

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: P271617

Luminaire Tested: **ISS-AF-1200-LED-E1-T2-7027-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271617
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29758)-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-T2-7027-ULG
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE WITH UPLIGHT
LIGHT SQUARE WITH ACCULED OPTICS-TYPE II, 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: 6998.2 lumens
Efficiency: N/A
Efficacy: 84.6 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 0.54')
IES Classification: Type II - 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

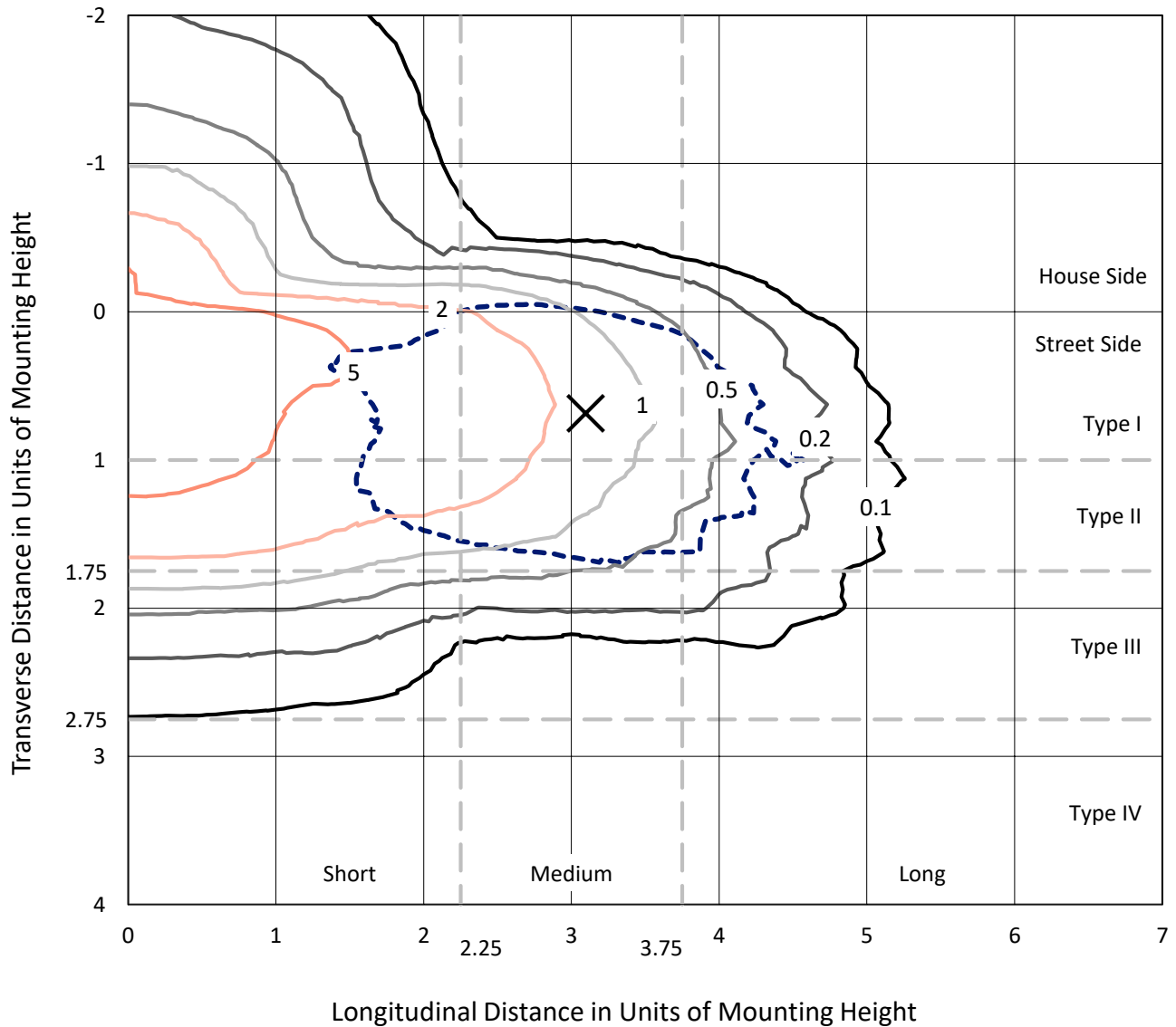


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Iso-Footcandle Lines of Horizontal Illumination

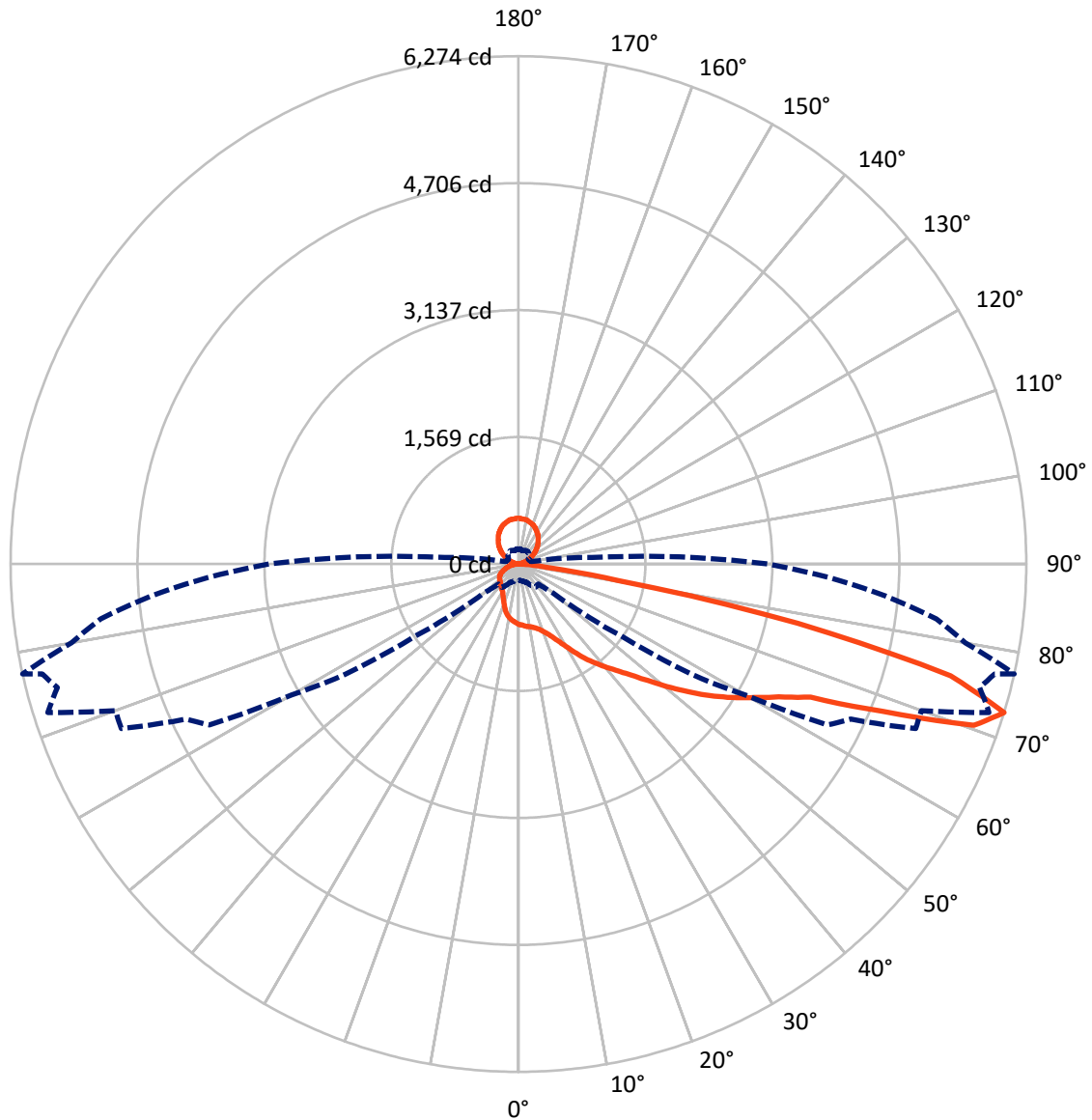
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.1 fc
 Type II - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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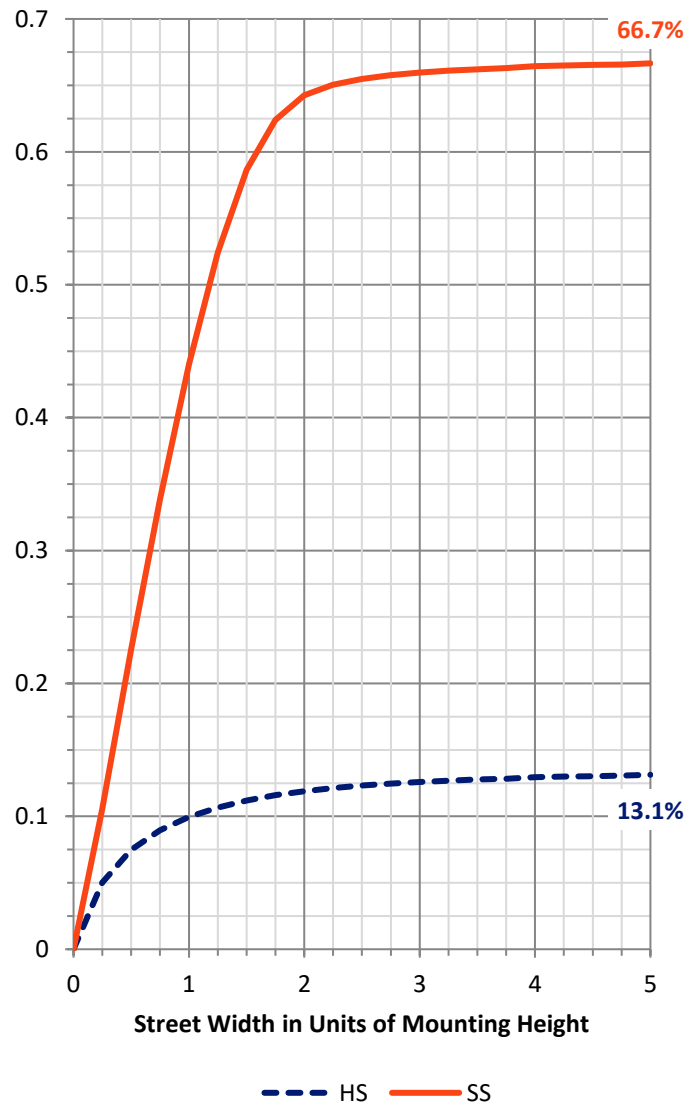
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	927.6	699.9	1627.5
	% Fixture	13.3	10.0	23.3
Street Side	Lumens	4670.7	699.9	5370.6
	% Fixture	66.7	10.0	76.7
Total	Lumens	5598.4	1399.8	6998.2
	% Fixture	80.0	20.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.4	1.0
10°-20°	212.9	3.0
20°-30°	377.9	5.4
30°-40°	598.8	8.6
40°-50°	898.3	12.8
50°-60°	1164.0	16.6
60°-70°	1322.6	18.9
70°-80°	877.7	12.5
80°-90°	76.8	1.1
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	3.8
150°-160°	226.8	3.2
160°-170°	152.2	2.2
170°-180°	53.3	0.8
0°-90°	5598.4	80.0
0°-180°	6998.2	100.0



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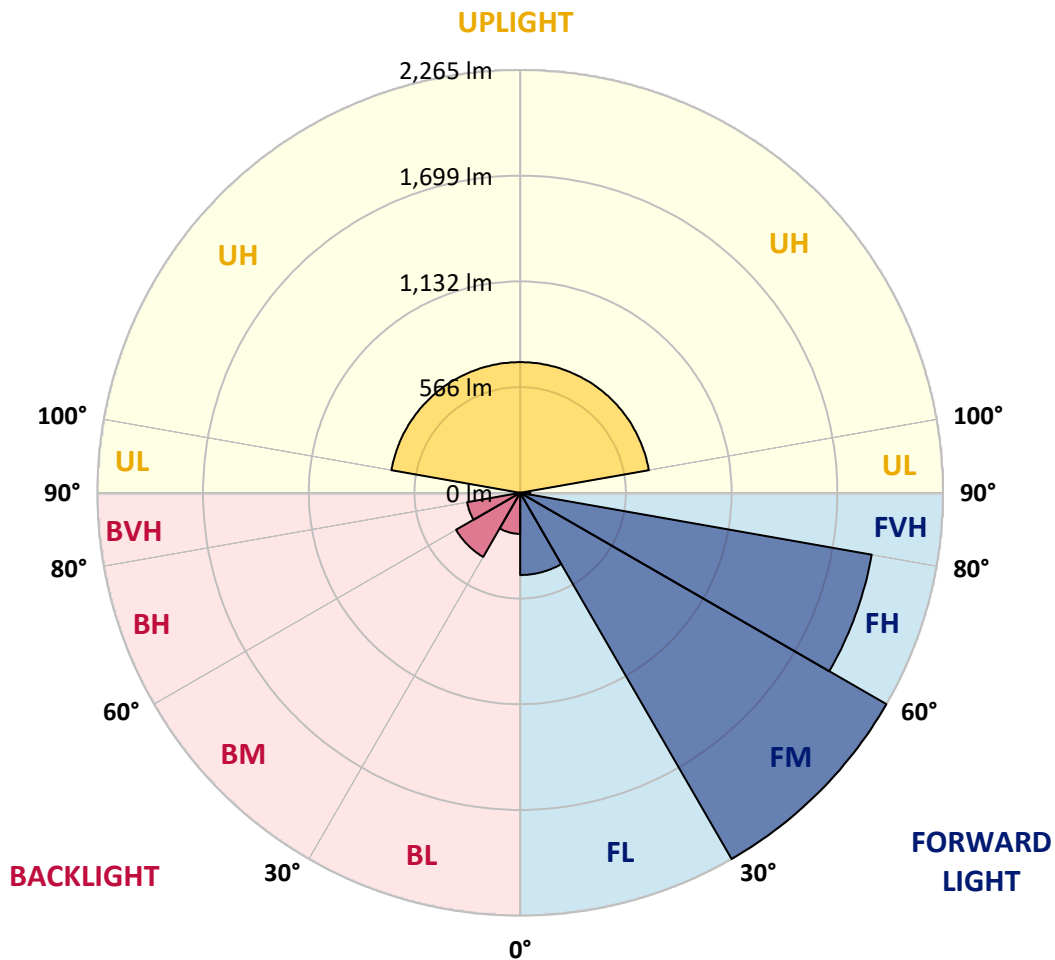
CATALOG NUMBER: ISS-AF-1200-LED-E1-T2-7027-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	440.4	6.3			
FM (30°-60°)	2264.8	32.4			
FH (60°-80°)	1911.8	27.3			G2/5000
FVH (80°-90°)	53.6	0.8			G1/100
BL (0°-30°)	219.8	3.1	B1/500		
BM (30°-60°)	396.3	5.7	B1/1000		
BH (60°-80°)	288.5	4.1	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	10.0		U4/1000	

BUG Rating: B1-U5-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47.5°	50°
0°	747.5	747.5	747.5	747.5	747.5	747.5	747.5	747.5	747.5	747.5	747.5
2.5°	809.7	806.0	804.2	800.3	796.5	794.7	789.0	785.2	790.9	789.0	789.0
5°	870.2	866.3	860.8	855.1	847.6	841.8	836.2	830.6	834.3	830.6	826.8
7.5°	919.2	915.5	908.0	902.3	894.7	887.2	879.6	877.7	873.9	868.3	866.3
10°	947.5	943.8	940.1	936.2	925.0	919.2	909.8	904.1	906.0	898.5	898.5
12.5°	974.0	970.2	968.4	968.4	958.9	953.2	949.5	943.8	947.5	936.2	932.5
15°	998.6	994.7	989.1	994.7	992.9	991.0	989.1	987.1	992.9	981.6	983.5
17.5°	1038.2	1036.3	1025.0	1017.4	1019.3	1025.0	1028.6	1026.9	1026.9	1021.1	1023.1
20°	1100.4	1100.4	1085.3	1072.1	1051.4	1051.4	1053.3	1051.4	1055.1	1058.9	1064.6
22.5°	1147.7	1143.9	1138.2	1126.8	1104.3	1085.3	1085.3	1077.8	1083.4	1085.3	1096.7
25°	1208.0	1204.3	1191.1	1191.1	1168.4	1143.9	1140.1	1128.8	1141.9	1117.4	1136.4
27.5°	1281.6	1277.9	1261.0	1253.3	1242.1	1211.8	1204.3	1206.2	1219.4	1183.4	1202.4
30°	1374.1	1370.4	1349.6	1328.9	1310.0	1277.9	1274.2	1272.2	1302.5	1261.0	1285.5
32.5°	1491.2	1491.2	1468.5	1440.3	1402.4	1359.0	1344.0	1345.8	1387.3	1342.1	1383.6
35°	1668.6	1646.0	1604.5	1561.1	1521.4	1470.4	1449.7	1445.9	1483.6	1438.4	1485.5
37.5°	1781.9	1766.8	1729.0	1697.0	1653.5	1604.5	1589.3	1595.0	1627.1	1561.1	1629.0
40°	1883.7	1881.9	1857.3	1836.7	1793.2	1744.1	1763.0	1838.5	1923.5	1795.2	1797.0
42.5°	1951.7	1955.5	1953.6	1955.5	1931.0	1880.1	1912.1	2017.9	2163.2	2087.8	2017.9
45°	1963.1	1976.3	1982.0	2019.7	2044.3	2014.0	2031.1	2142.4	2433.1	2550.1	2234.9
47.5°	1991.5	2004.6	1993.2	2038.5	2151.8	2149.9	2217.9	2259.5	2299.0	2318.0	2555.8
50°	2029.1	2053.6	2042.4	2080.1	2172.6	2225.4	2284.0	2336.9	2304.7	2185.8	2250.0
52.5°	2031.1	2059.4	2121.7	2159.3	2250.0	2238.7	2278.3	2250.0	2299.0	2176.3	2238.7
55°	1864.9	1870.6	2051.8	2242.5	2401.0	2368.9	2344.4	2280.2	2342.5	2189.6	2268.8
57.5°	1602.6	1621.4	1810.2	2131.0	2470.9	2499.2	2491.6	2485.9	2534.9	2331.1	2418.0
60°	1313.7	1336.4	1515.7	1893.3	2325.5	2399.1	2501.0	2563.3	2689.7	2608.7	2752.0
62.5°	819.3	836.2	1034.4	1506.3	2051.8	2197.2	2346.2	2419.9	2603.0	2640.7	2884.2
65°	390.8	396.4	473.8	819.3	1491.2	1764.9	1985.7	2142.4	2367.0	2536.9	2865.3
67.5°	303.9	305.9	334.1	436.0	764.5	947.5	1198.6	1406.3	1646.0	2110.3	2517.9
70°	243.5	243.5	266.2	320.9	473.8	498.3	562.5	632.4	734.3	1108.0	1438.4
72.5°	203.8	203.8	219.0	253.0	351.1	356.8	352.9	347.4	347.4	437.9	558.7
75°	171.8	169.9	179.3	202.0	260.5	268.1	264.2	251.1	236.0	236.0	266.2
77.5°	139.7	139.7	147.2	158.6	188.7	192.6	192.6	181.2	168.1	169.9	183.1
80°	109.4	109.4	115.2	122.7	132.1	130.3	130.3	118.9	109.4	107.5	115.2
82.5°	79.3	81.2	94.4	88.8	84.9	79.3	79.3	77.4	69.9	64.2	67.9
85°	24.5	26.4	45.4	52.8	43.4	35.8	34.0	28.3	30.3	24.5	28.3
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
110°	99.2	100.1	101.1	104.0	108.0	108.4	109.0	109.4	110.0	110.4	110.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47.5°	50°
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°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77°
0°	747.5	747.5	747.5	747.5	747.5	747.5	747.5	747.5	747.5	747.5	747.5
2.5°	779.5	783.3	775.8	775.8	766.3	772.0	762.6	764.5	755.0	758.8	758.8
5°	817.3	819.3	809.7	806.0	796.5	796.5	787.2	787.2	773.9	777.8	773.9
7.5°	853.2	853.2	843.8	836.2	826.8	822.9	811.7	806.0	794.7	792.8	787.2
10°	883.4	883.4	870.2	862.6	851.3	845.7	830.6	824.8	811.7	802.3	796.5
12.5°	921.1	917.3	902.3	894.7	875.8	873.9	851.3	847.6	828.7	822.9	813.5
15°	966.5	970.2	945.6	943.8	917.3	915.5	885.3	883.4	855.1	853.2	839.9
17.5°	1015.5	1023.1	1002.3	1000.4	968.4	968.4	932.5	930.6	892.8	890.8	873.9
20°	1058.9	1068.4	1055.1	1058.9	1030.6	1032.5	992.9	992.9	940.1	936.2	921.1
22.5°	1098.5	1117.4	1106.2	1126.8	1098.5	1111.8	1058.9	1068.4	1006.1	998.6	975.9
25°	1138.2	1162.8	1158.9	1192.9	1172.2	1194.8	1140.1	1158.9	1077.8	1083.4	1053.3
27.5°	1177.9	1209.9	1206.2	1255.2	1247.7	1293.0	1245.8	1266.6	1177.9	1183.4	1149.5
30°	1244.0	1279.7	1266.6	1317.5	1317.5	1391.1	1355.4	1387.3	1289.2	1300.6	1261.0
32.5°	1332.6	1374.1	1334.5	1400.5	1396.9	1493.1	1464.8	1519.6	1423.3	1438.4	1389.3
35°	1428.9	1495.0	1430.8	1504.4	1493.1	1593.1	1574.2	1662.9	1561.1	1578.1	1528.9
37.5°	1555.3	1634.6	1549.7	1613.9	1562.9	1678.0	1666.7	1787.5	1683.7	1727.1	1668.6
40°	1704.4	1766.8	1661.1	1715.9	1630.9	1749.8	1730.9	1897.0	1800.7	1870.6	1817.7
42.5°	1842.2	1885.7	1746.0	1813.9	1712.0	1832.8	1798.9	1999.0	1915.8	2023.5	1965.0
45°	1966.9	2016.0	1830.9	1906.5	1793.2	1925.3	1866.8	2097.1	2040.5	2202.8	2144.3
47.5°	2144.3	2072.6	1908.3	2006.5	1880.1	2025.4	1948.0	2212.3	2191.4	2421.8	2353.8
50°	2085.8	2132.9	1972.5	2074.5	1959.3	2136.8	2051.8	2350.1	2355.6	2659.6	2620.0
52.5°	2091.4	2170.8	2021.5	2163.2	2051.8	2291.6	2202.8	2516.2	2542.6	2889.8	2835.1
55°	2125.4	2242.5	2095.2	2285.8	2182.1	2463.3	2401.0	2695.5	2740.8	3107.0	3074.9
57.5°	2210.4	2372.7	2221.7	2470.9	2363.2	2659.6	2603.0	2880.4	2942.8	3324.0	3314.6
60°	2536.9	2729.4	2465.2	2740.8	2597.3	2882.3	2806.8	3074.9	3137.2	3531.7	3556.2
62.5°	2901.2	3235.3	3078.6	3365.6	2986.1	3275.0	3052.2	3314.6	3318.4	3754.4	3831.8
65°	2995.6	3509.0	3643.1	4177.2	3979.0	4275.3	3680.7	3856.3	3629.8	4160.2	4271.6
67.5°	2959.7	3588.3	3960.2	4562.3	4786.9	5304.1	5204.0	5143.7	4618.9	5000.1	5134.3
70°	2172.6	2838.9	3748.8	4360.4	5007.7	5347.5	5885.4	5940.2	5917.6	5864.8	5953.4
72.5°	989.1	1551.6	2536.9	3235.3	4303.7	4532.1	5311.7	5296.6	6096.9	5898.7	6038.4
75°	388.9	598.5	1208.0	1806.4	2976.7	3258.0	4141.4	3922.4	4920.9	4630.2	4928.6
77.5°	213.3	268.1	453.0	775.8	1625.2	1774.3	2534.9	2168.8	3052.2	2548.2	2648.2
80°	128.4	160.4	207.7	294.5	690.9	730.5	1081.6	872.1	1247.7	947.5	919.2
82.5°	69.9	86.9	103.8	145.3	256.7	285.0	373.8	336.0	400.1	341.6	334.1
85°	28.3	37.8	39.6	58.5	84.9	98.2	118.9	128.4	156.7	143.5	139.7
87.5°	0.0	1.9	0.0	3.8	0.0	3.8	0.0	5.7	5.7	9.4	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	11.3	9.8	8.4	6.8	6.4	5.9	5.4	4.9	4.7
100°	30.9	31.4	30.9	30.5	29.9	29.5	28.7	27.9	27.3	26.5	26.3
102.5°	49.9	50.0	49.9	49.6	49.2	49.0	48.6	48.1	47.6	47.1	47.3
105°	69.5	69.7	69.7	69.7	69.7	69.7	69.2	68.7	68.2	67.7	68.1
107.5°	90.8	91.3	91.1	90.8	90.5	90.3	90.1	89.8	89.5	89.3	89.5
110°	111.4	111.9	111.9	111.9	111.9	111.9	111.7	111.4	111.1	110.9	111.1



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CANDELA DISTRIBUTION (continued):

	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77°
112.5°	132.9	133.5	133.5	133.5	133.5	133.5	133.3	132.9	132.7	132.5	132.9
115°	154.6	155.0	155.0	155.0	155.0	155.0	155.0	155.0	155.0	155.0	155.5
117.5°	176.4	176.7	176.9	177.1	177.4	177.7	177.4	177.1	176.9	176.7	177.1
120°	199.7	200.2	200.2	200.2	200.2	200.2	200.2	200.2	200.2	200.2	200.6
122.5°	223.6	223.8	223.8	223.8	223.8	223.8	223.9	224.3	224.6	224.8	225.6
125°	248.1	248.3	248.5	248.8	249.1	249.3	249.3	249.3	249.3	249.3	249.9
127.5°	272.4	272.8	272.6	272.4	272.1	271.8	272.1	272.4	272.6	272.8	273.4
130°	294.9	295.5	295.5	295.5	295.5	295.5	295.6	295.9	296.2	296.4	297.0
132.5°	318.2	319.0	319.0	319.0	319.0	319.0	319.2	319.4	319.8	320.0	320.5
135°	340.7	341.5	341.5	341.5	341.5	341.5	341.7	342.1	342.3	342.5	343.0
137.5°	361.7	362.2	362.2	362.2	362.2	362.2	362.4	362.6	362.9	363.2	363.9
140°	382.6	382.8	382.8	382.8	382.8	382.8	383.3	383.8	384.3	384.7	385.6
142.5°	403.9	404.3	404.3	404.3	404.3	404.3	404.6	404.9	405.1	405.3	405.9
145°	425.4	426.0	425.8	425.4	425.2	425.0	425.2	425.4	425.8	426.0	426.5
147.5°	445.4	445.6	445.1	444.6	444.1	443.7	443.9	444.1	444.4	444.6	445.2
150°	462.1	462.3	461.8	461.3	460.8	460.3	460.3	460.3	460.3	460.3	461.1
152.5°	477.8	478.0	477.8	477.4	477.2	477.0	477.0	477.0	477.0	477.0	477.6
155°	494.4	494.7	494.4	494.2	493.9	493.7	493.9	494.2	494.4	494.7	495.2
157.5°	509.4	509.4	508.9	508.4	507.9	507.5	507.6	507.9	508.2	508.4	509.4
160°	522.2	522.2	521.6	521.2	520.7	520.2	520.2	520.2	520.2	520.2	520.7
162.5°	531.8	532.0	531.4	531.0	530.4	530.0	529.6	529.0	528.6	528.0	528.5
165°	542.6	542.8	541.9	541.3	540.6	539.8	539.3	538.8	538.4	537.8	538.3
167.5°	549.7	549.7	549.1	548.7	548.1	547.7	547.9	548.1	548.4	548.7	549.4
170°	554.7	554.5	554.3	554.1	553.7	553.5	554.1	554.5	555.1	555.5	556.5
172.5°	558.3	558.5	557.9	557.5	556.9	556.5	556.7	556.9	557.3	557.5	558.0
175°	562.2	562.4	561.6	560.9	560.3	559.5	558.9	558.5	557.9	557.5	558.0
177.5°	566.3	566.3	565.6	564.9	564.1	563.3	563.3	563.3	563.3	563.3	564.0
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°	747.5	747.5	747.5	747.5	747.5	747.5	747.5	747.5	747.5	747.5	747.5
2.5°	753.2	758.8	751.3	751.3	741.8	747.5	741.8	736.1	726.7	728.6	715.4
5°	766.3	770.2	760.7	756.9	751.3	749.4	738.0	726.7	713.5	713.5	698.4
7.5°	779.5	779.5	766.3	766.3	753.2	749.4	732.4	713.5	694.6	692.8	670.0
10°	787.2	785.2	768.2	768.2	749.4	747.5	726.7	698.4	672.0	664.5	632.4
12.5°	802.3	800.3	779.5	775.8	751.3	751.3	721.1	683.3	645.5	632.4	587.0
15°	821.1	822.9	798.4	792.8	764.5	762.6	721.1	664.5	613.5	592.7	537.9
17.5°	851.3	853.2	819.3	813.5	779.5	773.9	723.0	641.7	570.1	547.3	498.3
20°	890.8	885.3	839.9	838.1	792.8	787.2	721.1	607.8	526.7	503.9	460.7
22.5°	940.1	934.3	875.8	870.2	817.3	807.8	719.1	572.0	487.0	462.4	434.2
25°	1008.0	1000.4	928.7	921.1	855.1	839.9	717.3	534.2	453.0	434.2	417.2
27.5°	1092.9	1077.8	991.0	983.5	894.7	875.8	709.8	490.7	419.0	405.9	398.3
30°	1194.8	1181.6	1070.3	1058.9	947.5	923.0	702.1	451.1	394.4	388.9	383.1
32.5°	1315.7	1302.5	1166.4	1153.3	1015.5	979.6	689.0	419.0	379.4	379.4	371.9
35°	1442.0	1430.8	1270.3	1261.0	1091.0	1043.8	672.0	390.8	366.1	366.1	358.6
37.5°	1555.3	1564.8	1383.6	1376.0	1166.4	1108.0	653.1	371.9	354.9	351.1	343.5
40°	1678.0	1700.7	1489.3	1495.0	1245.8	1175.9	630.4	356.8	341.6	337.9	336.0
42.5°	1802.6	1846.1	1600.7	1621.4	1325.1	1245.8	613.5	347.4	336.0	328.4	326.5
45°	1957.5	2019.7	1738.5	1778.0	1417.5	1330.7	607.8	336.0	319.0	309.6	303.9
47.5°	2149.9	2233.0	1908.3	1953.6	1540.2	1432.7	619.1	332.2	307.7	296.4	285.0
50°	2378.4	2457.7	2110.3	2129.3	1678.0	1544.1	643.6	337.9	303.9	286.9	269.9
52.5°	2620.0	2680.4	2323.6	2302.9	1821.5	1653.5	672.0	339.8	294.5	277.5	256.7
55°	2869.2	2903.1	2521.8	2467.0	1951.7	1763.0	709.8	337.9	286.9	268.1	241.6
57.5°	3112.5	3123.9	2697.3	2644.5	2080.1	1893.3	756.9	332.2	275.6	256.7	228.3
60°	3350.5	3369.4	2891.7	2842.7	2219.8	2061.3	824.8	322.9	260.5	247.2	217.1
62.5°	3611.0	3673.2	3123.9	3131.5	2412.3	2323.6	953.2	311.4	245.3	230.2	200.1
65°	3965.7	4203.7	3507.2	3684.6	2782.3	2818.2	1198.6	279.4	224.7	205.7	185.1
67.5°	4854.9	5115.4	4437.6	4509.4	3648.6	3435.4	1353.4	237.8	198.2	185.1	171.8
70°	5968.5	5781.6	5300.3	4866.2	4154.5	3531.7	1191.1	200.1	175.6	168.1	160.4
72.5°	6274.3	5604.3	5207.8	4556.7	3841.2	3080.6	911.7	171.8	156.7	152.9	147.2
75°	5513.5	4543.4	4566.1	3620.3	3184.3	2348.2	623.0	147.2	135.9	133.9	132.1
77.5°	3525.9	2335.0	2842.7	1789.4	1838.5	1087.3	303.9	122.7	117.0	117.0	113.3
80°	1253.3	777.8	879.6	564.3	513.4	345.4	164.2	98.2	94.4	96.3	94.4
82.5°	375.6	298.2	292.6	228.3	177.4	145.3	90.5	75.5	71.8	73.6	69.9
85°	151.1	117.0	98.2	75.5	62.3	56.6	49.0	50.9	45.4	49.0	43.4
87.5°	9.4	7.5	5.7	7.5	0.0	3.8	9.4	7.5	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
110°	111.1	111.4	111.7	111.9	111.4	110.9	111.9	111.4	111.1	110.9	111.1

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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°	
112.5°	132.9	133.5	133.9	134.5	133.5	132.5	134.5	133.5	132.9	132.5	132.7	0°
115°	155.6	156.0	156.6	157.0	156.6	156.0	157.0	156.0	155.6	155.0	155.0	2.5°
117.5°	177.1	177.7	178.1	178.7	177.7	176.7	178.7	177.7	177.1	176.7	176.9	5°
120°	200.7	201.2	201.7	202.2	201.2	200.2	202.2	201.2	200.7	200.2	200.2	7.5°
122.5°	225.7	226.7	227.7	228.7	228.2	227.7	228.7	226.7	225.7	224.8	224.6	10°
125°	250.1	250.8	251.4	252.2	251.7	251.3	252.2	250.8	250.1	249.3	249.3	12.5°
127.5°	273.6	274.3	275.0	275.8	274.3	272.8	275.8	274.3	273.6	272.8	272.6	15°
130°	297.2	297.9	298.6	299.3	298.3	297.4	299.3	297.9	297.2	296.4	296.2	17.5°
132.5°	320.8	321.4	322.1	322.9	322.0	321.0	322.9	321.4	320.8	320.0	319.8	20°
135°	343.1	343.5	344.1	344.5	344.1	343.5	344.5	343.5	343.1	342.5	342.3	22.5°
137.5°	364.2	365.1	366.1	367.0	366.1	365.1	367.0	365.1	364.2	363.2	362.9	25°
140°	385.7	386.7	387.7	388.7	387.7	386.7	388.7	386.7	385.7	384.7	384.3	27.5°
142.5°	406.1	406.8	407.5	408.3	407.8	407.3	408.3	406.8	406.1	405.3	405.1	30°
145°	426.8	427.4	428.1	428.9	428.0	427.0	428.9	427.4	426.8	426.0	425.8	32.5°
147.5°	445.4	446.1	446.7	447.5	446.1	444.6	447.5	446.1	445.4	444.6	444.4	35°
150°	461.3	462.3	463.3	464.2	462.8	461.3	464.2	462.3	461.3	460.3	460.3	37.5°
152.5°	477.8	478.4	479.2	480.0	478.4	477.0	480.0	478.4	477.8	477.0	477.0	40°
155°	495.4	496.1	496.9	497.6	496.7	495.7	497.6	496.1	495.4	494.7	494.4	42.5°
157.5°	509.6	510.9	512.1	513.3	511.9	510.3	513.3	510.9	509.6	508.4	508.2	45°
160°	520.9	521.6	522.4	523.2	522.2	521.2	523.2	521.6	520.9	520.2	520.2	47.5°
162.5°	528.6	529.0	529.6	530.0	528.6	527.0	530.0	529.0	528.6	528.0	528.6	50°
165°	538.4	538.8	539.3	539.8	538.8	537.8	539.8	538.8	538.4	537.8	538.4	52.5°
167.5°	549.7	550.6	551.6	552.5	551.6	550.6	552.5	550.6	549.7	548.7	548.4	55°
170°	556.7	557.9	559.3	560.5	559.5	558.5	560.5	557.9	556.7	555.5	555.1	57.5°
172.5°	558.3	558.9	559.6	560.5	558.9	557.5	560.5	558.9	558.3	557.5	557.3	60°
175°	558.3	558.9	559.6	560.5	558.9	557.5	560.5	558.9	558.3	557.5	557.9	62.5°
177.5°	564.1	564.9	565.6	566.3	564.9	563.3	566.3	564.9	564.1	563.3	563.3	65°
180°	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	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

110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°	110°	
747.5	747.5	747.5	747.5	747.5	747.5	747.5	747.5	747.5	747.5	747.5	112.5°	132.9
724.8	711.5	717.3	711.5	715.4	704.1	707.9	698.4	698.4	696.5	687.0	115°	155.0
700.3	687.0	685.1	672.0	673.9	658.7	656.9	640.0	640.0	624.8	596.5	117.5°	177.1
666.4	645.5	643.6	617.2	615.4	594.6	587.0	568.2	566.3	549.2	532.2	120°	200.2
623.0	590.8	585.2	551.2	553.1	530.4	528.6	515.3	515.3	507.7	507.7	122.5°	224.3
573.8	537.9	534.2	507.7	509.7	494.6	496.4	488.9	492.7	496.4	509.7	125°	249.3
528.6	500.2	496.4	479.4	481.3	477.6	483.2	483.2	488.9	498.3	520.9	127.5°	272.4
490.7	466.2	468.2	460.7	468.2	466.2	477.6	475.7	487.0	498.3	526.7	130°	295.9
456.8	443.7	449.2	447.4	456.8	456.8	466.2	468.2	477.6	492.7	524.7	132.5°	319.4
434.2	430.4	436.0	436.0	443.7	445.5	454.9	460.7	466.2	481.3	509.7	135°	342.1
420.9	419.0	424.7	426.5	432.3	434.2	443.7	443.7	453.0	462.4	477.6	137.5°	362.6
402.0	398.3	405.9	405.9	413.4	411.5	422.8	419.0	428.5	432.3	436.0	140°	383.8
388.9	383.1	388.9	387.0	392.6	387.0	392.6	387.0	392.6	392.6	387.0	142.5°	404.9
375.6	369.9	371.9	364.4	369.9	362.5	364.4	356.8	360.5	356.8	358.6	145°	425.4
362.5	354.9	354.9	345.4	345.4	336.0	339.8	332.2	339.8	345.4	343.5	147.5°	444.1
343.5	337.9	337.9	330.4	334.1	330.4	337.9	334.1	336.0	328.4	315.2	150°	460.3
332.2	336.0	334.1	339.8	336.0	330.4	324.6	313.4	311.4	307.7	300.1	152.5°	477.0
315.2	319.0	309.6	317.1	311.4	313.4	309.6	303.9	300.1	296.4	288.7	155°	494.2
290.7	290.7	283.1	294.5	288.7	300.1	296.4	296.4	292.6	286.9	281.3	157.5°	507.9
269.9	271.7	264.2	273.7	269.9	285.0	283.1	288.7	288.7	285.0	269.9	160°	520.2
256.7	253.0	247.2	256.7	254.8	268.1	269.9	281.3	279.4	281.3	268.1	162.5°	529.0
245.3	237.8	232.2	237.8	237.8	249.2	253.0	266.2	268.1	271.7	264.2	165°	538.8
232.2	222.7	219.0	222.7	222.7	234.1	239.7	249.2	254.8	266.2	262.3	167.5°	548.1
220.8	207.7	203.8	207.7	209.6	220.8	226.6	236.0	243.5	258.6	256.7	170°	554.5
207.7	196.3	192.6	198.2	200.1	211.4	217.1	226.6	232.2	249.2	249.2	172.5°	556.9
192.6	183.1	183.1	185.1	188.7	200.1	203.8	217.1	219.0	239.7	241.6	175°	558.5
179.3	173.6	173.6	175.6	179.3	188.7	190.6	203.8	205.7	226.6	232.2	177.5°	563.3
168.1	164.2	164.2	166.1	168.1	175.6	177.4	190.6	194.4	213.3	222.7	180°	565.3
156.7	152.9	151.1	151.1	156.7	162.3	166.1	179.3	181.2	198.2	209.6		
143.5	139.7	139.7	137.8	143.5	147.2	154.8	162.3	166.1	183.1	190.6		
130.3	126.5	126.5	124.5	128.4	135.9	137.8	145.3	147.2	162.3	169.9		
113.3	109.4	109.4	109.4	113.3	115.2	117.0	124.5	128.4	141.6	149.1		
94.4	90.5	92.4	90.5	96.3	88.8	94.4	102.0	105.7	113.3	109.4		
71.8	66.0	67.9	67.9	69.9	64.2	67.9	71.8	75.5	81.2	79.3		
45.4	39.6	43.4	39.6	43.4	37.8	41.5	41.5	45.4	41.5	39.6		
9.4	3.8	9.4	3.8	11.3	0.0	5.7	0.0	3.8	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		
111.4	111.7	111.9	111.9	111.9	111.9	111.9	111.4	110.9	110.0	108.0		

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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°
133.3	133.5	133.5	133.5	133.5	133.5	132.9	132.5	131.5	129.5	0°	747.5	747.5
155.0	155.0	155.0	155.0	155.0	155.0	154.6	154.1	153.1	151.2	2.5°	677.6	670.0
177.4	177.7	177.4	177.1	176.9	176.7	176.4	176.2	175.7	173.7	5°	581.3	568.2
200.2	200.2	200.2	200.2	200.2	200.2	199.7	199.2	198.3	197.3	7.5°	522.8	519.1
223.9	223.8	223.8	223.8	223.8	223.8	223.6	223.3	222.8	221.8	10°	511.6	517.2
249.3	249.3	249.1	248.8	248.5	248.3	248.1	247.8	247.3	246.3	12.5°	524.7	534.2
272.1	271.8	272.1	272.4	272.6	272.8	272.4	271.8	270.9	269.0	15°	541.8	558.7
295.6	295.5	295.5	295.5	295.5	295.5	294.9	294.5	293.5	292.5	17.5°	555.0	577.6
319.2	319.0	319.0	319.0	319.0	319.0	318.2	317.6	316.0	315.0	20°	556.8	579.5
341.7	341.5	341.5	341.5	341.5	341.5	340.7	340.1	338.6	338.6	22.5°	539.8	555.0
362.4	362.2	362.2	362.2	362.2	362.2	361.7	361.2	360.2	360.2	25°	496.4	503.9
383.3	382.8	382.8	382.8	382.8	382.8	382.6	382.3	381.8	380.8	27.5°	441.7	439.8
404.6	404.3	404.3	404.3	404.3	404.3	403.9	403.4	402.4	402.4	30°	385.0	381.3
425.2	425.0	425.2	425.4	425.8	426.0	425.4	425.0	424.0	423.0	32.5°	364.4	351.1
443.9	443.7	444.1	444.6	445.1	445.6	445.4	445.1	444.6	443.7	35°	332.2	328.4
460.3	460.3	460.8	461.3	461.8	462.3	462.1	461.8	461.3	460.3	37.5°	320.9	352.9
477.0	477.0	477.2	477.4	477.8	478.0	477.8	477.4	477.0	476.0	40°	307.7	347.4
493.9	493.7	493.9	494.2	494.4	494.7	494.4	494.2	493.7	493.7	42.5°	296.4	319.0
507.6	507.5	507.9	508.4	508.9	509.4	509.4	509.4	509.4	509.4	45°	275.6	285.0
520.2	520.2	520.7	521.2	521.6	522.2	522.2	522.2	522.2	522.2	47.5°	266.2	262.3
529.6	530.0	530.4	531.0	531.4	532.0	531.8	531.4	531.0	531.0	50°	258.6	258.6
539.3	539.8	540.6	541.3	541.9	542.8	542.6	542.3	541.8	541.8	52.5°	253.0	249.2
547.9	547.7	548.1	548.7	549.1	549.7	549.7	549.7	549.7	550.6	55°	245.3	241.6
554.1	553.5	553.7	554.1	554.3	554.5	554.7	555.1	555.5	556.5	57.5°	239.7	230.2
556.7	556.5	556.9	557.5	557.9	558.5	558.3	557.9	557.5	558.5	60°	234.1	224.7
558.9	559.5	560.3	560.9	561.6	562.4	562.2	561.9	561.4	561.4	62.5°	230.2	219.0
563.3	563.3	564.1	564.9	565.6	566.3	566.3	566.3	566.3	567.3	65°	224.7	213.3
565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	67.5°	217.1	202.0
										70°	202.0	188.7
										72.5°	186.8	171.8
										75°	164.2	151.1
										77.5°	137.8	122.7
										80°	103.8	94.4
										82.5°	75.5	64.2
										85°	34.0	24.5
										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
										110°	104.0	101.1



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175°	180°
747.5	747.5
666.4	664.5
564.3	560.6
519.1	517.2
519.1	519.1
541.8	541.8
568.2	568.2
587.0	588.9
592.7	594.6
564.3	564.3
509.7	509.7
437.9	445.5
373.8	381.3
332.2	337.9
319.0	320.9
351.1	352.9
345.4	349.2
296.4	298.2
266.2	266.2
254.8	253.0
254.8	251.1
262.3	260.5
251.1	251.1
245.3	245.3
239.7	239.7
237.8	236.0
237.8	234.1
234.1	228.3
220.8	205.7
188.7	175.6
152.9	151.1
118.9	120.8
90.5	90.5
66.0	54.8
18.9	18.9
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
100.1	99.2

CANDELA DISTRIBUTION (continued):

	155°	165°	175°
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>
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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