°	155.1	2.2
170°-180°	54.3	0.8
0°-90°	5779.0	80.2
0°-180°	7205.2	100.0



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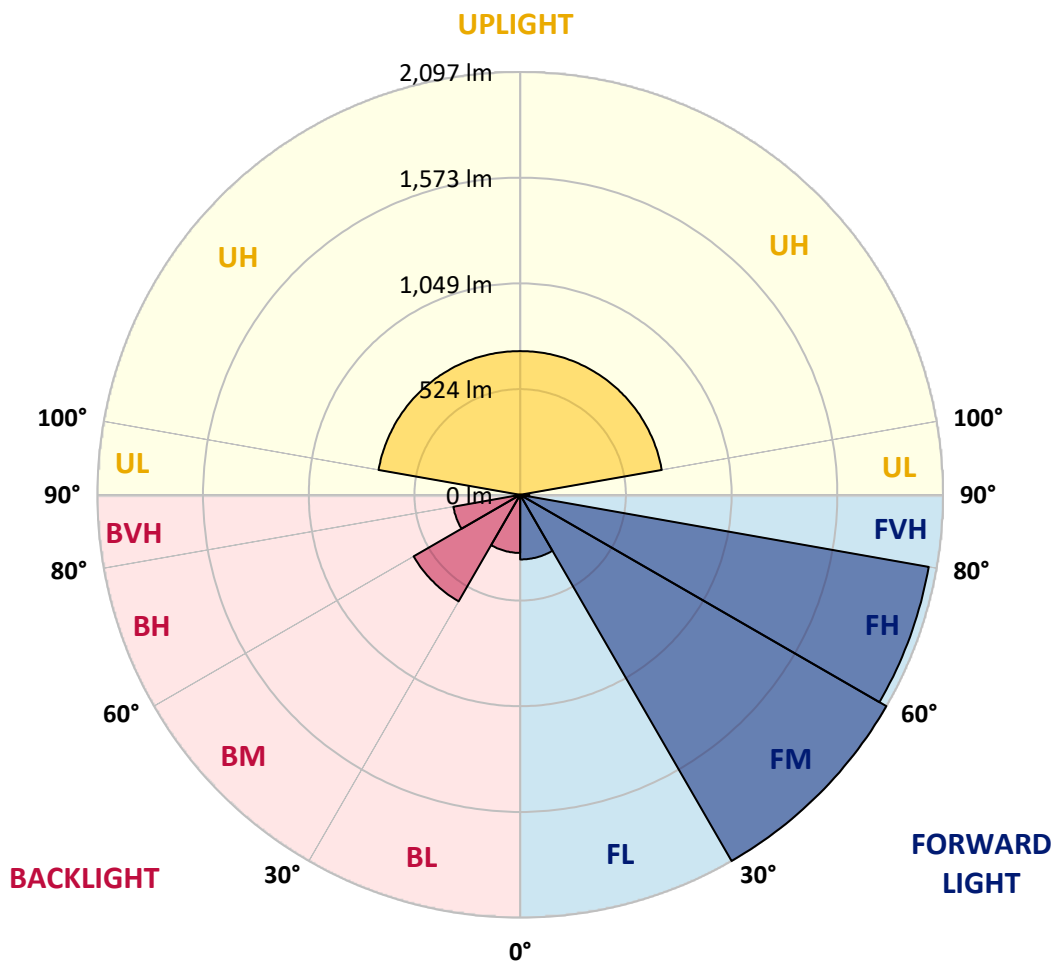
CATALOG NUMBER: ISS-AF-1000-LED-E1-T3-7050-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	320.6	4.4			
FM	(30°-60°)	2097.4	29.1			
FH	(60°-80°)	2057.9	28.6			G2/5000
FVH	(80°-90°)	45.0	0.6			G1/100
BL	(0°-30°)	288.2	4.0	B1/500		
BM	(30°-60°)	610.1	8.5	B1/1000		
BH	(60°-80°)	336.5	4.7	B1/500		G1/500
BVH	(80°-90°)	23.3	0.3			G1/100
UL	(90°-100°)	4.7	0.1		U1/10	
UH	(100°-180°)	713.1	9.9		U4/1000	

BUG Rating: B1-U5-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47.5°	50°
0°	746.6	746.6	746.6	746.6	746.6	746.6	746.6	746.6	746.6	746.6	746.6
2.5°	746.6	744.7	742.7	742.7	742.7	740.8	735.1	737.0	742.7	738.9	744.7
5°	744.7	740.8	738.9	738.9	738.9	733.2	731.3	729.4	740.8	731.3	738.9
7.5°	723.6	723.6	719.8	723.6	727.5	721.7	717.9	719.8	729.4	719.8	729.4
10°	708.4	704.6	702.6	702.6	706.5	698.8	695.0	698.8	710.3	698.8	712.2
12.5°	702.6	704.6	698.8	698.8	696.9	687.4	687.4	687.4	696.9	687.4	698.8
15°	712.2	710.3	704.6	700.7	695.0	687.4	685.5	687.4	695.0	683.6	696.9
17.5°	725.6	725.6	716.0	706.5	700.7	693.1	693.1	689.3	695.0	687.4	696.9
20°	759.9	754.2	740.8	725.6	710.3	706.5	698.8	698.8	702.6	695.0	700.7
22.5°	819.1	813.4	790.5	761.8	737.0	727.5	723.6	721.7	717.9	714.1	714.1
25°	897.4	887.9	861.1	826.8	784.7	777.1	769.5	763.7	750.4	750.4	740.8
27.5°	981.4	971.9	943.2	905.0	853.5	842.0	832.5	824.8	801.9	801.9	784.7
30°	1076.9	1065.4	1031.1	989.0	929.9	926.0	912.7	901.2	870.7	868.8	845.8
32.5°	1187.6	1172.3	1138.0	1082.6	1019.6	1021.5	1000.5	992.9	952.8	954.7	924.1
35°	1313.6	1296.5	1262.1	1189.5	1124.6	1130.3	1111.2	1097.9	1048.2	1048.2	1015.8
37.5°	1447.3	1447.3	1403.4	1319.4	1241.1	1254.4	1231.5	1218.2	1168.5	1176.2	1124.6
40°	1596.2	1605.8	1558.0	1462.6	1382.4	1388.1	1370.9	1355.6	1296.5	1309.8	1254.4
42.5°	1752.8	1770.0	1728.0	1628.7	1538.9	1558.0	1529.4	1514.1	1451.1	1479.8	1414.8
45°	1980.0	1983.8	1905.5	1810.1	1735.6	1752.8	1712.7	1707.0	1628.7	1659.2	1594.3
47.5°	2123.2	2113.7	2056.4	1999.1	1955.2	1989.6	1953.3	1943.7	1854.0	1875.0	1783.3
50°	2220.6	2226.3	2182.4	2176.7	2184.3	2249.2	2243.5	2224.4	2117.5	2102.2	1987.6
52.5°	2308.4	2283.6	2276.0	2329.4	2411.5	2487.9	2518.4	2493.6	2377.2	2335.1	2224.4
55°	2293.1	2256.9	2297.0	2426.8	2589.1	2707.5	2711.3	2694.1	2589.1	2571.9	2451.6
57.5°	2190.0	2197.7	2279.8	2465.0	2739.9	2862.1	2883.1	2862.1	2776.2	2791.5	2692.2
60°	2046.8	2062.1	2191.9	2430.6	2860.2	2965.2	2974.8	2999.6	2942.3	2982.4	2913.7
62.5°	1833.0	1854.0	2020.1	2344.7	2776.2	2932.8	3020.6	3077.9	3066.4	3158.1	3121.8
65°	1684.1	1684.1	1846.4	2245.4	2694.1	2900.3	3032.1	3139.0	3154.3	3299.4	3286.0
67.5°	1407.2	1416.7	1556.1	1968.5	2594.8	2827.8	3026.3	3207.7	3299.4	3528.5	3540.0
70°	973.8	981.4	1073.1	1405.3	2096.5	2295.0	2587.2	2883.1	3158.1	3503.7	3683.2
71°	729.4	738.9	828.7	1120.8	1775.7	1939.9	2243.5	2550.9	2896.5	3345.2	3547.6
72.5°	357.1	362.8	450.6	719.8	1235.4	1445.4	1621.0	1915.1	2281.7	2795.3	3081.7
75°	166.1	168.0	187.1	259.7	471.6	561.4	639.6	828.7	1055.9	1506.5	1854.0
77.5°	122.2	122.2	133.7	169.9	244.4	248.2	244.4	250.1	301.7	431.5	649.2
80°	89.7	89.7	97.4	114.6	162.3	162.3	156.6	158.5	152.7	158.5	179.5
82.5°	59.2	59.2	63.0	68.7	99.3	99.3	95.5	95.5	91.6	89.7	97.4
85°	34.4	36.3	38.2	32.5	42.0	40.1	36.3	40.1	38.2	34.4	42.0
87.5°	0.0	0.0	0.0	0.0	1.9	0.0	0.0	0.0	1.9	0.0	1.9
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	3.0	4.0	5.2	6.5	7.8	9.0	10.0	11.0
100°	8.0	8.0	10.0	14.0	22.0	24.0	26.0	28.0	30.0	30.5	31.0
102.5°	28.0	28.0	32.0	38.0	45.0	46.2	47.5	48.8	50.0	50.2	50.5
105°	54.0	54.0	56.0	61.0	66.0	67.0	68.0	69.0	70.0	70.2	70.5
107.5°	78.0	77.0	80.0	84.0	88.0	88.8	89.5	90.2	91.0	91.5	92.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47.5°	50°
110°	101.0	102.0	103.0	106.0	110.0	110.5	111.0	111.5	112.0	112.5	113.0
112.5°	124.0	124.0	126.0	129.0	132.0	132.5	133.0	133.5	134.0	134.5	135.0
115°	146.0	147.0	149.0	151.0	154.0	154.5	155.0	155.5	156.0	156.5	157.0
117.5°	169.0	170.0	172.0	174.0	177.0	177.5	178.0	178.5	179.0	179.2	179.5
120°	193.0	195.0	196.0	198.0	201.0	201.2	201.5	201.8	202.0	202.5	203.0
122.5°	219.0	220.0	221.0	223.0	226.0	226.2	226.5	226.8	227.0	227.2	227.5
125°	244.0	246.0	247.0	248.0	251.0	251.2	251.5	251.8	252.0	252.2	252.5
127.5°	267.0	269.0	270.0	272.0	274.0	274.5	275.0	275.5	276.0	276.5	277.0
130°	290.0	292.0	293.0	294.0	298.0	298.2	298.5	298.8	299.0	299.5	300.0
132.5°	313.0	314.0	317.0	318.0	321.0	321.2	321.5	321.8	322.0	322.8	323.5
135°	336.0	337.0	339.0	341.0	345.0	345.0	345.0	345.0	345.0	345.8	346.5
137.5°	359.0	360.0	363.0	364.0	367.0	367.0	367.0	367.0	367.0	367.5	368.0
140°	382.0	383.0	385.0	386.0	388.0	388.2	388.5	388.8	389.0	389.2	389.5
142.5°	404.0	406.0	408.0	407.0	410.0	410.0	410.0	410.0	410.0	410.5	411.0
145°	425.0	426.0	428.0	428.0	431.0	431.2	431.5	431.8	432.0	432.5	433.0
147.5°	444.0	444.0	447.0	448.0	452.0	452.2	452.5	452.8	453.0	453.2	453.5
150°	461.0	462.0	464.0	465.0	469.0	469.2	469.5	469.8	470.0	470.2	470.5
152.5°	479.0	480.0	483.0	482.0	485.0	485.2	485.5	485.8	486.0	486.2	486.5
155°	499.0	500.0	502.0	501.0	503.0	503.0	503.0	503.0	503.0	503.2	503.5
157.5°	513.0	515.0	517.0	516.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0
160°	525.0	527.0	529.0	529.0	532.0	532.0	532.0	532.0	532.0	532.0	532.0
162.5°	535.0	536.0	539.0	538.0	541.0	541.0	541.0	541.0	541.0	541.2	541.5
165°	546.0	547.0	549.0	548.0	552.0	552.0	552.0	552.0	552.0	552.2	552.5
167.5°	555.0	556.0	559.0	558.0	561.0	560.8	560.5	560.2	560.0	560.0	560.0
170°	562.0	563.0	566.0	565.0	567.0	566.8	566.5	566.2	566.0	565.8	565.5
172.5°	565.0	566.0	569.0	567.0	569.0	568.8	568.5	568.2	568.0	568.2	568.5
175°	567.0	569.0	570.0	569.0	572.0	572.0	572.0	572.0	572.0	572.2	572.5
177.5°	572.0	573.0	575.0	574.0	578.0	577.8	577.5	577.2	577.0	577.0	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):

	52.5°	55°	57°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°
0°	746.6	746.6	746.6	746.6	746.6	746.6	746.6	746.6	746.6	746.6	746.6
2.5°	737.0	742.7	742.7	735.1	740.8	735.1	738.9	733.2	738.9	729.4	740.8
5°	731.3	737.0	737.0	725.6	737.0	725.6	735.1	721.7	735.1	719.8	735.1
7.5°	716.0	729.4	729.4	714.1	727.5	716.0	727.5	714.1	725.6	708.4	727.5
10°	698.8	712.2	714.1	698.8	714.1	700.7	717.9	700.7	717.9	698.8	719.8
12.5°	687.4	702.6	706.5	689.3	708.4	691.2	712.2	693.1	712.2	691.2	716.0
15°	685.5	698.8	702.6	687.4	704.6	685.5	710.3	687.4	712.2	689.3	717.9
17.5°	687.4	698.8	702.6	685.5	702.6	687.4	708.4	689.3	712.2	691.2	717.9
20°	693.1	700.7	700.7	691.2	704.6	691.2	708.4	689.3	714.1	695.0	719.8
22.5°	710.3	712.2	712.2	704.6	712.2	702.6	716.0	702.6	719.8	704.6	727.5
25°	738.9	737.0	733.2	731.3	733.2	727.5	735.1	725.6	742.7	729.4	752.3
27.5°	788.6	780.9	777.1	777.1	775.2	777.1	777.1	773.3	780.9	777.1	792.4
30°	849.7	836.3	830.6	836.3	828.7	836.3	834.4	832.5	840.1	836.3	849.7
32.5°	929.9	906.9	903.1	914.6	899.3	912.7	901.2	906.9	912.7	916.5	924.1
35°	1023.4	996.7	992.9	1004.3	987.1	1006.2	992.9	1000.5	1004.3	1013.9	1019.6
37.5°	1134.2	1101.7	1096.0	1111.2	1088.3	1109.3	1090.2	1113.2	1107.4	1120.8	1126.5
40°	1267.8	1229.6	1216.3	1237.3	1210.5	1227.7	1208.6	1233.4	1227.7	1254.4	1260.2
42.5°	1432.0	1376.6	1363.3	1384.3	1344.2	1349.9	1334.6	1363.3	1359.5	1395.7	1401.5
45°	1602.0	1535.1	1516.0	1537.0	1491.2	1502.7	1479.8	1510.3	1508.4	1537.0	1559.9
47.5°	1791.0	1708.9	1684.1	1707.0	1651.6	1665.0	1642.0	1674.5	1676.4	1708.9	1731.8
50°	1987.6	1901.7	1869.3	1890.3	1838.7	1848.3	1825.3	1865.4	1863.5	1907.4	1924.6
52.5°	2201.5	2113.7	2088.8	2098.4	2037.3	2048.7	2029.6	2079.3	2067.8	2094.6	2128.9
55°	2438.3	2337.1	2308.4	2337.1	2264.5	2279.8	2255.0	2300.8	2281.7	2316.1	2325.6
57.5°	2680.7	2581.5	2558.5	2579.5	2510.8	2522.3	2489.8	2528.0	2512.7	2535.6	2550.9
60°	2938.5	2848.8	2825.9	2848.8	2781.9	2783.8	2728.5	2768.6	2745.7	2774.3	2768.6
62.5°	3184.8	3108.4	3102.7	3135.2	3051.2	3041.6	2974.8	3003.4	2971.0	2990.1	2967.1
65°	3394.8	3350.9	3358.6	3385.3	3310.8	3287.9	3211.5	3226.8	3179.1	3179.1	3150.4
67.5°	3669.8	3622.1	3622.1	3645.0	3551.4	3492.2	3387.2	3373.8	3295.6	3280.3	3213.5
70°	3898.9	3912.3	3897.0	3916.1	3805.4	3685.1	3545.7	3478.9	3375.7	3326.1	3247.8
71°	3816.8	3893.2	3919.9	3935.2	3843.5	3723.3	3578.1	3492.2	3392.9	3326.1	3242.1
72.5°	3444.5	3629.7	3734.7	3734.7	3746.2	3669.8	3530.4	3436.8	3324.2	3236.4	3158.1
75°	2413.4	2715.1	2850.7	2835.4	2934.7	2969.1	2980.5	2940.4	2877.4	2751.4	2696.0
77.5°	1075.0	1416.7	1621.0	1623.0	1729.9	1823.4	1897.9	1976.2	1947.5	1886.4	1882.6
80°	244.4	443.0	567.1	572.8	670.2	756.1	807.7	885.9	895.5	807.7	758.0
82.5°	105.0	124.1	141.3	139.4	171.8	206.2	244.4	265.4	255.9	211.9	200.5
85°	43.9	57.3	61.1	57.3	70.6	78.3	91.6	93.6	108.8	97.4	103.1
87.5°	0.0	1.9	1.9	0.0	3.8	0.0	3.8	1.9	9.5	3.8	11.5
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°	12.0	13.0	11.8	11.5	10.0	8.5	7.0	6.5	6.0	5.5	5.0
100°	31.5	32.0	31.6	31.5	31.0	30.5	30.0	29.2	28.5	27.8	27.0
102.5°	50.8	51.0	50.8	50.8	50.5	50.2	50.0	49.5	49.0	48.5	48.0
105°	70.8	71.0	71.0	71.0	71.0	71.0	71.0	70.5	70.0	69.5	69.0
107.5°	92.5	93.0	92.8	92.8	92.5	92.2	92.0	91.8	91.5	91.2	91.0



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CANDELA DISTRIBUTION (continued):

	52.5°	55°	57°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°
110°	113.5	114.0	114.0	114.0	114.0	114.0	114.0	113.8	113.5	113.2	113.0
112.5°	135.5	136.0	136.0	136.0	136.0	136.0	136.0	135.8	135.5	135.2	135.0
115°	157.5	158.0	158.0	158.0	158.0	158.0	158.0	158.0	158.0	158.0	158.0
117.5°	179.8	180.0	180.2	180.2	180.5	180.8	181.0	180.8	180.5	180.2	180.0
120°	203.5	204.0	204.0	204.0	204.0	204.0	204.0	204.0	204.0	204.0	204.0
122.5°	227.8	228.0	228.0	228.0	228.0	228.0	228.0	228.2	228.5	228.8	229.0
125°	252.8	253.0	253.2	253.2	253.5	253.8	254.0	254.0	254.0	254.0	254.0
127.5°	277.5	278.0	277.8	277.8	277.5	277.2	277.0	277.2	277.5	277.8	278.0
130°	300.5	301.0	301.0	301.0	301.0	301.0	301.0	301.2	301.5	301.8	302.0
132.5°	324.2	325.0	325.0	325.0	325.0	325.0	325.0	325.2	325.5	325.8	326.0
135°	347.2	348.0	348.0	348.0	348.0	348.0	348.0	348.2	348.5	348.8	349.0
137.5°	368.5	369.0	369.0	369.0	369.0	369.0	369.0	369.2	369.5	369.8	370.0
140°	389.8	390.0	390.0	390.0	390.0	390.0	390.0	390.5	391.0	391.5	392.0
142.5°	411.5	412.0	412.0	412.0	412.0	412.0	412.0	412.2	412.5	412.8	413.0
145°	433.5	434.0	433.8	433.8	433.5	433.2	433.0	433.2	433.5	433.8	434.0
147.5°	453.8	454.0	453.6	453.6	453.0	452.5	452.0	452.2	452.5	452.8	453.0
150°	470.8	471.0	470.6	470.6	470.0	469.5	469.0	469.0	469.0	469.0	469.0
152.5°	486.8	487.0	486.8	486.8	486.5	486.2	486.0	486.0	486.0	486.0	486.0
155°	503.8	504.0	503.8	503.8	503.5	503.2	503.0	503.2	503.5	503.8	504.0
157.5°	519.0	519.0	518.6	518.6	518.0	517.5	517.0	517.2	517.5	517.8	518.0
160°	532.0	532.0	531.6	531.6	531.0	530.5	530.0	530.0	530.0	530.0	530.0
162.5°	541.8	542.0	541.6	541.6	541.0	540.5	540.0	539.5	539.0	538.5	538.0
165°	552.8	553.0	552.4	552.4	551.5	550.8	550.0	549.5	549.0	548.5	548.0
167.5°	560.0	560.0	559.6	559.6	559.0	558.5	558.0	558.2	558.5	558.8	559.0
170°	565.2	565.0	564.8	564.8	564.5	564.2	564.0	564.5	565.0	565.5	566.0
172.5°	568.8	569.0	568.6	568.6	568.0	567.5	567.0	567.2	567.5	567.8	568.0
175°	572.8	573.0	572.4	572.4	571.5	570.8	570.0	569.5	569.0	568.5	568.0
177.5°	577.0	577.0	576.4	576.4	575.5	574.8	574.0	574.0	574.0	574.0	574.0
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):

	77.5°	80°	82.5°	85°	87.5°	90°	95°	100°	102.5°	105°	107.5°
0°	746.6	746.6	746.6	746.6	746.6	746.6	746.6	746.6	746.6	746.6	746.6
2.5°	733.2	742.7	733.2	742.7	737.0	742.7	740.8	742.7	733.2	742.7	731.3
5°	719.8	735.1	721.7	733.2	721.7	735.1	735.1	735.1	721.7	737.0	723.6
7.5°	708.4	725.6	708.4	725.6	714.1	727.5	727.5	733.2	717.9	735.1	716.0
10°	696.9	717.9	696.9	721.7	702.6	723.6	725.6	729.4	708.4	731.3	712.2
12.5°	691.2	717.9	693.1	717.9	695.0	723.6	725.6	729.4	706.5	735.1	710.3
15°	691.2	719.8	693.1	719.8	695.0	723.6	727.5	731.3	706.5	737.0	710.3
17.5°	691.2	719.8	696.9	721.7	698.8	725.6	729.4	733.2	710.3	737.0	714.1
20°	696.9	723.6	700.7	727.5	704.6	731.3	733.2	738.9	714.1	738.9	717.9
22.5°	710.3	733.2	714.1	738.9	721.7	742.7	744.7	750.4	731.3	752.3	735.1
25°	733.2	758.0	742.7	761.8	752.3	769.5	773.3	773.3	765.7	779.0	773.3
27.5°	780.9	800.0	788.6	805.7	800.0	813.4	813.4	815.3	821.0	824.8	830.6
30°	842.0	855.4	851.6	861.1	863.0	870.7	870.7	882.1	905.0	882.1	880.2
32.5°	924.1	931.8	933.7	937.5	945.1	950.9	958.5	971.9	991.0	937.5	920.3
35°	1025.3	1027.2	1033.0	1038.7	1052.1	1055.9	1080.7	1071.2	1071.2	987.1	950.9
37.5°	1136.1	1136.1	1151.3	1151.3	1183.8	1185.7	1210.5	1160.9	1132.2	1023.4	970.0
40°	1275.5	1273.5	1290.7	1294.5	1338.5	1340.4	1336.6	1227.7	1166.6	1033.0	960.4
42.5°	1422.5	1428.2	1451.1	1458.8	1491.2	1502.7	1454.9	1273.5	1181.9	1027.2	927.9
45°	1582.9	1594.3	1623.0	1644.0	1678.3	1665.0	1550.4	1294.5	1164.7	992.9	864.9
47.5°	1758.5	1770.0	1792.9	1833.0	1848.3	1833.0	1628.7	1302.2	1138.0	939.4	773.3
50°	1936.1	1955.2	1987.6	2044.9	2052.6	2014.4	1724.2	1330.8	1117.0	884.0	668.3
52.5°	2136.6	2155.7	2193.9	2289.3	2270.2	2191.9	1836.8	1384.3	1122.7	849.7	578.5
55°	2348.5	2375.2	2449.7	2543.3	2501.3	2379.1	1960.9	1462.6	1145.6	813.4	479.2
57.5°	2571.9	2600.5	2697.9	2808.7	2726.6	2562.4	2086.9	1523.7	1157.1	738.9	370.4
60°	2793.4	2833.5	2959.5	3051.2	2923.2	2718.9	2199.6	1563.8	1126.5	597.6	286.4
62.5°	2995.8	3060.7	3202.0	3251.6	3047.3	2818.2	2260.7	1535.1	1002.4	412.4	231.0
65°	3139.0	3223.0	3314.6	3308.9	3024.4	2785.8	2214.9	1403.4	746.6	273.0	196.7
67.5°	3200.1	3278.4	3299.4	3202.0	2860.2	2642.6	2050.7	1130.3	429.6	204.3	171.8
70°	3223.0	3289.8	3171.4	2936.6	2539.4	2291.2	1676.4	719.8	234.9	166.1	148.9
71°	3213.5	3245.9	3020.6	2745.7	2335.1	2075.5	1470.2	548.0	200.5	154.7	141.3
72.5°	3083.6	3037.8	2690.3	2384.8	1980.0	1716.5	1143.7	345.6	164.2	139.4	131.7
75°	2520.4	2314.1	1980.0	1691.7	1348.0	1078.8	620.5	177.6	131.7	120.3	114.6
77.5°	1647.8	1468.3	1193.3	970.0	737.0	559.4	253.9	122.2	105.0	101.2	99.3
80°	588.1	471.6	357.1	313.1	236.8	194.8	124.1	93.6	82.1	84.0	82.1
82.5°	166.1	152.7	131.7	122.2	106.9	105.0	80.2	70.6	64.9	68.7	66.8
85°	82.1	70.6	51.6	49.6	38.2	43.9	40.1	47.7	42.0	43.9	40.1
87.5°	5.7	7.6	1.9	5.7	0.0	5.7	7.6	9.5	1.9	7.6	5.7
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°	4.8	4.5	4.2	4.0	4.0	4.0	4.0	4.5	4.8	5.0	5.5
100°	26.8	26.5	26.2	26.0	25.5	25.0	26.0	26.5	26.8	27.0	27.8
102.5°	48.2	48.5	48.8	49.0	48.5	48.0	49.0	48.5	48.2	48.0	48.5
105°	69.5	70.0	70.5	71.0	70.0	69.0	71.0	70.0	69.5	69.0	69.5
107.5°	91.2	91.5	91.8	92.0	91.5	91.0	92.0	91.5	91.2	91.0	91.2



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REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	77.5°	80°	82.5°	85°	87.5°	90°	95°	100°	102.5°	105°	107.5°	
110°	113.2	113.5	113.8	114.0	113.5	113.0	114.0	113.5	113.2	113.0	113.2	0°
112.5°	135.5	136.0	136.5	137.0	136.0	135.0	137.0	136.0	135.5	135.0	135.2	2.5°
115°	158.5	159.0	159.5	160.0	159.5	159.0	160.0	159.0	158.5	158.0	158.0	5°
117.5°	180.5	181.0	181.5	182.0	181.0	180.0	182.0	181.0	180.5	180.0	180.2	7.5°
120°	204.5	205.0	205.5	206.0	205.0	204.0	206.0	205.0	204.5	204.0	204.0	10°
122.5°	230.0	231.0	232.0	233.0	232.5	232.0	233.0	231.0	230.0	229.0	228.8	12.5°
125°	254.8	255.5	256.2	257.0	256.5	256.0	257.0	255.5	254.8	254.0	254.0	15°
127.5°	278.8	279.5	280.2	281.0	279.5	278.0	281.0	279.5	278.8	278.0	277.8	17.5°
130°	302.8	303.5	304.2	305.0	304.0	303.0	305.0	303.5	302.8	302.0	301.8	20°
132.5°	326.8	327.5	328.2	329.0	328.0	327.0	329.0	327.5	326.8	326.0	325.8	22.5°
135°	349.5	350.0	350.5	351.0	350.5	350.0	351.0	350.0	349.5	349.0	348.8	25°
137.5°	371.0	372.0	373.0	374.0	373.0	372.0	374.0	372.0	371.0	370.0	369.8	27.5°
140°	393.0	394.0	395.0	396.0	395.0	394.0	396.0	394.0	393.0	392.0	391.5	30°
142.5°	413.8	414.5	415.2	416.0	415.5	415.0	416.0	414.5	413.8	413.0	412.8	32.5°
145°	434.8	435.5	436.2	437.0	436.0	435.0	437.0	435.5	434.8	434.0	433.8	35°
147.5°	453.8	454.5	455.2	456.0	454.5	453.0	456.0	454.5	453.8	453.0	452.8	37.5°
150°	470.0	471.0	472.0	473.0	471.5	470.0	473.0	471.0	470.0	469.0	469.0	40°
152.5°	486.8	487.5	488.2	489.0	487.5	486.0	489.0	487.5	486.8	486.0	486.0	42.5°
155°	504.8	505.5	506.2	507.0	506.0	505.0	507.0	505.5	504.8	504.0	503.8	45°
157.5°	519.2	520.5	521.8	523.0	521.5	520.0	523.0	520.5	519.2	518.0	517.8	47.5°
160°	530.8	531.5	532.2	533.0	532.0	531.0	533.0	531.5	530.8	530.0	530.0	50°
162.5°	538.5	539.0	539.5	540.0	538.5	537.0	540.0	539.0	538.5	538.0	538.5	52.5°
165°	548.5	549.0	549.5	550.0	549.0	548.0	550.0	549.0	548.5	548.0	548.5	55°
167.5°	560.0	561.0	562.0	563.0	562.0	561.0	563.0	561.0	560.0	559.0	558.8	57.5°
170°	567.2	568.5	569.8	571.0	570.0	569.0	571.0	568.5	567.2	566.0	565.5	60°
172.5°	568.8	569.5	570.2	571.0	569.5	568.0	571.0	569.5	568.8	568.0	567.8	62.5°
175°	568.8	569.5	570.2	571.0	569.5	568.0	571.0	569.5	568.8	568.0	568.5	65°
177.5°	574.8	575.5	576.2	577.0	575.5	574.0	577.0	575.5	574.8	574.0	574.0	67.5°
180°	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	70°
												71°
												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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DISTRIBUTION (continued):

CANDELA DISTRIBUTION

110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°	110°	110°
746.6	746.6	746.6	746.6	746.6	746.6	746.6	746.6	746.6	746.6	746.6	110°	113.5
744.7	737.0	746.6	737.0	746.6	740.8	746.6	740.8	746.6	750.4	750.4	112.5°	135.5
740.8	727.5	744.7	735.1	746.6	737.0	744.7	738.9	748.5	752.3	756.1	115°	158.0
738.9	725.6	742.7	729.4	746.6	733.2	744.7	737.0	748.5	752.3	759.9	117.5°	180.5
737.0	719.8	742.7	723.6	744.7	731.3	744.7	733.2	746.6	750.4	752.3	120°	204.0
737.0	717.9	742.7	721.7	744.7	725.6	742.7	725.6	744.7	742.7	737.0	122.5°	228.5
738.9	714.1	742.7	717.9	742.7	719.8	740.8	717.9	737.0	731.3	727.5	125°	254.0
738.9	714.1	740.8	716.0	738.9	717.9	735.1	714.1	731.3	729.4	723.6	127.5°	277.5
742.7	717.9	740.8	723.6	740.8	719.8	733.2	714.1	727.5	716.0	693.1	130°	301.5
754.2	737.0	754.2	737.0	744.7	725.6	731.3	708.4	706.5	687.4	651.1	132.5°	325.5
780.9	773.3	769.5	748.5	742.7	717.9	710.3	683.6	674.0	645.4	595.7	135°	348.5
815.3	798.1	775.2	750.4	725.6	695.0	674.0	653.0	632.0	595.7	532.7	137.5°	369.5
838.2	813.4	765.7	731.3	685.5	660.6	624.4	601.4	570.9	525.1	464.0	140°	391.0
853.5	815.3	742.7	702.6	641.5	609.1	561.4	536.5	492.6	448.7	404.8	142.5°	412.5
857.3	807.7	712.2	668.3	588.1	551.8	488.8	462.1	420.1	389.5	372.3	145°	433.5
842.0	780.9	664.5	607.2	519.3	477.3	418.1	399.1	374.2	362.8	355.1	147.5°	452.5
811.5	729.4	590.0	523.2	433.4	401.0	370.4	370.4	357.1	351.3	338.0	150°	469.0
756.1	653.0	494.5	429.6	368.5	362.8	345.6	353.2	343.7	339.9	320.8	152.5°	486.0
670.2	544.2	399.1	360.9	332.2	336.0	324.6	332.2	326.5	324.6	301.7	155°	503.5
559.4	433.4	336.0	322.7	303.6	309.3	299.8	309.3	303.6	305.5	288.3	157.5°	517.5
446.8	351.3	297.9	290.2	276.9	280.7	274.9	284.5	282.6	290.2	280.7	160°	530.0
357.1	299.8	265.4	259.7	252.0	253.9	252.0	261.6	263.5	278.8	278.8	162.5°	539.0
296.0	257.8	238.7	236.8	229.1	231.0	232.9	242.5	250.1	269.2	278.8	165°	549.0
253.9	231.0	217.7	215.8	211.9	213.8	217.7	229.1	236.8	261.6	282.6	167.5°	558.5
223.4	210.0	200.5	200.5	196.7	200.5	204.3	215.8	225.3	253.9	274.9	170°	565.0
200.5	190.9	185.2	187.1	185.2	189.0	192.8	204.3	215.8	242.5	263.5	172.5°	567.5
179.5	173.8	169.9	171.8	171.8	177.6	181.4	192.8	202.4	227.2	253.9	175°	569.0
162.3	158.5	156.6	158.5	160.4	166.1	171.8	179.5	187.1	210.0	240.6	177.5°	574.0
148.9	145.1	145.1	145.1	147.0	152.7	160.4	164.2	171.8	196.7	225.3	180°	576.0
141.3	139.4	139.4	139.4	141.3	147.0	154.7	158.5	166.1	190.9	217.7		
131.7	131.7	133.7	131.7	135.6	137.5	145.1	148.9	158.5	183.3	208.1		
116.5	116.5	118.4	118.4	122.2	122.2	127.9	131.7	143.2	164.2	187.1		
103.1	103.1	106.9	105.0	105.0	101.2	108.8	112.7	122.2	143.2	166.1		
87.8	85.9	89.7	84.0	82.1	78.3	84.0	89.7	105.0	118.4	122.2		
68.7	63.0	64.9	59.2	59.2	55.4	61.1	63.0	72.6	85.9	93.6		
42.0	34.4	38.2	32.5	36.3	32.5	34.4	36.3	43.9	53.5	51.6		
9.5	5.7	7.6	1.9	5.7	0.0	5.7	1.9	5.7	1.9	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		
6.0	6.5	7.0	8.5	10.0	11.5	13.0	12.0	11.0	9.0	4.0		
28.5	29.2	30.0	30.5	31.0	31.5	32.0	31.5	31.0	30.0	22.0		
49.0	49.5	50.0	50.2	50.5	50.8	51.0	50.8	50.5	50.0	45.0		
70.0	70.5	71.0	71.0	71.0	71.0	71.0	70.8	70.5	70.0	66.0		
91.5	91.8	92.0	92.2	92.5	92.8	93.0	92.5	92.0	91.0	88.0		

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REPORT NUMBER: P227688
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TION (continued):

CANDELA DISTRIBUTION (con

112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°		155°	165°
113.8	114.0	114.0	114.0	114.0	114.0	113.5	113.0	112.0	110.0	0°	746.6	746.6
135.8	136.0	136.0	136.0	136.0	136.0	135.5	135.0	134.0	132.0	2.5°	754.2	752.3
158.0	158.0	158.0	158.0	158.0	158.0	157.5	157.0	156.0	154.0	5°	763.7	763.7
180.8	181.0	180.8	180.5	180.2	180.0	179.8	179.5	179.0	177.0	7.5°	765.7	769.5
204.0	204.0	204.0	204.0	204.0	204.0	203.5	203.0	202.0	201.0	10°	752.3	748.5
228.2	228.0	228.0	228.0	228.0	228.0	227.8	227.5	227.0	226.0	12.5°	731.3	727.5
254.0	254.0	253.8	253.5	253.2	253.0	252.8	252.5	252.0	251.0	15°	729.4	727.5
277.2	277.0	277.2	277.5	277.8	278.0	277.5	277.0	276.0	274.0	17.5°	716.0	706.5
301.2	301.0	301.0	301.0	301.0	301.0	300.5	300.0	299.0	298.0	20°	677.8	660.6
325.2	325.0	325.0	325.0	325.0	325.0	324.2	323.5	322.0	321.0	22.5°	624.4	599.5
348.2	348.0	348.0	348.0	348.0	348.0	347.2	346.5	345.0	345.0	25°	559.4	525.1
369.2	369.0	369.0	369.0	369.0	369.0	368.5	368.0	367.0	367.0	27.5°	488.8	454.4
390.5	390.0	390.0	390.0	390.0	390.0	389.8	389.5	389.0	388.0	30°	433.4	406.7
412.2	412.0	412.0	412.0	412.0	412.0	411.5	411.0	410.0	410.0	32.5°	393.3	378.1
433.2	433.0	433.2	433.5	433.8	434.0	433.5	433.0	432.0	431.0	35°	360.9	351.3
452.2	452.0	452.5	453.0	453.5	454.0	453.8	453.5	453.0	452.0	37.5°	339.9	324.6
469.0	469.0	469.5	470.0	470.5	471.0	470.8	470.5	470.0	469.0	40°	318.9	299.8
486.0	486.0	486.2	486.5	486.8	487.0	486.8	486.5	486.0	485.0	42.5°	299.8	280.7
503.2	503.0	503.2	503.5	503.8	504.0	503.8	503.5	503.0	503.0	45°	280.7	267.3
517.2	517.0	517.5	518.0	518.5	519.0	519.0	519.0	519.0	519.0	47.5°	271.1	259.7
530.0	530.0	530.5	531.0	531.5	532.0	532.0	532.0	532.0	532.0	50°	267.3	255.9
539.5	540.0	540.5	541.0	541.5	542.0	541.8	541.5	541.0	541.0	52.5°	271.1	261.6
549.5	550.0	550.8	551.5	552.2	553.0	552.8	552.5	552.0	552.0	55°	278.8	273.0
558.2	558.0	558.5	559.0	559.5	560.0	560.0	560.0	560.0	561.0	57.5°	271.1	261.6
564.5	564.0	564.2	564.5	564.8	565.0	565.2	565.5	566.0	567.0	60°	253.9	238.7
567.2	567.0	567.5	568.0	568.5	569.0	568.8	568.5	568.0	569.0	62.5°	242.5	227.2
569.5	570.0	570.8	571.5	572.2	573.0	572.8	572.5	572.0	572.0	65°	232.9	221.5
574.0	574.0	574.8	575.5	576.2	577.0	577.0	577.0	577.0	578.0	67.5°	223.4	211.9
576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	70°	211.9	200.5
										71°	206.2	192.8
										72.5°	196.7	181.4
										75°	177.6	162.3
										77.5°	147.0	129.8
										80°	112.7	101.2
										82.5°	84.0	74.5
										85°	43.9	34.4
										87.5°	0.0	0.0
										90°	0.0	0.0
										92.5°	0.0	0.0
										95°	1.0	1.0
										97.5°	3.0	2.0
										100°	14.0	10.0
										102.5°	38.0	32.0
										105°	61.0	56.0
										107.5°	84.0	80.0



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175°	180°
746.6	746.6
754.2	752.3
765.7	767.6
773.3	771.4
752.3	748.5
731.3	731.3
729.4	729.4
702.6	700.7
656.8	651.1
591.9	586.2
511.7	504.1
441.1	441.1
393.3	393.3
368.5	370.4
345.6	347.5
311.2	311.2
282.6	282.6
269.2	267.3
257.8	255.9
250.1	248.2
242.5	242.5
236.8	236.8
236.8	232.9
238.7	232.9
234.9	231.0
234.9	232.9
238.7	234.9
238.7	231.0
217.7	204.3
206.2	194.8
185.2	177.6
158.5	156.6
124.1	122.2
101.2	95.5
72.6	63.0
28.6	28.6
0.0	0.0
0.0	0.0
0.0	0.0
1.0	1.0
2.0	2.0
8.0	8.0
28.0	28.0
54.0	54.0
77.0	78.0

CANDELA DISTRIBUTION (continued):

	155°	165°	175°
110°	106.0	103.0	102.0
112.5°	129.0	126.0	124.0
115°	151.0	149.0	147.0
117.5°	174.0	172.0	170.0
120°	198.0	196.0	195.0
122.5°	223.0	221.0	220.0
125°	248.0	247.0	246.0
127.5°	272.0	270.0	269.0
130°	294.0	293.0	292.0
132.5°	318.0	317.0	314.0
135°	341.0	339.0	337.0
137.5°	364.0	363.0	360.0
140°	386.0	385.0	383.0
142.5°	407.0	408.0	406.0
145°	428.0	428.0	426.0
147.5°	448.0	447.0	444.0
150°	465.0	464.0	462.0
152.5°	482.0	483.0	480.0
155°	501.0	502.0	500.0
157.5°	516.0	517.0	515.0
160°	529.0	529.0	527.0
162.5°	538.0	539.0	536.0
165°	548.0	549.0	547.0
167.5°	558.0	559.0	556.0
170°	565.0	566.0	563.0
172.5°	567.0	569.0	566.0
175°	569.0	570.0	569.0
177.5°	574.0	575.0	573.0
180°	576.0	576.0	576.0

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<u>180°</u>
101.0
124.0
146.0
169.0
193.0
219.0
244.0
267.0
290.0
313.0
336.0
359.0
382.0
404.0
425.0
444.0
461.0
479.0
499.0
513.0
525.0
535.0
546.0
555.0
562.0
565.0
567.0
572.0
576.0

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