

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: P228463

Luminaire Tested: **ISS-AF-1200-LED-E1-SLL-7050-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P228463
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-1200-LED-E1-SLL-7050-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) 5000K CCT, 70 CRI LEDs and (1) UPLIGHT LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6914.2 lumens
Efficiency: N/A
Efficacy: 83.6 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): 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

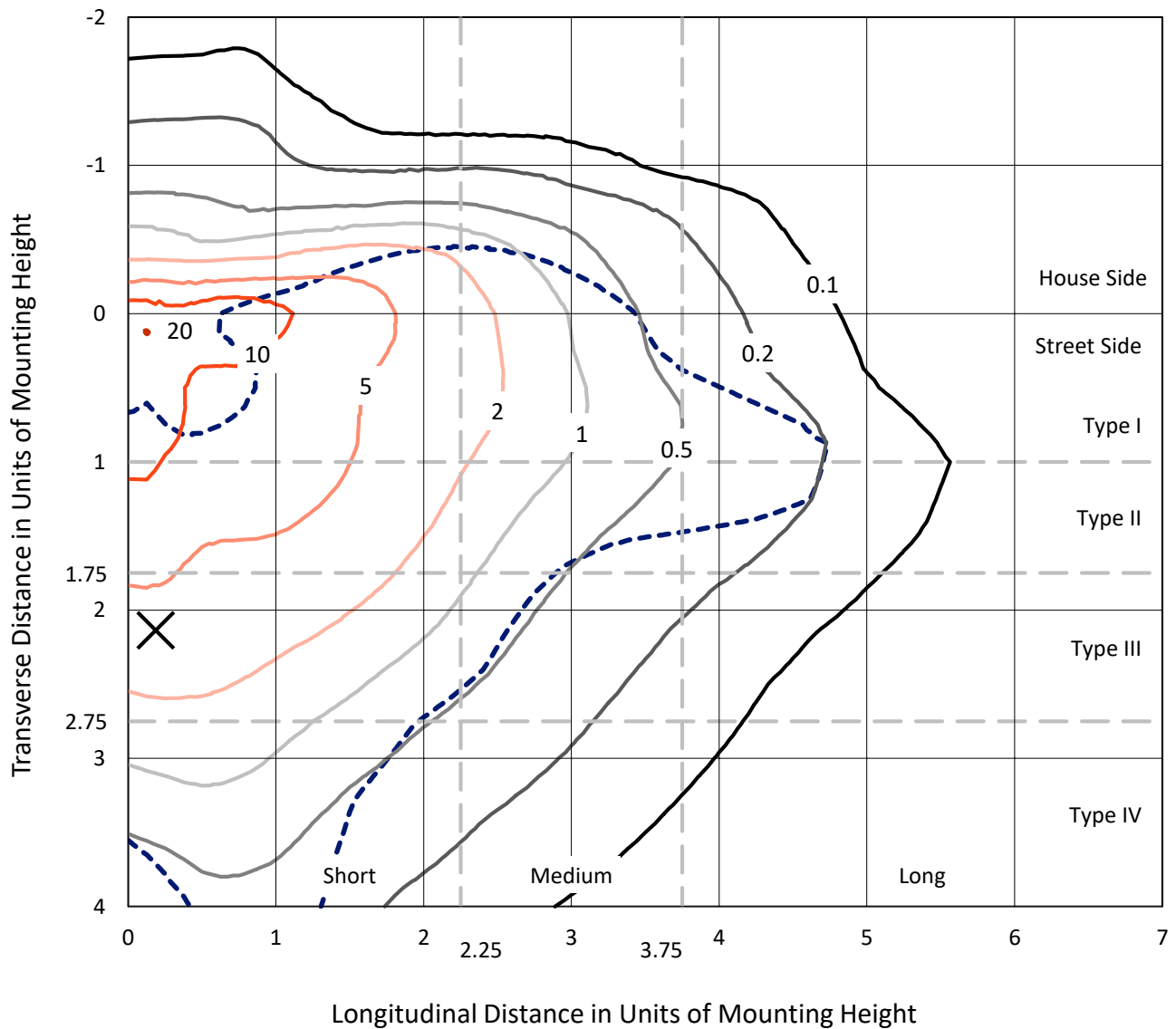


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Iso-Footcandle Lines of Horizontal Illumination

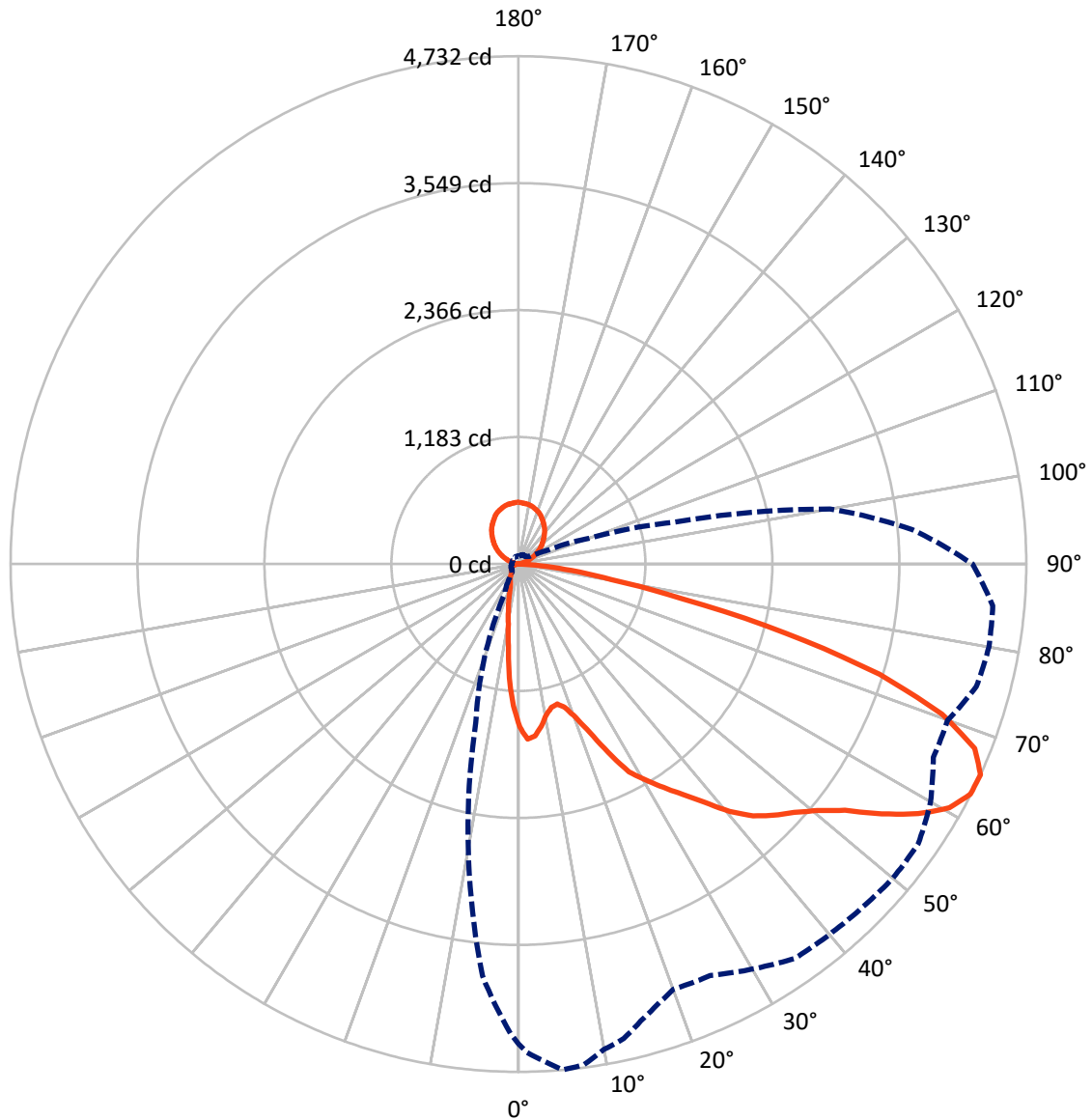
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 20.5 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 5-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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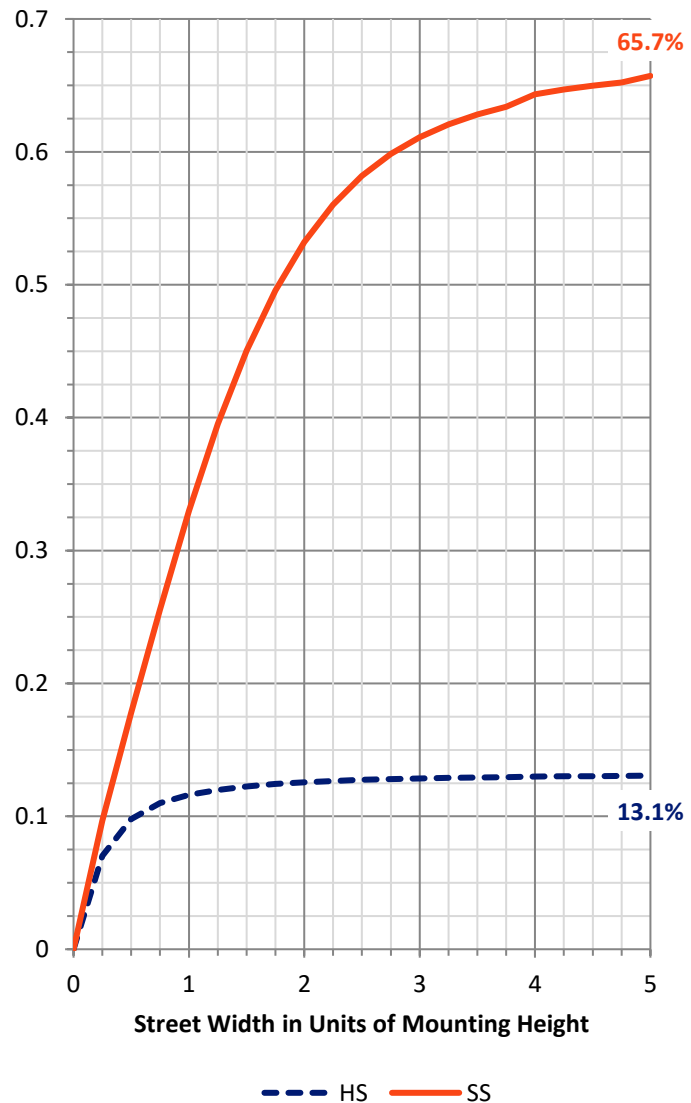
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	912.5	713.1	1625.6
	% Fixture	13.2	10.3	23.5
Street Side	Lumens	4575.5	713.1	5288.5
	% Fixture	66.2	10.3	76.5
Total	Lumens	5488.0	1426.2	6914.2
	% Fixture	79.4	20.6	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.6	1.7
10°-20°	240.3	3.5
20°-30°	349.3	5.1
30°-40°	516.6	7.5
40°-50°	752.8	10.9
50°-60°	1128.4	16.3
60°-70°	1406.2	20.3
70°-80°	823.7	11.9
80°-90°	154.0	2.2
90°-100°	4.7	0.1
100°-110°	69.0	1.0
110°-120°	153.0	2.2
120°-130°	223.9	3.2
130°-140°	265.6	3.8
140°-150°	269.3	3.9
150°-160°	231.1	3.3
160°-170°	155.1	2.2
170°-180°	54.3	0.8
0°-90°	5488.0	79.4
0°-180°	6914.2	100.0



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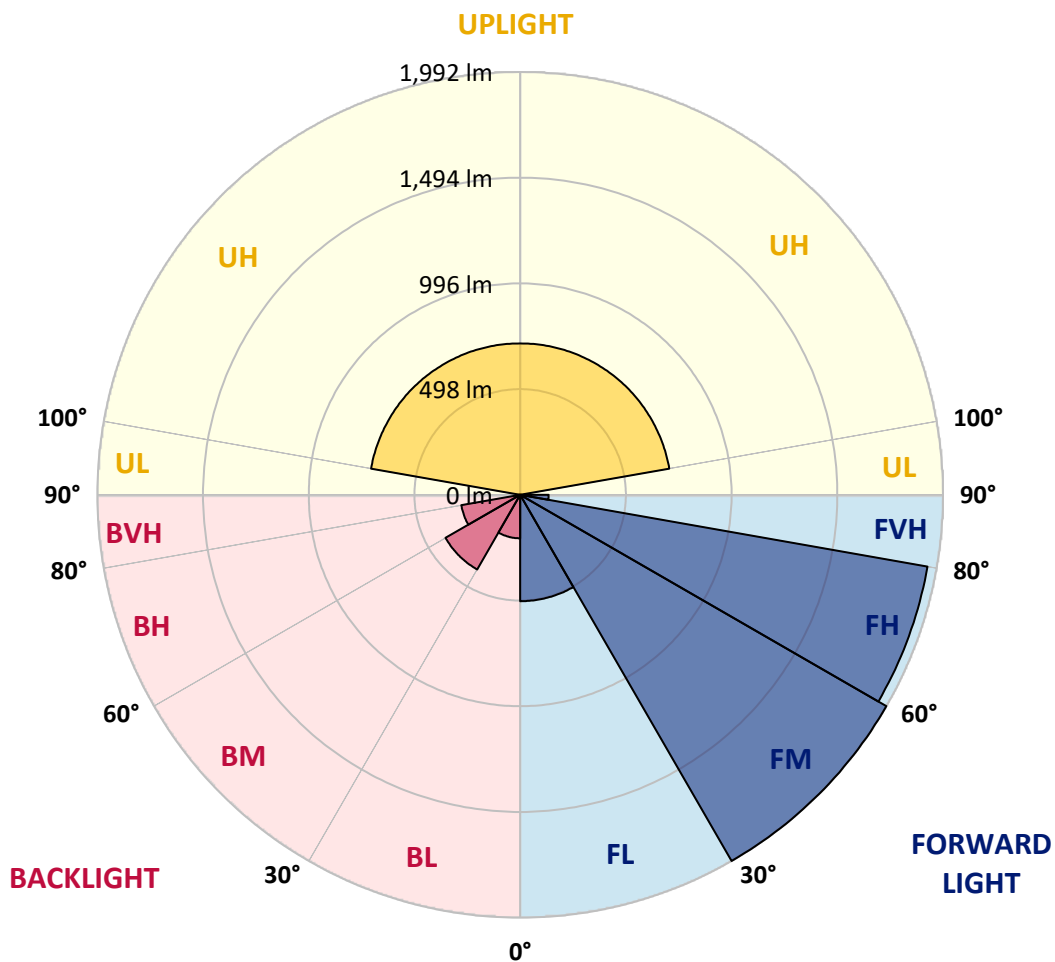
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	501.3	7.3			
FM	(30°-60°)	1991.7	28.8			
FH	(60°-80°)	1948.2	28.2			G2/5000
FVH	(80°-90°)	134.2	1.9			G2/225
BL	(0°-30°)	204.9	3.0	B1/500		
BM	(30°-60°)	406.1	5.9	B1/1000		
BH	(60°-80°)	281.7	4.1	B1/500		G1/500
BVH	(80°-90°)	19.8	0.3			G1/100
UL	(90°-100°)	4.7	0.1		U1/10	
UH	(100°-180°)	713.1	10.3		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°	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7
2.5°	1612.2	1607.8	1633.9	1638.2	1655.6	1655.6	1675.2	1692.6	1699.1	1714.3	1753.4
5°	1560.0	1573.1	1610.0	1646.9	1673.0	1699.1	1727.3	1762.1	1790.3	1838.1	1938.1
7.5°	1444.9	1464.4	1527.4	1564.4	1605.7	1651.3	1686.0	1727.3	1770.8	1851.2	2029.3
10°	1331.9	1347.1	1427.5	1473.1	1531.8	1579.6	1629.6	1675.2	1723.0	1822.9	2029.3
12.5°	1260.2	1279.7	1371.0	1414.5	1481.8	1531.8	1592.6	1646.9	1703.4	1809.9	2009.8
15°	1245.0	1266.7	1353.6	1407.9	1466.6	1514.4	1568.7	1625.2	1681.7	1786.0	1964.2
17.5°	1286.3	1312.3	1405.8	1466.6	1512.2	1566.5	1605.7	1660.0	1696.9	1779.5	1864.2
20°	1384.0	1414.5	1525.3	1583.9	1620.9	1655.6	1686.0	1718.6	1733.8	1753.4	1738.2
22.5°	1540.5	1577.4	1703.4	1770.8	1796.9	1822.9	1825.1	1829.4	1818.6	1766.4	1649.1
25°	1764.3	1801.2	1944.6	2009.8	2009.8	2009.8	1985.9	1968.5	1918.5	1820.8	1625.2
27.5°	1972.8	2020.6	2192.3	2233.6	2220.5	2201.0	2155.4	2111.9	2040.2	1877.2	1623.0
30°	2129.3	2177.1	2335.7	2368.3	2335.7	2287.9	2216.2	2153.2	2068.5	1905.5	1638.2
32.5°	2272.7	2329.2	2481.3	2485.6	2427.0	2372.6	2292.2	2220.5	2131.5	1957.6	1683.9
35°	2424.8	2481.3	2635.5	2605.1	2520.4	2446.5	2363.9	2300.9	2211.9	2025.0	1757.7
37.5°	2635.5	2685.5	2815.9	2744.2	2635.5	2539.9	2450.9	2368.3	2279.2	2116.3	1881.6
40°	2839.8	2911.5	3031.0	2915.8	2783.3	2655.1	2557.3	2470.4	2372.6	2240.1	2040.2
42.5°	3031.0	3098.3	3209.1	3061.4	2907.1	2778.9	2676.8	2583.4	2490.0	2381.3	2231.4
45°	3176.5	3246.1	3339.5	3183.1	3007.1	2874.5	2763.7	2681.2	2598.6	2524.7	2472.6
47.5°	3317.8	3387.3	3459.0	3289.5	3115.7	2981.0	2850.6	2774.6	2709.4	2670.3	2733.3
50°	3500.3	3548.1	3608.9	3426.4	3241.7	3087.5	2957.1	2898.4	2837.6	2850.6	3061.4
52.5°	3748.0	3789.3	3811.0	3632.8	3426.4	3250.4	3107.0	3026.6	2976.7	3052.7	3409.0
55°	4097.8	4156.5	4108.7	3932.7	3671.9	3472.0	3296.0	3200.4	3170.0	3272.1	3756.7
57.5°	4399.8	4425.9	4391.1	4217.3	3950.0	3726.3	3539.4	3439.5	3404.7	3539.4	4073.9
60°	4532.3	4564.9	4612.7	4462.8	4212.9	3991.3	3830.5	3732.8	3674.1	3830.5	4328.1
62.5°	4554.1	4608.4	4725.7	4649.7	4451.9	4286.8	4141.2	4006.5	3960.9	4080.4	4495.4
65°	4469.3	4551.9	4732.2	4704.0	4593.2	4530.2	4408.5	4304.2	4217.3	4230.3	4486.7
67.5°	4278.1	4373.7	4584.5	4571.4	4584.5	4584.5	4478.0	4391.1	4278.1	4117.3	4156.5
70°	3817.5	3943.5	4186.9	4249.9	4360.7	4360.7	4267.3	4134.7	4004.4	3674.1	3474.2
72.5°	3059.2	3144.0	3517.7	3824.0	3965.3	3908.8	3817.5	3595.9	3309.1	2946.2	2674.6
75°	2070.6	2120.6	2579.0	3139.6	3396.0	3348.2	3198.3	2922.3	2626.8	2222.7	1879.4
77.5°	1153.7	1218.9	1562.2	2001.1	2346.6	2340.0	2320.5	2144.5	1909.8	1575.2	1397.1
80°	677.9	699.6	880.0	1199.4	1497.0	1425.3	1375.3	1236.3	1116.8	964.7	1101.6
82.5°	415.0	393.3	499.7	730.0	884.3	853.9	769.2	717.0	660.5	619.2	732.2
85°	113.0	102.1	204.2	306.4	375.9	406.3	406.3	402.0	360.7	271.6	325.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
97.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.2	2.5	3.0	4.0
100°	8.0	8.0	8.0	8.5	9.0	9.5	10.0	11.0	12.0	14.0	22.0
102.5°	28.0	28.0	28.0	29.0	30.0	31.0	32.0	33.5	35.0	38.0	45.0
105°	54.0	54.0	54.0	54.5	55.0	55.5	56.0	57.2	58.5	61.0	66.0
107.5°	78.0	77.8	77.0	77.8	78.5	79.2	80.0	81.0	82.0	84.0	88.0
110°	101.0	101.2	102.0	102.2	102.5	102.8	103.0	103.8	104.5	106.0	110.0



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CANDELA DISTRIBUTION (continued):

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



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CANDELA DISTRIBUTION (continued):

	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
0°	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7
2.5°	1768.6	1770.8	1764.3	1779.5	1762.1	1753.4	1727.3	1727.3	1705.6	1688.2	1668.7
5°	1975.0	1988.1	1977.2	1979.4	1944.6	1909.8	1857.7	1827.3	1773.0	1714.3	1653.5
7.5°	2114.1	2135.8	2127.1	2090.2	2035.9	1962.0	1875.1	1792.5	1703.4	1607.8	1518.7
10°	2151.0	2174.9	2155.4	2085.8	1996.7	1892.5	1788.2	1677.4	1568.7	1466.6	1371.0
12.5°	2098.9	2116.3	2075.0	1998.9	1912.0	1807.7	1699.1	1603.5	1475.3	1366.7	1255.8
15°	1966.3	1955.5	1951.1	1896.8	1836.0	1751.2	1649.1	1551.3	1431.8	1321.0	1203.7
17.5°	1822.9	1809.9	1814.2	1792.5	1783.8	1744.7	1668.7	1586.1	1479.6	1344.9	1218.9
20°	1696.9	1683.9	1690.4	1701.3	1733.8	1736.0	1723.0	1668.7	1590.4	1449.2	1295.0
22.5°	1588.3	1590.4	1612.2	1642.6	1696.9	1766.4	1820.8	1831.6	1777.3	1612.2	1418.8
25°	1555.7	1544.8	1568.7	1618.7	1709.9	1844.7	1966.3	2027.2	1996.7	1831.6	1594.8
27.5°	1544.8	1529.6	1555.7	1620.9	1766.4	1955.5	2129.3	2220.5	2231.4	2061.9	1783.8
30°	1544.8	1538.3	1564.4	1649.1	1803.4	1992.4	2185.8	2322.7	2366.1	2224.9	1948.9
32.5°	1564.4	1568.7	1614.3	1723.0	1881.6	2075.0	2274.9	2422.6	2500.8	2394.4	2081.5
35°	1607.8	1616.5	1681.7	1807.7	1979.4	2174.9	2357.4	2507.3	2633.4	2576.9	2205.3
37.5°	1701.3	1714.3	1794.7	1922.9	2079.3	2255.3	2433.5	2594.3	2776.8	2752.9	2335.7
40°	1866.4	1866.4	1946.8	2057.6	2185.8	2320.5	2496.5	2685.5	2909.3	2941.9	2496.5
42.5°	2075.0	2066.3	2118.4	2198.8	2287.9	2400.9	2559.5	2770.2	3033.1	3104.8	2618.2
45°	2361.8	2318.3	2346.6	2366.1	2409.6	2479.1	2620.3	2850.6	3133.1	3226.5	2709.4
47.5°	2698.5	2637.7	2613.8	2576.9	2561.7	2587.7	2709.4	2913.6	3228.7	3330.8	2857.2
50°	3070.1	3011.4	2948.4	2848.5	2761.6	2735.5	2809.4	2998.4	3330.8	3461.2	3020.1
52.5°	3456.8	3415.6	3333.0	3176.5	3011.4	2918.0	2952.8	3139.6	3493.8	3663.2	3213.5
55°	3811.0	3824.0	3724.1	3541.6	3304.7	3161.3	3202.6	3389.5	3789.3	3989.2	3537.2
57.5°	4191.2	4156.5	4078.2	3889.2	3630.7	3476.4	3493.8	3719.7	4119.5	4271.6	3858.8
60°	4443.3	4443.3	4358.5	4215.1	3969.6	3826.2	3852.3	4060.9	4384.6	4399.8	4002.2
62.5°	4606.2	4630.1	4562.8	4460.6	4221.6	4102.1	4191.2	4339.0	4515.0	4388.9	3930.5
65°	4528.0	4554.1	4547.5	4434.6	4265.1	4256.4	4417.2	4451.9	4436.7	4230.3	3682.8
67.5°	4173.8	4121.7	4119.5	4060.9	4026.1	4206.4	4410.7	4421.5	4165.1	3919.6	3291.7
70°	3500.3	3411.2	3376.4	3393.8	3552.4	3889.2	4180.4	4097.8	3689.3	3478.6	2802.8
72.5°	2698.5	2592.1	2570.4	2637.7	2883.2	3356.9	3754.5	3639.3	3033.1	2787.6	2170.6
75°	1914.2	1868.6	1870.7	2003.3	2268.3	2724.6	3187.4	3176.5	2246.6	1922.9	1494.8
77.5°	1392.7	1401.4	1440.5	1492.7	1720.8	2161.9	2596.4	2568.2	1599.1	1321.0	1045.1
80°	1149.4	1162.4	1162.4	1134.2	1192.8	1427.5	1764.3	1883.8	1071.2	888.7	730.0
82.5°	825.6	890.8	927.8	882.1	860.4	940.8	1105.9	1184.1	667.0	560.6	510.6
85°	393.3	449.8	462.8	451.9	519.3	593.2	632.3	647.5	365.0	260.7	334.6
87.5°	0.0	0.0	2.2	17.4	47.8	82.6	82.6	126.0	19.6	6.5	15.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
97.5°	9.0	11.0	13.0	10.0	7.0	6.0	5.0	4.5	4.0	4.0	4.0
100°	30.0	31.0	32.0	31.0	30.0	28.5	27.0	26.5	26.0	25.0	26.0
102.5°	50.0	50.5	51.0	50.5	50.0	49.0	48.0	48.5	49.0	48.0	49.0
105°	70.0	70.5	71.0	71.0	71.0	70.0	69.0	70.0	71.0	69.0	71.0
107.5°	91.0	92.0	93.0	92.5	92.0	91.5	91.0	91.5	92.0	91.0	92.0
110°	112.0	113.0	114.0	114.0	114.0	113.5	113.0	113.5	114.0	113.0	114.0



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CANDELA DISTRIBUTION (continued):

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



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	115°	120°	125°	130°	135°	145°	155°	165°
0°	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7
2.5°	1642.6	1614.3	1592.6	1566.5	1544.8	1523.1	1507.9	1475.3	1449.2	1390.6	1375.3
5°	1603.5	1542.6	1501.4	1462.3	1412.3	1377.5	1340.6	1295.0	1245.0	1160.2	1134.2
7.5°	1449.2	1373.2	1316.7	1260.2	1195.0	1136.3	1082.0	1021.2	934.3	843.0	808.3
10°	1281.9	1201.5	1123.3	1056.0	977.7	912.6	864.8	821.3	751.8	682.2	636.6
12.5°	1145.0	1053.8	964.7	897.3	856.1	823.5	788.7	753.9	680.1	601.8	547.5
15°	1082.0	975.6	897.3	840.9	803.9	764.8	723.5	684.4	597.5	506.2	441.1
17.5°	1090.7	969.0	869.1	793.1	743.1	688.8	641.0	591.0	495.4	386.7	328.1
20°	1138.5	975.6	838.7	749.6	677.9	608.4	547.5	484.5	367.2	282.5	241.2
22.5°	1199.4	997.3	821.3	706.1	617.1	530.1	451.9	378.1	271.6	221.6	202.1
25°	1303.6	1047.3	817.0	667.0	558.4	454.1	373.7	295.5	219.4	195.5	184.7
27.5°	1434.0	1103.8	821.3	638.8	508.4	393.3	304.2	245.5	197.7	184.7	176.0
30°	1564.4	1162.4	801.7	595.3	449.8	336.8	260.7	223.8	195.5	180.3	165.1
32.5°	1679.5	1205.9	769.2	549.7	397.6	286.8	221.6	191.2	171.6	154.3	149.9
35°	1762.1	1225.4	732.2	521.5	362.8	256.4	195.5	171.6	152.1	134.7	126.0
37.5°	1840.3	1227.6	693.1	495.4	349.8	243.3	180.3	158.6	141.2	126.0	117.3
40°	1920.7	1218.9	671.4	469.3	330.3	236.8	173.8	147.7	136.9	119.5	110.8
42.5°	1979.4	1203.7	662.7	454.1	312.9	219.4	169.5	145.6	130.4	117.3	106.5
45°	2033.7	1188.5	662.7	441.1	299.8	208.6	160.8	147.7	126.0	115.2	102.1
47.5°	2098.9	1195.0	664.9	430.2	289.0	197.7	152.1	143.4	128.2	113.0	99.9
50°	2209.7	1268.9	675.7	423.7	280.3	189.0	145.6	136.9	141.2	110.8	97.8
52.5°	2400.9	1386.2	693.1	419.3	271.6	182.5	136.9	132.5	143.4	110.8	95.6
55°	2650.7	1505.7	710.5	408.5	258.6	169.5	132.5	123.8	132.5	110.8	93.4
57.5°	2894.1	1594.8	725.7	393.3	236.8	156.4	126.0	117.3	121.7	108.6	89.1
60°	3035.3	1664.3	740.9	367.2	210.8	141.2	119.5	110.8	108.6	108.6	86.9
62.5°	3074.4	1638.2	732.2	334.6	189.0	130.4	113.0	104.3	97.8	110.8	86.9
65°	2950.6	1501.4	699.6	306.4	173.8	126.0	106.5	99.9	93.4	95.6	82.6
67.5°	2570.4	1262.4	610.5	280.3	171.6	123.8	102.1	95.6	86.9	84.7	78.2
70°	2096.7	990.8	506.2	260.7	169.5	123.8	97.8	89.1	82.6	76.0	71.7
72.5°	1612.2	740.9	425.9	252.0	171.6	121.7	91.3	80.4	73.9	69.5	65.2
75°	1134.2	523.6	354.2	226.0	160.8	115.2	84.7	71.7	65.2	60.8	56.5
77.5°	821.3	356.3	262.9	182.5	136.9	99.9	73.9	60.8	54.3	52.1	47.8
80°	523.6	219.4	176.0	134.7	99.9	78.2	56.5	47.8	43.5	39.1	36.9
82.5°	302.0	128.2	106.5	91.3	65.2	52.1	41.3	36.9	28.2	26.1	23.9
85°	184.7	80.4	58.7	47.8	41.3	32.6	23.9	21.7	15.2	13.0	10.9
87.5°	41.3	17.4	15.2	10.9	13.0	10.9	6.5	4.3	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
97.5°	4.5	5.0	6.0	7.0	10.0	13.0	11.0	9.0	4.0	3.0	2.0
100°	26.5	27.0	28.5	30.0	31.0	32.0	31.0	30.0	22.0	14.0	10.0
102.5°	48.5	48.0	49.0	50.0	50.5	51.0	50.5	50.0	45.0	38.0	32.0
105°	70.0	69.0	70.0	71.0	71.0	71.0	70.5	70.0	66.0	61.0	56.0
107.5°	91.5	91.0	91.5	92.0	92.5	93.0	92.0	91.0	88.0	84.0	80.0
110°	113.5	113.0	113.5	114.0	114.0	114.0	113.0	112.0	110.0	106.0	103.0



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REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	100°	105°	110°	115°	120°	125°	130°	135°	145°	155°	165°	
112.5°	136.0	135.0	135.5	136.0	136.0	136.0	135.0	134.0	132.0	129.0	126.0	0°
115°	159.0	158.0	158.0	158.0	158.0	158.0	157.0	156.0	154.0	151.0	149.0	2.5°
117.5°	181.0	180.0	180.5	181.0	180.5	180.0	179.5	179.0	177.0	174.0	172.0	5°
120°	205.0	204.0	204.0	204.0	204.0	204.0	203.0	202.0	201.0	198.0	196.0	7.5°
122.5°	231.0	229.0	228.5	228.0	228.0	228.0	227.5	227.0	226.0	223.0	221.0	10°
125°	255.5	254.0	254.0	254.0	253.5	253.0	252.5	252.0	251.0	248.0	247.0	12.5°
127.5°	279.5	278.0	277.5	277.0	277.5	278.0	277.0	276.0	274.0	272.0	270.0	15°
130°	303.5	302.0	301.5	301.0	301.0	301.0	300.0	299.0	298.0	294.0	293.0	17.5°
132.5°	327.5	326.0	325.5	325.0	325.0	325.0	323.5	322.0	321.0	318.0	317.0	20°
135°	350.0	349.0	348.5	348.0	348.0	348.0	346.5	345.0	345.0	341.0	339.0	22.5°
137.5°	372.0	370.0	369.5	369.0	369.0	369.0	368.0	367.0	367.0	364.0	363.0	25°
140°	394.0	392.0	391.0	390.0	390.0	390.0	389.5	389.0	388.0	386.0	385.0	27.5°
142.5°	414.5	413.0	412.5	412.0	412.0	412.0	411.0	410.0	410.0	407.0	408.0	30°
145°	435.5	434.0	433.5	433.0	433.5	434.0	433.0	432.0	431.0	428.0	428.0	32.5°
147.5°	454.5	453.0	452.5	452.0	453.0	454.0	453.5	453.0	452.0	448.0	447.0	35°
150°	471.0	469.0	469.0	469.0	470.0	471.0	470.5	470.0	469.0	465.0	464.0	37.5°
152.5°	487.5	486.0	486.0	486.0	486.5	487.0	486.5	486.0	485.0	482.0	483.0	40°
155°	505.5	504.0	503.5	503.0	503.5	504.0	503.5	503.0	503.0	501.0	502.0	42.5°
157.5°	520.5	518.0	517.5	517.0	518.0	519.0	519.0	519.0	519.0	516.0	517.0	45°
160°	531.5	530.0	530.0	530.0	531.0	532.0	532.0	532.0	532.0	529.0	529.0	47.5°
162.5°	539.0	538.0	539.0	540.0	541.0	542.0	541.5	541.0	541.0	538.0	539.0	50°
165°	549.0	548.0	549.0	550.0	551.5	553.0	552.5	552.0	552.0	548.0	549.0	52.5°
167.5°	561.0	559.0	558.5	558.0	559.0	560.0	560.0	560.0	561.0	558.0	559.0	55°
170°	568.5	566.0	565.0	564.0	564.5	565.0	565.5	566.0	567.0	565.0	566.0	57.5°
172.5°	569.5	568.0	567.5	567.0	568.0	569.0	568.5	568.0	569.0	567.0	569.0	60°
175°	569.5	568.0	569.0	570.0	571.5	573.0	572.5	572.0	572.0	569.0	570.0	62.5°
177.5°	575.5	574.0	574.0	574.0	575.5	577.0	577.0	577.0	578.0	574.0	575.0	65°
180°	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	67.5°
												70°
												72.5°
												75°
												77.5°
												80°
												82.5°
												85°
												87.5°
												90°
												92.5°
												95°
												97.5°
												100°
												102.5°
												105°
												107.5°
												110°



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DISTRIBUTION (continued):

CANDELA DISTRIBUTION

175°	180°	185°	195°	205°	215°	225°	230°	232.5°	235°	237.5°	175°	175°
1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	112.5°	124.0
1351.4	1318.9	1321.0	1314.5	1297.1	1268.9	1260.2	1245.0	1247.2	1255.8	1247.2	115°	147.0
1103.8	1064.6	1069.0	1066.8	1049.4	1029.9	1014.7	995.1	988.6	995.1	984.3	117.5°	170.0
782.2	756.1	764.8	784.4	782.2	771.3	758.3	736.6	732.2	734.4	714.8	120°	195.0
597.5	571.4	564.9	562.7	558.4	551.9	534.5	517.1	510.6	512.8	499.7	122.5°	220.0
499.7	478.0	451.9	428.0	406.3	397.6	375.9	365.0	362.8	362.8	356.3	125°	246.0
395.4	378.1	362.8	338.9	321.6	308.5	293.3	284.6	282.5	284.6	284.6	127.5°	269.0
295.5	286.8	280.3	278.1	269.4	260.7	252.0	247.7	245.5	245.5	247.7	130°	292.0
226.0	223.8	223.8	223.8	234.7	243.3	245.5	239.0	236.8	234.7	232.5	132.5°	314.0
195.5	193.4	195.5	208.6	202.1	195.5	195.5	195.5	195.5	195.5	197.7	135°	337.0
180.3	182.5	184.7	178.2	171.6	167.3	165.1	165.1	163.0	163.0	165.1	137.5°	360.0
171.6	169.5	167.3	163.0	158.6	152.1	149.9	147.7	147.7	147.7	147.7	140°	383.0
160.8	158.6	156.4	152.1	145.6	136.9	134.7	134.7	132.5	134.7	134.7	142.5°	406.0
147.7	145.6	143.4	139.1	132.5	128.2	126.0	121.7	121.7	121.7	123.8	145°	426.0
119.5	117.3	117.3	119.5	119.5	117.3	117.3	113.0	113.0	113.0	113.0	147.5°	444.0
110.8	108.6	108.6	106.5	108.6	110.8	108.6	106.5	106.5	104.3	104.3	150°	462.0
104.3	104.3	102.1	99.9	99.9	104.3	102.1	99.9	97.8	97.8	97.8	152.5°	480.0
99.9	97.8	97.8	95.6	95.6	95.6	93.4	91.3	89.1	89.1	89.1	155°	500.0
95.6	95.6	93.4	91.3	89.1	89.1	84.7	82.6	82.6	82.6	84.7	157.5°	515.0
93.4	91.3	91.3	89.1	86.9	82.6	80.4	78.2	78.2	78.2	78.2	160°	527.0
91.3	89.1	86.9	86.9	82.6	80.4	78.2	76.0	76.0	76.0	76.0	162.5°	536.0
89.1	86.9	84.7	82.6	80.4	78.2	76.0	73.9	73.9	73.9	73.9	165°	547.0
84.7	82.6	82.6	80.4	80.4	78.2	76.0	73.9	73.9	73.9	71.7	167.5°	556.0
82.6	80.4	78.2	78.2	78.2	76.0	73.9	71.7	71.7	71.7	71.7	170°	563.0
80.4	78.2	78.2	76.0	76.0	73.9	73.9	71.7	69.5	69.5	67.4	172.5°	566.0
78.2	76.0	76.0	73.9	76.0	73.9	71.7	69.5	67.4	67.4	65.2	175°	569.0
76.0	73.9	73.9	73.9	71.7	71.7	69.5	65.2	65.2	65.2	63.0	177.5°	573.0
71.7	69.5	69.5	71.7	69.5	67.4	67.4	63.0	63.0	60.8	60.8	180°	576.0
65.2	65.2	65.2	67.4	65.2	63.0	63.0	60.8	58.7	56.5	56.5		
60.8	58.7	60.8	60.8	60.8	58.7	60.8	56.5	54.3	52.1	52.1		
52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	50.0	47.8	45.6		
41.3	43.5	43.5	43.5	43.5	45.6	43.5	43.5	43.5	41.3	39.1		
30.4	30.4	32.6	34.8	32.6	34.8	32.6	34.8	32.6	32.6	32.6		
17.4	17.4	19.6	21.7	21.7	23.9	19.6	21.7	21.7	23.9	21.7		
6.5	6.5	6.5	6.5	8.7	8.7	6.5	8.7	8.7	10.9	10.9		
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	0.0	0.0	0.0	0.0	0.0	0.0		
1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
2.0	2.0	2.0	2.0	3.0	4.0	9.0	11.0	12.0	13.0	11.5		
8.0	8.0	8.0	10.0	14.0	22.0	30.0	31.0	31.5	32.0	31.5		
28.0	28.0	28.0	32.0	38.0	45.0	50.0	50.5	50.8	51.0	50.8		
54.0	54.0	54.0	56.0	61.0	66.0	70.0	70.5	70.8	71.0	71.0		
77.0	78.0	77.0	80.0	84.0	88.0	91.0	92.0	92.5	93.0	92.8		
102.0	101.0	102.0	103.0	106.0	110.0	112.0	113.0	113.5	114.0	114.0		

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 ISS-AF-1200-LED-E1-SLL-7050-ULG

REPORT NUMBER: P228463
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TION (continued):

CANDELA DISTRIBUTION (con

180°	185°	195°	205°	215°	225°	230°	232.5°	235°	237.5°		240°	242.5°
124.0	124.0	126.0	129.0	132.0	134.0	135.0	135.5	136.0	136.0	0°	1518.7	1518.7
146.0	147.0	149.0	151.0	154.0	156.0	157.0	157.5	158.0	158.0	2.5°	1264.5	1264.5
169.0	170.0	172.0	174.0	177.0	179.0	179.5	179.8	180.0	180.2	5°	992.9	990.8
193.0	195.0	196.0	198.0	201.0	202.0	203.0	203.5	204.0	204.0	7.5°	721.4	714.8
219.0	220.0	221.0	223.0	226.0	227.0	227.5	227.8	228.0	228.0	10°	504.1	486.7
244.0	246.0	247.0	248.0	251.0	252.0	252.5	252.8	253.0	253.2	12.5°	365.0	358.5
267.0	269.0	270.0	272.0	274.0	276.0	277.0	277.5	278.0	277.8	15°	289.0	289.0
290.0	292.0	293.0	294.0	298.0	299.0	300.0	300.5	301.0	301.0	17.5°	249.9	249.9
313.0	314.0	317.0	318.0	321.0	322.0	323.5	324.2	325.0	325.0	20°	230.3	228.1
336.0	337.0	339.0	341.0	345.0	345.0	346.5	347.2	348.0	348.0	22.5°	197.7	195.5
359.0	360.0	363.0	364.0	367.0	367.0	368.0	368.5	369.0	369.0	25°	163.0	163.0
382.0	383.0	385.0	386.0	388.0	389.0	389.5	389.8	390.0	390.0	27.5°	147.7	147.7
404.0	406.0	408.0	407.0	410.0	410.0	411.0	411.5	412.0	412.0	30°	134.7	136.9
425.0	426.0	428.0	428.0	431.0	432.0	433.0	433.5	434.0	433.8	32.5°	123.8	123.8
444.0	444.0	447.0	448.0	452.0	453.0	453.5	453.8	454.0	453.5	35°	110.8	110.8
461.0	462.0	464.0	465.0	469.0	470.0	470.5	470.8	471.0	470.5	37.5°	102.1	99.9
479.0	480.0	483.0	482.0	485.0	486.0	486.5	486.8	487.0	486.8	40°	93.4	93.4
499.0	500.0	502.0	501.0	503.0	503.0	503.5	503.8	504.0	503.8	42.5°	86.9	86.9
513.0	515.0	517.0	516.0	519.0	519.0	519.0	519.0	519.0	518.5	45°	82.6	82.6
525.0	527.0	529.0	529.0	532.0	532.0	532.0	532.0	532.0	531.5	47.5°	80.4	80.4
535.0	536.0	539.0	538.0	541.0	541.0	541.5	541.8	542.0	541.5	50°	76.0	76.0
546.0	547.0	549.0	548.0	552.0	552.0	552.5	552.8	553.0	552.2	52.5°	73.9	73.9
555.0	556.0	559.0	558.0	561.0	560.0	560.0	560.0	560.0	559.5	55°	71.7	73.9
562.0	563.0	566.0	565.0	567.0	566.0	565.5	565.2	565.0	564.8	57.5°	69.5	69.5
565.0	566.0	569.0	567.0	569.0	568.0	568.5	568.8	569.0	568.5	60°	67.4	67.4
567.0	569.0	570.0	569.0	572.0	572.0	572.5	572.8	573.0	572.2	62.5°	65.2	65.2
572.0	573.0	575.0	574.0	578.0	577.0	577.0	577.0	577.0	576.2	65°	63.0	63.0
576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	67.5°	58.7	58.7
										70°	54.3	54.3
										72.5°	50.0	50.0
										75°	45.6	43.5
										77.5°	39.1	36.9
										80°	32.6	30.4
										82.5°	23.9	21.7
										85°	10.9	10.9
										87.5°	0.0	0.0
										90°	0.0	0.0
										92.5°	0.0	0.0
										95°	1.0	1.0
										97.5°	10.0	8.5
										100°	31.0	30.5
										102.5°	50.5	50.2
										105°	71.0	71.0
										107.5°	92.5	92.2
										110°	114.0	114.0



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tinued):

CANDELA DISTRIBUTION (continued):

245°	247.5°	250°	252.5°	255°	257.5°	260°	265°	270°		240°	242.5°	245°
1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	112.5°	136.0	136.0	136.0
1238.5	1242.8	1247.2	1255.8	1251.5	1249.3	1247.2	1260.2	1266.7	115°	158.0	158.0	158.0
958.2	956.0	962.5	964.7	958.2	947.3	940.8	943.0	949.5	117.5°	180.5	180.8	181.0
684.4	680.1	677.9	680.1	673.5	662.7	654.0	656.2	662.7	120°	204.0	204.0	204.0
482.3	484.5	488.9	493.2	493.2	493.2	495.4	508.4	523.6	122.5°	228.0	228.0	228.0
362.8	367.2	375.9	382.4	388.9	391.1	393.3	410.6	423.7	125°	253.5	253.8	254.0
293.3	295.5	299.8	304.2	308.5	308.5	310.7	317.2	328.1	127.5°	277.5	277.2	277.0
249.9	249.9	249.9	247.7	245.5	241.2	239.0	236.8	239.0	130°	301.0	301.0	301.0
223.8	221.6	217.3	212.9	210.8	204.2	202.1	195.5	193.4	132.5°	325.0	325.0	325.0
195.5	195.5	195.5	193.4	191.2	189.0	184.7	178.2	173.8	135°	348.0	348.0	348.0
163.0	165.1	165.1	167.3	171.6	171.6	171.6	171.6	165.1	137.5°	369.0	369.0	369.0
147.7	147.7	149.9	149.9	152.1	152.1	152.1	154.3	156.4	140°	390.0	390.0	390.0
136.9	139.1	139.1	141.2	141.2	143.4	143.4	145.6	145.6	142.5°	412.0	412.0	412.0
126.0	128.2	128.2	128.2	132.5	132.5	130.4	132.5	132.5	145°	433.5	433.2	433.0
110.8	110.8	110.8	110.8	110.8	110.8	106.5	104.3	106.5	147.5°	453.0	452.5	452.0
99.9	97.8	95.6	95.6	95.6	97.8	95.6	97.8	97.8	150°	470.0	469.5	469.0
91.3	91.3	91.3	91.3	91.3	91.3	91.3	93.4	95.6	152.5°	486.5	486.2	486.0
86.9	86.9	86.9	86.9	86.9	86.9	86.9	89.1	89.1	155°	503.5	503.2	503.0
82.6	82.6	84.7	84.7	84.7	84.7	84.7	84.7	86.9	157.5°	518.0	517.5	517.0
80.4	80.4	80.4	80.4	80.4	80.4	80.4	82.6	84.7	160°	531.0	530.5	530.0
78.2	78.2	78.2	78.2	78.2	78.2	78.2	80.4	82.6	162.5°	541.0	540.5	540.0
73.9	76.0	76.0	76.0	76.0	76.0	76.0	76.0	78.2	165°	551.5	550.8	550.0
73.9	73.9	73.9	73.9	71.7	71.7	71.7	71.7	73.9	167.5°	559.0	558.5	558.0
71.7	71.7	71.7	69.5	69.5	67.4	67.4	67.4	71.7	170°	564.5	564.2	564.0
67.4	67.4	67.4	65.2	65.2	65.2	65.2	67.4	67.4	172.5°	568.0	567.5	567.0
63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	175°	571.5	570.8	570.0
60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	177.5°	575.5	574.8	574.0
58.7	56.5	56.5	56.5	56.5	58.7	56.5	56.5	56.5	180°	576.0	576.0	576.0
54.3	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1				
50.0	50.0	47.8	47.8	47.8	47.8	47.8	47.8	47.8				
43.5	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3				
36.9	36.9	34.8	34.8	34.8	34.8	34.8	34.8	34.8				
30.4	28.2	28.2	28.2	28.2	28.2	28.2	26.1	26.1				
21.7	21.7	21.7	19.6	19.6	19.6	19.6	17.4	15.2				
8.7	10.9	10.9	13.0	10.9	10.9	10.9	8.7	4.3				
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0				
7.0	6.5	6.0	5.5	5.0	4.8	4.5	4.0	4.0				
30.0	29.2	28.5	27.8	27.0	26.8	26.5	26.0	25.0				
50.0	49.5	49.0	48.5	48.0	48.2	48.5	49.0	48.0				
71.0	70.5	70.0	69.5	69.0	69.5	70.0	71.0	69.0				
92.0	91.8	91.5	91.2	91.0	91.2	91.5	92.0	91.0				
114.0	113.8	113.5	113.2	113.0	113.2	113.5	114.0	113.0				



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CANDELA DISTRIBUTION (continued):

247.5°	250°	252.5°	255°	257.5°	260°	265°	270°		275°	280°	282.5°	285°
135.8	135.5	135.2	135.0	135.5	136.0	137.0	135.0	0°	1518.7	1518.7	1518.7	1518.7
158.0	158.0	158.0	158.0	158.5	159.0	160.0	159.0	2.5°	1262.4	1284.1	1286.3	1273.2
180.8	180.5	180.2	180.0	180.5	181.0	182.0	180.0	5°	940.8	969.0	966.9	949.5
204.0	204.0	204.0	204.0	204.5	205.0	206.0	204.0	7.5°	664.9	688.8	686.6	684.4
228.2	228.5	228.8	229.0	230.0	231.0	233.0	232.0	10°	538.8	560.6	567.1	582.3
254.0	254.0	254.0	254.0	254.8	255.5	257.0	256.0	12.5°	436.7	462.8	469.3	486.7
277.2	277.5	277.8	278.0	278.8	279.5	281.0	278.0	15°	336.8	358.5	365.0	378.1
301.2	301.5	301.8	302.0	302.8	303.5	305.0	303.0	17.5°	247.7	260.7	265.1	273.8
325.2	325.5	325.8	326.0	326.8	327.5	329.0	327.0	20°	193.4	197.7	199.9	202.1
348.2	348.5	348.8	349.0	349.5	350.0	351.0	350.0	22.5°	173.8	176.0	176.0	178.2
369.2	369.5	369.8	370.0	371.0	372.0	374.0	372.0	25°	160.8	163.0	163.0	165.1
390.5	391.0	391.5	392.0	393.0	394.0	396.0	394.0	27.5°	154.3	154.3	154.3	154.3
412.2	412.5	412.8	413.0	413.8	414.5	416.0	415.0	30°	147.7	147.7	147.7	149.9
433.2	433.5	433.8	434.0	434.8	435.5	437.0	435.0	32.5°	136.9	132.5	136.9	134.7
452.2	452.5	452.8	453.0	453.8	454.5	456.0	453.0	35°	106.5	106.5	108.6	110.8
469.0	469.0	469.0	469.0	470.0	471.0	473.0	470.0	37.5°	99.9	102.1	102.1	104.3
486.0	486.0	486.0	486.0	486.8	487.5	489.0	486.0	40°	95.6	97.8	99.9	102.1
503.2	503.5	503.8	504.0	504.8	505.5	507.0	505.0	42.5°	91.3	95.6	95.6	97.8
517.2	517.5	517.8	518.0	519.2	520.5	523.0	520.0	45°	89.1	91.3	93.4	95.6
530.0	530.0	530.0	530.0	530.8	531.5	533.0	531.0	47.5°	86.9	89.1	91.3	93.4
539.5	539.0	538.5	538.0	538.5	539.0	540.0	537.0	50°	82.6	86.9	89.1	91.3
549.5	549.0	548.5	548.0	548.5	549.0	550.0	548.0	52.5°	80.4	84.7	84.7	89.1
558.2	558.5	558.8	559.0	560.0	561.0	563.0	561.0	55°	76.0	80.4	80.4	84.7
564.5	565.0	565.5	566.0	567.2	568.5	571.0	569.0	57.5°	71.7	76.0	78.2	80.4
567.2	567.5	567.8	568.0	568.8	569.5	571.0	568.0	60°	69.5	71.7	73.9	76.0
569.5	569.0	568.5	568.0	568.8	569.5	571.0	568.0	62.5°	65.2	69.5	71.7	73.9
574.0	574.0	574.0	574.0	574.8	575.5	577.0	574.0	65°	63.0	67.4	67.4	71.7
576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	67.5°	58.7	63.0	63.0	65.2
								70°	54.3	56.5	58.7	60.8
								72.5°	50.0	52.1	52.1	54.3
								75°	41.3	43.5	45.6	47.8
								77.5°	34.8	34.8	39.1	39.1
								80°	26.1	26.1	28.2	30.4
								82.5°	15.2	15.2	17.4	17.4
								85°	4.3	4.3	4.3	4.3
								87.5°	0.0	0.0	0.0	0.0
								90°	0.0	0.0	0.0	0.0
								92.5°	0.0	0.0	0.0	0.0
								95°	1.0	1.0	1.0	1.0
								97.5°	4.0	4.5	4.8	5.0
								100°	26.0	26.5	26.8	27.0
								102.5°	49.0	48.5	48.2	48.0
								105°	71.0	70.0	69.5	69.0
								107.5°	92.0	91.5	91.2	91.0
								110°	114.0	113.5	113.2	113.0



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CANDELA DISTRIBUTION (continued):

287.5°	290°	292.5°	295°	297.5°	300°	302.5°		275°	280°	282.5°	285°	287.5°
1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	112.5°	137.0	136.0	135.5	135.0	135.2
1299.3	1303.6	1297.1	1297.1	1301.5	1318.9	1318.9	115°	160.0	159.0	158.5	158.0	158.0
984.3	995.1	988.6	990.8	999.5	1019.0	1029.9	117.5°	182.0	181.0	180.5	180.0	180.2
706.1	714.8	719.2	725.7	751.8	753.9	767.0	120°	206.0	205.0	204.5	204.0	204.0
588.8	601.8	610.5	621.4	643.1	654.0	669.2	122.5°	233.0	231.0	230.0	229.0	228.8
495.4	510.6	519.3	541.0	554.0	567.1	586.6	125°	257.0	255.5	254.8	254.0	254.0
386.7	404.1	412.8	425.9	451.9	465.0	491.0	127.5°	281.0	279.5	278.8	278.0	277.8
280.3	286.8	304.2	325.9	341.1	362.8	375.9	130°	305.0	303.5	302.8	302.0	301.8
206.4	210.8	219.4	234.7	243.3	260.7	273.8	132.5°	329.0	327.5	326.8	326.0	325.8
178.2	180.3	184.7	189.0	193.4	199.9	206.4	135°	351.0	350.0	349.5	349.0	348.8
165.1	167.3	169.5	171.6	176.0	178.2	180.3	137.5°	374.0	372.0	371.0	370.0	369.8
156.4	156.4	158.6	163.0	163.0	167.3	169.5	140°	396.0	394.0	393.0	392.0	391.5
152.1	156.4	160.8	167.3	169.5	173.8	176.0	142.5°	416.0	414.5	413.8	413.0	412.8
130.4	130.4	132.5	136.9	136.9	139.1	141.2	145°	437.0	435.5	434.8	434.0	433.8
110.8	113.0	115.2	117.3	119.5	123.8	126.0	147.5°	456.0	454.5	453.8	453.0	452.8
106.5	106.5	108.6	113.0	115.2	117.3	119.5	150°	473.0	471.0	470.0	469.0	469.0
102.1	104.3	106.5	108.6	110.8	115.2	117.3	152.5°	489.0	487.5	486.8	486.0	486.0
99.9	102.1	104.3	106.5	110.8	113.0	115.2	155°	507.0	505.5	504.8	504.0	503.8
97.8	99.9	102.1	106.5	108.6	113.0	115.2	157.5°	523.0	520.5	519.2	518.0	517.8
95.6	97.8	99.9	104.3	108.6	113.0	117.3	160°	533.0	531.5	530.8	530.0	530.0
93.4	95.6	99.9	104.3	108.6	115.2	126.0	162.5°	540.0	539.0	538.5	538.0	538.5
91.3	95.6	99.9	104.3	110.8	119.5	130.4	165°	550.0	549.0	548.5	548.0	548.5
89.1	93.4	95.6	102.1	108.6	117.3	119.5	167.5°	563.0	561.0	560.0	559.0	558.8
84.7	89.1	91.3	97.8	106.5	108.6	106.5	170°	571.0	568.5	567.2	566.0	565.5
80.4	82.6	89.1	102.1	110.8	102.1	91.3	172.5°	571.0	569.5	568.8	568.0	567.8
78.2	80.4	84.7	93.4	95.6	84.7	82.6	175°	571.0	569.5	568.8	568.0	568.5
73.9	73.9	76.0	76.0	76.0	76.0	76.0	177.5°	577.0	575.5	574.8	574.0	574.0
67.4	67.4	69.5	69.5	69.5	69.5	69.5	180°	576.0	576.0	576.0	576.0	576.0
60.8	60.8	63.0	63.0	63.0	65.2	65.2						
54.3	56.5	56.5	58.7	58.7	58.7	60.8						
47.8	50.0	50.0	50.0	50.0	52.1	52.1						
41.3	41.3	43.5	43.5	43.5	43.5	43.5						
32.6	32.6	32.6	32.6	32.6	32.6	32.6						
19.6	19.6	21.7	19.6	19.6	17.4	17.4						
4.3	4.3	4.3	2.2	2.2	0.0	0.0						
0.0	0.0	0.0	0.0	0.0	0.0	0.0						
0.0	0.0	0.0	0.0	0.0	0.0	0.0						
0.0	0.0	0.0	0.0	0.0	0.0	0.0						
1.0	1.0	1.0	1.0	1.0	1.0	1.0						
5.5	6.0	6.5	7.0	8.5	10.0	11.5						
27.8	28.5	29.2	30.0	30.5	31.0	31.5						
48.5	49.0	49.5	50.0	50.2	50.5	50.8						
69.5	70.0	70.5	71.0	71.0	71.0	71.0						
91.2	91.5	91.8	92.0	92.2	92.5	92.8						
113.2	113.5	113.8	114.0	114.0	114.0	114.0						



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CANDELA DISTRIBUTION (continued):

290°	292.5°	295°	297.5°	300°	302.5°		305°	307.5°	310°	312.5°	315°	317.5°
135.5	135.8	136.0	136.0	136.0	136.0	0°	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7
158.0	158.0	158.0	158.0	158.0	158.0	2.5°	1351.4	1351.4	1355.8	1373.2	1377.5	1388.4
180.5	180.8	181.0	180.8	180.5	180.2	5°	1069.0	1077.7	1090.7	1112.4	1125.5	1149.4
204.0	204.0	204.0	204.0	204.0	204.0	7.5°	797.4	810.4	821.3	845.2	864.8	888.7
228.5	228.2	228.0	228.0	228.0	228.0	10°	690.9	701.8	717.0	732.2	751.8	762.6
254.0	254.0	254.0	253.8	253.5	253.2	12.5°	614.9	630.1	645.3	667.0	686.6	706.1
277.5	277.2	277.0	277.2	277.5	277.8	15°	521.5	538.8	556.2	580.1	608.4	627.9
301.5	301.2	301.0	301.0	301.0	301.0	17.5°	404.1	423.7	447.6	480.2	510.6	534.5
325.5	325.2	325.0	325.0	325.0	325.0	20°	297.7	315.0	336.8	365.0	386.7	428.0
348.5	348.2	348.0	348.0	348.0	348.0	22.5°	219.4	230.3	247.7	269.4	293.3	330.3
369.5	369.2	369.0	369.0	369.0	369.0	25°	184.7	189.0	195.5	208.6	223.8	249.9
391.0	390.5	390.0	390.0	390.0	390.0	27.5°	171.6	173.8	178.2	184.7	193.4	206.4
412.5	412.2	412.0	412.0	412.0	412.0	30°	180.3	180.3	180.3	182.5	186.9	193.4
433.5	433.2	433.0	433.2	433.5	433.8	32.5°	145.6	147.7	147.7	152.1	154.3	163.0
452.5	452.2	452.0	452.5	453.0	453.5	35°	130.4	132.5	134.7	136.9	141.2	143.4
469.0	469.0	469.0	469.5	470.0	470.5	37.5°	123.8	126.0	128.2	128.2	130.4	134.7
486.0	486.0	486.0	486.2	486.5	486.8	40°	121.7	121.7	121.7	121.7	126.0	130.4
503.5	503.2	503.0	503.2	503.5	503.8	42.5°	117.3	117.3	117.3	119.5	126.0	134.7
517.5	517.2	517.0	517.5	518.0	518.5	45°	117.3	117.3	119.5	128.2	130.4	130.4
530.0	530.0	530.0	530.5	531.0	531.5	47.5°	121.7	126.0	128.2	126.0	123.8	123.8
539.0	539.5	540.0	540.5	541.0	541.5	50°	132.5	130.4	121.7	119.5	119.5	115.2
549.0	549.5	550.0	550.8	551.5	552.2	52.5°	130.4	121.7	119.5	115.2	110.8	108.6
558.5	558.2	558.0	558.5	559.0	559.5	55°	117.3	115.2	108.6	104.3	102.1	104.3
565.0	564.5	564.0	564.2	564.5	564.8	57.5°	102.1	99.9	95.6	95.6	97.8	99.9
567.5	567.2	567.0	567.5	568.0	568.5	60°	89.1	89.1	89.1	91.3	93.4	95.6
569.0	569.5	570.0	570.8	571.5	572.2	62.5°	80.4	82.6	82.6	86.9	89.1	91.3
574.0	574.0	574.0	574.8	575.5	576.2	65°	76.0	78.2	80.4	80.4	82.6	84.7
576.0	576.0	576.0	576.0	576.0	576.0	67.5°	71.7	71.7	73.9	76.0	78.2	80.4
						70°	65.2	67.4	69.5	71.7	71.7	73.9
						72.5°	60.8	60.8	63.0	65.2	65.2	69.5
						75°	52.1	54.3	54.3	54.3	56.5	60.8
						77.5°	45.6	43.5	45.6	45.6	47.8	50.0
						80°	32.6	30.4	30.4	32.6	32.6	32.6
						82.5°	17.4	15.2	17.4	15.2	15.2	17.4
						85°	0.0	0.0	0.0	0.0	0.0	0.0
						87.5°	0.0	0.0	0.0	0.0	0.0	0.0
						90°	0.0	0.0	0.0	0.0	0.0	0.0
						92.5°	0.0	0.0	0.0	0.0	0.0	0.0
						95°	1.0	1.0	1.0	1.0	1.0	1.0
						97.5°	13.0	12.0	11.0	10.0	9.0	7.8
						100°	32.0	31.5	31.0	30.5	30.0	28.0
						102.5°	51.0	50.8	50.5	50.2	50.0	48.8
						105°	71.0	70.8	70.5	70.2	70.0	69.0
						107.5°	93.0	92.5	92.0	91.5	91.0	90.2
						110°	114.0	113.5	113.0	112.5	112.0	111.5



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CANDELA DISTRIBUTION (continued):

320°	322.5°	325°	335°	345°		305°	307.5°	310°	312.5°	315°	317.5°	320°
1518.7	1518.7	1518.7	1518.7	1518.7	112.5°	136.0	135.5	135.0	134.5	134.0	133.5	133.0
1386.2	1405.8	1414.5	1466.6	1520.9	115°	158.0	157.5	157.0	156.5	156.0	155.5	155.0
1145.0	1184.1	1190.7	1286.3	1379.7	117.5°	180.0	179.8	179.5	179.2	179.0	178.5	178.0
895.2	940.8	953.8	1079.9	1210.2	120°	204.0	203.5	203.0	202.5	202.0	201.8	201.5
780.0	801.7	817.0	910.4	1060.3	122.5°	228.0	227.8	227.5	227.2	227.0	226.8	226.5
723.5	745.3	764.8	840.9	958.2	125°	253.0	252.8	252.5	252.2	252.0	251.8	251.5
647.5	671.4	695.3	788.7	925.6	127.5°	278.0	277.5	277.0	276.5	276.0	275.5	275.0
554.0	586.6	617.1	730.0	910.4	130°	301.0	300.5	300.0	299.5	299.0	298.8	298.5
449.8	488.9	525.8	667.0	888.7	132.5°	325.0	324.2	323.5	322.8	322.0	321.8	321.5
354.2	388.9	430.2	608.4	888.7	135°	348.0	347.2	346.5	345.8	345.0	345.0	345.0
273.8	308.5	349.8	556.2	912.6	137.5°	369.0	368.5	368.0	367.5	367.0	367.0	367.0
223.8	252.0	293.3	514.9	947.3	140°	390.0	389.8	389.5	389.2	389.0	388.8	388.5
202.1	219.4	245.5	454.1	971.2	142.5°	412.0	411.5	411.0	410.5	410.0	410.0	410.0
171.6	184.7	208.6	417.2	986.4	145°	434.0	433.5	433.0	432.5	432.0	431.8	431.5
152.1	167.3	191.2	393.3	984.3	147.5°	454.0	453.8	453.5	453.2	453.0	452.8	452.5
141.2	156.4	184.7	384.6	984.3	150°	471.0	470.8	470.5	470.2	470.0	469.8	469.5
141.2	156.4	180.3	375.9	990.8	152.5°	487.0	486.8	486.5	486.2	486.0	485.8	485.5
139.1	147.7	167.3	371.5	1001.6	155°	504.0	503.8	503.5	503.2	503.0	503.0	503.0
132.5	139.1	158.6	371.5	1023.4	157.5°	519.0	519.0	519.0	519.0	519.0	519.0	519.0
123.8	132.5	152.1	378.1	1064.6	160°	532.0	532.0	532.0	532.0	532.0	532.0	532.0
117.3	126.0	149.9	378.1	1149.4	162.5°	542.0	541.8	541.5	541.2	541.0	541.0	541.0
110.8	123.8	147.7	373.7	1271.1	165°	553.0	552.8	552.5	552.2	552.0	552.0	552.0
108.6	119.5	143.4	369.4	1421.0	167.5°	560.0	560.0	560.0	560.0	560.0	560.2	560.5
106.5	115.2	132.5	358.5	1540.5	170°	565.0	565.2	565.5	565.8	566.0	566.2	566.5
102.1	108.6	121.7	338.9	1620.9	172.5°	569.0	568.8	568.5	568.2	568.0	568.2	568.5
95.6	102.1	110.8	317.2	1638.2	175°	573.0	572.8	572.5	572.2	572.0	572.0	572.0
91.3	97.8	110.8	299.8	1531.8	177.5°	577.0	577.0	577.0	577.0	577.0	577.2	577.5
84.7	95.6	113.0	284.6	1299.3	180°	576.0	576.0	576.0	576.0	576.0	576.0	576.0
80.4	95.6	115.2	278.1	1032.1								
76.0	93.4	117.3	267.2	777.8								
69.5	84.7	102.1	221.6	525.8								
56.5	65.2	76.0	141.2	278.1								
36.9	39.1	43.5	86.9	154.3								
17.4	21.7	21.7	41.3	69.5								
0.0	0.0	0.0	4.3	15.2								
0.0	0.0	0.0	0.0	0.0								
0.0	0.0	0.0	0.0	0.0								
0.0	0.0	0.0	0.0	0.0								
1.0	1.0	1.0	1.0	1.0								
6.5	5.2	4.0	3.0	2.0								
26.0	24.0	22.0	14.0	10.0								
47.5	46.2	45.0	38.0	32.0								
68.0	67.0	66.0	61.0	56.0								
89.5	88.8	88.0	84.0	80.0								
111.0	110.5	110.0	106.0	103.0								

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CANDELA DISTRIBUTION (continued):

322.5°	325°	335°	345°		355°	359°	360°
132.5	132.0	129.0	126.0	0°	1518.7	1518.7	1518.7
154.5	154.0	151.0	149.0	2.5°	1573.1	1599.1	1612.2
177.5	177.0	174.0	172.0	5°	1488.3	1542.6	1560.0
201.2	201.0	198.0	196.0	7.5°	1360.1	1421.0	1444.9
226.2	226.0	223.0	221.0	10°	1231.9	1308.0	1331.9
251.2	251.0	248.0	247.0	12.5°	1155.9	1247.2	1260.2
274.5	274.0	272.0	270.0	15°	1125.5	1218.9	1245.0
298.2	298.0	294.0	293.0	17.5°	1155.9	1260.2	1286.3
321.2	321.0	318.0	317.0	20°	1214.6	1342.8	1384.0
345.0	345.0	341.0	339.0	22.5°	1314.5	1488.3	1540.5
367.0	367.0	364.0	363.0	25°	1477.5	1718.6	1764.3
388.2	388.0	386.0	385.0	27.5°	1651.3	1901.1	1972.8
410.0	410.0	407.0	408.0	30°	1803.4	2070.6	2129.3
431.2	431.0	428.0	428.0	32.5°	1912.0	2205.3	2272.7
452.2	452.0	448.0	447.0	35°	2040.2	2359.6	2424.8
469.2	469.0	465.0	464.0	37.5°	2188.0	2546.5	2635.5
485.2	485.0	482.0	483.0	40°	2350.9	2739.8	2839.8
503.0	503.0	501.0	502.0	42.5°	2498.7	2920.2	3031.0
519.0	519.0	516.0	517.0	45°	2613.8	3089.6	3176.5
532.0	532.0	529.0	529.0	47.5°	2746.3	3220.0	3317.8
541.0	541.0	538.0	539.0	50°	2928.9	3385.1	3500.3
552.0	552.0	548.0	549.0	52.5°	3196.1	3665.4	3748.0
560.8	561.0	558.0	559.0	55°	3519.8	4004.4	4097.8
566.8	567.0	565.0	566.0	57.5°	3817.5	4319.4	4399.8
568.8	569.0	567.0	569.0	60°	4008.7	4465.0	4532.3
572.0	572.0	569.0	570.0	62.5°	4010.9	4469.3	4554.1
577.8	578.0	574.0	575.0	65°	3852.3	4373.7	4469.3
576.0	576.0	576.0	576.0	67.5°	3450.3	4130.4	4278.1
				70°	2913.6	3652.4	3817.5
				72.5°	2272.7	2870.2	3059.2
				75°	1540.5	1905.5	2070.6
				77.5°	979.9	1099.4	1153.7
				80°	577.9	649.6	677.9
				82.5°	358.5	386.7	415.0
				85°	145.6	104.3	113.0
				87.5°	0.0	0.0	0.0
				90°	0.0	0.0	0.0
				92.5°	0.0	0.0	0.0
				95°	1.0	1.0	1.0
				97.5°	2.0	2.0	2.0
				100°	8.0	8.0	8.0
				102.5°	28.0	28.0	28.0
				105°	54.0	54.0	54.0
				107.5°	77.0	77.8	78.0
				110°	102.0	101.2	101.0

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CANDELA DISTRIBUTION (continued):

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

(END OF REPORT)