

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: P271608

Luminaire Tested: **ISS-AF-1000-LED-E1-T3-7027-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271608
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29759)-DOWNLIGHT AND
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: ISS-AF-1000-LED-E1-T3-7027-ULG
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE WITH UPLIGHT
LIGHT SQUARE WITH ACCULED OPTICS-TYPE III, WITH UPLIGHT GLOW
Light Source: (16) 2700K CCT, 70 CRI LEDs and (1) UPLIGHT LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6421 lumens
Efficiency: N/A
Efficacy: 90.1 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 0.54')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B1 - U5 - G1

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

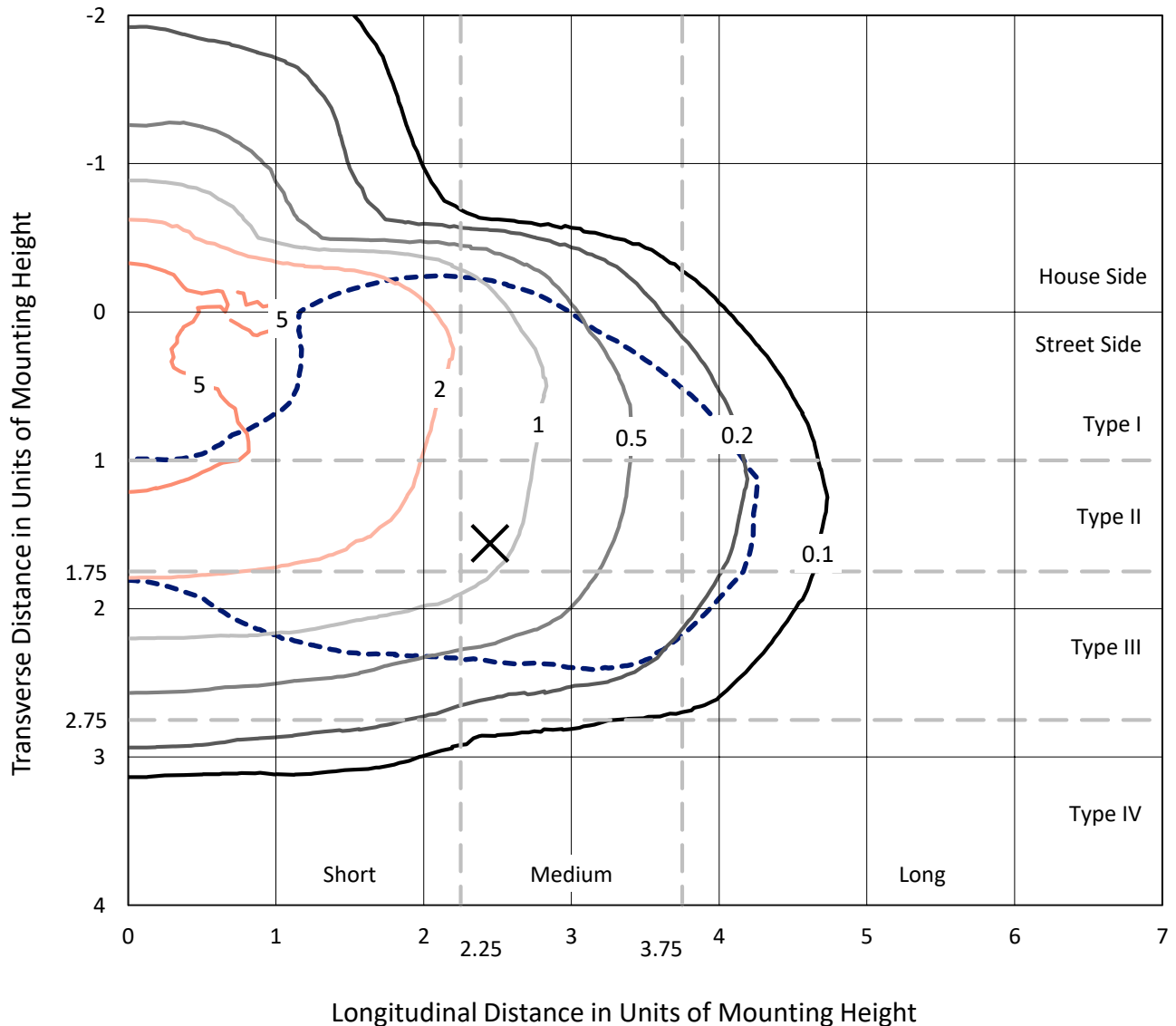


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

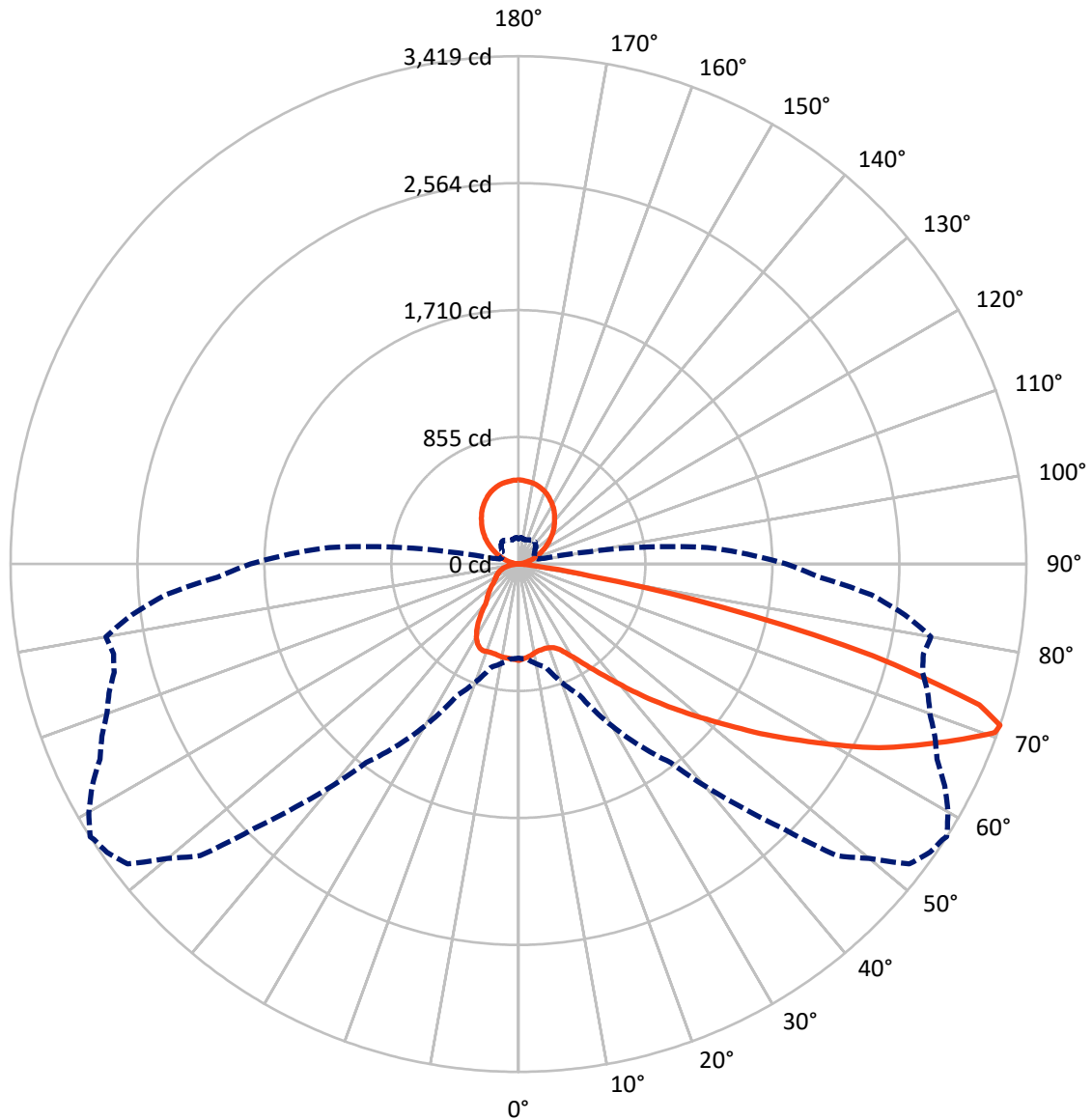


Based on 10 foot mounting height. Maximum calculated value = 6.5 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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

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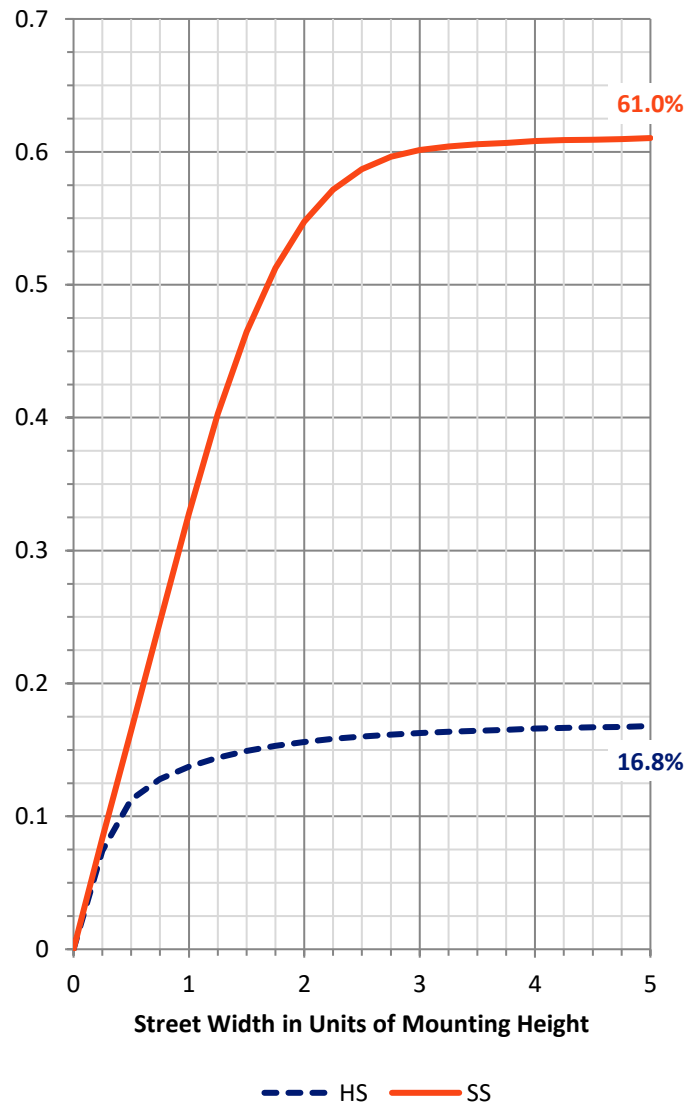
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1093.2	699.9	1793.0
	% Fixture	17.0	10.9	27.9
Street Side	Lumens	3928.1	699.9	4628.0
	% Fixture	61.2	10.9	72.1
Total	Lumens	5021.3	1399.8	6421.0
	% Fixture	78.2	21.8	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.0	1.0
10°-20°	175.9	2.7
20°-30°	292.0	4.5
30°-40°	464.9	7.2
40°-50°	755.2	11.8
50°-60°	1132.3	17.6
60°-70°	1350.9	21.0
70°-80°	729.6	11.4
80°-90°	59.4	0.9
90°-100°	4.7	0.1
100°-110°	67.7	1.1
110°-120°	150.2	2.3
120°-130°	219.7	3.4
130°-140°	260.7	4.1
140°-150°	264.3	4.1
150°-160°	226.8	3.5
160°-170°	152.2	2.4
170°-180°	53.3	0.8
0°-90°	5021.3	78.2
0°-180°	6421.0	100.0



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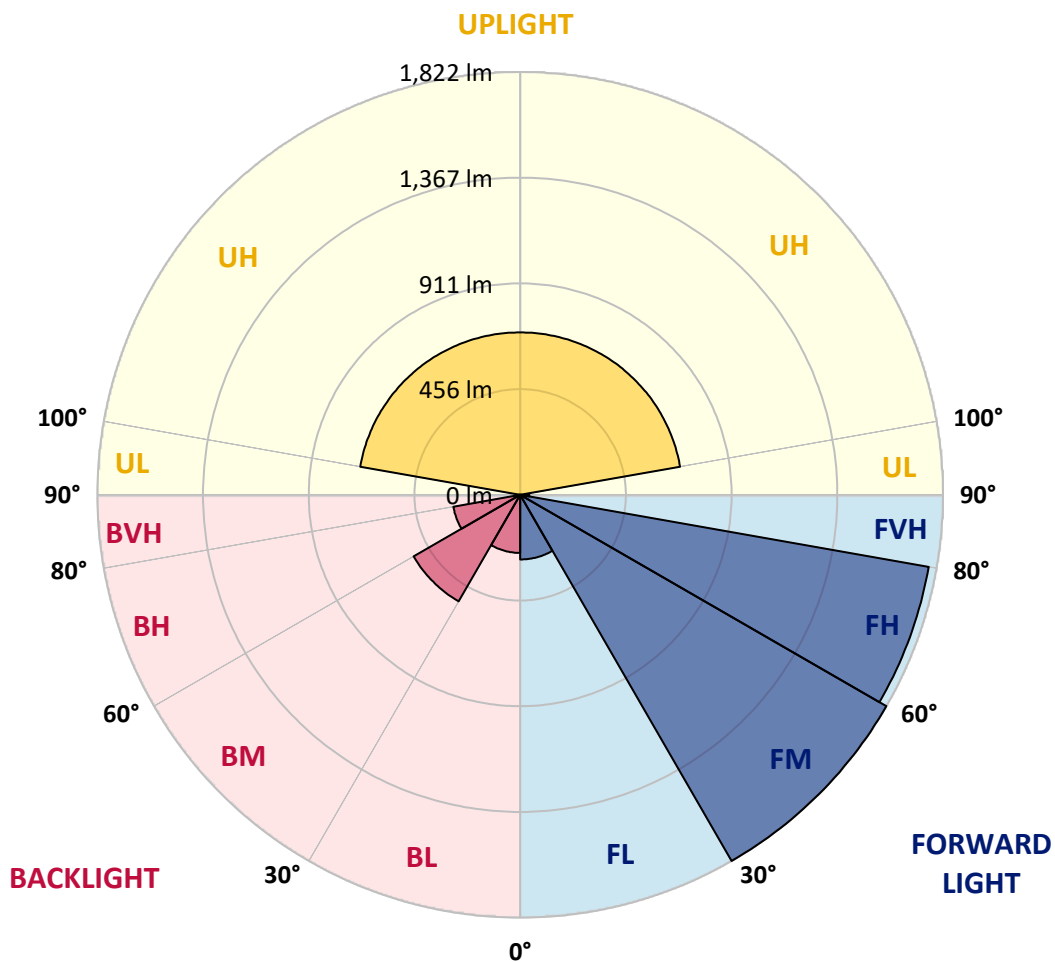
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	278.6	4.3			
FM	(30°-60°)	1822.4	28.4			
FH	(60°-80°)	1788.0	27.8			G1/1800
FVH	(80°-90°)	39.1	0.6			G1/100
BL	(0°-30°)	250.4	3.9	B1/500		
BM	(30°-60°)	530.1	8.3	B1/1000		
BH	(60°-80°)	292.4	4.6	B1/500		G1/500
BVH	(80°-90°)	20.3	0.3			G1/100
UL	(90°-100°)	4.7	0.1		U1/10	
UH	(100°-180°)	699.9	10.9		U4/1000	

BUG Rating: B1-U5-G1

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47.5°	50°
0°	648.7	648.7	648.7	648.7	648.7	648.7	648.7	648.7	648.7	648.7	648.7
2.5°	648.7	647.0	645.3	645.3	645.3	643.6	638.8	640.4	645.3	642.0	647.0
5°	647.0	643.6	642.0	642.0	642.0	637.1	635.4	633.8	643.6	635.4	642.0
7.5°	628.7	628.7	625.4	628.7	632.0	627.1	623.9	625.4	633.8	625.4	633.8
10°	615.5	612.1	610.5	610.5	613.8	607.3	603.9	607.3	617.1	607.3	618.8
12.5°	610.5	612.1	607.3	607.3	605.5	597.2	597.2	597.2	605.5	597.2	607.3
15°	618.8	617.1	612.1	608.8	603.9	597.2	595.6	597.2	603.9	593.9	605.5
17.5°	630.4	630.4	622.2	613.8	608.8	602.2	602.2	598.9	603.9	597.2	605.5
20°	660.3	655.3	643.6	630.4	617.1	613.8	607.3	607.3	610.5	603.9	608.8
22.5°	711.6	706.8	686.8	661.9	640.4	632.0	628.7	627.1	623.9	620.5	620.5
25°	779.7	771.5	748.2	718.4	681.8	675.3	668.6	663.6	652.0	652.0	643.6
27.5°	852.7	844.5	819.5	786.4	741.6	731.6	723.3	716.7	696.7	696.7	681.8
30°	935.7	925.7	895.9	859.4	807.9	804.6	793.0	783.1	756.6	754.8	734.9
32.5°	1032.0	1018.6	988.8	940.6	885.9	887.5	869.3	862.7	827.9	829.6	802.9
35°	1141.4	1126.5	1096.7	1033.6	977.2	982.2	965.6	953.9	910.8	910.8	882.6
37.5°	1257.5	1257.5	1219.4	1146.3	1078.3	1089.9	1070.0	1058.5	1015.4	1021.9	977.2
40°	1386.9	1395.2	1353.7	1270.8	1201.1	1206.2	1191.2	1177.9	1126.5	1138.2	1089.9
42.5°	1523.0	1537.9	1501.3	1415.1	1337.1	1353.7	1328.9	1315.6	1260.8	1285.7	1229.3
45°	1720.3	1723.7	1655.7	1572.8	1508.1	1523.0	1488.1	1483.1	1415.1	1441.7	1385.3
47.5°	1844.8	1836.6	1786.8	1737.1	1698.9	1728.7	1697.2	1688.8	1610.9	1629.2	1549.5
50°	1929.4	1934.4	1896.2	1891.2	1897.8	1954.4	1949.3	1932.7	1839.8	1826.5	1727.0
52.5°	2005.7	1984.2	1977.5	2024.0	2095.4	2161.7	2188.2	2166.6	2065.5	2028.9	1932.7
55°	1992.5	1960.9	1995.8	2108.6	2249.6	2352.5	2355.7	2340.8	2249.6	2234.6	2130.2
57.5°	1902.9	1909.4	1980.9	2141.8	2380.7	2486.9	2505.1	2486.9	2412.2	2425.4	2339.2
60°	1778.5	1791.7	1904.6	2111.9	2485.3	2576.4	2584.7	2606.3	2556.6	2591.4	2531.6
62.5°	1592.7	1610.9	1755.2	2037.3	2412.2	2548.2	2624.6	2674.3	2664.4	2744.1	2712.5
65°	1463.2	1463.2	1604.2	1951.0	2340.8	2520.0	2634.5	2727.4	2740.7	2866.7	2855.2
67.5°	1222.8	1230.9	1352.1	1710.5	2254.6	2457.0	2629.5	2787.1	2866.7	3065.8	3075.8
70°	846.1	852.7	932.4	1221.1	1821.7	1994.1	2248.0	2505.1	2744.1	3044.3	3200.2
71°	633.8	642.0	720.0	973.9	1542.9	1685.6	1949.3	2216.4	2516.7	2906.6	3082.4
72.5°	310.3	315.2	391.5	625.4	1073.4	1255.9	1408.5	1664.0	1982.5	2428.7	2677.7
75°	144.4	146.0	162.6	225.7	409.8	487.8	555.8	720.0	917.3	1309.0	1610.9
77.5°	106.2	106.2	116.2	147.6	212.4	215.6	212.4	217.3	262.1	375.0	564.0
80°	78.0	78.0	84.6	99.5	141.0	141.0	136.0	137.7	132.7	137.7	155.9
82.5°	51.5	51.5	54.8	59.7	86.2	86.2	82.9	82.9	79.6	78.0	84.6
85°	29.8	31.5	33.1	28.2	36.5	34.9	31.5	34.9	33.1	29.8	36.5
87.5°	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	1.7	0.0	1.7
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°	2.0	2.0	2.0	3.0	4.0	5.1	6.4	7.6	8.8	9.8	10.8
100°	7.8	7.8	9.8	13.7	21.6	23.5	25.5	27.5	29.5	29.9	30.5
102.5°	27.5	27.5	31.4	37.3	44.2	45.4	46.6	47.9	49.0	49.2	49.6
105°	53.0	53.0	55.0	59.8	64.8	65.8	66.7	67.7	68.7	68.9	69.2
107.5°	76.5	75.5	78.5	82.5	86.3	87.1	87.9	88.6	89.3	89.8	90.3



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CANDELA DISTRIBUTION (continued):

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

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CANDELA DISTRIBUTION (continued):

	52.5°	55°	57°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°
0°	648.7	648.7	648.7	648.7	648.7	648.7	648.7	648.7	648.7	648.7	648.7
2.5°	640.4	645.3	645.3	638.8	643.6	638.8	642.0	637.1	642.0	633.8	643.6
5°	635.4	640.4	640.4	630.4	640.4	630.4	638.8	627.1	638.8	625.4	638.8
7.5°	622.2	633.8	633.8	620.5	632.0	622.2	632.0	620.5	630.4	615.5	632.0
10°	607.3	618.8	620.5	607.3	620.5	608.8	623.9	608.8	623.9	607.3	625.4
12.5°	597.2	610.5	613.8	598.9	615.5	600.6	618.8	602.2	618.8	600.6	622.2
15°	595.6	607.3	610.5	597.2	612.1	595.6	617.1	597.2	618.8	598.9	623.9
17.5°	597.2	607.3	610.5	595.6	610.5	597.2	615.5	598.9	618.8	600.6	623.9
20°	602.2	608.8	608.8	600.6	612.1	600.6	615.5	598.9	620.5	603.9	625.4
22.5°	617.1	618.8	618.8	612.1	618.8	610.5	622.2	610.5	625.4	612.1	632.0
25°	642.0	640.4	637.1	635.4	637.1	632.0	638.8	630.4	645.3	633.8	653.7
27.5°	685.1	678.5	675.3	675.3	673.5	675.3	675.3	671.9	678.5	675.3	688.6
30°	738.2	726.7	721.7	726.7	720.0	726.7	725.0	723.3	730.0	726.7	738.2
32.5°	807.9	788.0	784.7	794.7	781.3	793.0	783.1	788.0	793.0	796.3	802.9
35°	889.2	866.0	862.7	872.6	857.7	874.3	862.7	869.3	872.6	881.0	885.9
37.5°	985.4	957.2	952.2	965.6	945.6	963.9	947.4	967.1	962.3	973.9	978.8
40°	1101.6	1068.4	1056.8	1075.0	1051.8	1066.7	1050.2	1071.7	1066.7	1089.9	1094.9
42.5°	1244.2	1196.1	1184.5	1202.8	1168.0	1172.8	1159.6	1184.5	1181.2	1212.7	1217.7
45°	1391.9	1333.8	1317.3	1335.5	1295.6	1305.7	1285.7	1312.2	1310.5	1335.5	1355.5
47.5°	1556.1	1484.8	1463.2	1483.1	1435.0	1446.6	1426.8	1455.0	1456.6	1484.8	1504.8
50°	1727.0	1652.3	1624.1	1642.4	1597.6	1605.9	1586.0	1620.8	1619.1	1657.4	1672.3
52.5°	1912.9	1836.6	1814.9	1823.2	1770.2	1780.1	1763.6	1806.6	1796.7	1820.0	1849.8
55°	2118.6	2030.6	2005.7	2030.6	1967.6	1980.9	1959.3	1999.1	1982.5	2012.3	2020.6
57.5°	2329.2	2243.0	2223.0	2241.3	2181.6	2191.5	2163.4	2196.5	2183.2	2203.1	2216.4
60°	2553.3	2475.2	2455.3	2475.2	2417.2	2418.9	2370.6	2405.5	2385.7	2410.5	2405.5
62.5°	2767.2	2700.8	2695.8	2724.1	2651.1	2642.8	2584.7	2609.7	2581.4	2598.0	2578.0
65°	2949.8	2911.6	2918.1	2941.4	2876.7	2856.8	2790.5	2803.7	2762.3	2762.3	2737.3
67.5°	3188.6	3147.1	3147.1	3167.1	3085.8	3034.4	2943.0	2931.5	2863.4	2850.1	2792.1
70°	3387.7	3399.3	3386.0	3402.6	3306.4	3201.9	3080.7	3022.7	2933.1	2889.9	2821.9
71°	3316.4	3382.7	3405.9	3419.2	3339.6	3235.1	3108.9	3034.4	2948.1	2889.9	2816.9
72.5°	2992.8	3153.8	3244.9	3244.9	3255.0	3188.6	3067.5	2986.2	2888.3	2812.1	2744.1
75°	2096.9	2359.1	2476.9	2463.6	2549.9	2579.8	2589.7	2554.9	2500.2	2390.6	2342.5
77.5°	934.0	1230.9	1408.5	1410.2	1503.0	1584.3	1649.1	1717.1	1692.1	1639.0	1635.7
80°	212.4	384.9	492.7	497.8	582.3	657.0	701.8	769.8	778.1	701.8	658.6
82.5°	91.3	107.9	122.8	121.1	149.3	179.2	212.4	230.7	222.3	184.2	174.2
85°	38.2	49.8	53.1	49.8	61.4	68.0	79.6	81.3	94.5	84.6	89.7
87.5°	0.0	1.7	1.7	0.0	3.3	0.0	3.3	1.7	8.4	3.3	9.9
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°	11.8	12.8	11.6	11.3	9.8	8.4	6.8	6.4	5.9	5.4	4.9
100°	30.9	31.4	31.0	30.9	30.5	29.9	29.5	28.7	27.9	27.3	26.5
102.5°	49.9	50.0	49.9	49.9	49.6	49.2	49.0	48.6	48.1	47.6	47.1
105°	69.5	69.7	69.7	69.7	69.7	69.7	69.7	69.2	68.7	68.2	67.7
107.5°	90.8	91.3	91.1	91.1	90.8	90.5	90.3	90.1	89.8	89.5	89.3



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CANDELA DISTRIBUTION (continued):

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



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CANDELA DISTRIBUTION (continued):

	77.5°	80°	82.5°	85°	87.5°	90°	95°	100°	102.5°	105°	107.5°
0°	648.7	648.7	648.7	648.7	648.7	648.7	648.7	648.7	648.7	648.7	648.7
2.5°	637.1	645.3	637.1	645.3	640.4	645.3	643.6	645.3	637.1	645.3	635.4
5°	625.4	638.8	627.1	637.1	627.1	638.8	638.8	638.8	627.1	640.4	628.7
7.5°	615.5	630.4	615.5	630.4	620.5	632.0	632.0	637.1	623.9	638.8	622.2
10°	605.5	623.9	605.5	627.1	610.5	628.7	630.4	633.8	615.5	635.4	618.8
12.5°	600.6	623.9	602.2	623.9	603.9	628.7	630.4	633.8	613.8	638.8	617.1
15°	600.6	625.4	602.2	625.4	603.9	628.7	632.0	635.4	613.8	640.4	617.1
17.5°	600.6	625.4	605.5	627.1	607.3	630.4	633.8	637.1	617.1	640.4	620.5
20°	605.5	628.7	608.8	632.0	612.1	635.4	637.1	642.0	620.5	642.0	623.9
22.5°	617.1	637.1	620.5	642.0	627.1	645.3	647.0	652.0	635.4	653.7	638.8
25°	637.1	658.6	645.3	661.9	653.7	668.6	671.9	671.9	665.3	676.9	671.9
27.5°	678.5	695.1	685.1	700.0	695.1	706.8	706.8	708.4	713.3	716.7	721.7
30°	731.6	743.3	739.9	748.2	749.8	756.6	756.6	766.4	786.4	766.4	764.7
32.5°	802.9	809.6	811.3	814.5	821.2	826.2	832.8	844.5	861.0	814.5	799.6
35°	890.8	892.6	897.6	902.4	914.1	917.3	939.0	930.7	930.7	857.7	826.2
37.5°	987.1	987.1	1000.4	1000.4	1028.6	1030.3	1051.8	1008.7	983.8	889.2	842.8
40°	1108.1	1106.5	1121.4	1124.8	1162.9	1164.7	1161.3	1066.7	1013.6	897.6	834.4
42.5°	1236.0	1240.9	1260.8	1267.5	1295.6	1305.7	1264.2	1106.5	1026.9	892.6	806.3
45°	1375.3	1385.3	1410.2	1428.5	1458.3	1446.6	1347.1	1124.8	1012.0	862.7	751.5
47.5°	1527.9	1537.9	1557.8	1592.7	1605.9	1592.7	1415.1	1131.4	988.8	816.2	671.9
50°	1682.3	1698.9	1727.0	1776.8	1783.5	1750.3	1498.0	1156.3	970.5	768.1	580.7
52.5°	1856.4	1873.1	1906.2	1989.2	1972.6	1904.6	1596.0	1202.8	975.5	738.2	502.7
55°	2040.6	2063.8	2128.5	2209.8	2173.3	2067.1	1703.7	1270.8	995.4	706.8	416.5
57.5°	2234.6	2259.6	2344.1	2440.3	2369.1	2226.4	1813.3	1323.9	1005.3	642.0	321.9
60°	2427.1	2462.0	2571.5	2651.1	2540.0	2362.5	1911.1	1358.8	978.8	519.3	248.8
62.5°	2603.0	2659.4	2782.1	2825.3	2647.8	2448.7	1964.2	1333.8	871.0	358.3	200.7
65°	2727.4	2800.4	2880.1	2875.0	2627.8	2420.6	1924.5	1219.4	648.7	237.2	170.9
67.5°	2780.5	2848.5	2866.7	2782.1	2485.3	2296.1	1781.8	982.2	373.2	177.5	149.3
70°	2800.4	2858.5	2755.6	2551.5	2206.5	1990.8	1456.6	625.4	204.1	144.4	129.4
71°	2792.1	2820.3	2624.6	2385.7	2028.9	1803.3	1277.4	476.1	174.2	134.4	122.8
72.5°	2679.3	2639.5	2337.5	2072.1	1720.3	1491.5	993.7	300.2	142.7	121.1	114.4
75°	2189.9	2010.8	1720.3	1469.9	1171.3	937.3	539.2	154.3	114.4	104.6	99.5
77.5°	1431.7	1275.8	1036.8	842.8	640.4	486.2	220.6	106.2	91.3	87.9	86.2
80°	511.0	409.8	310.3	272.1	205.7	169.2	107.9	81.3	71.3	73.0	71.3
82.5°	144.4	132.7	114.4	106.2	93.0	91.3	69.7	61.4	56.4	59.7	58.1
85°	71.3	61.4	44.7	43.1	33.1	38.2	34.9	41.5	36.5	38.2	34.9
87.5°	5.0	6.6	1.7	5.0	0.0	5.0	6.6	8.4	1.7	6.6	5.0
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°	4.7	4.4	4.1	4.0	4.0	4.0	4.0	4.4	4.7	4.9	5.4
100°	26.3	26.1	25.7	25.5	25.1	24.5	25.5	26.1	26.3	26.5	27.3
102.5°	47.3	47.6	47.9	48.1	47.6	47.1	48.1	47.6	47.3	47.1	47.6
105°	68.2	68.7	69.2	69.7	68.7	67.7	69.7	68.7	68.2	67.7	68.2
107.5°	89.5	89.8	90.1	90.3	89.8	89.3	90.3	89.8	89.5	89.3	89.5



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REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	77.5°	80°	82.5°	85°	87.5°	90°	95°	100°	102.5°	105°	107.5°	
110°	111.1	111.4	111.7	111.9	111.4	110.9	111.9	111.4	111.1	110.9	111.1	0°
112.5°	132.9	133.5	133.9	134.5	133.5	132.5	134.5	133.5	132.9	132.5	132.7	2.5°
115°	155.6	156.0	156.6	157.0	156.6	156.0	157.0	156.0	155.6	155.0	155.0	5°
117.5°	177.1	177.7	178.1	178.7	177.7	176.7	178.7	177.7	177.1	176.7	176.9	7.5°
120°	200.7	201.2	201.7	202.2	201.2	200.2	202.2	201.2	200.7	200.2	200.2	10°
122.5°	225.7	226.7	227.7	228.7	228.2	227.7	228.7	226.7	225.7	224.8	224.6	12.5°
125°	250.1	250.8	251.4	252.2	251.7	251.3	252.2	250.8	250.1	249.3	249.3	15°
127.5°	273.6	274.3	275.0	275.8	274.3	272.8	275.8	274.3	273.6	272.8	272.6	17.5°
130°	297.2	297.9	298.6	299.3	298.3	297.4	299.3	297.9	297.2	296.4	296.2	20°
132.5°	320.8	321.4	322.1	322.9	322.0	321.0	322.9	321.4	320.8	320.0	319.8	22.5°
135°	343.1	343.5	344.1	344.5	344.1	343.5	344.5	343.5	343.1	342.5	342.3	25°
137.5°	364.2	365.1	366.1	367.0	366.1	365.1	367.0	365.1	364.2	363.2	362.9	27.5°
140°	385.7	386.7	387.7	388.7	387.7	386.7	388.7	386.7	385.7	384.7	384.3	30°
142.5°	406.1	406.8	407.5	408.3	407.8	407.3	408.3	406.8	406.1	405.3	405.1	32.5°
145°	426.8	427.4	428.1	428.9	428.0	427.0	428.9	427.4	426.8	426.0	425.8	35°
147.5°	445.4	446.1	446.7	447.5	446.1	444.6	447.5	446.1	445.4	444.6	444.4	37.5°
150°	461.3	462.3	463.3	464.2	462.8	461.3	464.2	462.3	461.3	460.3	460.3	40°
152.5°	477.8	478.4	479.2	480.0	478.4	477.0	480.0	478.4	477.8	477.0	477.0	42.5°
155°	495.4	496.1	496.9	497.6	496.7	495.7	497.6	496.1	495.4	494.7	494.4	45°
157.5°	509.6	510.9	512.1	513.3	511.9	510.3	513.3	510.9	509.6	508.4	508.2	47.5°
160°	520.9	521.6	522.4	523.2	522.2	521.2	523.2	521.6	520.9	520.2	520.2	50°
162.5°	528.6	529.0	529.6	530.0	528.6	527.0	530.0	529.0	528.6	528.0	528.6	52.5°
165°	538.4	538.8	539.3	539.8	538.8	537.8	539.8	538.8	538.4	537.8	538.4	55°
167.5°	549.7	550.6	551.6	552.5	551.6	550.6	552.5	550.6	549.7	548.7	548.4	57.5°
170°	556.7	557.9	559.3	560.5	559.5	558.5	560.5	557.9	556.7	555.5	555.1	60°
172.5°	558.3	558.9	559.6	560.5	558.9	557.5	560.5	558.9	558.3	557.5	557.3	62.5°
175°	558.3	558.9	559.6	560.5	558.9	557.5	560.5	558.9	558.3	557.5	557.9	65°
177.5°	564.1	564.9	565.6	566.3	564.9	563.3	566.3	564.9	564.1	563.3	563.3	67.5°
180°	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	70°
												71°
												72.5°
												75°
												77.5°
												80°
												82.5°
												85°
												87.5°
												90°
												92.5°
												95°
												97.5°
												100°
												102.5°
												105°
												107.5°

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DISTRIBUTION (continued):

CANDELA DISTRIBUTION

110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°	110°	110°
648.7	648.7	648.7	648.7	648.7	648.7	648.7	648.7	648.7	648.7	648.7	110°	111.4
647.0	640.4	648.7	640.4	648.7	643.6	648.7	643.6	648.7	652.0	652.0	112.5°	132.9
643.6	632.0	647.0	638.8	648.7	640.4	647.0	642.0	650.4	653.7	657.0	115°	155.0
642.0	630.4	645.3	633.8	648.7	637.1	647.0	640.4	650.4	653.7	660.3	117.5°	177.1
640.4	625.4	645.3	628.7	647.0	635.4	647.0	637.1	648.7	652.0	653.7	120°	200.2
640.4	623.9	645.3	627.1	647.0	630.4	645.3	630.4	647.0	645.3	640.4	122.5°	224.3
642.0	620.5	645.3	623.9	645.3	625.4	643.6	623.9	640.4	635.4	632.0	125°	249.3
642.0	620.5	643.6	622.2	642.0	623.9	638.8	620.5	635.4	633.8	628.7	127.5°	272.4
645.3	623.9	643.6	628.7	643.6	625.4	637.1	620.5	632.0	622.2	602.2	130°	295.9
655.3	640.4	655.3	640.4	647.0	630.4	635.4	615.5	613.8	597.2	565.8	132.5°	319.4
678.5	671.9	668.6	650.4	645.3	623.9	617.1	593.9	585.7	560.7	517.6	135°	342.1
708.4	693.4	673.5	652.0	630.4	603.9	585.7	567.4	549.1	517.6	462.9	137.5°	362.6
728.3	706.8	665.3	635.4	595.6	573.9	542.5	522.5	496.0	456.2	403.1	140°	383.8
741.6	708.4	645.3	610.5	557.4	529.2	487.8	466.2	428.0	389.9	351.7	142.5°	404.9
744.9	701.8	618.8	580.7	511.0	479.4	424.7	401.5	365.0	338.4	323.5	145°	425.4
731.6	678.5	577.3	527.6	451.3	414.7	363.4	346.7	325.2	315.2	308.6	147.5°	444.1
705.1	633.8	512.7	454.5	376.6	348.5	321.9	321.9	310.3	305.2	293.7	150°	460.3
657.0	567.4	429.7	373.2	320.2	315.2	300.2	307.0	298.7	295.4	278.7	152.5°	477.0
582.3	472.8	346.7	313.6	288.6	291.9	282.1	288.6	283.7	282.1	262.1	155°	494.2
486.2	376.6	291.9	280.5	263.8	268.8	260.5	268.8	263.8	265.4	250.4	157.5°	507.9
388.2	305.2	258.8	252.2	240.6	243.9	238.9	247.2	245.6	252.2	243.9	160°	520.2
310.3	260.5	230.7	225.7	219.0	220.6	219.0	227.3	229.0	242.3	242.3	162.5°	529.0
257.2	223.9	207.4	205.7	199.1	200.7	202.4	210.7	217.3	233.9	242.3	165°	538.8
220.6	200.7	189.1	187.5	184.2	185.8	189.1	199.1	205.7	227.3	245.6	167.5°	548.1
194.1	182.4	174.2	174.2	170.9	174.2	177.5	187.5	195.8	220.6	238.9	170°	554.5
174.2	165.8	161.0	162.6	161.0	164.2	167.5	177.5	187.5	210.7	229.0	172.5°	556.9
155.9	150.9	147.6	149.3	149.3	154.3	157.7	167.5	175.9	197.4	220.6	175°	558.5
141.0	137.7	136.0	137.7	139.3	144.4	149.3	155.9	162.6	182.4	209.0	177.5°	563.3
129.4	126.1	126.1	126.1	127.8	132.7	139.3	142.7	149.3	170.9	195.8	180°	565.3
122.8	121.1	121.1	121.1	122.8	127.8	134.4	137.7	144.4	165.8	189.1		
114.4	114.4	116.2	114.4	117.8	119.5	126.1	129.4	137.7	159.3	180.8		
101.1	101.1	102.9	102.9	106.2	106.2	111.2	114.4	124.4	142.7	162.6		
89.7	89.7	93.0	91.3	91.3	87.9	94.5	97.8	106.2	124.4	144.4		
76.4	74.6	78.0	73.0	71.3	68.0	73.0	78.0	91.3	102.9	106.2		
59.7	54.8	56.4	51.5	51.5	48.1	53.1	54.8	63.0	74.6	81.3		
36.5	29.8	33.1	28.2	31.5	28.2	29.8	31.5	38.2	46.4	44.7		
8.4	5.0	6.6	1.7	5.0	0.0	5.0	1.7	5.0	1.7	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		
1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
5.9	6.4	6.8	8.4	9.8	11.3	12.8	11.8	10.8	8.8	4.0		
27.9	28.7	29.5	29.9	30.5	30.9	31.4	30.9	30.5	29.5	21.6		
48.1	48.6	49.0	49.2	49.6	49.9	50.0	49.9	49.6	49.0	44.2		
68.7	69.2	69.7	69.7	69.7	69.7	69.7	69.5	69.2	68.7	64.8		
89.8	90.1	90.3	90.5	90.8	91.1	91.3	90.8	90.3	89.3	86.3		

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REPORT NUMBER: P271608
 CATALOG NUMBER: ISS-AF-10

TION (continued):

CANDELA DISTRIBUTION (con

112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°		155°	165°
111.7	111.9	111.9	111.9	111.9	111.9	111.4	110.9	110.0	108.0	0°	648.7	648.7
133.3	133.5	133.5	133.5	133.5	133.5	132.9	132.5	131.5	129.5	2.5°	655.3	653.7
155.0	155.0	155.0	155.0	155.0	155.0	154.6	154.1	153.1	151.2	5°	663.6	663.6
177.4	177.7	177.4	177.1	176.9	176.7	176.4	176.2	175.7	173.7	7.5°	665.3	668.6
200.2	200.2	200.2	200.2	200.2	200.2	199.7	199.2	198.3	197.3	10°	653.7	650.4
223.9	223.8	223.8	223.8	223.8	223.8	223.6	223.3	222.8	221.8	12.5°	635.4	632.0
249.3	249.3	249.1	248.8	248.5	248.3	248.1	247.8	247.3	246.3	15°	633.8	632.0
272.1	271.8	272.1	272.4	272.6	272.8	272.4	271.8	270.9	269.0	17.5°	622.2	613.8
295.6	295.5	295.5	295.5	295.5	295.5	294.9	294.5	293.5	292.5	20°	589.0	573.9
319.2	319.0	319.0	319.0	319.0	319.0	318.2	317.6	316.0	315.0	22.5°	542.5	520.9
341.7	341.5	341.5	341.5	341.5	341.5	340.7	340.1	338.6	338.6	25°	486.2	456.2
362.4	362.2	362.2	362.2	362.2	362.2	361.7	361.2	360.2	360.2	27.5°	424.7	394.9
383.3	382.8	382.8	382.8	382.8	382.8	382.6	382.3	381.8	380.8	30°	376.6	353.3
404.6	404.3	404.3	404.3	404.3	404.3	403.9	403.4	402.4	402.4	32.5°	341.7	328.5
425.2	425.0	425.2	425.4	425.8	426.0	425.4	425.0	424.0	423.0	35°	313.6	305.2
443.9	443.7	444.1	444.6	445.1	445.6	445.4	445.1	444.6	443.7	37.5°	295.4	282.1
460.3	460.3	460.8	461.3	461.8	462.3	462.1	461.8	461.3	460.3	40°	277.0	260.5
477.0	477.0	477.2	477.4	477.8	478.0	477.8	477.4	477.0	476.0	42.5°	260.5	243.9
493.9	493.7	493.9	494.2	494.4	494.7	494.4	494.2	493.7	493.7	45°	243.9	232.2
507.6	507.5	507.9	508.4	508.9	509.4	509.4	509.4	509.4	509.4	47.5°	235.5	225.7
520.2	520.2	520.7	521.2	521.6	522.2	522.2	522.2	522.2	522.2	50°	232.2	222.3
529.6	530.0	530.4	531.0	531.4	532.0	531.8	531.4	531.0	531.0	52.5°	235.5	227.3
539.3	539.8	540.6	541.3	541.9	542.8	542.6	542.3	541.8	541.8	55°	242.3	237.2
547.9	547.7	548.1	548.7	549.1	549.7	549.7	549.7	549.7	550.6	57.5°	235.5	227.3
554.1	553.5	553.7	554.1	554.3	554.5	554.7	555.1	555.5	556.5	60°	220.6	207.4
556.7	556.5	556.9	557.5	557.9	558.5	558.3	557.9	557.5	558.5	62.5°	210.7	197.4
558.9	559.5	560.3	560.9	561.6	562.4	562.2	561.9	561.4	561.4	65°	202.4	192.5
563.3	563.3	564.1	564.9	565.6	566.3	566.3	566.3	566.3	567.3	67.5°	194.1	184.2
565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	70°	184.2	174.2
										71°	179.2	167.5
										72.5°	170.9	157.7
										75°	154.3	141.0
										77.5°	127.8	112.7
										80°	97.8	87.9
										82.5°	73.0	64.7
										85°	38.2	29.8
										87.5°	0.0	0.0
										90°	0.0	0.0
										92.5°	0.0	0.0
										95°	1.0	1.0
										97.5°	3.0	2.0
										100°	13.7	9.8
										102.5°	37.3	31.4
										105°	59.8	55.0
										107.5°	82.5	78.5

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175°	180°
648.7	648.7
655.3	653.7
665.3	666.9
671.9	670.2
653.7	650.4
635.4	635.4
633.8	633.8
610.5	608.8
570.7	565.8
514.3	509.2
444.6	437.9
383.3	383.3
341.7	341.7
320.2	321.9
300.2	301.9
270.4	270.4
245.6	245.6
233.9	232.2
223.9	222.3
217.3	215.6
210.7	210.7
205.7	205.7
205.7	202.4
207.4	202.4
204.1	200.7
204.1	202.4
207.4	204.1
207.4	200.7
189.1	177.5
179.2	169.2
161.0	154.3
137.7	136.0
107.9	106.2
87.9	82.9
63.0	54.8
25.0	25.0
0.0	0.0
0.0	0.0
0.0	0.0
1.0	1.0
2.0	2.0
7.8	7.8
27.5	27.5
53.0	53.0
75.5	76.5

CANDELA DISTRIBUTION (continued):

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

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

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