

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: P271618

Luminaire Tested: **ISS-AF-1200-LED-E1-T3-7027-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271618
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-1200-LED-E1-T3-7027-ULG
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE WITH UPLIGHT
LIGHT SQUARE WITH ACCULED OPTICS-TYPE III, WITH UPLIGHT GLOW
Light Source: (16) 2700K CCT, 70 CRI LEDs and (1) UPLIGHT LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7113.9 lumens
Efficiency: N/A
Efficacy: 86.0 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): 82.7
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

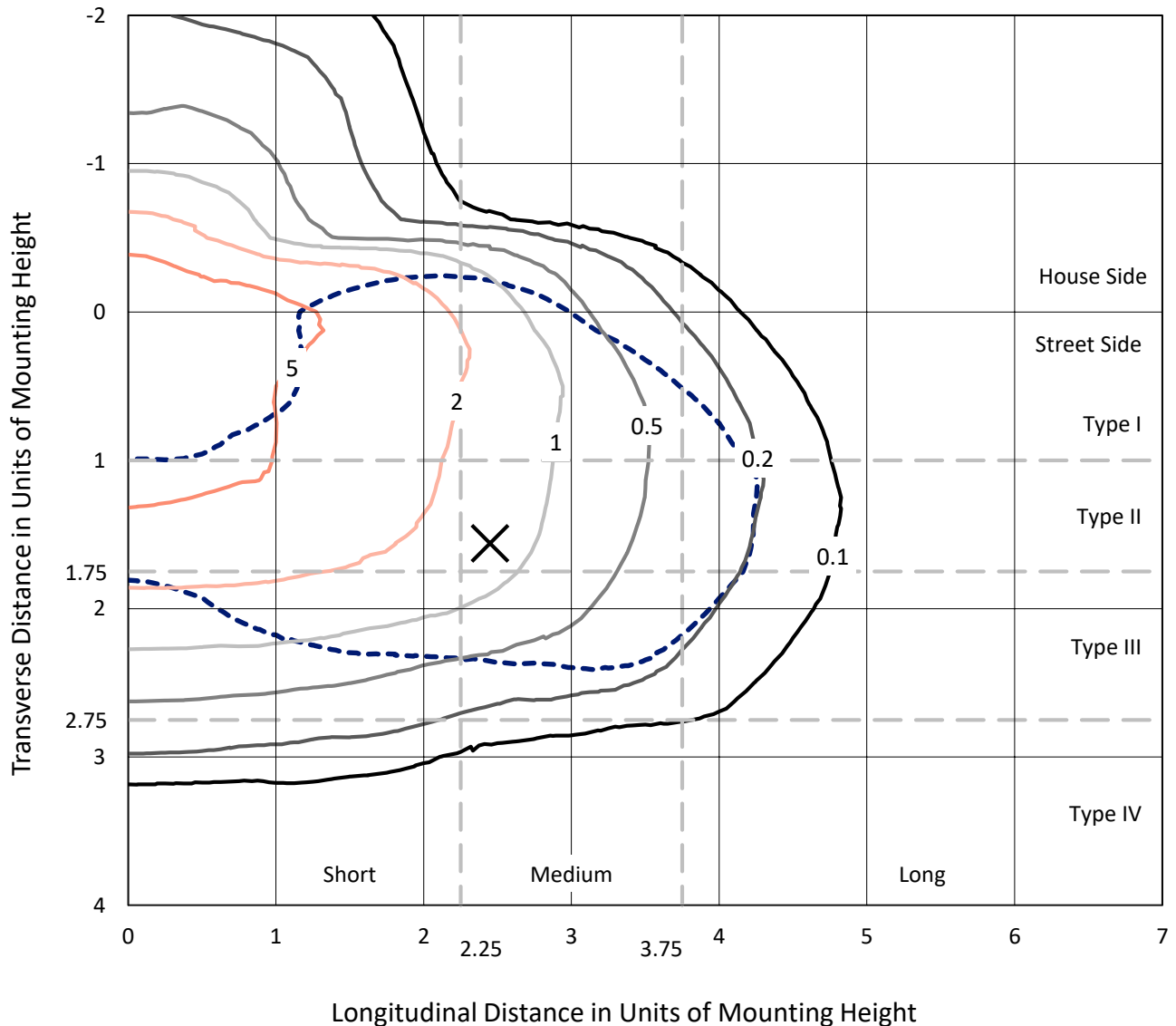


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

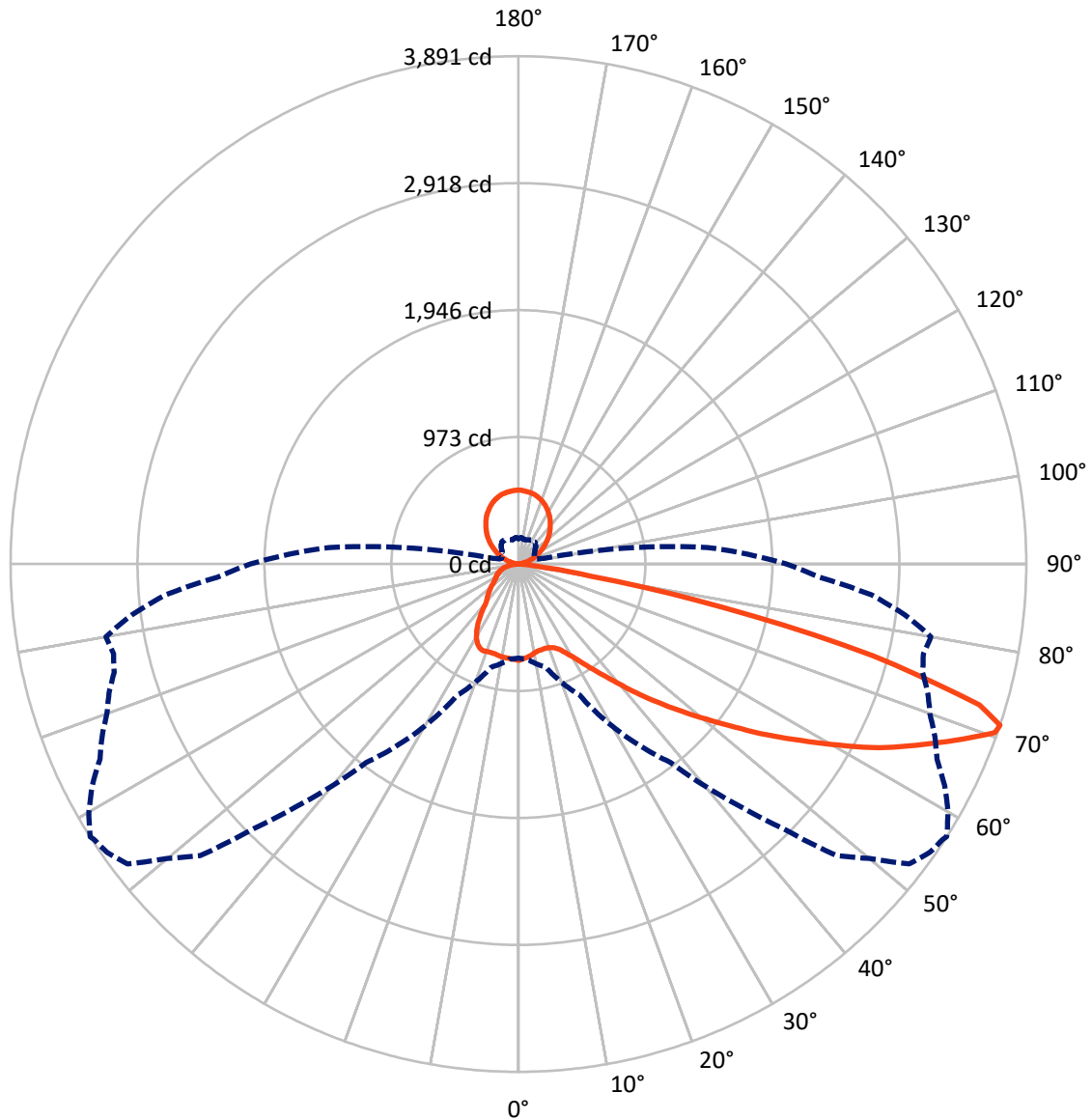


Based on 10 foot mounting height. Maximum calculated value = 7.4 fc
 Type III - Medium - Non-Cutoff

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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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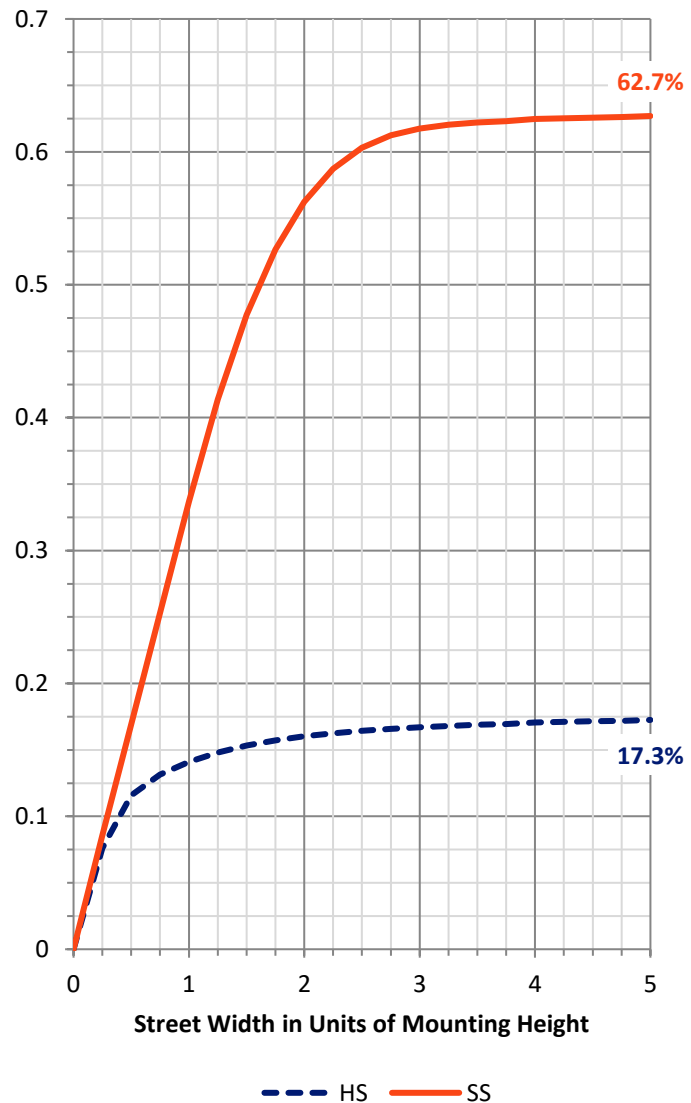
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1244.0	699.9	1943.9
	% Fixture	17.5	9.8	27.3
Street Side	Lumens	4470.2	699.9	5170.1
	% Fixture	62.8	9.8	72.7
Total	Lumens	5714.2	1399.8	7113.9
	% Fixture	80.3	19.7	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.5	1.0
10°-20°	200.2	2.8
20°-30°	332.3	4.7
30°-40°	529.0	7.4
40°-50°	859.5	12.1
50°-60°	1288.6	18.1
60°-70°	1537.3	21.6
70°-80°	830.3	11.7
80°-90°	67.6	0.9
90°-100°	4.7	0.1
100°-110°	67.7	1.0
110°-120°	150.2	2.1
120°-130°	219.7	3.1
130°-140°	260.7	3.7
140°-150°	264.3	3.7
150°-160°	226.8	3.2
160°-170°	152.2	2.1
170°-180°	53.3	0.7
0°-90°	5714.2	80.3
0°-180°	7113.9	100.0



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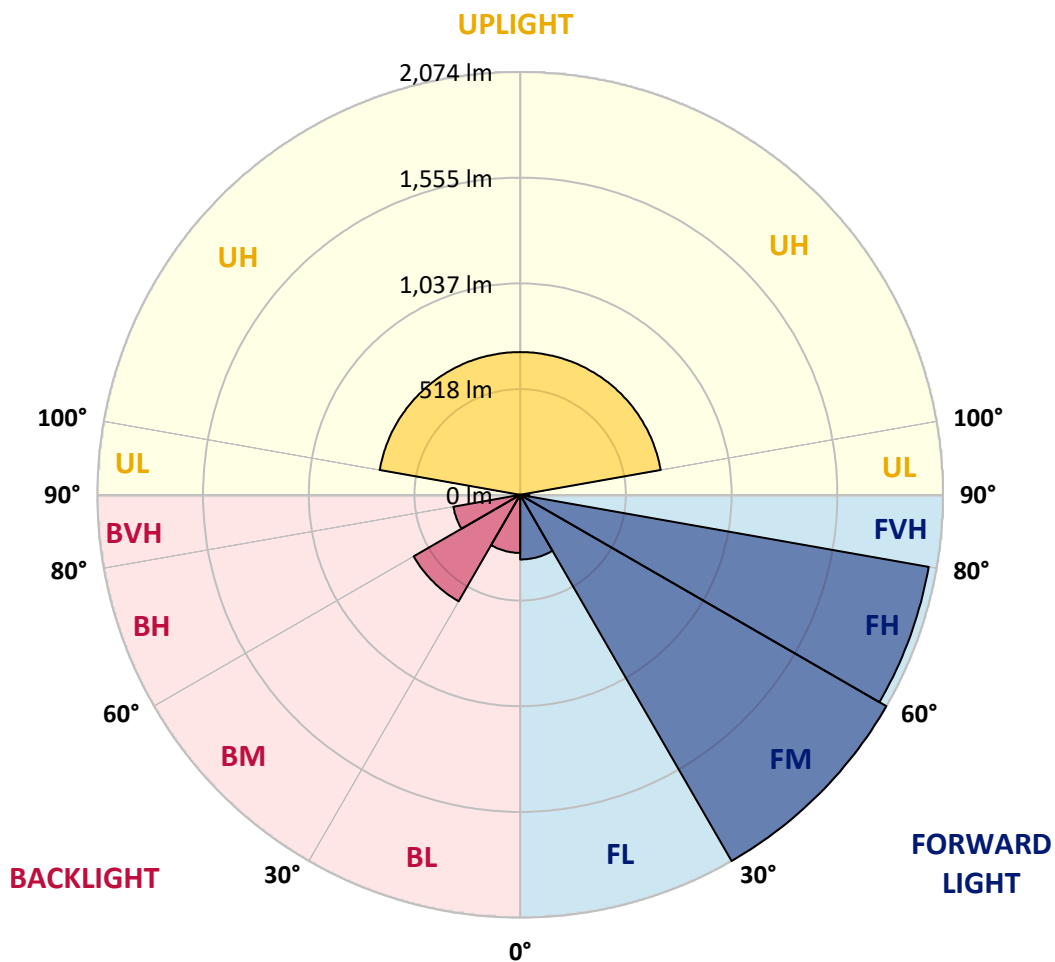
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	317.0	4.5			
FM	(30°-60°)	2073.9	29.2			
FH	(60°-80°)	2034.8	28.6			G2/5000
FVH	(80°-90°)	44.5	0.6			G1/100
BL	(0°-30°)	285.0	4.0	B1/500		
BM	(30°-60°)	603.2	8.5	B1/1000		
BH	(60°-80°)	332.8	4.7	B1/500		G1/500
BVH	(80°-90°)	23.1	0.3			G1/100
UL	(90°-100°)	4.7	0.1		U1/10	
UH	(100°-180°)	699.9	9.8		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°	738.1	738.1	738.1	738.1	738.1	738.1	738.1	738.1	738.1	738.1	738.1
2.5°	738.1	736.3	734.5	734.5	734.5	732.5	726.9	728.7	734.5	730.6	736.3
5°	736.3	732.5	730.6	730.6	730.6	724.9	723.0	721.2	732.5	723.0	730.6
7.5°	715.5	715.5	711.7	715.5	719.4	713.6	709.9	711.7	721.2	711.7	721.2
10°	700.4	696.6	694.7	694.7	698.5	691.0	687.2	691.0	702.4	691.0	704.2
12.5°	694.7	696.6	691.0	691.0	689.1	679.7	679.7	679.7	689.1	679.7	691.0
15°	704.2	702.4	696.6	692.9	687.2	679.7	677.8	679.7	687.2	675.9	689.1
17.5°	717.5	717.5	708.0	698.5	692.9	685.4	685.4	681.5	687.2	679.7	689.1
20°	751.4	745.8	732.5	717.5	702.4	698.5	691.0	691.0	694.7	687.2	692.9
22.5°	809.9	804.3	781.6	753.3	728.7	719.4	715.5	713.6	709.9	706.1	706.1
25°	887.3	877.9	851.4	817.5	776.0	768.4	760.9	755.1	742.0	742.0	732.5
27.5°	970.3	961.0	932.6	894.9	843.9	832.5	823.2	815.6	792.9	792.9	776.0
30°	1064.9	1053.4	1019.5	978.0	919.4	915.6	902.4	891.1	860.8	859.0	836.3
32.5°	1174.4	1159.3	1125.1	1070.5	1008.2	1010.1	989.2	981.8	942.1	944.0	913.8
35°	1298.9	1281.9	1247.9	1176.2	1112.0	1117.7	1098.8	1085.6	1036.5	1036.5	1004.3
37.5°	1431.1	1431.1	1387.6	1304.6	1227.2	1240.4	1217.7	1204.4	1155.4	1162.9	1112.0
40°	1578.3	1587.8	1540.5	1446.2	1367.0	1372.5	1355.5	1340.5	1281.9	1295.2	1240.4
42.5°	1733.1	1750.1	1708.6	1610.4	1521.7	1540.5	1512.3	1497.1	1434.9	1463.2	1399.0
45°	1957.8	1961.6	1884.1	1789.7	1716.1	1733.1	1693.5	1687.8	1610.4	1640.7	1576.4
47.5°	2099.4	2090.0	2033.3	1976.7	1933.2	1967.3	1931.4	1921.9	1833.2	1853.9	1763.4
50°	2195.6	2201.4	2157.9	2152.2	2159.9	2224.0	2218.4	2199.5	2093.7	2078.6	1965.3
52.5°	2282.5	2258.0	2250.4	2303.3	2384.6	2460.0	2490.2	2465.7	2350.4	2308.9	2199.5
55°	2267.4	2231.6	2271.2	2399.6	2560.1	2677.1	2680.9	2663.9	2560.1	2543.0	2424.2
57.5°	2165.5	2173.0	2254.2	2437.3	2709.2	2830.0	2850.8	2830.0	2745.1	2760.2	2661.9
60°	2023.9	2039.1	2167.4	2403.3	2828.1	2932.0	2941.4	2965.9	2909.3	2949.0	2881.0
62.5°	1812.4	1833.2	1997.4	2318.3	2745.1	2899.9	2986.8	3043.4	3032.0	3122.7	3086.8
65°	1665.2	1665.2	1825.6	2220.3	2663.9	2867.7	2998.0	3103.7	3118.8	3262.4	3249.2
67.5°	1391.5	1400.9	1538.7	1946.4	2565.6	2796.1	2992.4	3171.7	3262.4	3488.9	3500.2
70°	962.8	970.3	1061.0	1389.5	2073.0	2269.3	2558.1	2850.8	3122.7	3464.3	3641.9
71°	721.2	730.6	819.3	1108.1	1755.7	1918.2	2218.4	2522.4	2864.0	3307.6	3507.8
72.5°	353.0	358.7	445.6	711.7	1221.4	1429.1	1602.8	1893.5	2256.1	2763.9	3047.1
75°	164.3	166.2	185.1	256.7	466.3	555.1	632.5	819.3	1044.0	1489.6	1833.2
77.5°	120.8	120.8	132.1	168.1	241.6	245.5	241.6	247.3	298.2	426.7	641.9
80°	88.8	88.8	96.3	113.3	160.4	160.4	154.8	156.8	151.1	156.8	177.4
82.5°	58.5	58.5	62.3	67.9	98.2	98.2	94.4	94.4	90.5	88.8	96.3
85°	34.0	35.8	37.8	32.1	41.5	39.6	35.8	39.6	37.8	34.0	41.5
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	5.1	6.4	7.6	8.8	9.8	10.8
100°	7.8	7.8	9.8	13.7	21.6	23.5	25.5	27.5	29.5	29.9	30.5
102.5°	27.5	27.5	31.4	37.3	44.2	45.4	46.6	47.9	49.0	49.2	49.6
105°	53.0	53.0	55.0	59.8	64.8	65.8	66.7	67.7	68.7	68.9	69.2
107.5°	76.5	75.5	78.5	82.5	86.3	87.1	87.9	88.6	89.3	89.8	90.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47.5°	50°
110°	99.2	100.1	101.1	104.0	108.0	108.4	109.0	109.4	110.0	110.4	110.9
112.5°	121.7	121.7	123.7	126.6	129.5	130.1	130.5	131.1	131.5	132.1	132.5
115°	143.3	144.3	146.2	148.2	151.2	151.6	152.2	152.6	153.1	153.6	154.1
117.5°	165.8	166.8	168.8	170.8	173.7	174.2	174.7	175.2	175.7	175.9	176.2
120°	189.5	191.4	192.3	194.3	197.3	197.4	197.8	198.1	198.3	198.7	199.2
122.5°	215.0	216.0	216.9	218.8	221.8	222.0	222.3	222.6	222.8	223.0	223.3
125°	239.5	241.5	242.5	243.4	246.3	246.6	246.9	247.1	247.3	247.6	247.8
127.5°	262.0	264.0	265.0	267.0	269.0	269.4	269.9	270.4	270.9	271.4	271.8
130°	284.7	286.6	287.5	288.5	292.5	292.7	292.9	293.3	293.5	293.9	294.5
132.5°	307.2	308.2	311.2	312.1	315.0	315.2	315.6	315.8	316.0	316.8	317.6
135°	329.8	330.8	332.7	334.7	338.6	338.6	338.6	338.6	338.6	339.4	340.1
137.5°	352.3	353.3	356.3	357.3	360.2	360.2	360.2	360.2	360.2	360.7	361.2
140°	375.0	375.9	377.8	378.8	380.8	381.0	381.3	381.6	381.8	382.0	382.3
142.5°	396.5	398.5	400.5	399.5	402.4	402.4	402.4	402.4	402.4	402.9	403.4
145°	417.2	418.1	420.0	420.0	423.0	423.2	423.6	423.8	424.0	424.4	425.0
147.5°	435.8	435.8	438.7	439.7	443.7	443.9	444.1	444.4	444.6	444.8	445.1
150°	452.5	453.5	455.4	456.4	460.3	460.5	460.8	461.1	461.3	461.5	461.8
152.5°	470.2	471.1	474.0	473.0	476.0	476.2	476.6	476.8	477.0	477.2	477.4
155°	489.8	490.7	492.7	491.7	493.7	493.7	493.7	493.7	493.7	493.9	494.2
157.5°	503.5	505.5	507.5	506.5	509.4	509.4	509.4	509.4	509.4	509.4	509.4
160°	515.3	517.2	519.2	519.2	522.2	522.2	522.2	522.2	522.2	522.2	522.2
162.5°	525.1	526.0	529.0	528.0	531.0	531.0	531.0	531.0	531.0	531.2	531.4
165°	535.9	536.8	538.8	537.8	541.8	541.8	541.8	541.8	541.8	541.9	542.3
167.5°	544.7	545.7	548.7	547.7	550.6	550.4	550.1	549.9	549.7	549.7	549.7
170°	551.6	552.5	555.5	554.5	556.5	556.3	556.1	555.7	555.5	555.3	555.1
172.5°	554.5	555.5	558.5	556.5	558.5	558.3	557.9	557.7	557.5	557.7	557.9
175°	556.5	558.5	559.5	558.5	561.4	561.4	561.4	561.4	561.4	561.6	561.9
177.5°	561.4	562.4	564.3	563.3	567.3	567.1	566.8	566.5	566.3	566.3	566.3
180°	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3



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CANDELA DISTRIBUTION (continued):

	52.5°	55°	57°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°
0°	738.1	738.1	738.1	738.1	738.1	738.1	738.1	738.1	738.1	738.1	738.1
2.5°	728.7	734.5	734.5	726.9	732.5	726.9	730.6	724.9	730.6	721.2	732.5
5°	723.0	728.7	728.7	717.5	728.7	717.5	726.9	713.6	726.9	711.7	726.9
7.5°	708.0	721.2	721.2	706.1	719.4	708.0	719.4	706.1	717.5	700.4	719.4
10°	691.0	704.2	706.1	691.0	706.1	692.9	709.9	692.9	709.9	691.0	711.7
12.5°	679.7	694.7	698.5	681.5	700.4	683.4	704.2	685.4	704.2	683.4	708.0
15°	677.8	691.0	694.7	679.7	696.6	677.8	702.4	679.7	704.2	681.5	709.9
17.5°	679.7	691.0	694.7	677.8	694.7	679.7	700.4	681.5	704.2	683.4	709.9
20°	685.4	692.9	692.9	683.4	696.6	683.4	700.4	681.5	706.1	687.2	711.7
22.5°	702.4	704.2	704.2	696.6	704.2	694.7	708.0	694.7	711.7	696.6	719.4
25°	730.6	728.7	724.9	723.0	724.9	719.4	726.9	717.5	734.5	721.2	743.9
27.5°	779.7	772.1	768.4	768.4	766.5	768.4	768.4	764.5	772.1	768.4	783.5
30°	840.2	826.9	821.3	826.9	819.3	826.9	825.0	823.2	830.8	826.9	840.2
32.5°	919.4	896.8	892.9	904.3	889.2	902.4	891.1	896.8	902.4	906.2	913.8
35°	1011.9	985.5	981.8	993.1	976.1	995.0	981.8	989.2	993.1	1002.5	1008.2
37.5°	1121.4	1089.4	1083.6	1098.8	1076.1	1096.9	1078.1	1100.6	1095.0	1108.1	1113.9
40°	1253.6	1215.9	1202.7	1223.4	1196.9	1214.0	1195.0	1219.6	1214.0	1240.4	1246.1
42.5°	1416.0	1361.2	1348.0	1368.7	1329.1	1334.8	1319.7	1348.0	1344.2	1380.1	1385.7
45°	1584.0	1517.9	1499.0	1519.8	1474.5	1485.8	1463.2	1493.3	1491.5	1519.8	1542.5
47.5°	1770.9	1689.7	1665.2	1687.8	1633.1	1646.2	1623.7	1655.8	1657.6	1689.7	1712.3
50°	1965.3	1880.4	1848.4	1869.0	1818.1	1827.5	1804.9	1844.5	1842.6	1886.0	1903.1
52.5°	2176.9	2090.0	2065.5	2074.8	2014.4	2025.8	2006.9	2056.0	2044.6	2071.1	2105.1
55°	2410.9	2310.8	2282.5	2310.8	2239.0	2254.2	2229.6	2275.0	2256.1	2290.0	2299.5
57.5°	2650.7	2552.5	2529.9	2550.6	2482.6	2494.0	2461.9	2499.6	2484.5	2507.2	2522.4
60°	2905.6	2816.8	2794.2	2816.8	2750.7	2752.7	2697.9	2737.6	2714.9	2743.2	2737.6
62.5°	3149.1	3073.6	3067.9	3100.1	3017.0	3007.4	2941.4	2969.8	2937.6	2956.5	2933.9
65°	3356.8	3313.4	3320.9	3347.4	3273.7	3251.1	3175.5	3190.6	3143.3	3143.3	3115.1
67.5°	3628.6	3581.5	3581.5	3604.1	3511.6	3453.1	3349.2	3335.9	3258.6	3243.5	3177.5
70°	3855.2	3868.4	3853.3	3872.1	3762.7	3643.7	3505.9	3439.8	3337.9	3288.9	3211.4
71°	3774.0	3849.6	3876.0	3891.1	3800.4	3681.5	3538.1	3453.1	3354.9	3288.9	3205.7
72.5°	3405.8	3589.0	3692.8	3692.8	3704.1	3628.6	3490.8	3398.3	3286.9	3200.0	3122.7
75°	2386.3	2684.7	2818.7	2803.6	2901.7	2935.8	2947.1	2907.5	2845.1	2720.6	2665.8
77.5°	1063.0	1400.9	1602.8	1604.7	1710.6	1803.0	1876.6	1954.0	1925.7	1865.3	1861.5
80°	241.6	438.0	560.7	566.4	662.7	747.6	798.6	875.9	885.5	798.6	749.5
82.5°	103.8	122.7	139.7	137.8	169.9	203.8	241.6	262.5	253.1	209.6	198.3
85°	43.4	56.6	60.5	56.6	69.9	77.4	90.5	92.5	107.5	96.3	102.0
87.5°	0.0	1.9	1.9	0.0	3.8	0.0	3.8	1.9	9.4	3.8	11.3
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°	11.8	12.8	11.6	11.3	9.8	8.4	6.8	6.4	5.9	5.4	4.9
100°	30.9	31.4	31.0	30.9	30.5	29.9	29.5	28.7	27.9	27.3	26.5
102.5°	49.9	50.0	49.9	49.9	49.6	49.2	49.0	48.6	48.1	47.6	47.1
105°	69.5	69.7	69.7	69.7	69.7	69.7	69.7	69.2	68.7	68.2	67.7
107.5°	90.8	91.3	91.1	91.1	90.8	90.5	90.3	90.1	89.8	89.5	89.3



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CANDELA DISTRIBUTION (continued):

	52.5°	55°	57°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°
110°	111.4	111.9	111.9	111.9	111.9	111.9	111.9	111.7	111.4	111.1	110.9
112.5°	132.9	133.5	133.5	133.5	133.5	133.5	133.5	133.3	132.9	132.7	132.5
115°	154.6	155.0	155.0	155.0	155.0	155.0	155.0	155.0	155.0	155.0	155.0
117.5°	176.4	176.7	176.9	176.9	177.1	177.4	177.7	177.4	177.1	176.9	176.7
120°	199.7	200.2	200.2	200.2	200.2	200.2	200.2	200.2	200.2	200.2	200.2
122.5°	223.6	223.8	223.8	223.8	223.8	223.8	223.8	223.9	224.3	224.6	224.8
125°	248.1	248.3	248.5	248.5	248.8	249.1	249.3	249.3	249.3	249.3	249.3
127.5°	272.4	272.8	272.6	272.6	272.4	272.1	271.8	272.1	272.4	272.6	272.8
130°	294.9	295.5	295.5	295.5	295.5	295.5	295.5	295.6	295.9	296.2	296.4
132.5°	318.2	319.0	319.0	319.0	319.0	319.0	319.0	319.2	319.4	319.8	320.0
135°	340.7	341.5	341.5	341.5	341.5	341.5	341.5	341.7	342.1	342.3	342.5
137.5°	361.7	362.2	362.2	362.2	362.2	362.2	362.2	362.4	362.6	362.9	363.2
140°	382.6	382.8	382.8	382.8	382.8	382.8	382.8	383.3	383.8	384.3	384.7
142.5°	403.9	404.3	404.3	404.3	404.3	404.3	404.3	404.6	404.9	405.1	405.3
145°	425.4	426.0	425.8	425.8	425.4	425.2	425.0	425.2	425.4	425.8	426.0
147.5°	445.4	445.6	445.2	445.1	444.6	444.1	443.7	443.9	444.1	444.4	444.6
150°	462.1	462.3	461.9	461.8	461.3	460.8	460.3	460.3	460.3	460.3	460.3
152.5°	477.8	478.0	477.8	477.8	477.4	477.2	477.0	477.0	477.0	477.0	477.0
155°	494.4	494.7	494.4	494.4	494.2	493.9	493.7	493.9	494.2	494.4	494.7
157.5°	509.4	509.4	509.0	508.9	508.4	507.9	507.5	507.6	507.9	508.2	508.4
160°	522.2	522.2	521.7	521.6	521.2	520.7	520.2	520.2	520.2	520.2	520.2
162.5°	531.8	532.0	531.5	531.4	531.0	530.4	530.0	529.6	529.0	528.6	528.0
165°	542.6	542.8	542.1	541.9	541.3	540.6	539.8	539.3	538.8	538.4	537.8
167.5°	549.7	549.7	549.2	549.1	548.7	548.1	547.7	547.9	548.1	548.4	548.7
170°	554.7	554.5	554.3	554.3	554.1	553.7	553.5	554.1	554.5	555.1	555.5
172.5°	558.3	558.5	558.0	557.9	557.5	556.9	556.5	556.7	556.9	557.3	557.5
175°	562.2	562.4	561.8	561.6	560.9	560.3	559.5	558.9	558.5	557.9	557.5
177.5°	566.3	566.3	565.8	565.6	564.9	564.1	563.3	563.3	563.3	563.3	563.3
180°	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3



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CANDELA DISTRIBUTION (continued):

	77.5°	80°	82.5°	85°	87.5°	90°	95°	100°	102.5°	105°	107.5°
0°	738.1	738.1	738.1	738.1	738.1	738.1	738.1	738.1	738.1	738.1	738.1
2.5°	724.9	734.5	724.9	734.5	728.7	734.5	732.5	734.5	724.9	734.5	723.0
5°	711.7	726.9	713.6	724.9	713.6	726.9	726.9	726.9	713.6	728.7	715.5
7.5°	700.4	717.5	700.4	717.5	706.1	719.4	719.4	724.9	709.9	726.9	708.0
10°	689.1	709.9	689.1	713.6	694.7	715.5	717.5	721.2	700.4	723.0	704.2
12.5°	683.4	709.9	685.4	709.9	687.2	715.5	717.5	721.2	698.5	726.9	702.4
15°	683.4	711.7	685.4	711.7	687.2	715.5	719.4	723.0	698.5	728.7	702.4
17.5°	683.4	711.7	689.1	713.6	691.0	717.5	721.2	724.9	702.4	728.7	706.1
20°	689.1	715.5	692.9	719.4	696.6	723.0	724.9	730.6	706.1	730.6	709.9
22.5°	702.4	724.9	706.1	730.6	713.6	734.5	736.3	742.0	723.0	743.9	726.9
25°	724.9	749.5	734.5	753.3	743.9	760.9	764.5	764.5	757.0	770.3	764.5
27.5°	772.1	791.0	779.7	796.7	791.0	804.3	804.3	806.2	811.8	815.6	821.3
30°	832.5	845.8	842.0	851.4	853.4	860.8	860.8	872.3	894.9	872.3	870.4
32.5°	913.8	921.3	923.2	927.1	934.6	940.2	947.7	961.0	979.8	927.1	910.1
35°	1013.8	1015.7	1021.4	1027.0	1040.2	1044.0	1068.5	1059.1	1059.1	976.1	940.2
37.5°	1123.3	1123.3	1138.4	1138.4	1170.5	1172.4	1196.9	1147.9	1119.6	1011.9	959.1
40°	1261.1	1259.2	1276.2	1280.1	1323.5	1325.3	1321.6	1214.0	1153.5	1021.4	949.7
42.5°	1406.6	1412.1	1434.9	1442.4	1474.5	1485.8	1438.6	1259.2	1168.7	1015.7	917.6
45°	1565.0	1576.4	1604.7	1625.6	1659.5	1646.2	1533.0	1280.1	1151.6	981.8	855.3
47.5°	1738.8	1750.1	1772.7	1812.4	1827.5	1812.4	1610.4	1287.6	1125.1	928.8	764.5
50°	1914.4	1933.2	1965.3	2021.9	2029.5	1991.8	1704.8	1315.8	1104.5	874.1	660.7
52.5°	2112.6	2131.5	2169.2	2263.7	2244.8	2167.4	1816.2	1368.7	1110.1	840.2	572.0
55°	2322.2	2348.6	2422.2	2514.7	2473.2	2352.4	1938.9	1446.2	1132.8	804.3	473.9
57.5°	2543.0	2571.4	2667.7	2777.2	2696.0	2533.6	2063.6	1506.5	1144.1	730.6	366.3
60°	2762.1	2801.7	2926.3	3017.0	2890.5	2688.4	2174.9	1546.3	1113.9	590.9	283.1
62.5°	2962.3	3026.4	3166.1	3215.1	3013.2	2786.6	2235.3	1517.9	991.2	407.8	228.5
65°	3103.7	3186.8	3277.5	3271.8	2990.5	2754.6	2190.0	1387.6	738.1	270.0	194.4
67.5°	3164.2	3241.6	3262.4	3166.1	2828.1	2612.9	2027.7	1117.7	424.8	202.0	169.9
70°	3186.8	3252.9	3135.8	2903.6	2510.9	2265.5	1657.6	711.7	232.2	164.3	147.2
71°	3177.5	3209.6	2986.8	2714.9	2308.9	2052.2	1453.6	541.9	198.3	152.9	139.7
72.5°	3049.0	3003.8	2660.2	2358.1	1957.8	1697.3	1130.9	341.7	162.3	137.8	130.3
75°	2492.1	2288.3	1957.8	1672.7	1332.8	1066.6	613.6	175.6	130.3	118.9	113.3
77.5°	1629.3	1451.8	1179.9	959.1	728.7	553.2	251.1	120.8	103.8	100.0	98.2
80°	581.6	466.3	353.0	309.6	234.1	192.6	122.7	92.5	81.2	83.0	81.2
82.5°	164.3	151.1	130.3	120.8	105.7	103.8	79.3	69.9	64.2	67.9	66.0
85°	81.2	69.9	50.9	49.0	37.8	43.4	39.6	47.3	41.5	43.4	39.6
87.5°	5.7	7.5	1.9	5.7	0.0	5.7	7.5	9.4	1.9	7.5	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°	4.7	4.4	4.1	4.0	4.0	4.0	4.0	4.4	4.7	4.9	5.4
100°	26.3	26.1	25.7	25.5	25.1	24.5	25.5	26.1	26.3	26.5	27.3
102.5°	47.3	47.6	47.9	48.1	47.6	47.1	48.1	47.6	47.3	47.1	47.6
105°	68.2	68.7	69.2	69.7	68.7	67.7	69.7	68.7	68.2	67.7	68.2
107.5°	89.5	89.8	90.1	90.3	89.8	89.3	90.3	89.8	89.5	89.3	89.5



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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°	111.1	111.4	111.7	111.9	111.4	110.9	111.9	111.4	111.1	110.9	111.1	0°
112.5°	132.9	133.5	133.9	134.5	133.5	132.5	134.5	133.5	132.9	132.5	132.7	2.5°
115°	155.6	156.0	156.6	157.0	156.6	156.0	157.0	156.0	155.6	155.0	155.0	5°
117.5°	177.1	177.7	178.1	178.7	177.7	176.7	178.7	177.7	177.1	176.7	176.9	7.5°
120°	200.7	201.2	201.7	202.2	201.2	200.2	202.2	201.2	200.7	200.2	200.2	10°
122.5°	225.7	226.7	227.7	228.7	228.2	227.7	228.7	226.7	225.7	224.8	224.6	12.5°
125°	250.1	250.8	251.4	252.2	251.7	251.3	252.2	250.8	250.1	249.3	249.3	15°
127.5°	273.6	274.3	275.0	275.8	274.3	272.8	275.8	274.3	273.6	272.8	272.6	17.5°
130°	297.2	297.9	298.6	299.3	298.3	297.4	299.3	297.9	297.2	296.4	296.2	20°
132.5°	320.8	321.4	322.1	322.9	322.0	321.0	322.9	321.4	320.8	320.0	319.8	22.5°
135°	343.1	343.5	344.1	344.5	344.1	343.5	344.5	343.5	343.1	342.5	342.3	25°
137.5°	364.2	365.1	366.1	367.0	366.1	365.1	367.0	365.1	364.2	363.2	362.9	27.5°
140°	385.7	386.7	387.7	388.7	387.7	386.7	388.7	386.7	385.7	384.7	384.3	30°
142.5°	406.1	406.8	407.5	408.3	407.8	407.3	408.3	406.8	406.1	405.3	405.1	32.5°
145°	426.8	427.4	428.1	428.9	428.0	427.0	428.9	427.4	426.8	426.0	425.8	35°
147.5°	445.4	446.1	446.7	447.5	446.1	444.6	447.5	446.1	445.4	444.6	444.4	37.5°
150°	461.3	462.3	463.3	464.2	462.8	461.3	464.2	462.3	461.3	460.3	460.3	40°
152.5°	477.8	478.4	479.2	480.0	478.4	477.0	480.0	478.4	477.8	477.0	477.0	42.5°
155°	495.4	496.1	496.9	497.6	496.7	495.7	497.6	496.1	495.4	494.7	494.4	45°
157.5°	509.6	510.9	512.1	513.3	511.9	510.3	513.3	510.9	509.6	508.4	508.2	47.5°
160°	520.9	521.6	522.4	523.2	522.2	521.2	523.2	521.6	520.9	520.2	520.2	50°
162.5°	528.6	529.0	529.6	530.0	528.6	527.0	530.0	529.0	528.6	528.0	528.6	52.5°
165°	538.4	538.8	539.3	539.8	538.8	537.8	539.8	538.8	538.4	537.8	538.4	55°
167.5°	549.7	550.6	551.6	552.5	551.6	550.6	552.5	550.6	549.7	548.7	548.4	57.5°
170°	556.7	557.9	559.3	560.5	559.5	558.5	560.5	557.9	556.7	555.5	555.1	60°
172.5°	558.3	558.9	559.6	560.5	558.9	557.5	560.5	558.9	558.3	557.5	557.3	62.5°
175°	558.3	558.9	559.6	560.5	558.9	557.5	560.5	558.9	558.3	557.5	557.9	65°
177.5°	564.1	564.9	565.6	566.3	564.9	563.3	566.3	564.9	564.1	563.3	563.3	67.5°
180°	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	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°
738.1	738.1	738.1	738.1	738.1	738.1	738.1	738.1	738.1	738.1	738.1	110°	111.4
736.3	728.7	738.1	728.7	738.1	732.5	738.1	732.5	738.1	742.0	742.0	112.5°	132.9
732.5	719.4	736.3	726.9	738.1	728.7	736.3	730.6	740.0	743.9	747.6	115°	155.0
730.6	717.5	734.5	721.2	738.1	724.9	736.3	728.7	740.0	743.9	751.4	117.5°	177.1
728.7	711.7	734.5	715.5	736.3	723.0	736.3	724.9	738.1	742.0	743.9	120°	200.2
728.7	709.9	734.5	713.6	736.3	717.5	734.5	717.5	736.3	734.5	728.7	122.5°	224.3
730.6	706.1	734.5	709.9	734.5	711.7	732.5	709.9	728.7	723.0	719.4	125°	249.3
730.6	706.1	732.5	708.0	730.6	709.9	726.9	706.1	723.0	721.2	715.5	127.5°	272.4
734.5	709.9	732.5	715.5	732.5	711.7	724.9	706.1	719.4	708.0	685.4	130°	295.9
745.8	728.7	745.8	728.7	736.3	717.5	723.0	700.4	698.5	679.7	643.7	132.5°	319.4
772.1	764.5	760.9	740.0	734.5	709.9	702.4	675.9	666.5	638.2	589.1	135°	342.1
806.2	789.3	766.5	742.0	717.5	687.2	666.5	645.7	625.0	589.1	526.8	137.5°	362.6
828.8	804.3	757.0	723.0	677.8	653.2	617.3	594.7	564.5	519.2	458.8	140°	383.8
843.9	806.2	734.5	694.7	634.3	602.2	555.1	530.4	487.2	443.7	400.3	142.5°	404.9
847.7	798.6	704.2	660.7	581.6	545.6	483.3	456.9	415.4	385.1	368.1	145°	425.4
832.5	772.1	657.0	600.3	513.5	472.0	413.5	394.5	370.0	358.7	351.1	147.5°	444.1
802.4	721.2	583.4	517.3	428.5	396.4	366.3	366.3	353.0	347.4	334.2	150°	460.3
747.6	645.7	488.9	424.8	364.4	358.7	341.7	349.4	339.8	336.1	317.2	152.5°	477.0
662.7	538.1	394.5	356.9	328.5	332.2	321.0	328.5	322.9	321.0	298.2	155°	494.2
553.2	428.5	332.2	319.1	300.1	305.9	296.4	305.9	300.1	302.1	285.1	157.5°	507.9
441.8	347.4	294.6	287.0	273.7	277.6	271.8	281.3	279.5	287.0	277.6	160°	520.2
353.0	296.4	262.5	256.7	249.2	251.1	249.2	258.6	260.6	275.6	275.6	162.5°	529.0
292.7	254.8	236.0	234.1	226.6	228.5	230.3	239.8	247.3	266.2	275.6	165°	538.8
251.1	228.5	215.2	213.3	209.6	211.4	215.2	226.6	234.1	258.6	279.5	167.5°	548.1
220.9	207.7	198.3	198.3	194.4	198.3	202.0	213.3	222.8	251.1	271.8	170°	554.5
198.3	188.8	183.2	185.1	183.2	186.8	190.7	202.0	213.3	239.8	260.6	172.5°	556.9
177.4	171.8	168.1	169.9	169.9	175.6	179.3	190.7	200.1	224.7	251.1	175°	558.5
160.4	156.8	154.8	156.8	158.6	164.3	169.9	177.4	185.1	207.7	237.9	177.5°	563.3
147.2	143.5	143.5	143.5	145.3	151.1	158.6	162.3	169.9	194.4	222.8	180°	565.3
139.7	137.8	137.8	137.8	139.7	145.3	152.9	156.8	164.3	188.8	215.2		
130.3	130.3	132.1	130.3	134.0	135.9	143.5	147.2	156.8	181.3	205.8		
115.2	115.2	117.0	117.0	120.8	120.8	126.5	130.3	141.7	162.3	185.1		
102.0	102.0	105.7	103.8	103.8	100.0	107.5	111.4	120.8	141.7	164.3		
86.9	85.0	88.8	83.0	81.2	77.4	83.0	88.8	103.8	117.0	120.8		
67.9	62.3	64.2	58.5	58.5	54.8	60.5	62.3	71.8	85.0	92.5		
41.5	34.0	37.8	32.1	35.8	32.1	34.0	35.8	43.4	52.9	50.9		
9.4	5.7	7.5	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		
5.9	6.4	6.8	8.4	9.8	11.3	12.8	11.8	10.8	8.8	4.0		
27.9	28.7	29.5	29.9	30.5	30.9	31.4	30.9	30.5	29.5	21.6		
48.1	48.6	49.0	49.2	49.6	49.9	50.0	49.9	49.6	49.0	44.2		
68.7	69.2	69.7	69.7	69.7	69.7	69.7	69.5	69.2	68.7	64.8		
89.8	90.1	90.3	90.5	90.8	91.1	91.3	90.8	90.3	89.3	86.3		

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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°
111.7	111.9	111.9	111.9	111.9	111.9	111.4	110.9	110.0	108.0	0°	738.1	738.1
133.3	133.5	133.5	133.5	133.5	133.5	132.9	132.5	131.5	129.5	2.5°	745.8	743.9
155.0	155.0	155.0	155.0	155.0	155.0	154.6	154.1	153.1	151.2	5°	755.1	755.1
177.4	177.7	177.4	177.1	176.9	176.7	176.4	176.2	175.7	173.7	7.5°	757.0	760.9
200.2	200.2	200.2	200.2	200.2	200.2	199.7	199.2	198.3	197.3	10°	743.9	740.0
223.9	223.8	223.8	223.8	223.8	223.8	223.6	223.3	222.8	221.8	12.5°	723.0	719.4
249.3	249.3	249.1	248.8	248.5	248.3	248.1	247.8	247.3	246.3	15°	721.2	719.4
272.1	271.8	272.1	272.4	272.6	272.8	272.4	271.8	270.9	269.0	17.5°	708.0	698.5
295.6	295.5	295.5	295.5	295.5	295.5	294.9	294.5	293.5	292.5	20°	670.2	653.2
319.2	319.0	319.0	319.0	319.0	319.0	318.2	317.6	316.0	315.0	22.5°	617.3	592.8
341.7	341.5	341.5	341.5	341.5	341.5	340.7	340.1	338.6	338.6	25°	553.2	519.2
362.4	362.2	362.2	362.2	362.2	362.2	361.7	361.2	360.2	360.2	27.5°	483.3	449.3
383.3	382.8	382.8	382.8	382.8	382.8	382.6	382.3	381.8	380.8	30°	428.5	402.1
404.6	404.3	404.3	404.3	404.3	404.3	403.9	403.4	402.4	402.4	32.5°	389.0	373.9
425.2	425.0	425.2	425.4	425.8	426.0	425.4	425.0	424.0	423.0	35°	356.9	347.4
443.9	443.7	444.1	444.6	445.1	445.6	445.4	445.1	444.6	443.7	37.5°	336.1	321.0
460.3	460.3	460.8	461.3	461.8	462.3	462.1	461.8	461.3	460.3	40°	315.2	296.4
477.0	477.0	477.2	477.4	477.8	478.0	477.8	477.4	477.0	476.0	42.5°	296.4	277.6
493.9	493.7	493.9	494.2	494.4	494.7	494.4	494.2	493.7	493.7	45°	277.6	264.3
507.6	507.5	507.9	508.4	508.9	509.4	509.4	509.4	509.4	509.4	47.5°	268.1	256.7
520.2	520.2	520.7	521.2	521.6	522.2	522.2	522.2	522.2	522.2	50°	264.3	253.1
529.6	530.0	530.4	531.0	531.4	532.0	531.8	531.4	531.0	531.0	52.5°	268.1	258.6
539.3	539.8	540.6	541.3	541.9	542.8	542.6	542.3	541.8	541.8	55°	275.6	270.0
547.9	547.7	548.1	548.7	549.1	549.7	549.7	549.7	549.7	550.6	57.5°	268.1	258.6
554.1	553.5	553.7	554.1	554.3	554.5	554.7	555.1	555.5	556.5	60°	251.1	236.0
556.7	556.5	556.9	557.5	557.9	558.5	558.3	557.9	557.5	558.5	62.5°	239.8	224.7
558.9	559.5	560.3	560.9	561.6	562.4	562.2	561.9	561.4	561.4	65°	230.3	219.0
563.3	563.3	564.1	564.9	565.6	566.3	566.3	566.3	566.3	567.3	67.5°	220.9	209.6
565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	70°	209.6	198.3
										71°	203.8	190.7
										72.5°	194.4	179.3
										75°	175.6	160.4
										77.5°	145.3	128.4
										80°	111.4	100.0
										82.5°	83.0	73.6
										85°	43.4	34.0
										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°	13.7	9.8
										102.5°	37.3	31.4
										105°	59.8	55.0
										107.5°	82.5	78.5



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175°	180°
738.1	738.1
745.8	743.9
757.0	759.0
764.5	762.8
743.9	740.0
723.0	723.0
721.2	721.2
694.7	692.9
649.5	643.7
585.2	579.6
505.9	498.4
436.0	436.0
389.0	389.0
364.4	366.3
341.7	343.6
307.7	307.7
279.5	279.5
266.2	264.3
254.8	253.1
247.3	245.5
239.8	239.8
234.1	234.1
234.1	230.3
236.0	230.3
232.2	228.5
232.2	230.3
236.0	232.2
236.0	228.5
215.2	202.0
203.8	192.6
183.2	175.6
156.8	154.8
122.7	120.8
100.0	94.4
71.8	62.3
28.4	28.4
0.0	0.0
0.0	0.0
0.0	0.0
1.0	1.0
2.0	2.0
7.8	7.8
27.5	27.5
53.0	53.0
75.5	76.5

CANDELA DISTRIBUTION (continued):

	155°	165°	175°
110°	104.0	101.1	100.1
112.5°	126.6	123.7	121.7
115°	148.2	146.2	144.3
117.5°	170.8	168.8	166.8
120°	194.3	192.3	191.4
122.5°	218.8	216.9	216.0
125°	243.4	242.5	241.5
127.5°	267.0	265.0	264.0
130°	288.5	287.5	286.6
132.5°	312.1	311.2	308.2
135°	334.7	332.7	330.8
137.5°	357.3	356.3	353.3
140°	378.8	377.8	375.9
142.5°	399.5	400.5	398.5
145°	420.0	420.0	418.1
147.5°	439.7	438.7	435.8
150°	456.4	455.4	453.5
152.5°	473.0	474.0	471.1
155°	491.7	492.7	490.7
157.5°	506.5	507.5	505.5
160°	519.2	519.2	517.2
162.5°	528.0	529.0	526.0
165°	537.8	538.8	536.8
167.5°	547.7	548.7	545.7
170°	554.5	555.5	552.5
172.5°	556.5	558.5	555.5
175°	558.5	559.5	558.5
177.5°	563.3	564.3	562.4
180°	565.3	565.3	565.3



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<u>180°</u>
99.2
121.7
143.3
165.8
189.5
215.0
239.5
262.0
284.7
307.2
329.8
352.3
375.0
396.5
417.2
435.8
452.5
470.2
489.8
503.5
515.3
525.1
535.9
544.7
551.6
554.5
556.5
561.4
565.3

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