

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: P227686

Luminaire Tested: **ISS-AF-1000-LED-E1-T3-8030-ULG**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P227686  
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-T3-8030-ULG  
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE WITH UPLIGHT  
LIGHT SQUARE WITH ACCULED OPTICS-TYPE III, WITH UPLIGHT GLOW  
Light Source: (16) 3000K CCT, 80 CRI LEDs and (1) UPLIGHT LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6142.2 lumens  
Efficiency: N/A  
Efficacy: 86.1 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

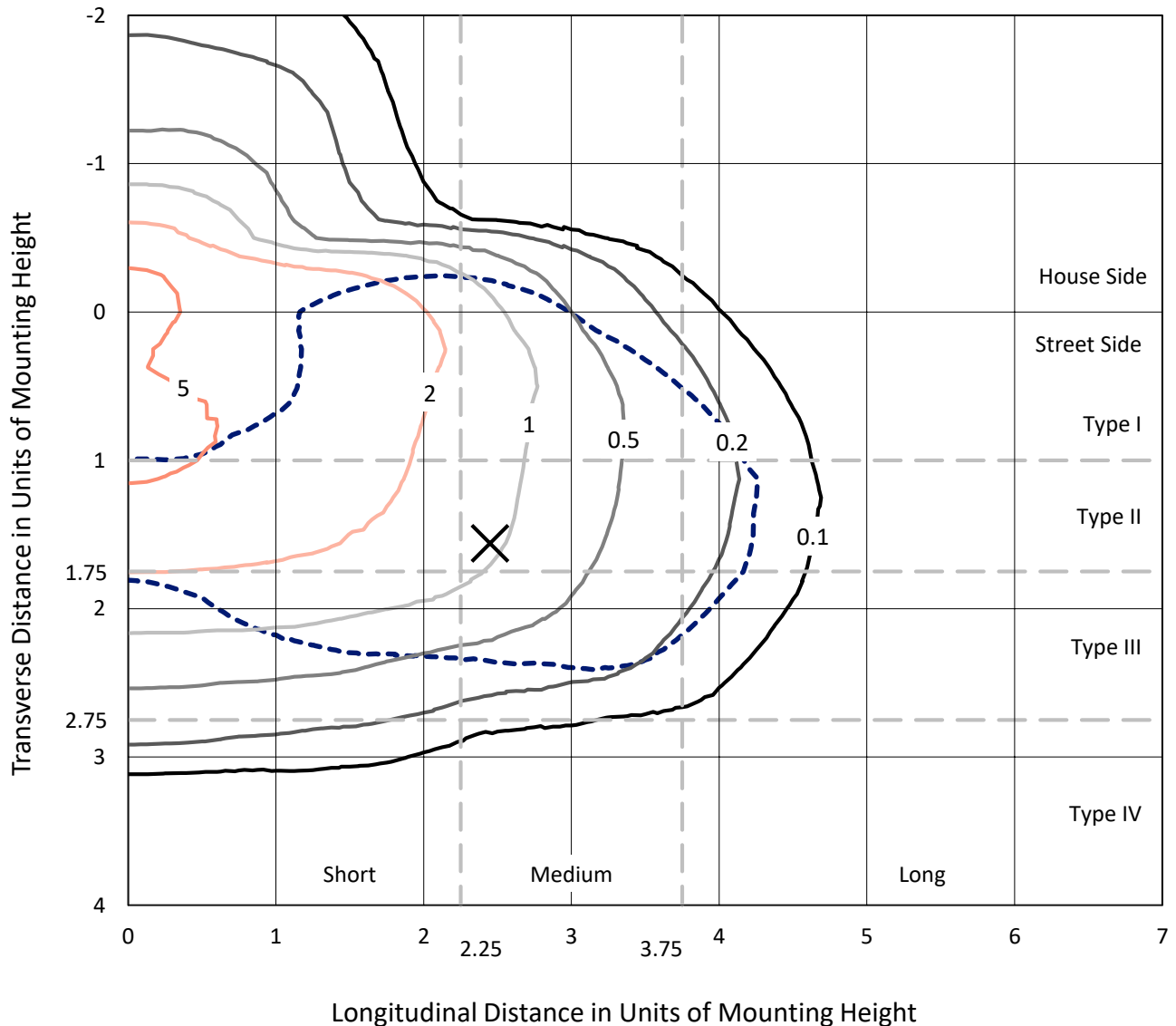


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

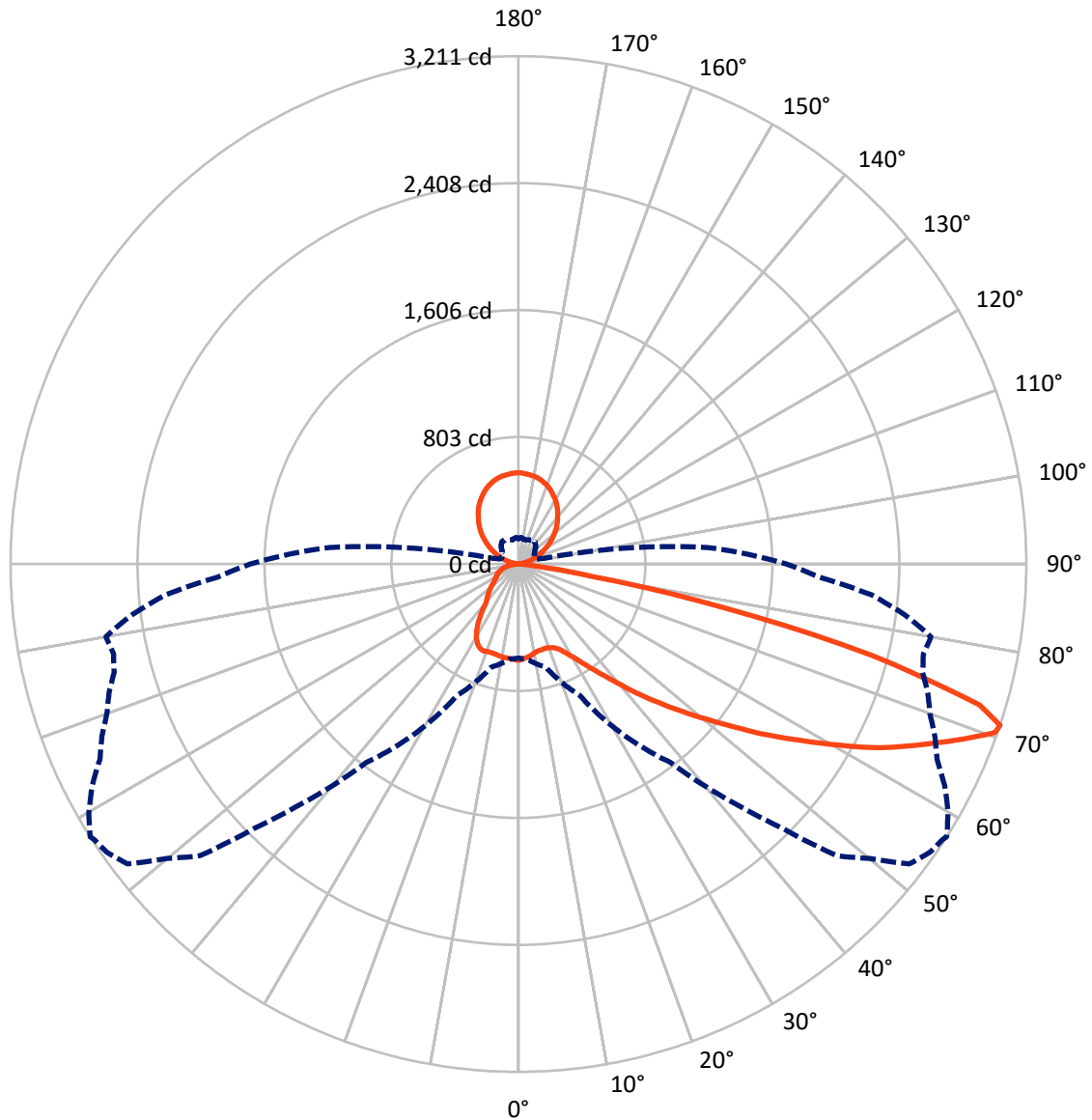


Based on 10 foot mounting height. Maximum calculated value = 6.1 fc  
 Type III - Medium - Non-Cutoff

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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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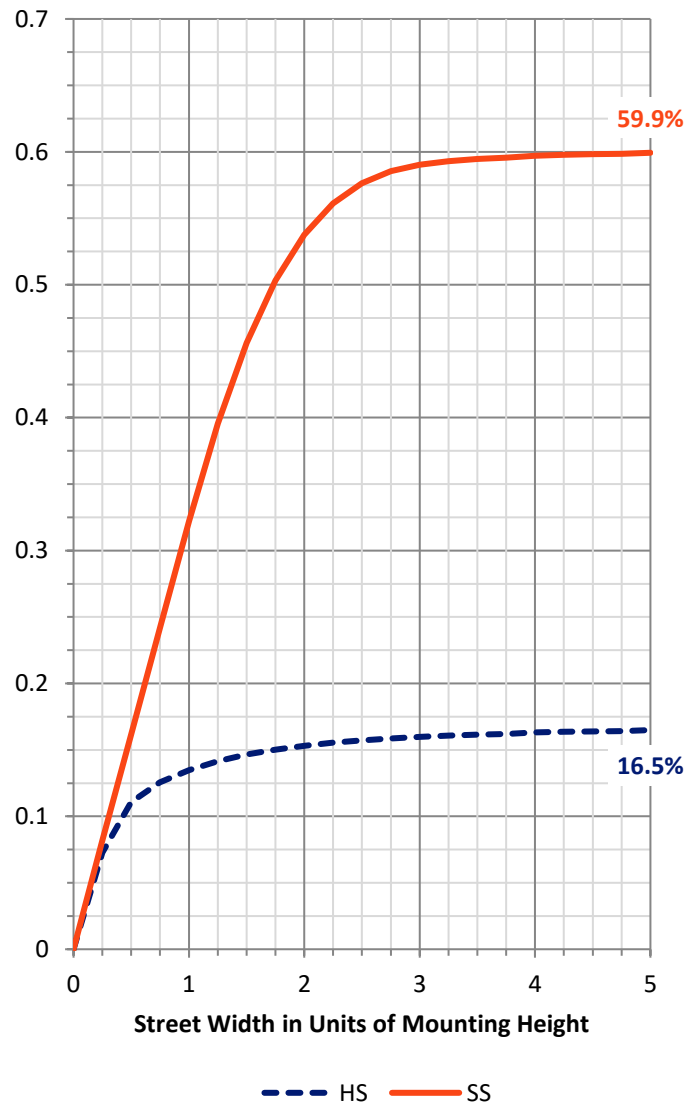
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1026.7	713.1	1739.8
	% Fixture	16.7	11.6	28.3
<b>Street Side</b>	Lumens	3689.3	713.1	4402.4
	% Fixture	60.1	11.6	71.7
<b>Total</b>	Lumens	4716.0	1426.2	6142.2
	% Fixture	76.8	23.2	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	57.3	0.9
10°-20°	165.2	2.7
20°-30°	274.3	4.5
30°-40°	436.6	7.1
40°-50°	709.3	11.5
50°-60°	1063.5	17.3
60°-70°	1268.7	20.7
70°-80°	685.2	11.2
80°-90°	55.8	0.9
90°-100°	4.7	0.1
100°-110°	69.0	1.1
110°-120°	153.0	2.5
120°-130°	223.9	3.6
130°-140°	265.6	4.3
140°-150°	269.3	4.4
150°-160°	231.1	3.8
160°-170°	155.1	2.5
170°-180°	54.3	0.9
0°-90°	4716.0	76.8
0°-180°	6142.2	100.0



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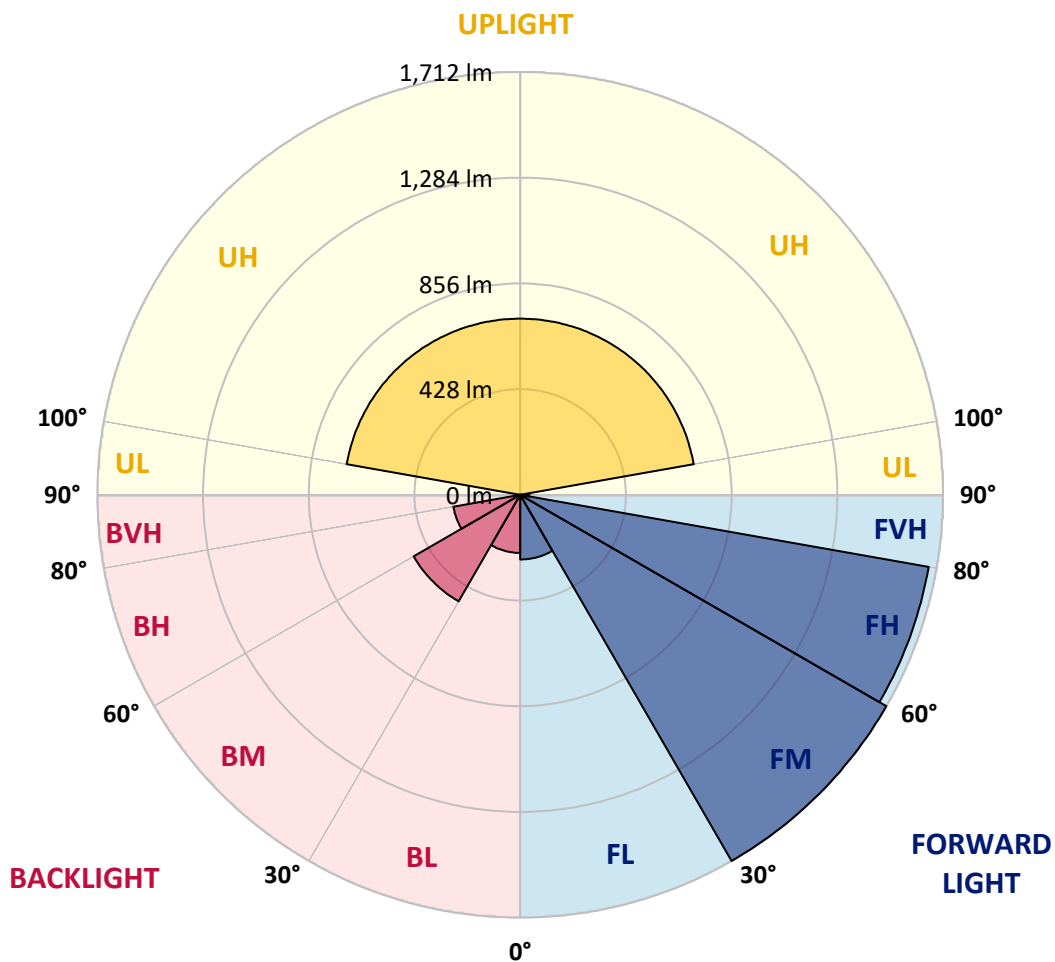
CATALOG NUMBER: ISS-AF-1000-LED-E1-T3-8030-ULG

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	261.6	4.3			
FM	(30°-60°)	1711.6	27.9			
FH	(60°-80°)	1679.3	27.3			G1/1800
FVH	(80°-90°)	36.7	0.6			G1/100
BL	(0°-30°)	235.2	3.8	B1/500		
BM	(30°-60°)	497.8	8.1	B1/1000		
BH	(60°-80°)	274.6	4.5	B1/500		G1/500
BVH	(80°-90°)	19.0	0.3			G1/100
UL	(90°-100°)	4.7	0.1		U1/10	
UH	(100°-180°)	713.1	11.6		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°	609.2	609.2	609.2	609.2	609.2	609.2	609.2	609.2	609.2	609.2	609.2
2.5°	609.2	607.7	606.1	606.1	606.1	604.6	599.9	601.4	606.1	603.0	607.7
5°	607.7	604.6	603.0	603.0	603.0	598.3	596.8	595.2	604.6	596.8	603.0
7.5°	590.5	590.5	587.4	590.5	593.7	589.0	585.9	587.4	595.2	587.4	595.2
10°	578.1	575.0	573.4	573.4	576.5	570.3	567.2	570.3	579.6	570.3	581.2
12.5°	573.4	575.0	570.3	570.3	568.7	560.9	560.9	560.9	568.7	560.9	570.3
15°	581.2	579.6	575.0	571.8	567.2	560.9	559.4	560.9	567.2	557.8	568.7
17.5°	592.1	592.1	584.3	576.5	571.8	565.6	565.6	562.5	567.2	560.9	568.7
20°	620.1	615.5	604.6	592.1	579.6	576.5	570.3	570.3	573.4	567.2	571.8
22.5°	668.4	663.8	645.1	621.7	601.4	593.7	590.5	589.0	585.9	582.7	582.7
25°	732.3	724.5	702.7	674.7	640.4	634.2	627.9	623.3	612.4	612.4	604.6
27.5°	800.9	793.1	769.7	738.6	696.5	687.1	679.4	673.1	654.4	654.4	640.4
30°	878.8	869.4	841.4	807.1	758.8	755.7	744.8	735.4	710.5	709.0	690.3
32.5°	969.2	956.7	928.7	883.5	832.1	833.6	816.5	810.2	777.5	779.1	754.1
35°	1072.0	1058.0	1029.9	970.7	917.7	922.4	906.8	895.9	855.4	855.4	828.9
37.5°	1181.1	1181.1	1145.2	1076.7	1012.8	1023.7	1005.0	994.1	953.6	959.8	917.7
40°	1302.6	1310.4	1271.4	1193.5	1128.1	1132.8	1118.8	1106.3	1058.0	1068.9	1023.7
42.5°	1430.4	1444.4	1410.1	1329.1	1255.9	1271.4	1248.1	1235.6	1184.2	1207.6	1154.6
45°	1615.8	1618.9	1555.0	1477.1	1416.4	1430.4	1397.7	1393.0	1329.1	1354.0	1301.1
47.5°	1732.7	1724.9	1678.1	1631.4	1595.5	1623.6	1594.0	1586.2	1513.0	1530.1	1455.3
50°	1812.1	1816.8	1781.0	1776.3	1782.5	1835.5	1830.8	1815.2	1728.0	1715.5	1622.0
52.5°	1883.8	1863.5	1857.3	1900.9	1967.9	2030.3	2055.2	2034.9	1939.9	1905.6	1815.2
55°	1871.3	1841.7	1874.5	1980.4	2112.8	2209.5	2212.6	2198.5	2112.8	2098.8	2000.7
57.5°	1787.2	1793.4	1860.4	2011.6	2235.9	2335.7	2352.8	2335.7	2265.5	2278.0	2197.0
60°	1670.3	1682.8	1788.8	1983.5	2334.1	2419.8	2427.6	2447.9	2401.1	2433.8	2377.7
62.5°	1495.8	1513.0	1648.5	1913.4	2265.5	2393.3	2465.0	2511.7	2502.4	2577.2	2547.6
65°	1374.3	1374.3	1506.7	1832.4	2198.5	2366.8	2474.3	2561.6	2574.1	2692.5	2681.6
67.5°	1148.4	1156.1	1269.9	1606.5	2117.5	2307.6	2469.7	2617.7	2692.5	2879.5	2888.8
70°	794.7	800.9	875.7	1146.8	1710.8	1872.9	2111.3	2352.8	2577.2	2859.2	3005.7
71°	595.2	603.0	676.2	914.6	1449.1	1583.1	1830.8	2081.7	2363.7	2729.9	2895.0
72.5°	291.4	296.0	367.7	587.4	1008.1	1179.5	1322.9	1562.8	1862.0	2281.1	2514.9
75°	135.6	137.1	152.7	211.9	384.9	458.1	522.0	676.2	861.7	1229.4	1513.0
77.5°	99.7	99.7	109.1	138.7	199.4	202.6	199.4	204.1	246.2	352.1	529.8
80°	73.2	73.2	79.5	93.5	132.4	132.4	127.8	129.3	124.7	129.3	146.5
82.5°	48.3	48.3	51.4	56.1	81.0	81.0	77.9	77.9	74.8	73.2	79.5
85°	28.0	29.6	31.2	26.5	34.3	32.7	29.6	32.7	31.2	28.0	34.3
87.5°	0.0	0.0	0.0	0.0	1.6	0.0	0.0	0.0	1.6	0.0	1.6
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	5.2	6.5	7.8	9.0	10.0	11.0
100°	8.0	8.0	10.0	14.0	22.0	24.0	26.0	28.0	30.0	30.5	31.0
102.5°	28.0	28.0	32.0	38.0	45.0	46.2	47.5	48.8	50.0	50.2	50.5
105°	54.0	54.0	56.0	61.0	66.0	67.0	68.0	69.0	70.0	70.2	70.5
107.5°	78.0	77.0	80.0	84.0	88.0	88.8	89.5	90.2	91.0	91.5	92.0



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47.5°	50°
110°	101.0	102.0	103.0	106.0	110.0	110.5	111.0	111.5	112.0	112.5	113.0
112.5°	124.0	124.0	126.0	129.0	132.0	132.5	133.0	133.5	134.0	134.5	135.0
115°	146.0	147.0	149.0	151.0	154.0	154.5	155.0	155.5	156.0	156.5	157.0
117.5°	169.0	170.0	172.0	174.0	177.0	177.5	178.0	178.5	179.0	179.2	179.5
120°	193.0	195.0	196.0	198.0	201.0	201.2	201.5	201.8	202.0	202.5	203.0
122.5°	219.0	220.0	221.0	223.0	226.0	226.2	226.5	226.8	227.0	227.2	227.5
125°	244.0	246.0	247.0	248.0	251.0	251.2	251.5	251.8	252.0	252.2	252.5
127.5°	267.0	269.0	270.0	272.0	274.0	274.5	275.0	275.5	276.0	276.5	277.0
130°	290.0	292.0	293.0	294.0	298.0	298.2	298.5	298.8	299.0	299.5	300.0
132.5°	313.0	314.0	317.0	318.0	321.0	321.2	321.5	321.8	322.0	322.8	323.5
135°	336.0	337.0	339.0	341.0	345.0	345.0	345.0	345.0	345.0	345.8	346.5
137.5°	359.0	360.0	363.0	364.0	367.0	367.0	367.0	367.0	367.0	367.5	368.0
140°	382.0	383.0	385.0	386.0	388.0	388.2	388.5	388.8	389.0	389.2	389.5
142.5°	404.0	406.0	408.0	407.0	410.0	410.0	410.0	410.0	410.0	410.5	411.0
145°	425.0	426.0	428.0	428.0	431.0	431.2	431.5	431.8	432.0	432.5	433.0
147.5°	444.0	444.0	447.0	448.0	452.0	452.2	452.5	452.8	453.0	453.2	453.5
150°	461.0	462.0	464.0	465.0	469.0	469.2	469.5	469.8	470.0	470.2	470.5
152.5°	479.0	480.0	483.0	482.0	485.0	485.2	485.5	485.8	486.0	486.2	486.5
155°	499.0	500.0	502.0	501.0	503.0	503.0	503.0	503.0	503.0	503.2	503.5
157.5°	513.0	515.0	517.0	516.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0
160°	525.0	527.0	529.0	529.0	532.0	532.0	532.0	532.0	532.0	532.0	532.0
162.5°	535.0	536.0	539.0	538.0	541.0	541.0	541.0	541.0	541.0	541.2	541.5
165°	546.0	547.0	549.0	548.0	552.0	552.0	552.0	552.0	552.0	552.2	552.5
167.5°	555.0	556.0	559.0	558.0	561.0	560.8	560.5	560.2	560.0	560.0	560.0
170°	562.0	563.0	566.0	565.0	567.0	566.8	566.5	566.2	566.0	565.8	565.5
172.5°	565.0	566.0	569.0	567.0	569.0	568.8	568.5	568.2	568.0	568.2	568.5
175°	567.0	569.0	570.0	569.0	572.0	572.0	572.0	572.0	572.0	572.2	572.5
177.5°	572.0	573.0	575.0	574.0	578.0	577.8	577.5	577.2	577.0	577.0	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):**

	52.5°	55°	57°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°
0°	609.2	609.2	609.2	609.2	609.2	609.2	609.2	609.2	609.2	609.2	609.2
2.5°	601.4	606.1	606.1	599.9	604.6	599.9	603.0	598.3	603.0	595.2	604.6
5°	596.8	601.4	601.4	592.1	601.4	592.1	599.9	589.0	599.9	587.4	599.9
7.5°	584.3	595.2	595.2	582.7	593.7	584.3	593.7	582.7	592.1	578.1	593.7
10°	570.3	581.2	582.7	570.3	582.7	571.8	585.9	571.8	585.9	570.3	587.4
12.5°	560.9	573.4	576.5	562.5	578.1	564.0	581.2	565.6	581.2	564.0	584.3
15°	559.4	570.3	573.4	560.9	575.0	559.4	579.6	560.9	581.2	562.5	585.9
17.5°	560.9	570.3	573.4	559.4	573.4	560.9	578.1	562.5	581.2	564.0	585.9
20°	565.6	571.8	571.8	564.0	575.0	564.0	578.1	562.5	582.7	567.2	587.4
22.5°	579.6	581.2	581.2	575.0	581.2	573.4	584.3	573.4	587.4	575.0	593.7
25°	603.0	601.4	598.3	596.8	598.3	593.7	599.9	592.1	606.1	595.2	613.9
27.5°	643.5	637.3	634.2	634.2	632.6	634.2	634.2	631.0	637.3	634.2	646.6
30°	693.4	682.5	677.8	682.5	676.2	682.5	680.9	679.4	685.6	682.5	693.4
32.5°	758.8	740.1	737.0	746.4	733.9	744.8	735.4	740.1	744.8	747.9	754.1
35°	835.2	813.4	810.2	819.6	805.6	821.1	810.2	816.5	819.6	827.4	832.1
37.5°	925.5	899.1	894.4	906.8	888.1	905.3	889.7	908.4	903.7	914.6	919.3
40°	1034.6	1003.4	992.5	1009.7	987.9	1001.9	986.3	1006.6	1001.9	1023.7	1028.4
42.5°	1168.6	1123.4	1112.5	1129.7	1096.9	1101.6	1089.1	1112.5	1109.4	1139.0	1143.7
45°	1307.3	1252.8	1237.2	1254.3	1216.9	1226.3	1207.6	1232.5	1230.9	1254.3	1273.0
47.5°	1461.5	1394.5	1374.3	1393.0	1347.8	1358.7	1340.0	1366.5	1368.1	1394.5	1413.2
50°	1622.0	1551.9	1525.4	1542.6	1500.5	1508.3	1489.6	1522.3	1520.8	1556.6	1570.6
52.5°	1796.5	1724.9	1704.6	1712.4	1662.5	1671.9	1656.3	1696.8	1687.5	1709.3	1737.3
55°	1989.8	1907.2	1883.8	1907.2	1848.0	1860.4	1840.2	1877.6	1862.0	1890.0	1897.8
57.5°	2187.6	2106.6	2087.9	2105.1	2049.0	2058.3	2031.8	2063.0	2050.5	2069.2	2081.7
60°	2398.0	2324.8	2306.1	2324.8	2270.2	2271.8	2226.6	2259.3	2240.6	2264.0	2259.3
62.5°	2599.0	2536.7	2532.0	2558.5	2489.9	2482.1	2427.6	2451.0	2424.5	2440.1	2421.4
65°	2770.4	2734.5	2740.8	2762.6	2701.8	2683.1	2620.8	2633.3	2594.3	2594.3	2570.9
67.5°	2994.8	2955.8	2955.8	2974.5	2898.2	2849.9	2764.2	2753.2	2689.4	2676.9	2622.4
70°	3181.7	3192.6	3180.2	3195.8	3105.4	3007.2	2893.5	2838.9	2754.8	2714.3	2650.4
71°	3114.7	3177.1	3198.9	3211.3	3136.6	3038.4	2920.0	2849.9	2768.8	2714.3	2645.7
72.5°	2810.9	2962.0	3047.7	3047.7	3057.1	2994.8	2881.0	2804.7	2712.7	2641.1	2577.2
75°	1969.5	2215.7	2326.3	2313.8	2394.9	2422.9	2432.3	2399.5	2348.1	2245.3	2200.1
77.5°	877.2	1156.1	1322.9	1324.4	1411.7	1488.0	1548.8	1612.7	1589.3	1539.5	1536.3
80°	199.4	361.5	462.8	467.4	546.9	617.0	659.1	723.0	730.8	659.1	618.6
82.5°	85.7	101.3	115.3	113.7	140.2	168.3	199.4	216.6	208.8	173.0	163.6
85°	35.8	46.7	49.9	46.7	57.7	63.9	74.8	76.3	88.8	79.5	84.1
87.5°	0.0	1.6	1.6	0.0	3.1	0.0	3.1	1.6	7.8	3.1	9.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
97.5°	12.0	13.0	11.8	11.5	10.0	8.5	7.0	6.5	6.0	5.5	5.0
100°	31.5	32.0	31.6	31.5	31.0	30.5	30.0	29.2	28.5	27.8	27.0
102.5°	50.8	51.0	50.8	50.8	50.5	50.2	50.0	49.5	49.0	48.5	48.0
105°	70.8	71.0	71.0	71.0	71.0	71.0	71.0	70.5	70.0	69.5	69.0
107.5°	92.5	93.0	92.8	92.8	92.5	92.2	92.0	91.8	91.5	91.2	91.0



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**CANDELA DISTRIBUTION (continued):**

	52.5°	55°	57°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°
110°	113.5	114.0	114.0	114.0	114.0	114.0	114.0	113.8	113.5	113.2	113.0
112.5°	135.5	136.0	136.0	136.0	136.0	136.0	136.0	135.8	135.5	135.2	135.0
115°	157.5	158.0	158.0	158.0	158.0	158.0	158.0	158.0	158.0	158.0	158.0
117.5°	179.8	180.0	180.2	180.2	180.5	180.8	181.0	180.8	180.5	180.2	180.0
120°	203.5	204.0	204.0	204.0	204.0	204.0	204.0	204.0	204.0	204.0	204.0
122.5°	227.8	228.0	228.0	228.0	228.0	228.0	228.0	228.2	228.5	228.8	229.0
125°	252.8	253.0	253.2	253.2	253.5	253.8	254.0	254.0	254.0	254.0	254.0
127.5°	277.5	278.0	277.8	277.8	277.5	277.2	277.0	277.2	277.5	277.8	278.0
130°	300.5	301.0	301.0	301.0	301.0	301.0	301.0	301.2	301.5	301.8	302.0
132.5°	324.2	325.0	325.0	325.0	325.0	325.0	325.0	325.2	325.5	325.8	326.0
135°	347.2	348.0	348.0	348.0	348.0	348.0	348.0	348.2	348.5	348.8	349.0
137.5°	368.5	369.0	369.0	369.0	369.0	369.0	369.0	369.2	369.5	369.8	370.0
140°	389.8	390.0	390.0	390.0	390.0	390.0	390.0	390.5	391.0	391.5	392.0
142.5°	411.5	412.0	412.0	412.0	412.0	412.0	412.0	412.2	412.5	412.8	413.0
145°	433.5	434.0	433.8	433.8	433.5	433.2	433.0	433.2	433.5	433.8	434.0
147.5°	453.8	454.0	453.6	453.6	453.0	452.5	452.0	452.2	452.5	452.8	453.0
150°	470.8	471.0	470.6	470.6	470.0	469.5	469.0	469.0	469.0	469.0	469.0
152.5°	486.8	487.0	486.8	486.8	486.5	486.2	486.0	486.0	486.0	486.0	486.0
155°	503.8	504.0	503.8	503.8	503.5	503.2	503.0	503.2	503.5	503.8	504.0
157.5°	519.0	519.0	518.6	518.6	518.0	517.5	517.0	517.2	517.5	517.8	518.0
160°	532.0	532.0	531.6	531.6	531.0	530.5	530.0	530.0	530.0	530.0	530.0
162.5°	541.8	542.0	541.6	541.6	541.0	540.5	540.0	539.5	539.0	538.5	538.0
165°	552.8	553.0	552.4	552.4	551.5	550.8	550.0	549.5	549.0	548.5	548.0
167.5°	560.0	560.0	559.6	559.6	559.0	558.5	558.0	558.2	558.5	558.8	559.0
170°	565.2	565.0	564.8	564.8	564.5	564.2	564.0	564.5	565.0	565.5	566.0
172.5°	568.8	569.0	568.6	568.6	568.0	567.5	567.0	567.2	567.5	567.8	568.0
175°	572.8	573.0	572.4	572.4	571.5	570.8	570.0	569.5	569.0	568.5	568.0
177.5°	577.0	577.0	576.4	576.4	575.5	574.8	574.0	574.0	574.0	574.0	574.0
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):**

	77.5°	80°	82.5°	85°	87.5°	90°	95°	100°	102.5°	105°	107.5°
0°	609.2	609.2	609.2	609.2	609.2	609.2	609.2	609.2	609.2	609.2	609.2
2.5°	598.3	606.1	598.3	606.1	601.4	606.1	604.6	606.1	598.3	606.1	596.8
5°	587.4	599.9	589.0	598.3	589.0	599.9	599.9	599.9	589.0	601.4	590.5
7.5°	578.1	592.1	578.1	592.1	582.7	593.7	593.7	598.3	585.9	599.9	584.3
10°	568.7	585.9	568.7	589.0	573.4	590.5	592.1	595.2	578.1	596.8	581.2
12.5°	564.0	585.9	565.6	585.9	567.2	590.5	592.1	595.2	576.5	599.9	579.6
15°	564.0	587.4	565.6	587.4	567.2	590.5	593.7	596.8	576.5	601.4	579.6
17.5°	564.0	587.4	568.7	589.0	570.3	592.1	595.2	598.3	579.6	601.4	582.7
20°	568.7	590.5	571.8	593.7	575.0	596.8	598.3	603.0	582.7	603.0	585.9
22.5°	579.6	598.3	582.7	603.0	589.0	606.1	607.7	612.4	596.8	613.9	599.9
25°	598.3	618.6	606.1	621.7	613.9	627.9	631.0	631.0	624.8	635.7	631.0
27.5°	637.3	652.9	643.5	657.5	652.9	663.8	663.8	665.3	670.0	673.1	677.8
30°	687.1	698.1	694.9	702.7	704.3	710.5	710.5	719.9	738.6	719.9	718.3
32.5°	754.1	760.4	761.9	765.1	771.3	776.0	782.2	793.1	808.7	765.1	751.0
35°	836.7	838.3	843.0	847.6	858.5	861.7	881.9	874.1	874.1	805.6	776.0
37.5°	927.1	927.1	939.6	939.6	966.1	967.6	987.9	947.4	924.0	835.2	791.5
40°	1040.8	1039.3	1053.3	1056.4	1092.3	1093.8	1090.7	1001.9	952.0	843.0	783.7
42.5°	1160.8	1165.5	1184.2	1190.4	1216.9	1226.3	1187.3	1039.3	964.5	838.3	757.3
45°	1291.7	1301.1	1324.4	1341.6	1369.6	1358.7	1265.2	1056.4	950.5	810.2	705.8
47.5°	1435.1	1444.4	1463.1	1495.8	1508.3	1495.8	1329.1	1062.7	928.7	766.6	631.0
50°	1580.0	1595.5	1622.0	1668.8	1675.0	1643.8	1407.0	1086.0	911.5	721.4	545.4
52.5°	1743.6	1759.1	1790.3	1868.2	1852.6	1788.8	1498.9	1129.7	916.2	693.4	472.1
55°	1916.5	1938.3	1999.1	2075.5	2041.2	1941.5	1600.2	1193.5	934.9	663.8	391.1
57.5°	2098.8	2122.2	2201.7	2292.0	2225.0	2091.0	1703.1	1243.4	944.2	603.0	302.3
60°	2279.6	2312.3	2415.1	2489.9	2385.5	2218.8	1795.0	1276.1	919.3	487.7	233.7
62.5°	2444.7	2497.7	2613.0	2653.5	2486.8	2299.8	1844.8	1252.8	818.0	336.6	188.5
65°	2561.6	2630.2	2704.9	2700.3	2468.1	2273.3	1807.5	1145.2	609.2	222.8	160.5
67.5°	2611.5	2675.3	2692.5	2613.0	2334.1	2156.5	1673.5	922.4	350.6	166.7	140.2
70°	2630.2	2684.7	2588.1	2396.4	2072.3	1869.8	1368.1	587.4	191.7	135.6	121.5
71°	2622.4	2648.9	2465.0	2240.6	1905.6	1693.7	1199.8	447.2	163.6	126.2	115.3
72.5°	2516.4	2479.0	2195.4	1946.1	1615.8	1400.8	933.3	282.0	134.0	113.7	107.5
75°	2056.8	1888.5	1615.8	1380.5	1100.1	880.4	506.4	144.9	107.5	98.2	93.5
77.5°	1344.7	1198.2	973.8	791.5	601.4	456.5	207.2	99.7	85.7	82.6	81.0
80°	479.9	384.9	291.4	255.5	193.2	158.9	101.3	76.3	67.0	68.6	67.0
82.5°	135.6	124.7	107.5	99.7	87.3	85.7	65.4	57.7	53.0	56.1	54.5
85°	67.0	57.7	42.1	40.5	31.2	35.8	32.7	39.0	34.3	35.8	32.7
87.5°	4.7	6.2	1.6	4.7	0.0	4.7	6.2	7.8	1.6	6.2	4.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
97.5°	4.8	4.5	4.2	4.0	4.0	4.0	4.0	4.5	4.8	5.0	5.5
100°	26.8	26.5	26.2	26.0	25.5	25.0	26.0	26.5	26.8	27.0	27.8
102.5°	48.2	48.5	48.8	49.0	48.5	48.0	49.0	48.5	48.2	48.0	48.5
105°	69.5	70.0	70.5	71.0	70.0	69.0	71.0	70.0	69.5	69.0	69.5
107.5°	91.2	91.5	91.8	92.0	91.5	91.0	92.0	91.5	91.2	91.0	91.2

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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°	113.2	113.5	113.8	114.0	113.5	113.0	114.0	113.5	113.2	113.0	113.2	0°
112.5°	135.5	136.0	136.5	137.0	136.0	135.0	137.0	136.0	135.5	135.0	135.2	2.5°
115°	158.5	159.0	159.5	160.0	159.5	159.0	160.0	159.0	158.5	158.0	158.0	5°
117.5°	180.5	181.0	181.5	182.0	181.0	180.0	182.0	181.0	180.5	180.0	180.2	7.5°
120°	204.5	205.0	205.5	206.0	205.0	204.0	206.0	205.0	204.5	204.0	204.0	10°
122.5°	230.0	231.0	232.0	233.0	232.5	232.0	233.0	231.0	230.0	229.0	228.8	12.5°
125°	254.8	255.5	256.2	257.0	256.5	256.0	257.0	255.5	254.8	254.0	254.0	15°
127.5°	278.8	279.5	280.2	281.0	279.5	278.0	281.0	279.5	278.8	278.0	277.8	17.5°
130°	302.8	303.5	304.2	305.0	304.0	303.0	305.0	303.5	302.8	302.0	301.8	20°
132.5°	326.8	327.5	328.2	329.0	328.0	327.0	329.0	327.5	326.8	326.0	325.8	22.5°
135°	349.5	350.0	350.5	351.0	350.5	350.0	351.0	350.0	349.5	349.0	348.8	25°
137.5°	371.0	372.0	373.0	374.0	373.0	372.0	374.0	372.0	371.0	370.0	369.8	27.5°
140°	393.0	394.0	395.0	396.0	395.0	394.0	396.0	394.0	393.0	392.0	391.5	30°
142.5°	413.8	414.5	415.2	416.0	415.5	415.0	416.0	414.5	413.8	413.0	412.8	32.5°
145°	434.8	435.5	436.2	437.0	436.0	435.0	437.0	435.5	434.8	434.0	433.8	35°
147.5°	453.8	454.5	455.2	456.0	454.5	453.0	456.0	454.5	453.8	453.0	452.8	37.5°
150°	470.0	471.0	472.0	473.0	471.5	470.0	473.0	471.0	470.0	469.0	469.0	40°
152.5°	486.8	487.5	488.2	489.0	487.5	486.0	489.0	487.5	486.8	486.0	486.0	42.5°
155°	504.8	505.5	506.2	507.0	506.0	505.0	507.0	505.5	504.8	504.0	503.8	45°
157.5°	519.2	520.5	521.8	523.0	521.5	520.0	523.0	520.5	519.2	518.0	517.8	47.5°
160°	530.8	531.5	532.2	533.0	532.0	531.0	533.0	531.5	530.8	530.0	530.0	50°
162.5°	538.5	539.0	539.5	540.0	538.5	537.0	540.0	539.0	538.5	538.0	538.5	52.5°
165°	548.5	549.0	549.5	550.0	549.0	548.0	550.0	549.0	548.5	548.0	548.5	55°
167.5°	560.0	561.0	562.0	563.0	562.0	561.0	563.0	561.0	560.0	559.0	558.8	57.5°
170°	567.2	568.5	569.8	571.0	570.0	569.0	571.0	568.5	567.2	566.0	565.5	60°
172.5°	568.8	569.5	570.2	571.0	569.5	568.0	571.0	569.5	568.8	568.0	567.8	62.5°
175°	568.8	569.5	570.2	571.0	569.5	568.0	571.0	569.5	568.8	568.0	568.5	65°
177.5°	574.8	575.5	576.2	577.0	575.5	574.0	577.0	575.5	574.8	574.0	574.0	67.5°
180°	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	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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 CATALOG NUMBER:

**DISTRIBUTION (continued):**

**CANDELA DISTRIBUTION**

110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°	110°	110°
609.2	609.2	609.2	609.2	609.2	609.2	609.2	609.2	609.2	609.2	609.2	110°	113.5
607.7	601.4	609.2	601.4	609.2	604.6	609.2	604.6	609.2	612.4	612.4	112.5°	135.5
604.6	593.7	607.7	599.9	609.2	601.4	607.7	603.0	610.8	613.9	617.0	115°	158.0
603.0	592.1	606.1	595.2	609.2	598.3	607.7	601.4	610.8	613.9	620.1	117.5°	180.5
601.4	587.4	606.1	590.5	607.7	596.8	607.7	598.3	609.2	612.4	613.9	120°	204.0
601.4	585.9	606.1	589.0	607.7	592.1	606.1	592.1	607.7	606.1	601.4	122.5°	228.5
603.0	582.7	606.1	585.9	606.1	587.4	604.6	585.9	601.4	596.8	593.7	125°	254.0
603.0	582.7	604.6	584.3	603.0	585.9	599.9	582.7	596.8	595.2	590.5	127.5°	277.5
606.1	585.9	604.6	590.5	604.6	587.4	598.3	582.7	593.7	584.3	565.6	130°	301.5
615.5	601.4	615.5	601.4	607.7	592.1	596.8	578.1	576.5	560.9	531.3	132.5°	325.5
637.3	631.0	627.9	610.8	606.1	585.9	579.6	557.8	550.0	526.7	486.1	135°	348.5
665.3	651.3	632.6	612.4	592.1	567.2	550.0	532.9	515.7	486.1	434.7	137.5°	369.5
684.0	663.8	624.8	596.8	559.4	539.1	509.5	490.8	465.9	428.5	378.6	140°	391.0
696.5	665.3	606.1	573.4	523.5	497.0	458.1	437.8	402.0	366.2	330.3	142.5°	412.5
699.6	659.1	581.2	545.4	479.9	450.3	398.9	377.1	342.8	317.9	303.8	145°	433.5
687.1	637.3	542.2	495.5	423.8	389.5	341.2	325.7	305.4	296.0	289.8	147.5°	452.5
662.2	595.2	481.5	426.9	353.7	327.2	302.3	302.3	291.4	286.7	275.8	150°	469.0
617.0	532.9	403.6	350.6	300.7	296.0	282.0	288.3	280.5	277.4	261.8	152.5°	486.0
546.9	444.1	325.7	294.5	271.1	274.2	264.9	271.1	266.4	264.9	246.2	155°	503.5
456.5	353.7	274.2	263.3	247.7	252.4	244.6	252.4	247.7	249.3	235.3	157.5°	517.5
364.6	286.7	243.1	236.8	225.9	229.0	224.4	232.2	230.6	236.8	229.0	160°	530.0
291.4	244.6	216.6	211.9	205.7	207.2	205.7	213.5	215.0	227.5	227.5	162.5°	539.0
241.5	210.3	194.8	193.2	187.0	188.5	190.1	197.9	204.1	219.7	227.5	165°	549.0
207.2	188.5	177.6	176.1	173.0	174.5	177.6	187.0	193.2	213.5	230.6	167.5°	558.5
182.3	171.4	163.6	163.6	160.5	163.6	166.7	176.1	183.9	207.2	224.4	170°	565.0
163.6	155.8	151.1	152.7	151.1	154.3	157.4	166.7	176.1	197.9	215.0	172.5°	567.5
146.5	141.8	138.7	140.2	140.2	144.9	148.0	157.4	165.2	185.4	207.2	175°	569.0
132.4	129.3	127.8	129.3	130.9	135.6	140.2	146.5	152.7	171.4	196.3	177.5°	574.0
121.5	118.4	118.4	118.4	120.0	124.7	130.9	134.0	140.2	160.5	183.9	180°	576.0
115.3	113.7	113.7	113.7	115.3	120.0	126.2	129.3	135.6	155.8	177.6		
107.5	107.5	109.1	107.5	110.6	112.2	118.4	121.5	129.3	149.6	169.8		
95.0	95.0	96.6	96.6	99.7	99.7	104.4	107.5	116.9	134.0	152.7		
84.1	84.1	87.3	85.7	85.7	82.6	88.8	91.9	99.7	116.9	135.6		
71.7	70.1	73.2	68.6	67.0	63.9	68.6	73.2	85.7	96.6	99.7		
56.1	51.4	53.0	48.3	48.3	45.2	49.9	51.4	59.2	70.1	76.3		
34.3	28.0	31.2	26.5	29.6	26.5	28.0	29.6	35.8	43.6	42.1		
7.8	4.7	6.2	1.6	4.7	0.0	4.7	1.6	4.7	1.6	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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		
6.0	6.5	7.0	8.5	10.0	11.5	13.0	12.0	11.0	9.0	4.0		
28.5	29.2	30.0	30.5	31.0	31.5	32.0	31.5	31.0	30.0	22.0		
49.0	49.5	50.0	50.2	50.5	50.8	51.0	50.8	50.5	50.0	45.0		
70.0	70.5	71.0	71.0	71.0	71.0	71.0	70.8	70.5	70.0	66.0		
91.5	91.8	92.0	92.2	92.5	92.8	93.0	92.5	92.0	91.0	88.0		

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REPORT NUMBER: P227686  
 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°
113.8	114.0	114.0	114.0	114.0	114.0	113.5	113.0	112.0	110.0	0°	609.2	609.2
135.8	136.0	136.0	136.0	136.0	136.0	135.5	135.0	134.0	132.0	2.5°	615.5	613.9
158.0	158.0	158.0	158.0	158.0	158.0	157.5	157.0	156.0	154.0	5°	623.3	623.3
180.8	181.0	180.8	180.5	180.2	180.0	179.8	179.5	179.0	177.0	7.5°	624.8	627.9
204.0	204.0	204.0	204.0	204.0	204.0	203.5	203.0	202.0	201.0	10°	613.9	610.8
228.2	228.0	228.0	228.0	228.0	228.0	227.8	227.5	227.0	226.0	12.5°	596.8	593.7
254.0	254.0	253.8	253.5	253.2	253.0	252.8	252.5	252.0	251.0	15°	595.2	593.7
277.2	277.0	277.2	277.5	277.8	278.0	277.5	277.0	276.0	274.0	17.5°	584.3	576.5
301.2	301.0	301.0	301.0	301.0	301.0	300.5	300.0	299.0	298.0	20°	553.1	539.1
325.2	325.0	325.0	325.0	325.0	325.0	324.2	323.5	322.0	321.0	22.5°	509.5	489.3
348.2	348.0	348.0	348.0	348.0	348.0	347.2	346.5	345.0	345.0	25°	456.5	428.5
369.2	369.0	369.0	369.0	369.0	369.0	368.5	368.0	367.0	367.0	27.5°	398.9	370.8
390.5	390.0	390.0	390.0	390.0	390.0	389.8	389.5	389.0	388.0	30°	353.7	331.9
412.2	412.0	412.0	412.0	412.0	412.0	411.5	411.0	410.0	410.0	32.5°	321.0	308.5
433.2	433.0	433.2	433.5	433.8	434.0	433.5	433.0	432.0	431.0	35°	294.5	286.7
452.2	452.0	452.5	453.0	453.5	454.0	453.8	453.5	453.0	452.0	37.5°	277.4	264.9
469.0	469.0	469.5	470.0	470.5	471.0	470.8	470.5	470.0	469.0	40°	260.2	244.6
486.0	486.0	486.2	486.5	486.8	487.0	486.8	486.5	486.0	485.0	42.5°	244.6	229.0
503.2	503.0	503.2	503.5	503.8	504.0	503.8	503.5	503.0	503.0	45°	229.0	218.1
517.2	517.0	517.5	518.0	518.5	519.0	519.0	519.0	519.0	519.0	47.5°	221.3	211.9
530.0	530.0	530.5	531.0	531.5	532.0	532.0	532.0	532.0	532.0	50°	218.1	208.8
539.5	540.0	540.5	541.0	541.5	542.0	541.8	541.5	541.0	541.0	52.5°	221.3	213.5
549.5	550.0	550.8	551.5	552.2	553.0	552.8	552.5	552.0	552.0	55°	227.5	222.8
558.2	558.0	558.5	559.0	559.5	560.0	560.0	560.0	560.0	561.0	57.5°	221.3	213.5
564.5	564.0	564.2	564.5	564.8	565.0	565.2	565.5	566.0	567.0	60°	207.2	194.8
567.2	567.0	567.5	568.0	568.5	569.0	568.8	568.5	568.0	569.0	62.5°	197.9	185.4
569.5	570.0	570.8	571.5	572.2	573.0	572.8	572.5	572.0	572.0	65°	190.1	180.7
574.0	574.0	574.8	575.5	576.2	577.0	577.0	577.0	577.0	578.0	67.5°	182.3	173.0
576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	70°	173.0	163.6
										71°	168.3	157.4
										72.5°	160.5	148.0
										75°	144.9	132.4
										77.5°	120.0	106.0
										80°	91.9	82.6
										82.5°	68.6	60.8
										85°	35.8	28.0
										87.5°	0.0	0.0
										90°	0.0	0.0
										92.5°	0.0	0.0
										95°	1.0	1.0
										97.5°	3.0	2.0
										100°	14.0	10.0
										102.5°	38.0	32.0
										105°	61.0	56.0
										107.5°	84.0	80.0



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175°	180°
609.2	609.2
615.5	613.9
624.8	626.4
631.0	629.5
613.9	610.8
596.8	596.8
595.2	595.2
573.4	571.8
536.0	531.3
483.0	478.4
417.6	411.4
359.9	359.9
321.0	321.0
300.7	302.3
282.0	283.6
254.0	254.0
230.6	230.6
219.7	218.1
210.3	208.8
204.1	202.6
197.9	197.9
193.2	193.2
193.2	190.1
194.8	190.1
191.7	188.5
191.7	190.1
194.8	191.7
194.8	188.5
177.6	166.7
168.3	158.9
151.1	144.9
129.3	127.8
101.3	99.7
82.6	77.9
59.2	51.4
23.4	23.4
0.0	0.0
0.0	0.0
0.0	0.0
1.0	1.0
2.0	2.0
8.0	8.0
28.0	28.0
54.0	54.0
77.0	78.0

**CANDELA DISTRIBUTION (continued):**

	155°	165°	175°
110°	106.0	103.0	102.0
112.5°	129.0	126.0	124.0
115°	151.0	149.0	147.0
117.5°	174.0	172.0	170.0
120°	198.0	196.0	195.0
122.5°	223.0	221.0	220.0
125°	248.0	247.0	246.0
127.5°	272.0	270.0	269.0
130°	294.0	293.0	292.0
132.5°	318.0	317.0	314.0
135°	341.0	339.0	337.0
137.5°	364.0	363.0	360.0
140°	386.0	385.0	383.0
142.5°	407.0	408.0	406.0
145°	428.0	428.0	426.0
147.5°	448.0	447.0	444.0
150°	465.0	464.0	462.0
152.5°	482.0	483.0	480.0
155°	501.0	502.0	500.0
157.5°	516.0	517.0	515.0
160°	529.0	529.0	527.0
162.5°	538.0	539.0	536.0
165°	548.0	549.0	547.0
167.5°	558.0	559.0	556.0
170°	565.0	566.0	563.0
172.5°	567.0	569.0	566.0
175°	569.0	570.0	569.0
177.5°	574.0	575.0	573.0
180°	576.0	576.0	576.0



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<u>180°</u>
101.0
124.0
146.0
169.0
193.0
219.0
244.0
267.0
290.0
313.0
336.0
359.0
382.0
404.0
425.0
444.0
461.0
479.0
499.0
513.0
525.0
535.0
546.0
555.0
562.0
565.0
567.0
572.0
576.0

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