

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: P228465

Luminaire Tested: **ISS-AF-1000-LED-E1-SLL-ULG**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P228465  
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-1000-LED-E1-SLL-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) 4000K CCT, 70 CRI LEDs and (1) UPLIGHT LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

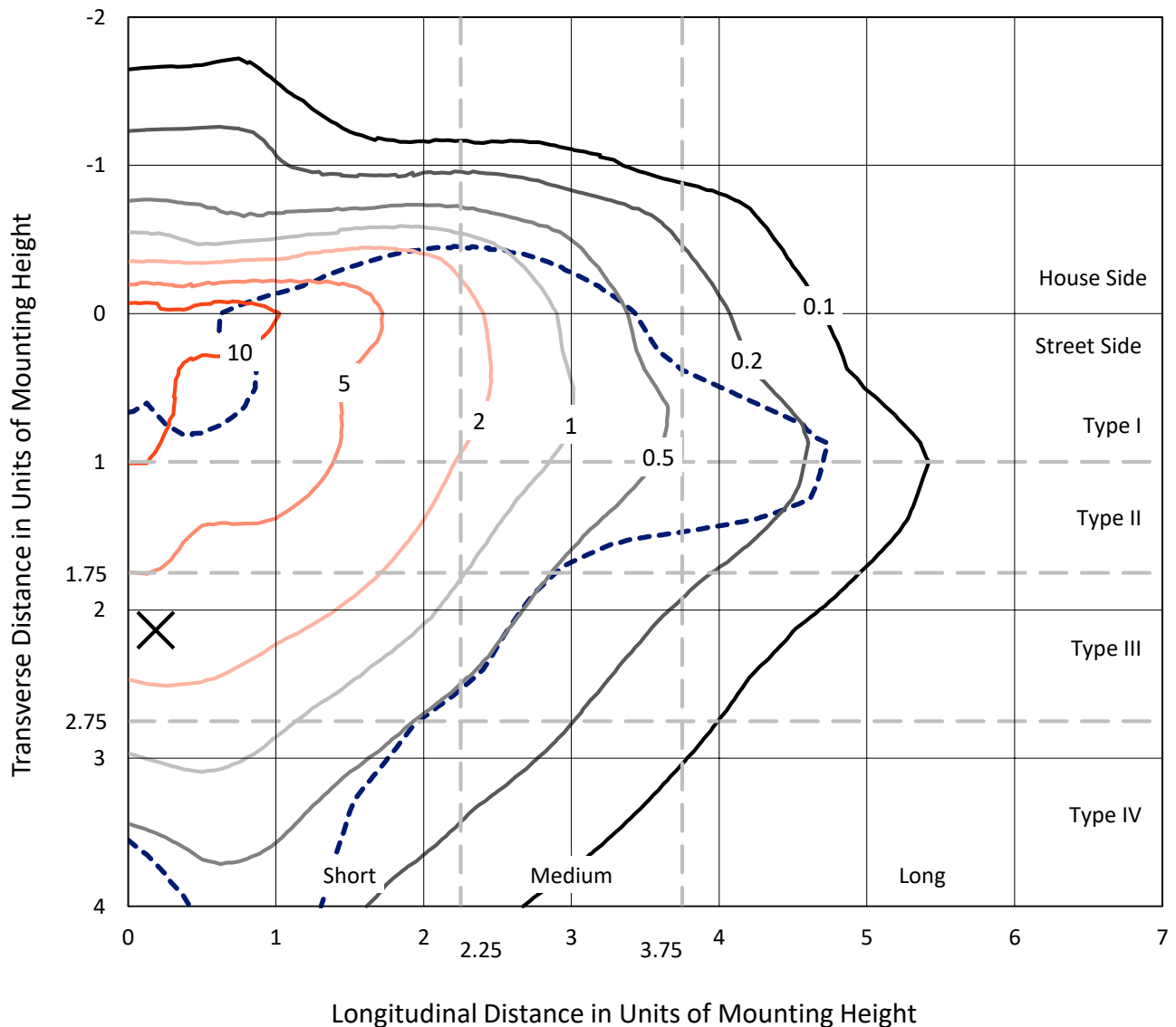
Lumens per Lamp: N/A  
Luminaire Lumens: 6392.6 lumens  
Efficiency: N/A  
Efficacy: 89.7 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 0.54')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B1 - U5 - G2  
  
Input Watts (W): 71.3  
Input Voltage (V): 120  
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

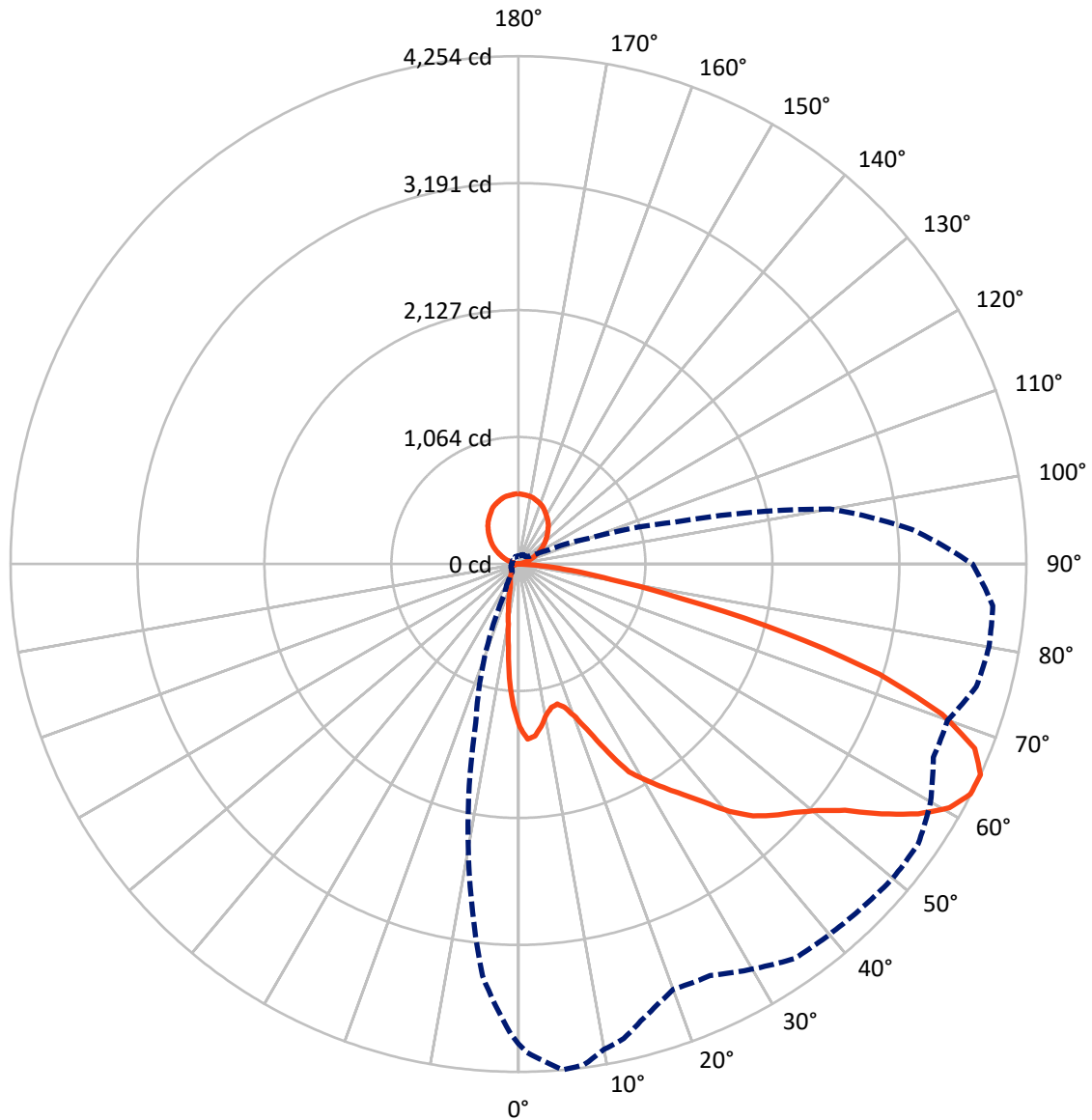
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.5 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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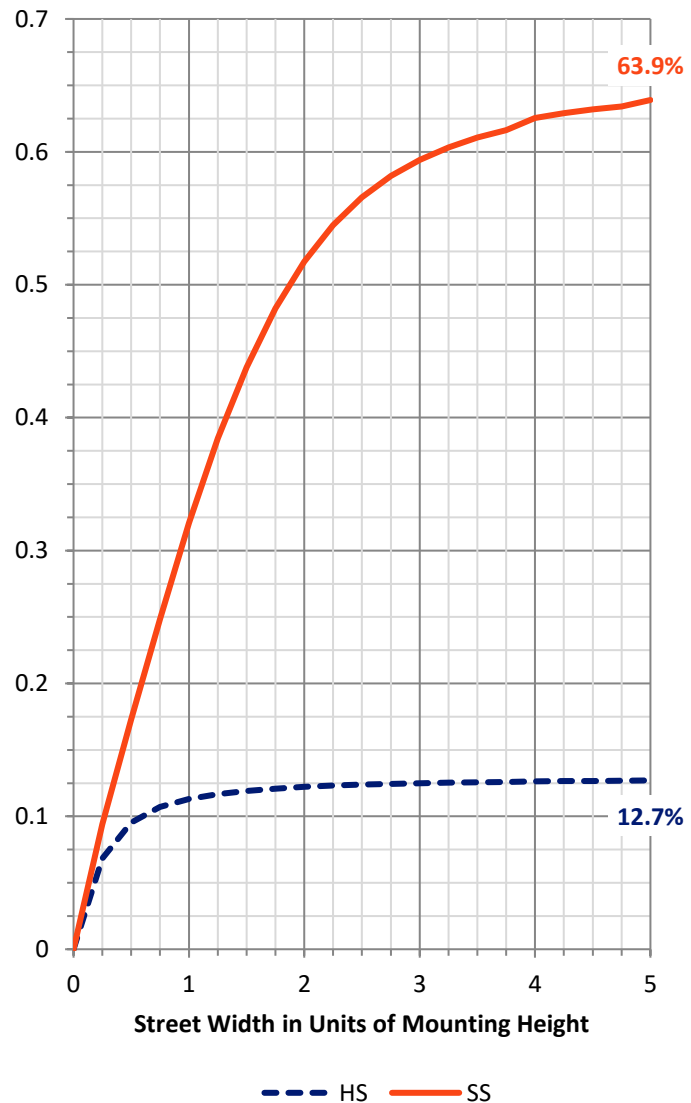
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	820.4	729.4	1549.8
	% Fixture	12.8	11.4	24.2
<b>Street Side</b>	Lumens	4113.3	729.4	4842.8
	% Fixture	64.3	11.4	75.8
<b>Total</b>	Lumens	4933.7	1458.9	6392.6
	% Fixture	77.2	22.8	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	104.8	1.6
10°-20°	216.0	3.4
20°-30°	314.1	4.9
30°-40°	464.5	7.3
40°-50°	676.7	10.6
50°-60°	1014.5	15.9
60°-70°	1264.1	19.8
70°-80°	740.5	11.6
80°-90°	138.5	2.2
90°-100°	4.8	0.1
100°-110°	70.6	1.1
110°-120°	156.6	2.4
120°-130°	229.0	3.6
130°-140°	271.7	4.3
140°-150°	275.5	4.3
150°-160°	236.4	3.7
160°-170°	158.7	2.5
170°-180°	55.6	0.9
0°-90°	4933.7	77.2
0°-180°	6392.6	100.0



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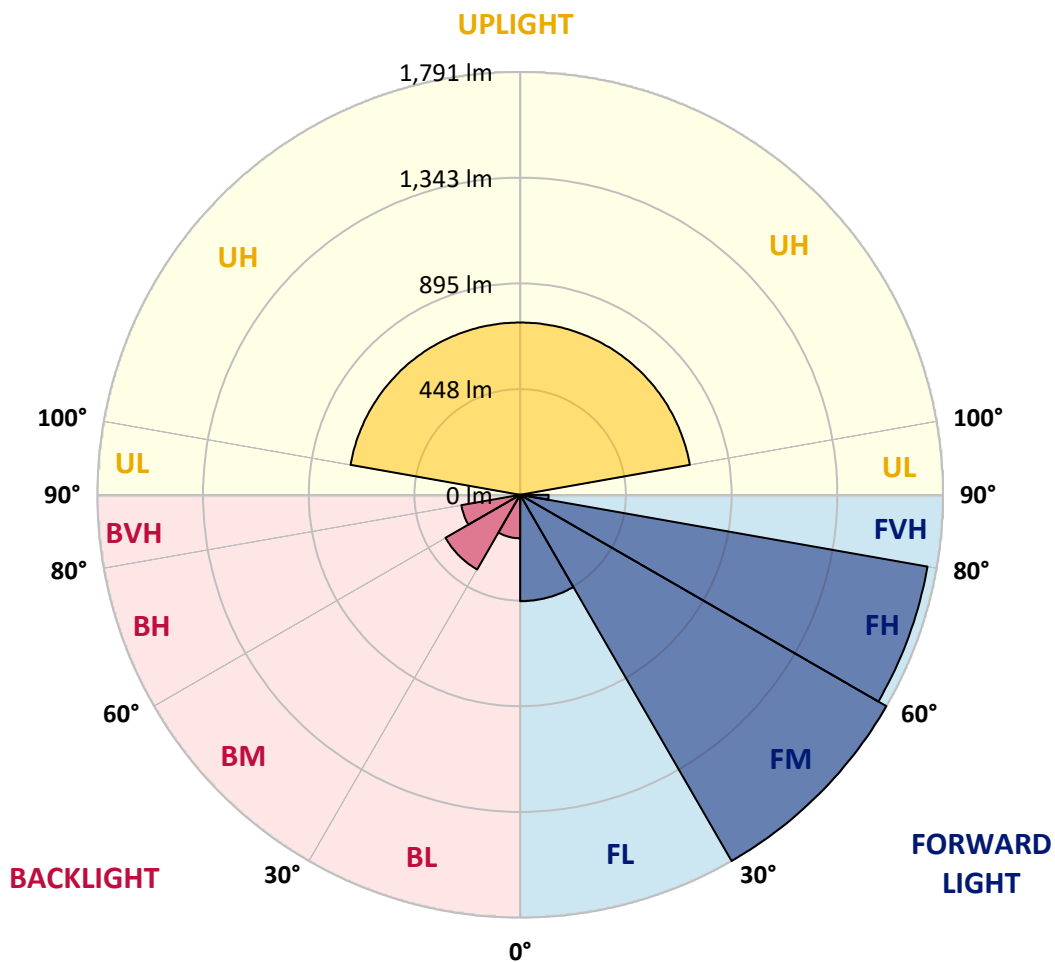
CATALOG NUMBER: ISS-AF-1000-LED-E1-SLL-ULG

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	450.7	7.1			
FM	(30°-60°)	1790.5	28.0			
FH	(60°-80°)	1751.5	27.4			G1/1800
FVH	(80°-90°)	120.6	1.9			G2/225
BL	(0°-30°)	184.2	2.9	B1/500		
BM	(30°-60°)	365.1	5.7	B1/1000		
BH	(60°-80°)	253.2	4.0	B1/500		G1/500
BVH	(80°-90°)	17.8	0.3			G1/100
UL	(90°-100°)	4.8	0.1		U1/10	
UH	(100°-180°)	729.4	11.4		U4/1000	

**BUG Rating: B1-U5-G2**

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°	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3
2.5°	1449.3	1445.4	1468.9	1472.7	1488.4	1488.4	1506.0	1521.6	1527.5	1541.2	1576.3
5°	1402.5	1414.2	1447.4	1480.6	1504.0	1527.5	1552.8	1584.1	1609.5	1652.5	1742.3
7.5°	1298.9	1316.5	1373.2	1406.4	1443.5	1484.5	1515.7	1552.8	1591.9	1664.2	1824.3
10°	1197.4	1211.1	1283.3	1324.3	1377.1	1420.1	1465.0	1506.0	1549.0	1638.8	1824.3
12.5°	1132.9	1150.5	1232.6	1271.6	1332.2	1377.1	1431.7	1480.6	1531.4	1627.1	1806.8
15°	1119.2	1138.7	1216.9	1265.7	1318.5	1361.4	1410.2	1461.1	1511.8	1605.6	1765.8
17.5°	1156.3	1179.8	1263.8	1318.5	1359.5	1408.3	1443.5	1492.3	1525.5	1599.8	1675.9
20°	1244.2	1271.6	1371.2	1423.9	1457.2	1488.4	1515.7	1545.1	1558.8	1576.3	1562.7
22.5°	1384.9	1418.1	1531.4	1591.9	1615.3	1638.8	1640.7	1644.7	1634.9	1588.0	1482.6
25°	1586.1	1619.2	1748.2	1806.8	1806.8	1806.8	1785.3	1769.7	1724.8	1636.8	1461.1
27.5°	1773.6	1816.6	1970.8	2008.0	1996.3	1978.7	1937.7	1898.6	1834.2	1687.7	1459.1
30°	1914.2	1957.2	2099.8	2129.1	2099.8	2056.8	1992.4	1935.7	1859.5	1713.0	1472.7
32.5°	2043.1	2093.9	2230.6	2234.5	2181.9	2133.0	2060.7	1996.3	1916.2	1759.9	1513.8
35°	2179.9	2230.6	2369.4	2341.9	2265.8	2199.4	2125.2	2068.5	1988.4	1820.4	1580.3
37.5°	2369.4	2414.3	2531.5	2467.1	2369.4	2283.4	2203.3	2129.1	2049.0	1902.5	1691.6
40°	2553.0	2617.4	2724.8	2621.3	2502.1	2387.0	2299.0	2220.9	2133.0	2013.9	1834.2
42.5°	2724.8	2785.4	2885.0	2752.1	2613.5	2498.3	2406.5	2322.5	2238.4	2140.8	2006.0
45°	2855.7	2918.2	3002.2	2861.6	2703.4	2584.2	2484.5	2410.4	2336.1	2269.7	2222.9
47.5°	2982.7	3045.2	3109.7	2957.2	2801.0	2679.9	2562.7	2494.4	2435.7	2400.6	2457.2
50°	3146.7	3189.8	3244.4	3080.3	2914.3	2775.6	2658.4	2605.7	2551.0	2562.7	2752.1
52.5°	3369.4	3406.5	3426.1	3265.9	3080.3	2922.2	2793.2	2720.9	2676.0	2744.4	3064.7
55°	3683.9	3736.6	3693.7	3535.4	3301.1	3121.3	2963.2	2877.2	2849.8	2941.7	3377.3
57.5°	3955.4	3978.9	3947.6	3791.4	3551.1	3349.9	3181.9	3092.1	3060.8	3181.9	3662.4
60°	4074.5	4103.9	4146.8	4012.0	3787.4	3588.2	3443.7	3355.8	3303.0	3443.7	3891.0
62.5°	4094.1	4143.0	4248.4	4180.1	4002.3	3853.9	3722.9	3601.8	3560.9	3668.3	4041.4
65°	4017.9	4092.1	4254.2	4228.9	4129.2	4072.6	3963.2	3869.4	3791.4	3803.0	4033.5
67.5°	3846.0	3931.9	4121.5	4109.7	4121.5	4121.5	4025.7	3947.6	3846.0	3701.4	3736.6
70°	3431.9	3545.2	3763.9	3820.6	3920.3	3920.3	3836.3	3717.1	3599.9	3303.0	3123.3
72.5°	2750.2	2826.4	3162.4	3437.8	3564.8	3513.9	3431.9	3232.7	2974.8	2648.6	2404.4
75°	1861.5	1906.4	2318.5	2822.5	3053.0	3010.0	2875.2	2627.1	2361.5	1998.2	1689.6
77.5°	1037.2	1095.8	1404.4	1799.0	2109.5	2103.7	2086.1	1927.9	1716.9	1416.2	1256.0
80°	609.5	628.9	791.0	1078.2	1345.8	1281.3	1236.4	1111.4	1004.0	867.3	990.3
82.5°	373.1	353.5	449.3	656.3	795.0	767.6	691.4	644.6	593.8	556.7	658.3
85°	101.6	91.8	183.6	275.4	337.9	365.3	365.3	361.4	324.3	244.2	293.0
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	2.3	2.6	3.1	4.1
100°	8.2	8.2	8.2	8.7	9.2	9.7	10.2	11.3	12.3	14.3	22.5
102.5°	28.6	28.6	28.6	29.7	30.7	31.7	32.7	34.3	35.8	38.9	46.0
105°	55.2	55.2	55.2	55.8	56.3	56.8	57.3	58.5	59.8	62.4	67.5
107.5°	79.8	79.6	78.8	79.6	80.3	81.0	81.8	82.9	83.9	85.9	90.0
110°	103.3	103.5	104.3	104.5	104.9	105.2	105.4	106.2	106.9	108.4	112.5



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**CANDELA DISTRIBUTION (continued):**

	0°	1°	5°	7.5°	10°	12.5°	15°	17.5°	20°	25°	35°
112.5°	126.8	126.8	126.8	127.4	127.9	128.4	128.9	129.7	130.4	132.0	135.0
115°	149.4	149.6	150.4	150.9	151.4	151.9	152.4	152.9	153.4	154.5	157.5
117.5°	172.9	173.1	173.9	174.4	174.9	175.4	175.9	176.5	177.0	178.0	181.1
120°	197.4	197.8	199.5	199.7	200.0	200.3	200.5	201.0	201.5	202.5	205.6
122.5°	224.0	224.2	225.0	225.3	225.6	225.9	226.1	226.6	227.1	228.1	231.2
125°	249.6	250.0	251.6	251.9	252.2	252.5	252.7	252.9	253.2	253.7	256.8
127.5°	273.1	273.5	275.2	275.4	275.7	276.0	276.2	276.7	277.2	278.2	280.3
130°	296.7	297.1	298.7	298.9	299.2	299.5	299.7	299.9	300.2	300.7	304.8
132.5°	320.2	320.4	321.2	322.0	322.7	323.5	324.3	324.5	324.8	325.3	328.4
135°	343.7	343.9	344.7	345.2	345.8	346.3	346.8	347.3	347.8	348.8	352.9
137.5°	367.2	367.4	368.3	369.1	369.8	370.5	371.3	371.5	371.8	372.4	375.4
140°	390.8	391.0	391.8	392.3	392.8	393.3	393.8	394.0	394.3	394.9	396.9
142.5°	413.3	413.7	415.3	415.8	416.3	416.9	417.4	417.2	416.9	416.3	419.4
145°	434.8	435.0	435.8	436.3	436.8	437.3	437.8	437.8	437.8	437.8	440.9
147.5°	454.2	454.2	454.2	455.0	455.7	456.4	457.3	457.5	457.8	458.3	462.4
150°	471.6	471.8	472.6	473.1	473.6	474.1	474.6	474.9	475.2	475.7	479.8
152.5°	490.0	490.2	491.0	491.8	492.6	493.3	494.1	493.9	493.6	493.1	496.1
155°	510.5	510.7	511.5	512.0	512.5	513.0	513.5	513.3	513.0	512.5	514.5
157.5°	524.8	525.2	526.8	527.3	527.8	528.4	528.9	528.7	528.4	527.8	530.9
160°	537.0	537.5	539.1	539.6	540.1	540.6	541.1	541.1	541.1	541.1	544.2
162.5°	547.3	547.5	548.3	549.1	549.8	550.6	551.4	551.2	550.9	550.3	553.4
165°	558.5	558.7	559.6	560.1	560.6	561.1	561.6	561.4	561.1	560.6	564.7
167.5°	567.7	567.9	568.8	569.6	570.3	571.0	571.8	571.6	571.3	570.8	573.9
170°	574.9	575.1	575.9	576.7	577.5	578.2	579.0	578.8	578.5	578.0	580.0
172.5°	578.0	578.2	579.0	579.8	580.5	581.2	582.1	581.5	581.0	580.0	582.1
175°	580.0	580.4	582.1	582.3	582.6	582.9	583.1	582.9	582.6	582.1	585.1
177.5°	585.1	585.3	586.2	586.7	587.2	587.7	588.2	588.0	587.7	587.2	591.3
180°	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2





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**CANDELA DISTRIBUTION (continued):**

	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
0°	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3
2.5°	1590.0	1591.9	1586.1	1599.8	1584.1	1576.3	1552.8	1552.8	1533.3	1517.8	1500.2
5°	1775.5	1787.3	1777.5	1779.4	1748.2	1716.9	1670.1	1642.8	1593.9	1541.2	1486.4
7.5°	1900.5	1920.1	1912.3	1879.1	1830.3	1763.8	1685.7	1611.5	1531.4	1445.4	1365.3
10°	1933.8	1955.3	1937.7	1875.2	1795.1	1701.3	1607.6	1507.9	1410.2	1318.5	1232.6
12.5°	1886.8	1902.5	1865.4	1797.0	1718.9	1625.2	1527.5	1441.5	1326.3	1228.7	1129.0
15°	1767.8	1757.9	1754.1	1705.3	1650.5	1574.3	1482.6	1394.7	1287.2	1187.6	1082.1
17.5°	1638.8	1627.1	1631.0	1611.5	1603.7	1568.5	1500.2	1425.9	1330.1	1209.1	1095.8
20°	1525.5	1513.8	1519.7	1529.4	1558.8	1560.7	1549.0	1500.2	1429.8	1302.8	1164.1
22.5°	1427.8	1429.8	1449.3	1476.7	1525.5	1588.0	1636.8	1646.6	1597.7	1449.3	1275.5
25°	1398.6	1388.8	1410.2	1455.1	1537.2	1658.3	1767.8	1822.4	1795.1	1646.6	1433.7
27.5°	1388.8	1375.2	1398.6	1457.2	1588.0	1757.9	1914.2	1996.3	2006.0	1853.7	1603.7
30°	1388.8	1382.9	1406.4	1482.6	1621.3	1791.2	1965.0	2088.0	2127.1	2000.2	1752.1
32.5°	1406.4	1410.2	1451.3	1549.0	1691.6	1865.4	2045.1	2178.0	2248.2	2152.5	1871.3
35°	1445.4	1453.2	1511.8	1625.2	1779.4	1955.3	2119.3	2254.1	2367.4	2316.6	1982.6
37.5°	1529.4	1541.2	1613.4	1728.7	1869.3	2027.5	2187.7	2332.2	2496.3	2474.8	2099.8
40°	1677.8	1677.8	1750.2	1849.8	1965.0	2086.1	2244.4	2414.3	2615.5	2644.7	2244.4
42.5°	1865.4	1857.6	1904.4	1976.8	2056.8	2158.4	2300.9	2490.5	2726.8	2791.2	2353.7
45°	2123.2	2084.2	2109.5	2127.1	2166.2	2228.7	2355.7	2562.7	2816.6	2900.7	2435.7
47.5°	2426.0	2371.3	2349.8	2316.6	2303.0	2326.4	2435.7	2619.4	2902.6	2994.4	2568.5
50°	2760.0	2707.2	2650.6	2560.8	2482.6	2459.2	2525.6	2695.6	2994.4	3111.6	2715.1
52.5°	3107.7	3070.6	2996.3	2855.7	2707.2	2623.3	2654.6	2822.5	3140.9	3293.3	2888.9
55°	3426.1	3437.8	3347.9	3183.8	2971.0	2842.1	2879.1	3047.2	3406.5	3586.3	3179.9
57.5°	3767.9	3736.6	3666.4	3496.3	3263.9	3125.2	3140.9	3344.0	3703.4	3840.2	3469.0
60°	3994.5	3994.5	3918.3	3789.4	3568.7	3439.8	3463.2	3650.7	3941.7	3955.4	3597.9
62.5°	4141.0	4162.5	4101.9	4010.1	3795.2	3687.8	3767.9	3900.7	4059.0	3945.6	3533.5
65°	4070.6	4094.1	4088.2	3986.6	3834.3	3826.4	3971.0	4002.3	3988.6	3803.0	3310.8
67.5°	3752.3	3705.4	3703.4	3650.7	3619.4	3781.5	3965.2	3975.0	3744.4	3523.8	2959.2
70°	3146.7	3066.7	3035.4	3051.1	3193.7	3496.3	3758.1	3683.9	3316.7	3127.3	2519.7
72.5°	2426.0	2330.3	2310.7	2371.3	2592.1	3017.8	3375.3	3271.8	2726.8	2506.0	1951.4
75°	1720.8	1679.8	1681.7	1800.9	2039.3	2449.5	2865.5	2855.7	2019.7	1728.7	1343.9
77.5°	1252.1	1259.9	1295.1	1341.9	1547.0	1943.5	2334.2	2308.8	1437.7	1187.6	939.6
80°	1033.3	1045.0	1045.0	1019.6	1072.4	1283.3	1586.1	1693.5	963.0	798.9	656.3
82.5°	742.3	800.9	834.0	793.0	773.5	845.8	994.2	1064.6	599.7	503.9	459.0
85°	353.5	404.4	416.0	406.3	466.9	533.3	568.5	582.1	328.2	234.4	300.8
87.5°	0.0	0.0	1.9	15.7	43.0	74.3	74.3	113.2	17.6	5.8	13.7
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°	9.2	11.3	13.3	10.2	7.2	6.1	5.1	4.6	4.1	4.1	4.1
100°	30.7	31.7	32.7	31.7	30.7	29.2	27.6	27.1	26.6	25.6	26.6
102.5°	51.1	51.7	52.2	51.7	51.1	50.1	49.1	49.6	50.1	49.1	50.1
105°	71.6	72.1	72.6	72.6	72.6	71.6	70.6	71.6	72.6	70.6	72.6
107.5°	93.1	94.1	95.1	94.6	94.1	93.6	93.1	93.6	94.1	93.1	94.1
110°	114.6	115.6	116.6	116.6	116.6	116.1	115.6	116.1	116.6	115.6	116.6



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**CANDELA DISTRIBUTION (continued):**

	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
112.5°	137.1	138.1	139.1	139.1	139.1	138.6	138.1	139.1	140.1	138.1	140.1
115°	159.6	160.6	161.6	161.6	161.6	161.6	161.6	162.6	163.7	162.6	163.7
117.5°	183.1	183.6	184.1	184.6	185.2	184.6	184.1	185.2	186.2	184.1	186.2
120°	206.6	207.7	208.7	208.7	208.7	208.7	208.7	209.7	210.7	208.7	210.7
122.5°	232.2	232.7	233.2	233.2	233.2	233.7	234.3	236.3	238.3	237.3	238.3
125°	257.8	258.3	258.8	259.3	259.8	259.8	259.8	261.4	262.9	261.9	262.9
127.5°	282.3	283.4	284.4	283.9	283.4	283.9	284.4	285.9	287.4	284.4	287.4
130°	305.9	306.9	307.9	307.9	307.9	308.4	308.9	310.5	312.0	310.0	312.0
132.5°	329.4	330.9	332.5	332.5	332.5	333.0	333.5	335.0	336.6	334.5	336.6
135°	352.9	354.5	356.0	356.0	356.0	356.5	357.0	358.0	359.1	358.0	359.1
137.5°	375.4	376.4	377.5	377.5	377.5	378.0	378.5	380.5	382.6	380.5	382.6
140°	397.9	398.4	399.0	399.0	399.0	400.0	401.0	403.0	405.1	403.0	405.1
142.5°	419.4	420.4	421.5	421.5	421.5	422.0	422.5	424.0	425.5	424.5	425.5
145°	441.9	442.9	444.0	443.4	442.9	443.4	444.0	445.5	447.0	445.0	447.0
147.5°	463.4	463.9	464.4	463.4	462.4	462.9	463.4	464.9	466.5	463.4	466.5
150°	480.8	481.3	481.8	480.8	479.8	479.8	479.8	481.8	483.9	480.8	483.9
152.5°	497.2	497.7	498.2	497.7	497.2	497.2	497.2	498.7	500.2	497.2	500.2
155°	514.5	515.1	515.6	515.1	514.5	515.1	515.6	517.1	518.6	516.6	518.6
157.5°	530.9	530.9	530.9	529.9	528.9	529.4	529.9	532.4	535.0	531.9	535.0
160°	544.2	544.2	544.2	543.2	542.2	542.2	542.2	543.7	545.2	543.2	545.2
162.5°	553.4	553.9	554.4	553.4	552.4	551.4	550.3	551.4	552.4	549.3	552.4
165°	564.7	565.2	565.7	564.2	562.6	561.6	560.6	561.6	562.6	560.6	562.6
167.5°	572.9	572.9	572.9	571.8	570.8	571.3	571.8	573.9	575.9	573.9	575.9
170°	579.0	578.5	578.0	577.5	576.9	578.0	579.0	581.5	584.1	582.1	584.1
172.5°	581.0	581.5	582.1	581.0	580.0	580.5	581.0	582.6	584.1	581.0	584.1
175°	585.1	585.6	586.2	584.6	583.1	582.1	581.0	582.6	584.1	581.0	584.1
177.5°	590.2	590.2	590.2	588.7	587.2	587.2	587.2	588.7	590.2	587.2	590.2
180°	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2



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**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	115°	120°	125°	130°	135°	145°	155°	165°
0°	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3
2.5°	1476.7	1451.3	1431.7	1408.3	1388.8	1369.2	1355.6	1326.3	1302.8	1250.1	1236.4
5°	1441.5	1386.8	1349.7	1314.6	1269.7	1238.4	1205.1	1164.1	1119.2	1043.1	1019.6
7.5°	1302.8	1234.5	1183.7	1132.9	1074.3	1021.5	972.7	918.0	839.9	757.9	726.6
10°	1152.5	1080.1	1009.9	949.3	879.0	820.4	777.4	738.4	675.9	613.4	572.3
12.5°	1029.4	947.4	867.3	806.7	769.6	740.3	709.0	677.8	611.4	541.0	492.2
15°	972.7	877.0	806.7	756.0	722.7	687.5	650.5	615.3	537.2	455.1	396.5
17.5°	980.6	871.1	781.3	713.0	668.0	619.2	576.2	531.3	445.4	347.7	294.9
20°	1023.6	877.0	754.0	673.9	609.5	546.9	492.2	435.6	330.1	253.9	216.9
22.5°	1078.2	896.5	738.4	634.8	554.7	476.6	406.3	339.8	244.2	199.3	181.7
25°	1172.0	941.5	734.5	599.7	502.0	408.3	335.9	265.7	197.3	175.8	166.0
27.5°	1289.1	992.3	738.4	574.3	457.1	353.5	273.4	220.8	177.8	166.0	158.3
30°	1406.4	1045.0	720.8	535.2	404.4	302.8	234.4	201.2	175.8	162.1	148.4
32.5°	1509.9	1084.1	691.4	494.2	357.4	257.8	199.3	171.9	154.3	138.7	134.8
35°	1584.1	1101.6	658.3	468.8	326.2	230.5	175.8	154.3	136.8	121.1	113.2
37.5°	1654.4	1103.6	623.1	445.4	314.5	218.8	162.1	142.6	126.9	113.2	105.5
40°	1726.7	1095.8	603.5	421.9	296.9	212.9	156.3	132.8	123.1	107.4	99.6
42.5°	1779.4	1082.1	595.8	408.3	281.3	197.3	152.3	130.8	117.2	105.5	95.7
45°	1828.3	1068.5	595.8	396.5	269.5	187.5	144.5	132.8	113.2	103.5	91.8
47.5°	1886.8	1074.3	597.7	386.8	259.8	177.8	136.8	128.9	115.3	101.6	89.8
50°	1986.5	1140.7	607.4	380.8	252.0	169.9	130.8	123.1	126.9	99.6	87.9
52.5°	2158.4	1246.2	623.1	377.0	244.2	164.1	123.1	119.2	128.9	99.6	85.9
55°	2383.0	1353.7	638.7	367.2	232.4	152.3	119.2	111.3	119.2	99.6	84.0
57.5°	2601.8	1433.7	652.4	353.5	212.9	140.7	113.2	105.5	109.4	97.7	80.1
60°	2728.7	1496.2	666.0	330.1	189.5	126.9	107.4	99.6	97.7	97.7	78.2
62.5°	2763.9	1472.7	658.3	300.8	169.9	117.2	101.6	93.8	87.9	99.6	78.2
65°	2652.6	1349.7	628.9	275.4	156.3	113.2	95.7	89.8	84.0	85.9	74.3
67.5°	2310.7	1134.9	548.9	252.0	154.3	111.3	91.8	85.9	78.2	76.2	70.3
70°	1884.9	890.7	455.1	234.4	152.3	111.3	87.9	80.1	74.3	68.3	64.4
72.5°	1449.3	666.0	382.9	226.6	154.3	109.4	82.0	72.3	66.4	62.5	58.6
75°	1019.6	470.8	318.3	203.2	144.5	103.5	76.2	64.4	58.6	54.7	50.7
77.5°	738.4	320.4	236.3	164.1	123.1	89.8	66.4	54.7	48.8	46.9	43.0
80°	470.8	197.3	158.3	121.1	89.8	70.3	50.7	43.0	39.1	35.2	33.2
82.5°	271.5	115.3	95.7	82.0	58.6	46.9	37.1	33.2	25.4	23.4	21.5
85°	166.0	72.3	52.8	43.0	37.1	29.3	21.5	19.5	13.7	11.8	9.7
87.5°	37.1	15.7	13.7	9.7	11.8	9.7	5.8	3.9	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°	4.6	5.1	6.1	7.2	10.2	13.3	11.3	9.2	4.1	3.1	2.0
100°	27.1	27.6	29.2	30.7	31.7	32.7	31.7	30.7	22.5	14.3	10.2
102.5°	49.6	49.1	50.1	51.1	51.7	52.2	51.7	51.1	46.0	38.9	32.7
105°	71.6	70.6	71.6	72.6	72.6	72.6	72.1	71.6	67.5	62.4	57.3
107.5°	93.6	93.1	93.6	94.1	94.6	95.1	94.1	93.1	90.0	85.9	81.8
110°	116.1	115.6	116.1	116.6	116.6	116.6	115.6	114.6	112.5	108.4	105.4



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REPORT N  
 CATALOG

**CANDELA DISTRIBUTION (continued):**

**CANDELA**

	100°	105°	110°	115°	120°	125°	130°	135°	145°	155°	165°	
112.5°	139.1	138.1	138.6	139.1	139.1	139.1	138.1	137.1	135.0	132.0	128.9	0°
115°	162.6	161.6	161.6	161.6	161.6	161.6	160.6	159.6	157.5	154.5	152.4	2.5°
117.5°	185.2	184.1	184.6	185.2	184.6	184.1	183.6	183.1	181.1	178.0	175.9	5°
120°	209.7	208.7	208.7	208.7	208.7	208.7	207.7	206.6	205.6	202.5	200.5	7.5°
122.5°	236.3	234.3	233.7	233.2	233.2	233.2	232.7	232.2	231.2	228.1	226.1	10°
125°	261.4	259.8	259.8	259.8	259.3	258.8	258.3	257.8	256.8	253.7	252.7	12.5°
127.5°	285.9	284.4	283.9	283.4	283.9	284.4	283.4	282.3	280.3	278.2	276.2	15°
130°	310.5	308.9	308.4	307.9	307.9	307.9	306.9	305.9	304.8	300.7	299.7	17.5°
132.5°	335.0	333.5	333.0	332.5	332.5	332.5	330.9	329.4	328.4	325.3	324.3	20°
135°	358.0	357.0	356.5	356.0	356.0	356.0	354.5	352.9	352.9	348.8	346.8	22.5°
137.5°	380.5	378.5	378.0	377.5	377.5	377.5	376.4	375.4	375.4	372.4	371.3	25°
140°	403.0	401.0	400.0	399.0	399.0	399.0	398.4	397.9	396.9	394.9	393.8	27.5°
142.5°	424.0	422.5	422.0	421.5	421.5	421.5	420.4	419.4	419.4	416.3	417.4	30°
145°	445.5	444.0	443.4	442.9	443.4	444.0	442.9	441.9	440.9	437.8	437.8	32.5°
147.5°	464.9	463.4	462.9	462.4	463.4	464.4	463.9	463.4	462.4	458.3	457.3	35°
150°	481.8	479.8	479.8	479.8	480.8	481.8	481.3	480.8	479.8	475.7	474.6	37.5°
152.5°	498.7	497.2	497.2	497.2	497.7	498.2	497.7	497.2	496.1	493.1	494.1	40°
155°	517.1	515.6	515.1	514.5	515.1	515.6	515.1	514.5	514.5	512.5	513.5	42.5°
157.5°	532.4	529.9	529.4	528.9	529.9	530.9	530.9	530.9	530.9	527.8	528.9	45°
160°	543.7	542.2	542.2	542.2	543.2	544.2	544.2	544.2	544.2	541.1	541.1	47.5°
162.5°	551.4	550.3	551.4	552.4	553.4	554.4	553.9	553.4	553.4	550.3	551.4	50°
165°	561.6	560.6	561.6	562.6	564.2	565.7	565.2	564.7	564.7	560.6	561.6	52.5°
167.5°	573.9	571.8	571.3	570.8	571.8	572.9	572.9	572.9	573.9	570.8	571.8	55°
170°	581.5	579.0	578.0	576.9	577.5	578.0	578.5	579.0	580.0	578.0	579.0	57.5°
172.5°	582.6	581.0	580.5	580.0	581.0	582.1	581.5	581.0	582.1	580.0	582.1	60°
175°	582.6	581.0	582.1	583.1	584.6	586.2	585.6	585.1	585.1	582.1	583.1	62.5°
177.5°	588.7	587.2	587.2	587.2	588.7	590.2	590.2	590.2	591.3	587.2	588.2	65°
180°	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	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°	
1365.3	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3	112.5°	126.8
1215.0	1185.6	1187.6	1181.7	1166.1	1140.7	1132.9	1119.2	1121.2	1129.0	1121.2	115°	150.4
992.3	957.1	961.1	959.0	943.5	925.9	912.2	894.6	888.7	894.6	884.9	117.5°	173.9
703.2	679.8	687.5	705.1	703.2	693.5	681.7	662.2	658.3	660.2	642.6	120°	199.5
537.2	513.7	507.9	506.0	502.0	496.1	480.5	464.9	459.0	460.9	449.3	122.5°	225.0
449.3	429.7	406.3	384.8	365.3	357.4	337.9	328.2	326.2	326.2	320.4	125°	251.6
355.5	339.8	326.2	304.7	289.1	277.3	263.7	255.8	253.9	255.8	255.8	127.5°	275.2
265.7	257.8	252.0	250.0	242.2	234.4	226.6	222.7	220.8	220.8	222.7	130°	298.7
203.2	201.2	201.2	201.2	210.9	218.8	220.8	214.8	212.9	210.9	209.0	132.5°	321.2
175.8	173.8	175.8	187.5	181.7	175.8	175.8	175.8	175.8	175.8	177.8	135°	344.7
162.1	164.1	166.0	160.2	154.3	150.4	148.4	148.4	146.5	146.5	148.4	137.5°	368.3
154.3	152.3	150.4	146.5	142.6	136.8	134.8	132.8	132.8	132.8	132.8	140°	391.8
144.5	142.6	140.7	136.8	130.8	123.1	121.1	121.1	119.2	121.1	121.1	142.5°	415.3
132.8	130.8	128.9	125.0	119.2	115.3	113.2	109.4	109.4	109.4	111.3	145°	435.8
107.4	105.5	105.5	107.4	107.4	105.5	105.5	101.6	101.6	101.6	101.6	147.5°	454.2
99.6	97.7	97.7	95.7	97.7	99.6	97.7	95.7	95.7	93.8	93.8	150°	472.6
93.8	93.8	91.8	89.8	89.8	93.8	91.8	89.8	87.9	87.9	87.9	152.5°	491.0
89.8	87.9	87.9	85.9	85.9	85.9	84.0	82.0	80.1	80.1	80.1	155°	511.5
85.9	85.9	84.0	82.0	80.1	80.1	76.2	74.3	74.3	74.3	76.2	157.5°	526.8
84.0	82.0	82.0	80.1	78.2	74.3	72.3	70.3	70.3	70.3	70.3	160°	539.1
82.0	80.1	78.2	78.2	74.3	72.3	70.3	68.3	68.3	68.3	68.3	162.5°	548.3
80.1	78.2	76.2	74.3	72.3	70.3	68.3	66.4	66.4	66.4	66.4	165°	559.6
76.2	74.3	74.3	72.3	72.3	70.3	68.3	66.4	66.4	66.4	64.4	167.5°	568.8
74.3	72.3	70.3	70.3	70.3	68.3	66.4	64.4	64.4	64.4	64.4	170°	575.9
72.3	70.3	70.3	68.3	68.3	66.4	66.4	64.4	62.5	62.5	60.6	172.5°	579.0
70.3	68.3	68.3	66.4	68.3	66.4	64.4	62.5	60.6	60.6	58.6	175°	582.1
68.3	66.4	66.4	66.4	64.4	64.4	62.5	58.6	58.6	58.6	56.7	177.5°	586.2
64.4	62.5	62.5	64.4	62.5	60.6	60.6	56.7	56.7	54.7	54.7	180°	589.2
58.6	58.6	58.6	60.6	58.6	56.7	56.7	54.7	52.8	50.7	50.7		
54.7	52.8	54.7	54.7	54.7	52.8	54.7	50.7	48.8	46.9	46.9		
46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	44.9	43.0	41.0		
37.1	39.1	39.1	39.1	39.1	41.0	39.1	39.1	39.1	37.1	35.2		
27.3	27.3	29.3	31.3	29.3	31.3	29.3	31.3	29.3	29.3	29.3		
15.7	15.7	17.6	19.5	19.5	21.5	17.6	19.5	19.5	21.5	19.5		
5.8	5.8	5.8	5.8	7.8	7.8	5.8	7.8	7.8	9.7	9.7		
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	3.1	4.1	9.2	11.3	12.3	13.3	11.8		
8.2	8.2	8.2	10.2	14.3	22.5	30.7	31.7	32.2	32.7	32.2		
28.6	28.6	28.6	32.7	38.9	46.0	51.1	51.7	52.0	52.2	52.0		
55.2	55.2	55.2	57.3	62.4	67.5	71.6	72.1	72.4	72.6	72.6		
78.8	79.8	78.8	81.8	85.9	90.0	93.1	94.1	94.6	95.1	94.9		
104.3	103.3	104.3	105.4	108.4	112.5	114.6	115.6	116.1	116.6	116.6		

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REPORT NUMBER: P228465  
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**TION (continued):**

**CANDELA DISTRIBUTION (con**

180°	185°	195°	205°	215°	225°	230°	232.5°	235°	237.5°		240°	242.5°
126.8	126.8	128.9	132.0	135.0	137.1	138.1	138.6	139.1	139.1	0°	1365.3	1365.3
149.4	150.4	152.4	154.5	157.5	159.6	160.6	161.1	161.6	161.6	2.5°	1136.8	1136.8
172.9	173.9	175.9	178.0	181.1	183.1	183.6	183.9	184.1	184.3	5°	892.6	890.7
197.4	199.5	200.5	202.5	205.6	206.6	207.7	208.2	208.7	208.7	7.5°	648.4	642.6
224.0	225.0	226.1	228.1	231.2	232.2	232.7	233.0	233.2	233.2	10°	453.2	437.5
249.6	251.6	252.7	253.7	256.8	257.8	258.3	258.6	258.8	259.0	12.5°	328.2	322.3
273.1	275.2	276.2	278.2	280.3	282.3	283.4	283.9	284.4	284.2	15°	259.8	259.8
296.7	298.7	299.7	300.7	304.8	305.9	306.9	307.4	307.9	307.9	17.5°	224.6	224.6
320.2	321.2	324.3	325.3	328.4	329.4	330.9	331.6	332.5	332.5	20°	207.0	205.1
343.7	344.7	346.8	348.8	352.9	352.9	354.5	355.2	356.0	356.0	22.5°	177.8	175.8
367.2	368.3	371.3	372.4	375.4	375.4	376.4	377.0	377.5	377.5	25°	146.5	146.5
390.8	391.8	393.8	394.9	396.9	397.9	398.4	398.7	399.0	399.0	27.5°	132.8	132.8
413.3	415.3	417.4	416.3	419.4	419.4	420.4	420.9	421.5	421.5	30°	121.1	123.1
434.8	435.8	437.8	437.8	440.9	441.9	442.9	443.4	444.0	443.8	32.5°	111.3	111.3
454.2	454.2	457.3	458.3	462.4	463.4	463.9	464.2	464.4	463.9	35°	99.6	99.6
471.6	472.6	474.6	475.7	479.8	480.8	481.3	481.6	481.8	481.3	37.5°	91.8	89.8
490.0	491.0	494.1	493.1	496.1	497.2	497.7	498.0	498.2	498.0	40°	84.0	84.0
510.5	511.5	513.5	512.5	514.5	514.5	515.1	515.4	515.6	515.4	42.5°	78.2	78.2
524.8	526.8	528.9	527.8	530.9	530.9	530.9	530.9	530.9	530.4	45°	74.3	74.3
537.0	539.1	541.1	541.1	544.2	544.2	544.2	544.2	544.2	543.7	47.5°	72.3	72.3
547.3	548.3	551.4	550.3	553.4	553.4	553.9	554.2	554.4	553.9	50°	68.3	68.3
558.5	559.6	561.6	560.6	564.7	564.7	565.2	565.5	565.7	564.9	52.5°	66.4	66.4
567.7	568.8	571.8	570.8	573.9	572.9	572.9	572.9	572.9	572.3	55°	64.4	66.4
574.9	575.9	579.0	578.0	580.0	579.0	578.5	578.2	578.0	577.8	57.5°	62.5	62.5
578.0	579.0	582.1	580.0	582.1	581.0	581.5	581.9	582.1	581.5	60°	60.6	60.6
580.0	582.1	583.1	582.1	585.1	585.1	585.6	585.9	586.2	585.3	62.5°	58.6	58.6
585.1	586.2	588.2	587.2	591.3	590.2	590.2	590.2	590.2	589.4	65°	56.7	56.7
589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	67.5°	52.8	52.8
										70°	48.8	48.8
										72.5°	44.9	44.9
										75°	41.0	39.1
										77.5°	35.2	33.2
										80°	29.3	27.3
										82.5°	21.5	19.5
										85°	9.7	9.7
										87.5°	0.0	0.0
										90°	0.0	0.0
										92.5°	0.0	0.0
										95°	1.0	1.0
										97.5°	10.2	8.7
										100°	31.7	31.2
										102.5°	51.7	51.4
										105°	72.6	72.6
										107.5°	94.6	94.3
										110°	116.6	116.6

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**tinued):**

**CANDELA DISTRIBUTION (continued):**

245°	247.5°	250°	252.5°	255°	257.5°	260°	265°	270°		240°	242.5°	245°
1365.3	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3	112.5°	139.1	139.1	139.1
1113.4	1117.3	1121.2	1129.0	1125.1	1123.1	1121.2	1132.9	1138.7	115°	161.6	161.6	161.6
861.4	859.5	865.3	867.3	861.4	851.6	845.8	847.7	853.6	117.5°	184.6	184.9	185.2
615.3	611.4	609.5	611.4	605.5	595.8	587.9	589.9	595.8	120°	208.7	208.7	208.7
433.6	435.6	439.5	443.3	443.3	443.3	445.4	457.1	470.8	122.5°	233.2	233.2	233.2
326.2	330.1	337.9	343.8	349.6	351.6	353.5	369.2	380.8	125°	259.3	259.6	259.8
263.7	265.7	269.5	273.4	277.3	277.3	279.4	285.2	294.9	127.5°	283.9	283.6	283.4
224.6	224.6	224.6	222.7	220.8	216.9	214.8	212.9	214.8	130°	307.9	307.9	307.9
201.2	199.3	195.3	191.4	189.5	183.6	181.7	175.8	173.8	132.5°	332.5	332.5	332.5
175.8	175.8	175.8	173.8	171.9	169.9	166.0	160.2	156.3	135°	356.0	356.0	356.0
146.5	148.4	148.4	150.4	154.3	154.3	154.3	154.3	148.4	137.5°	377.5	377.5	377.5
132.8	132.8	134.8	134.8	136.8	136.8	136.8	138.7	140.7	140°	399.0	399.0	399.0
123.1	125.0	125.0	126.9	126.9	128.9	128.9	130.8	130.8	142.5°	421.5	421.5	421.5
113.2	115.3	115.3	115.3	119.2	119.2	117.2	119.2	119.2	145°	443.4	443.1	442.9
99.6	99.6	99.6	99.6	99.6	99.6	95.7	93.8	95.7	147.5°	463.4	462.9	462.4
89.8	87.9	85.9	85.9	85.9	87.9	85.9	87.9	87.9	150°	480.8	480.3	479.8
82.0	82.0	82.0	82.0	82.0	82.0	82.0	84.0	85.9	152.5°	497.7	497.4	497.2
78.2	78.2	78.2	78.2	78.2	78.2	78.2	80.1	80.1	155°	515.1	514.7	514.5
74.3	74.3	76.2	76.2	76.2	76.2	76.2	76.2	78.2	157.5°	529.9	529.4	528.9
72.3	72.3	72.3	72.3	72.3	72.3	72.3	74.3	76.2	160°	543.2	542.7	542.2
70.3	70.3	70.3	70.3	70.3	70.3	70.3	72.3	74.3	162.5°	553.4	552.9	552.4
66.4	68.3	68.3	68.3	68.3	68.3	68.3	68.3	70.3	165°	564.2	563.4	562.6
66.4	66.4	66.4	66.4	64.4	64.4	64.4	64.4	66.4	167.5°	571.8	571.3	570.8
64.4	64.4	64.4	62.5	62.5	60.6	60.6	60.6	64.4	170°	577.5	577.1	576.9
60.6	60.6	60.6	58.6	58.6	58.6	58.6	60.6	60.6	172.5°	581.0	580.5	580.0
56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	175°	584.6	583.9	583.1
54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	177.5°	588.7	588.0	587.2
52.8	50.7	50.7	50.7	50.7	52.8	50.7	50.7	50.7	180°	589.2	589.2	589.2
48.8	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9				
44.9	44.9	43.0	43.0	43.0	43.0	43.0	43.0	43.0				
39.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1				
33.2	33.2	31.3	31.3	31.3	31.3	31.3	31.3	31.3				
27.3	25.4	25.4	25.4	25.4	25.4	25.4	23.4	23.4				
19.5	19.5	19.5	17.6	17.6	17.6	17.6	15.7	13.7				
7.8	9.7	9.7	11.8	9.7	9.7	9.7	7.8	3.9				
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	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				
7.2	6.6	6.1	5.6	5.1	4.9	4.6	4.1	4.1				
30.7	29.9	29.2	28.4	27.6	27.4	27.1	26.6	25.6				
51.1	50.6	50.1	49.6	49.1	49.3	49.6	50.1	49.1				
72.6	72.1	71.6	71.1	70.6	71.1	71.6	72.6	70.6				
94.1	93.9	93.6	93.3	93.1	93.3	93.6	94.1	93.1				
116.6	116.4	116.1	115.8	115.6	115.8	116.1	116.6	115.6				



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**CANDELA DISTRIBUTION (continued):**

247.5°	250°	252.5°	255°	257.5°	260°	265°	270°		275°	280°	282.5°	285°
138.9	138.6	138.3	138.1	138.6	139.1	140.1	138.1	0°	1365.3	1365.3	1365.3	1365.3
161.6	161.6	161.6	161.6	162.1	162.6	163.7	162.6	2.5°	1134.9	1154.4	1156.3	1144.6
184.9	184.6	184.3	184.1	184.6	185.2	186.2	184.1	5°	845.8	871.1	869.2	853.6
208.7	208.7	208.7	208.7	209.2	209.7	210.7	208.7	7.5°	597.7	619.2	617.2	615.3
233.4	233.7	234.1	234.3	235.3	236.3	238.3	237.3	10°	484.4	503.9	509.8	523.4
259.8	259.8	259.8	259.8	260.6	261.4	262.9	261.9	12.5°	392.6	416.0	421.9	437.5
283.6	283.9	284.2	284.4	285.2	285.9	287.4	284.4	15°	302.8	322.3	328.2	339.8
308.1	308.4	308.7	308.9	309.7	310.5	312.0	310.0	17.5°	222.7	234.4	238.3	246.1
332.7	333.0	333.3	333.5	334.3	335.0	336.6	334.5	20°	173.8	177.8	179.7	181.7
356.2	356.5	356.8	357.0	357.5	358.0	359.1	358.0	22.5°	156.3	158.3	158.3	160.2
377.7	378.0	378.3	378.5	379.5	380.5	382.6	380.5	25°	144.5	146.5	146.5	148.4
399.5	400.0	400.5	401.0	402.0	403.0	405.1	403.0	27.5°	138.7	138.7	138.7	138.7
421.7	422.0	422.3	422.5	423.3	424.0	425.5	424.5	30°	132.8	132.8	132.8	134.8
443.1	443.4	443.8	444.0	444.8	445.5	447.0	445.0	32.5°	123.1	119.2	123.1	121.1
462.6	462.9	463.2	463.4	464.2	464.9	466.5	463.4	35°	95.7	95.7	97.7	99.6
479.8	479.8	479.8	479.8	480.8	481.8	483.9	480.8	37.5°	89.8	91.8	91.8	93.8
497.2	497.2	497.2	497.2	498.0	498.7	500.2	497.2	40°	85.9	87.9	89.8	91.8
514.7	515.1	515.4	515.6	516.4	517.1	518.6	516.6	42.5°	82.0	85.9	85.9	87.9
529.1	529.4	529.7	529.9	531.1	532.4	535.0	531.9	45°	80.1	82.0	84.0	85.9
542.2	542.2	542.2	542.2	543.0	543.7	545.2	543.2	47.5°	78.2	80.1	82.0	84.0
551.9	551.4	550.9	550.3	550.9	551.4	552.4	549.3	50°	74.3	78.2	80.1	82.0
562.1	561.6	561.1	560.6	561.1	561.6	562.6	560.6	52.5°	72.3	76.2	76.2	80.1
571.0	571.3	571.6	571.8	572.9	573.9	575.9	573.9	55°	68.3	72.3	72.3	76.2
577.5	578.0	578.5	579.0	580.2	581.5	584.1	582.1	57.5°	64.4	68.3	70.3	72.3
580.2	580.5	580.8	581.0	581.9	582.6	584.1	581.0	60°	62.5	64.4	66.4	68.3
582.6	582.1	581.5	581.0	581.9	582.6	584.1	581.0	62.5°	58.6	62.5	64.4	66.4
587.2	587.2	587.2	587.2	588.0	588.7	590.2	587.2	65°	56.7	60.6	60.6	64.4
589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	67.5°	52.8	56.7	56.7	58.6
								70°	48.8	50.7	52.8	54.7
								72.5°	44.9	46.9	46.9	48.8
								75°	37.1	39.1	41.0	43.0
								77.5°	31.3	31.3	35.2	35.2
								80°	23.4	23.4	25.4	27.3
								82.5°	13.7	13.7	15.7	15.7
								85°	3.9	3.9	3.9	3.9
								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°	4.1	4.6	4.9	5.1
								100°	26.6	27.1	27.4	27.6
								102.5°	50.1	49.6	49.3	49.1
								105°	72.6	71.6	71.1	70.6
								107.5°	94.1	93.6	93.3	93.1
								110°	116.6	116.1	115.8	115.6





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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°
1365.3	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3	112.5°	140.1	139.1	138.6	138.1	138.3
1168.1	1172.0	1166.1	1166.1	1170.1	1185.6	1185.6	115°	163.7	162.6	162.1	161.6	161.6
884.9	894.6	888.7	890.7	898.6	916.1	925.9	117.5°	186.2	185.2	184.6	184.1	184.3
634.8	642.6	646.5	652.4	675.9	677.8	689.5	120°	210.7	209.7	209.2	208.7	208.7
529.4	541.0	548.9	558.6	578.2	587.9	601.6	122.5°	238.3	236.3	235.3	234.3	234.1
445.4	459.0	466.9	486.4	498.1	509.8	527.4	125°	262.9	261.4	260.6	259.8	259.8
347.7	363.4	371.1	382.9	406.3	418.0	441.4	127.5°	287.4	285.9	285.2	284.4	284.2
252.0	257.8	273.4	293.0	306.7	326.2	337.9	130°	312.0	310.5	309.7	308.9	308.7
185.6	189.5	197.3	210.9	218.8	234.4	246.1	132.5°	336.6	335.0	334.3	333.5	333.3
160.2	162.1	166.0	169.9	173.8	179.7	185.6	135°	359.1	358.0	357.5	357.0	356.8
148.4	150.4	152.3	154.3	158.3	160.2	162.1	137.5°	382.6	380.5	379.5	378.5	378.3
140.7	140.7	142.6	146.5	146.5	150.4	152.3	140°	405.1	403.0	402.0	401.0	400.5
136.8	140.7	144.5	150.4	152.3	156.3	158.3	142.5°	425.5	424.0	423.3	422.5	422.3
117.2	117.2	119.2	123.1	123.1	125.0	126.9	145°	447.0	445.5	444.8	444.0	443.8
99.6	101.6	103.5	105.5	107.4	111.3	113.2	147.5°	466.5	464.9	464.2	463.4	463.2
95.7	95.7	97.7	101.6	103.5	105.5	107.4	150°	483.9	481.8	480.8	479.8	479.8
91.8	93.8	95.7	97.7	99.6	103.5	105.5	152.5°	500.2	498.7	498.0	497.2	497.2
89.8	91.8	93.8	95.7	99.6	101.6	103.5	155°	518.6	517.1	516.4	515.6	515.4
87.9	89.8	91.8	95.7	97.7	101.6	103.5	157.5°	535.0	532.4	531.1	529.9	529.7
85.9	87.9	89.8	93.8	97.7	101.6	105.5	160°	545.2	543.7	543.0	542.2	542.2
84.0	85.9	89.8	93.8	97.7	103.5	113.2	162.5°	552.4	551.4	550.9	550.3	550.9
82.0	85.9	89.8	93.8	99.6	107.4	117.2	165°	562.6	561.6	561.1	560.6	561.1
80.1	84.0	85.9	91.8	97.7	105.5	107.4	167.5°	575.9	573.9	572.9	571.8	571.6
76.2	80.1	82.0	87.9	95.7	97.7	95.7	170°	584.1	581.5	580.2	579.0	578.5
72.3	74.3	80.1	91.8	99.6	91.8	82.0	172.5°	584.1	582.6	581.9	581.0	580.8
70.3	72.3	76.2	84.0	85.9	76.2	74.3	175°	584.1	582.6	581.9	581.0	581.5
66.4	66.4	68.3	68.3	68.3	68.3	68.3	177.5°	590.2	588.7	588.0	587.2	587.2
60.6	60.6	62.5	62.5	62.5	62.5	62.5	180°	589.2	589.2	589.2	589.2	589.2
54.7	54.7	56.7	56.7	56.7	58.6	58.6						
48.8	50.7	50.7	52.8	52.8	52.8	54.7						
43.0	44.9	44.9	44.9	44.9	46.9	46.9						
37.1	37.1	39.1	39.1	39.1	39.1	39.1						
29.3	29.3	29.3	29.3	29.3	29.3	29.3						
17.6	17.6	19.5	17.6	17.6	15.7	15.7						
3.9	3.9	3.9	1.9	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						
5.6	6.1	6.6	7.2	8.7	10.2	11.8						
28.4	29.2	29.9	30.7	31.2	31.7	32.2						
49.6	50.1	50.6	51.1	51.4	51.7	52.0						
71.1	71.6	72.1	72.6	72.6	72.6	72.6						
93.3	93.6	93.9	94.1	94.3	94.6	94.9						
115.8	116.1	116.4	116.6	116.6	116.6	116.6						



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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°
138.6	138.9	139.1	139.1	139.1	139.1	0°	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3
161.6	161.6	161.6	161.6	161.6	161.6	2.5°	1215.0	1215.0	1218.8	1234.5	1238.4	1248.1
184.6	184.9	185.2	184.9	184.6	184.3	5°	961.1	968.8	980.6	1000.0	1011.8	1033.3
208.7	208.7	208.7	208.7	208.7	208.7	7.5°	716.9	728.5	738.4	759.8	777.4	798.9
233.7	233.4	233.2	233.2	233.2	233.2	10°	621.1	631.0	644.6	658.3	675.9	685.6
259.8	259.8	259.8	259.6	259.3	259.0	12.5°	552.8	566.4	580.1	599.7	617.2	634.8
283.9	283.6	283.4	283.6	283.9	284.2	15°	468.8	484.4	500.0	521.5	546.9	564.5
308.4	308.1	307.9	307.9	307.9	307.9	17.5°	363.4	380.8	402.3	431.7	459.0	480.5
333.0	332.7	332.5	332.5	332.5	332.5	20°	267.6	283.3	302.8	328.2	347.7	384.8
356.5	356.2	356.0	356.0	356.0	356.0	22.5°	197.3	207.0	222.7	242.2	263.7	296.9
378.0	377.7	377.5	377.5	377.5	377.5	25°	166.0	169.9	175.8	187.5	201.2	224.6
400.0	399.5	399.0	399.0	399.0	399.0	27.5°	154.3	156.3	160.2	166.0	173.8	185.6
422.0	421.7	421.5	421.5	421.5	421.5	30°	162.1	162.1	162.1	164.1	168.0	173.8
443.4	443.1	442.9	443.1	443.4	443.8	32.5°	130.8	132.8	132.8	136.8	138.7	146.5
462.9	462.6	462.4	462.9	463.4	463.9	35°	117.2	119.2	121.1	123.1	126.9	128.9
479.8	479.8	479.8	480.3	480.8	481.3	37.5°	111.3	113.2	115.3	115.3	117.2	121.1
497.2	497.2	497.2	497.4	497.7	498.0	40°	109.4	109.4	109.4	109.4	113.2	117.2
515.1	514.7	514.5	514.7	515.1	515.4	42.5°	105.5	105.5	105.5	107.4	113.2	121.1
529.4	529.1	528.9	529.4	529.9	530.4	45°	105.5	105.5	107.4	115.3	117.2	117.2
542.2	542.2	542.2	542.7	543.2	543.7	47.5°	109.4	113.2	115.3	113.2	111.3	111.3
551.4	551.9	552.4	552.9	553.4	553.9	50°	119.2	117.2	109.4	107.4	107.4	103.5
561.6	562.1	562.6	563.4	564.2	564.9	52.5°	117.2	109.4	107.4	103.5	99.6	97.7
571.3	571.0	570.8	571.3	571.8	572.3	55°	105.5	103.5	97.7	93.8	91.8	93.8
578.0	577.5	576.9	577.1	577.5	577.8	57.5°	91.8	89.8	85.9	85.9	87.9	89.8
580.5	580.2	580.0	580.5	581.0	581.5	60°	80.1	80.1	80.1	82.0	84.0	85.9
582.1	582.6	583.1	583.9	584.6	585.3	62.5°	72.3	74.3	74.3	78.2	80.1	82.0
587.2	587.2	587.2	588.0	588.7	589.4	65°	68.3	70.3	72.3	72.3	74.3	76.2
589.2	589.2	589.2	589.2	589.2	589.2	67.5°	64.4	64.4	66.4	68.3	70.3	72.3
						70°	58.6	60.6	62.5	64.4	64.4	66.4
						72.5°	54.7	54.7	56.7	58.6	58.6	62.5
						75°	46.9	48.8	48.8	48.8	50.7	54.7
						77.5°	41.0	39.1	41.0	41.0	43.0	44.9
						80°	29.3	27.3	27.3	29.3	29.3	29.3
						82.5°	15.7	13.7	15.7	13.7	13.7	15.7
						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°	13.3	12.3	11.3	10.2	9.2	8.0
						100°	32.7	32.2	31.7	31.2	30.7	28.6
						102.5°	52.2	52.0	51.7	51.4	51.1	49.9
						105°	72.6	72.4	72.1	71.8	71.6	70.6
						107.5°	95.1	94.6	94.1	93.6	93.1	92.3
						110°	116.6	116.1	115.6	115.1	114.6	114.1

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**CANDELA DISTRIBUTION (continued):**

320°	322.5°	325°	335°	345°		305°	307.5°	310°	312.5°	315°	317.5°	320°
1365.3	1365.3	1365.3	1365.3	1365.3	112.5°	139.1	138.6	138.1	137.6	137.1	136.6	136.1
1246.2	1263.8	1271.6	1318.5	1367.3	115°	161.6	161.1	160.6	160.1	159.6	159.1	158.6
1029.4	1064.6	1070.4	1156.3	1240.3	117.5°	184.1	183.9	183.6	183.3	183.1	182.6	182.1
804.8	845.8	857.5	970.8	1088.0	120°	208.7	208.2	207.7	207.1	206.6	206.4	206.1
701.2	720.8	734.5	818.5	953.2	122.5°	233.2	233.0	232.7	232.4	232.2	232.0	231.7
650.5	669.9	687.5	756.0	861.4	125°	258.8	258.6	258.3	258.0	257.8	257.6	257.3
582.1	603.5	625.0	709.0	832.1	127.5°	284.4	283.9	283.4	282.8	282.3	281.8	281.3
498.1	527.4	554.7	656.3	818.5	130°	307.9	307.4	306.9	306.4	305.9	305.7	305.4
404.4	439.5	472.7	599.7	798.9	132.5°	332.5	331.6	330.9	330.2	329.4	329.2	328.9
318.3	349.6	386.8	546.9	798.9	135°	356.0	355.2	354.5	353.7	352.9	352.9	352.9
246.1	277.3	314.5	500.0	820.4	137.5°	377.5	377.0	376.4	375.9	375.4	375.4	375.4
201.2	226.6	263.7	462.9	851.6	140°	399.0	398.7	398.4	398.1	397.9	397.7	397.4
181.7	197.3	220.8	408.3	873.1	142.5°	421.5	420.9	420.4	419.9	419.4	419.4	419.4
154.3	166.0	187.5	375.0	886.8	145°	444.0	443.4	442.9	442.4	441.9	441.7	441.4
136.8	150.4	171.9	353.5	884.9	147.5°	464.4	464.2	463.9	463.6	463.4	463.2	462.9
126.9	140.7	166.0	345.8	884.9	150°	481.8	481.6	481.3	481.0	480.8	480.6	480.3
126.9	140.7	162.1	337.9	890.7	152.5°	498.2	498.0	497.7	497.4	497.2	496.9	496.6
125.0	132.8	150.4	334.0	900.5	155°	515.6	515.4	515.1	514.7	514.5	514.5	514.5
119.2	125.0	142.6	334.0	920.0	157.5°	530.9	530.9	530.9	530.9	530.9	530.9	530.9
111.3	119.2	136.8	339.8	957.1	160°	544.2	544.2	544.2	544.2	544.2	544.2	544.2
105.5	113.2	134.8	339.8	1033.3	162.5°	554.4	554.2	553.9	553.6	553.4	553.4	553.4
99.6	111.3	132.8	335.9	1142.6	165°	565.7	565.5	565.2	564.9	564.7	564.7	564.7
97.7	107.4	128.9	332.0	1277.5	167.5°	572.9	572.9	572.9	572.9	572.9	573.1	573.4
95.7	103.5	119.2	322.3	1384.9	170°	578.0	578.2	578.5	578.8	579.0	579.2	579.5
91.8	97.7	109.4	304.7	1457.2	172.5°	582.1	581.9	581.5	581.2	581.0	581.2	581.5
85.9	91.8	99.6	285.2	1472.7	175°	586.2	585.9	585.6	585.3	585.1	585.1	585.1
82.0	87.9	99.6	269.5	1377.1	177.5°	590.2	590.2	590.2	590.2	590.2	590.4	590.8
76.2	85.9	101.6	255.8	1168.1	180°	589.2	589.2	589.2	589.2	589.2	589.2	589.2
72.3	85.9	103.5	250.0	927.8								
68.3	84.0	105.5	240.3	699.3								
62.5	76.2	91.8	199.3	472.7								
50.7	58.6	68.3	126.9	250.0								
33.2	35.2	39.1	78.2	138.7								
15.7	19.5	19.5	37.1	62.5								
0.0	0.0	0.0	3.9	13.7								
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								
6.6	5.3	4.1	3.1	2.0								
26.6	24.6	22.5	14.3	10.2								
48.6	47.3	46.0	38.9	32.7								
69.6	68.5	67.5	62.4	57.3								
91.6	90.8	90.0	85.9	81.8								
113.5	113.0	112.5	108.4	105.4								

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**CANDELA DISTRIBUTION (continued):**

322.5°	325°	335°	345°		355°	359°	360°
135.5	135.0	132.0	128.9	0°	1365.3	1365.3	1365.3
158.0	157.5	154.5	152.4	2.5°	1414.2	1437.7	1449.3
181.6	181.1	178.0	175.9	5°	1338.0	1386.8	1402.5
205.8	205.6	202.5	200.5	7.5°	1222.7	1277.5	1298.9
231.4	231.2	228.1	226.1	10°	1107.5	1175.9	1197.4
257.0	256.8	253.7	252.7	12.5°	1039.1	1121.2	1132.9
280.8	280.3	278.2	276.2	15°	1011.8	1095.8	1119.2
305.0	304.8	300.7	299.7	17.5°	1039.1	1132.9	1156.3
328.6	328.4	325.3	324.3	20°	1091.9	1207.1	1244.2
352.9	352.9	348.8	346.8	22.5°	1181.7	1338.0	1384.9
375.4	375.4	372.4	371.3	25°	1328.2	1545.1	1586.1
397.1	396.9	394.9	393.8	27.5°	1484.5	1709.1	1773.6
419.4	419.4	416.3	417.4	30°	1621.3	1861.5	1914.2
441.1	440.9	437.8	437.8	32.5°	1718.9	1982.6	2043.1
462.6	462.4	458.3	457.3	35°	1834.2	2121.3	2179.9
480.0	479.8	475.7	474.6	37.5°	1966.9	2289.3	2369.4
496.3	496.1	493.1	494.1	40°	2113.4	2463.1	2553.0
514.5	514.5	512.5	513.5	42.5°	2246.3	2625.2	2724.8
530.9	530.9	527.8	528.9	45°	2349.8	2777.6	2855.7
544.2	544.2	541.1	541.1	47.5°	2469.0	2894.7	2982.7
553.4	553.4	550.3	551.4	50°	2633.1	3043.2	3146.7
564.7	564.7	560.6	561.6	52.5°	2873.3	3295.2	3369.4
573.7	573.9	570.8	571.8	55°	3164.3	3599.9	3683.9
579.8	580.0	578.0	579.0	57.5°	3431.9	3883.1	3955.4
581.9	582.1	580.0	582.1	60°	3603.9	4014.0	4074.5
585.1	585.1	582.1	583.1	62.5°	3605.8	4017.9	4094.1
591.1	591.3	587.2	588.2	65°	3463.2	3931.9	4017.9
589.2	589.2	589.2	589.2	67.5°	3101.8	3713.2	3846.0
				70°	2619.4	3283.5	3431.9
				72.5°	2043.1	2580.3	2750.2
				75°	1384.9	1713.0	1861.5
				77.5°	881.0	988.4	1037.2
				80°	519.6	584.0	609.5
				82.5°	322.3	347.7	373.1
				85°	130.8	93.8	101.6
				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°	8.2	8.2	8.2
				102.5°	28.6	28.6	28.6
				105°	55.2	55.2	55.2
				107.5°	78.8	79.6	79.8
				110°	104.3	103.5	103.3

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**CANDELA DISTRIBUTION (continued):**

	355°	359°	360°
112.5°	126.8	126.8	126.8
115°	150.4	149.6	149.4
117.5°	173.9	173.1	172.9
120°	199.5	197.8	197.4
122.5°	225.0	224.2	224.0
125°	251.6	250.0	249.6
127.5°	275.2	273.5	273.1
130°	298.7	297.1	296.7
132.5°	321.2	320.4	320.2
135°	344.7	343.9	343.7
137.5°	368.3	367.4	367.2
140°	391.8	391.0	390.8
142.5°	415.3	413.7	413.3
145°	435.8	435.0	434.8
147.5°	454.2	454.2	454.2
150°	472.6	471.8	471.6
152.5°	491.0	490.2	490.0
155°	511.5	510.7	510.5
157.5°	526.8	525.2	524.8
160°	539.1	537.5	537.0
162.5°	548.3	547.5	547.3
165°	559.6	558.7	558.5
167.5°	568.8	567.9	567.7
170°	575.9	575.1	574.9
172.5°	579.0	578.2	578.0
175°	582.1	580.4	580.0
177.5°	586.2	585.3	585.1
180°	589.2	589.2	589.2

(END OF REPORT)