

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: P227683

Luminaire Tested: **ISS-AF-1200-LED-E1-T3-7050-ULG**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P227683  
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-1200-LED-E1-T3-7050-ULG  
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE WITH UPLIGHT  
LIGHT SQUARE WITH ACCULED OPTICS-TYPE III, 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: 8003.2 lumens  
Efficiency: N/A  
Efficacy: 96.8 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 - 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

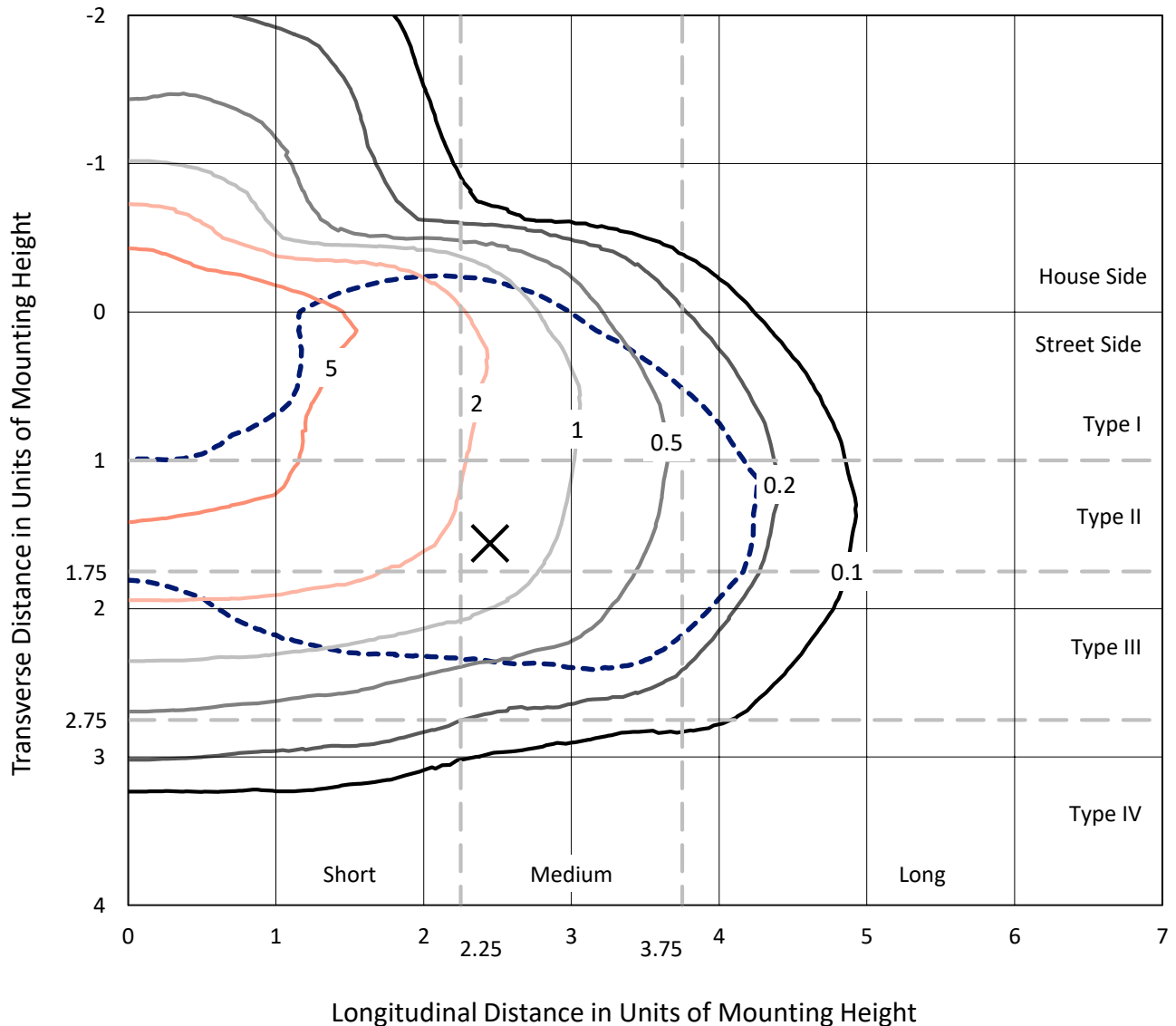


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

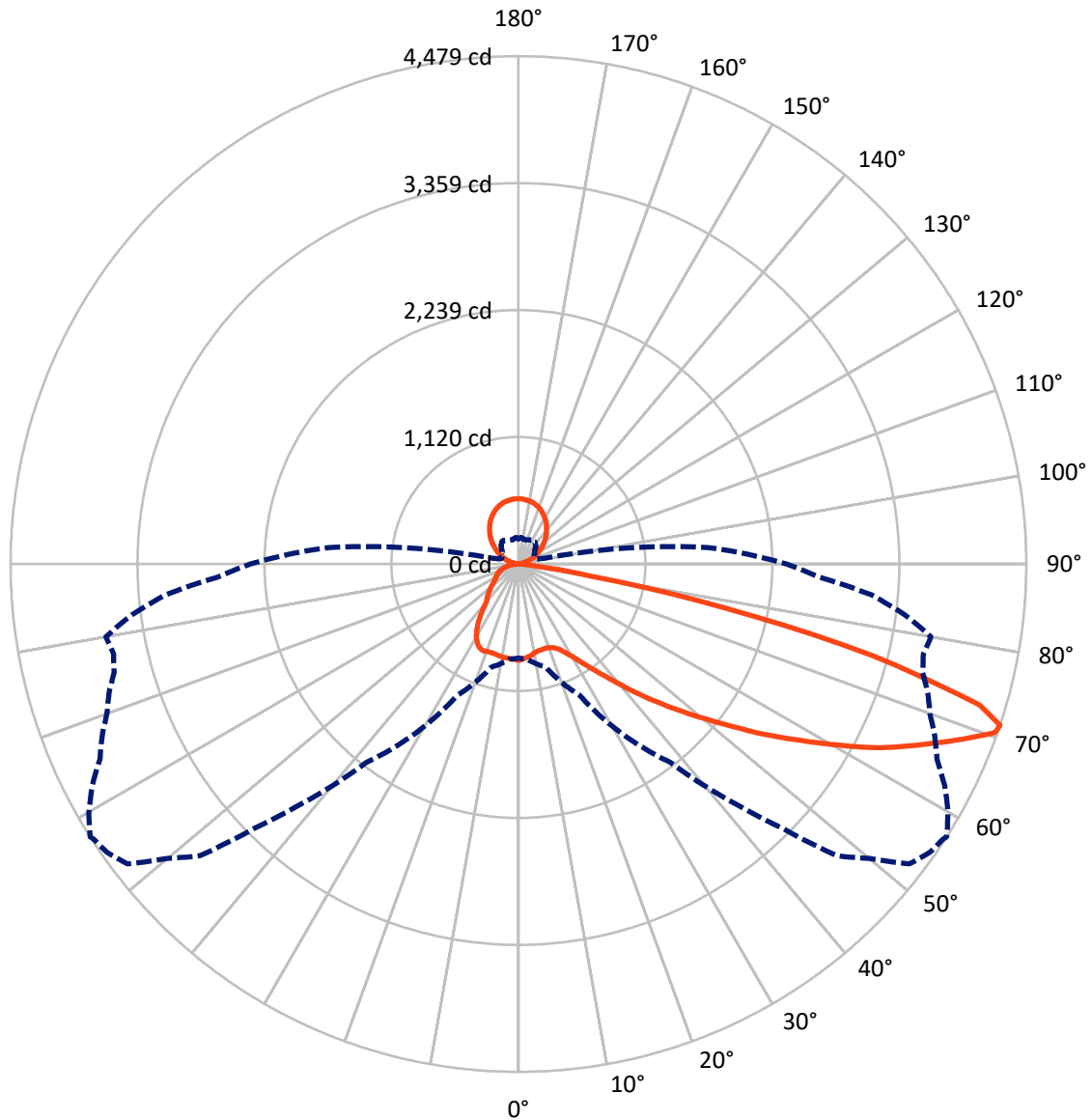


Based on 10 foot mounting height. Maximum calculated value = 8.6 fc  
 Type III - Medium - Non-Cutoff

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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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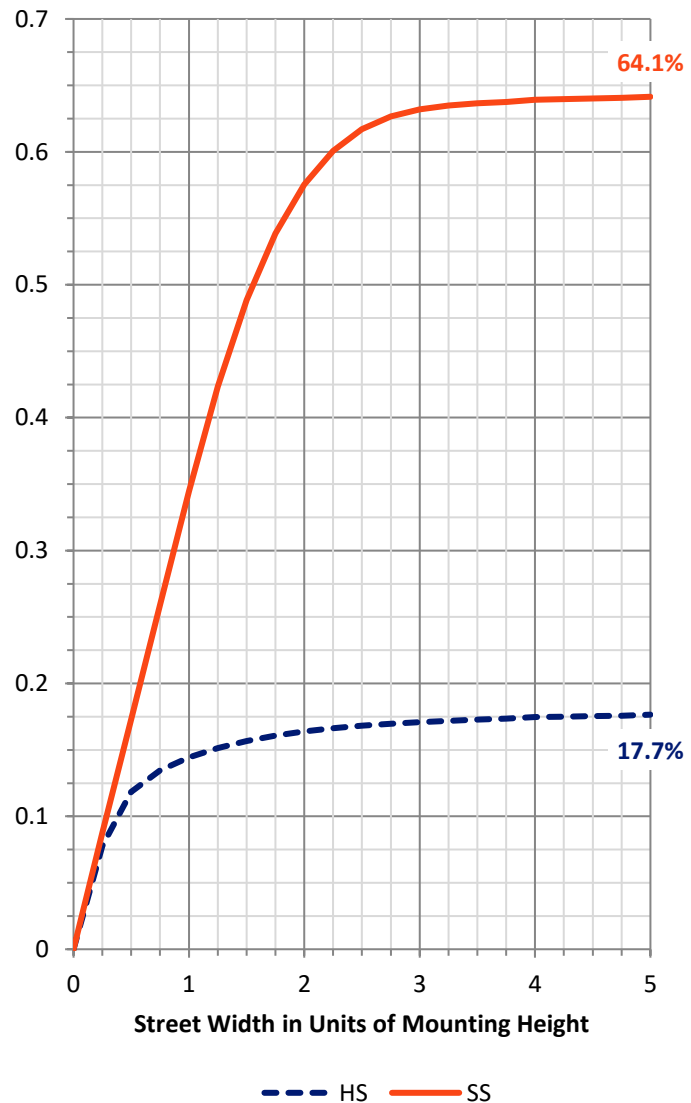
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1431.8	713.1	2144.9
	% Fixture	17.9	8.9	26.8
<b>Street Side</b>	Lumens	5145.2	713.1	5858.2
	% Fixture	64.3	8.9	73.2
<b>Total</b>	Lumens	6577.0	1426.2	8003.2
	% Fixture	82.2	17.8	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	80.0	1.0
10°-20°	230.4	2.9
20°-30°	382.5	4.8
30°-40°	608.9	7.6
40°-50°	989.2	12.4
50°-60°	1483.2	18.5
60°-70°	1769.4	22.1
70°-80°	955.6	11.9
80°-90°	77.8	1.0
90°-100°	4.7	0.1
100°-110°	69.0	0.9
110°-120°	153.0	1.9
120°-130°	223.9	2.8
130°-140°	265.6	3.3
140°-150°	269.3	3.4
150°-160°	231.1	2.9
160°-170°	155.1	1.9
170°-180°	54.3	0.7
0°-90°	6577.0	82.2
0°-180°	8003.2	100.0



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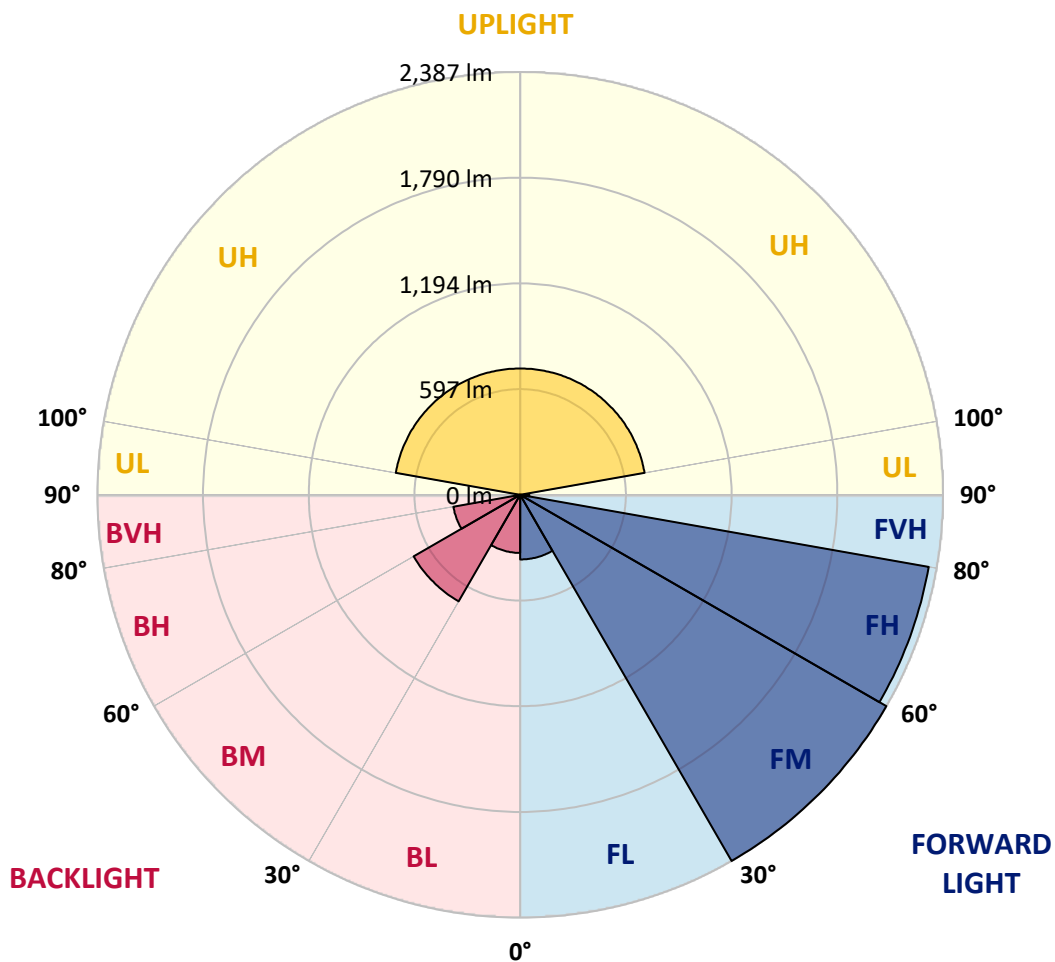
CATALOG NUMBER: ISS-AF-1200-LED-E1-T3-7050-ULG

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	364.9	4.6			
FM	(30°-60°)	2387.0	29.8			
FH	(60°-80°)	2342.0	29.3			G2/5000
FVH	(80°-90°)	51.2	0.6			G1/100
BL	(0°-30°)	328.0	4.1	B1/500		
BM	(30°-60°)	694.3	8.7	B1/1000		
BH	(60°-80°)	383.0	4.8	B1/500		G1/500
BVH	(80°-90°)	26.5	0.3			G1/100
UL	(90°-100°)	4.7	0.1		U1/10	
UH	(100°-180°)	713.1	8.9		U4/1000	

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

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°	849.6	849.6	849.6	849.6	849.6	849.6	849.6	849.6	849.6	849.6	849.6
2.5°	849.6	847.5	845.3	845.3	845.3	843.1	836.6	838.8	845.3	841.0	847.5
5°	847.5	843.1	841.0	841.0	841.0	834.4	832.3	830.1	843.1	832.3	841.0
7.5°	823.6	823.6	819.2	823.6	827.9	821.4	817.1	819.2	830.1	819.2	830.1
10°	806.2	801.8	799.7	799.7	804.0	795.3	791.0	795.3	808.4	795.3	810.5
12.5°	799.7	801.8	795.3	795.3	793.2	782.3	782.3	782.3	793.2	782.3	795.3
15°	810.5	808.4	801.8	797.5	791.0	782.3	780.1	782.3	791.0	777.9	793.2
17.5°	825.7	825.7	814.9	804.0	797.5	788.8	788.8	784.5	791.0	782.3	793.2
20°	864.9	858.3	843.1	825.7	808.4	804.0	795.3	795.3	799.7	791.0	797.5
22.5°	932.2	925.7	899.6	867.0	838.8	827.9	823.6	821.4	817.1	812.7	812.7
25°	1021.3	1010.5	980.0	940.9	893.1	884.4	875.7	869.2	854.0	854.0	843.1
27.5°	1116.9	1106.1	1073.5	1030.0	971.3	958.3	947.4	938.7	912.7	912.7	893.1
30°	1225.6	1212.5	1173.4	1125.6	1058.3	1053.9	1038.7	1025.7	990.9	988.7	962.6
32.5°	1351.6	1334.2	1295.1	1232.1	1160.4	1162.6	1138.7	1130.0	1084.3	1086.5	1051.7
35°	1495.0	1475.5	1436.4	1353.8	1279.9	1286.4	1264.7	1249.5	1193.0	1193.0	1156.0
37.5°	1647.1	1647.1	1597.2	1501.6	1412.5	1427.7	1401.6	1386.4	1329.9	1338.6	1279.9
40°	1816.6	1827.5	1773.2	1664.5	1573.3	1579.8	1560.2	1542.8	1475.5	1490.7	1427.7
42.5°	1994.8	2014.4	1966.6	1853.6	1751.5	1773.2	1740.6	1723.2	1651.5	1684.1	1610.2
45°	2253.4	2257.8	2168.7	2060.0	1975.3	1994.8	1949.2	1942.7	1853.6	1888.4	1814.5
47.5°	2416.4	2405.5	2340.3	2275.1	2225.2	2264.3	2223.0	2212.1	2110.0	2133.9	2029.6
50°	2527.2	2533.7	2483.8	2477.2	2485.9	2559.8	2553.3	2531.6	2409.9	2392.5	2262.1
52.5°	2627.2	2598.9	2590.2	2651.1	2744.5	2831.4	2866.2	2838.0	2705.4	2657.6	2531.6
55°	2609.8	2568.5	2614.1	2761.9	2946.6	3081.3	3085.7	3066.1	2946.6	2927.1	2790.2
57.5°	2492.4	2501.1	2594.6	2805.4	3118.3	3257.3	3281.3	3257.3	3159.6	3176.9	3064.0
60°	2329.5	2346.9	2494.6	2766.2	3255.2	3374.7	3385.6	3413.8	3348.6	3394.2	3316.0
62.5°	2086.1	2110.0	2299.0	2668.5	3159.6	3337.8	3437.7	3502.9	3489.9	3594.2	3552.9
65°	1916.6	1916.6	2101.3	2555.5	3066.1	3300.8	3450.7	3572.4	3589.8	3755.0	3739.8
67.5°	1601.5	1612.4	1771.0	2240.4	2953.1	3218.2	3444.2	3650.7	3755.0	4015.7	4028.8
70°	1108.2	1116.9	1221.2	1599.3	2386.0	2612.0	2944.4	3281.3	3594.2	3987.5	4191.7
71°	830.1	841.0	943.1	1275.6	2020.9	2207.8	2553.3	2903.1	3296.5	3807.1	4037.5
72.5°	406.4	412.9	512.8	819.2	1405.9	1645.0	1844.9	2179.5	2596.8	3181.3	3507.2
75°	189.1	191.2	213.0	295.5	536.7	638.9	728.0	943.1	1201.7	1714.5	2110.0
77.5°	139.1	139.1	152.1	193.4	278.1	282.5	278.1	284.7	343.3	491.1	738.8
80°	102.1	102.1	110.8	130.4	184.7	184.7	178.2	180.4	173.8	180.4	204.3
82.5°	67.4	67.4	71.7	78.2	113.0	113.0	108.7	108.7	104.3	102.1	110.8
85°	39.1	41.3	43.5	36.9	47.8	45.6	41.3	45.6	43.5	39.1	47.8
87.5°	0.0	0.0	0.0	0.0	2.2	0.0	0.0	0.0	2.2	0.0	2.2
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°	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°	849.6	849.6	849.6	849.6	849.6	849.6	849.6	849.6	849.6	849.6	849.6
2.5°	838.8	845.3	845.3	836.6	843.1	836.6	841.0	834.4	841.0	830.1	843.1
5°	832.3	838.8	838.8	825.7	838.8	825.7	836.6	821.4	836.6	819.2	836.6
7.5°	814.9	830.1	830.1	812.7	827.9	814.9	827.9	812.7	825.7	806.2	827.9
10°	795.3	810.5	812.7	795.3	812.7	797.5	817.1	797.5	817.1	795.3	819.2
12.5°	782.3	799.7	804.0	784.5	806.2	786.6	810.5	788.8	810.5	786.6	814.9
15°	780.1	795.3	799.7	782.3	801.8	780.1	808.4	782.3	810.5	784.5	817.1
17.5°	782.3	795.3	799.7	780.1	799.7	782.3	806.2	784.5	810.5	786.6	817.1
20°	788.8	797.5	797.5	786.6	801.8	786.6	806.2	784.5	812.7	791.0	819.2
22.5°	808.4	810.5	810.5	801.8	810.5	799.7	814.9	799.7	819.2	801.8	827.9
25°	841.0	838.8	834.4	832.3	834.4	827.9	836.6	825.7	845.3	830.1	856.2
27.5°	897.5	888.8	884.4	884.4	882.2	884.4	884.4	880.1	888.8	884.4	901.8
30°	967.0	951.8	945.3	951.8	943.1	951.8	949.6	947.4	956.1	951.8	967.0
32.5°	1058.3	1032.2	1027.8	1040.9	1023.5	1038.7	1025.7	1032.2	1038.7	1043.0	1051.7
35°	1164.7	1134.3	1130.0	1143.0	1123.4	1145.2	1130.0	1138.7	1143.0	1153.9	1160.4
37.5°	1290.8	1253.8	1247.3	1264.7	1238.6	1262.5	1240.8	1266.9	1260.3	1275.6	1282.1
40°	1442.9	1399.4	1384.2	1408.1	1377.7	1397.2	1375.5	1403.8	1397.2	1427.7	1434.2
42.5°	1629.8	1566.7	1551.5	1575.4	1529.8	1536.3	1518.9	1551.5	1547.2	1588.5	1595.0
45°	1823.2	1747.1	1725.4	1749.3	1697.1	1710.2	1684.1	1718.9	1716.7	1749.3	1775.4
47.5°	2038.3	1944.8	1916.6	1942.7	1879.7	1894.9	1868.8	1905.7	1907.9	1944.8	1970.9
50°	2262.1	2164.3	2127.4	2151.3	2092.6	2103.5	2077.4	2123.0	2120.9	2170.8	2190.4
52.5°	2505.5	2405.5	2377.3	2388.1	2318.6	2331.6	2309.9	2366.4	2353.4	2383.8	2422.9
55°	2774.9	2659.8	2627.2	2659.8	2577.2	2594.6	2566.3	2618.5	2596.8	2635.9	2646.7
57.5°	3050.9	2937.9	2911.8	2935.7	2857.5	2870.6	2833.6	2877.1	2859.7	2885.8	2903.1
60°	3344.3	3242.1	3216.1	3242.1	3166.1	3168.3	3105.2	3150.9	3124.8	3157.4	3150.9
62.5°	3624.6	3537.7	3531.1	3568.1	3472.5	3461.6	3385.6	3418.2	3381.2	3402.9	3376.9
65°	3863.6	3813.6	3822.3	3852.8	3768.0	3741.9	3655.0	3672.4	3618.1	3618.1	3585.5
67.5°	4176.5	4122.2	4122.2	4148.3	4041.8	3974.4	3854.9	3839.7	3750.6	3733.2	3657.2
70°	4437.3	4452.5	4435.1	4456.9	4330.8	4193.9	4035.3	3959.2	3841.9	3785.4	3696.3
71°	4343.9	4430.8	4461.2	4478.6	4374.3	4237.4	4072.2	3974.4	3861.4	3785.4	3689.8
72.5°	3920.1	4130.9	4250.4	4250.4	4263.5	4176.5	4017.9	3911.4	3783.2	3683.3	3594.2
75°	2746.7	3090.0	3244.3	3226.9	3339.9	3379.0	3392.1	3346.4	3274.7	3131.3	3068.3
77.5°	1223.4	1612.4	1844.9	1847.1	1968.8	2075.2	2160.0	2249.1	2216.5	2146.9	2142.6
80°	278.1	504.1	645.4	651.9	762.7	860.5	919.2	1008.3	1019.1	919.2	862.7
82.5°	119.5	141.2	160.8	158.6	195.6	234.7	278.1	302.0	291.2	241.2	228.2
85°	50.0	65.2	69.5	65.2	80.4	89.1	104.3	106.5	123.9	110.8	117.3
87.5°	0.0	2.2	2.2	0.0	4.3	0.0	4.3	2.2	10.9	4.3	13.0
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°	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	453.5	453.0	452.5	452.0	452.2	452.5	452.8	453.0
150°	470.8	471.0	470.6	470.5	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	518.5	518.0	517.5	517.0	517.2	517.5	517.8	518.0
160°	532.0	532.0	531.6	531.5	531.0	530.5	530.0	530.0	530.0	530.0	530.0
162.5°	541.8	542.0	541.6	541.5	541.0	540.5	540.0	539.5	539.0	538.5	538.0
165°	552.8	553.0	552.4	552.2	551.5	550.8	550.0	549.5	549.0	548.5	548.0
167.5°	560.0	560.0	559.6	559.5	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	568.5	568.0	567.5	567.0	567.2	567.5	567.8	568.0
175°	572.8	573.0	572.4	572.2	571.5	570.8	570.0	569.5	569.0	568.5	568.0
177.5°	577.0	577.0	576.4	576.2	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°	849.6	849.6	849.6	849.6	849.6	849.6	849.6	849.6	849.6	849.6	849.6
2.5°	834.4	845.3	834.4	845.3	838.8	845.3	843.1	845.3	834.4	845.3	832.3
5°	819.2	836.6	821.4	834.4	821.4	836.6	836.6	836.6	821.4	838.8	823.6
7.5°	806.2	825.7	806.2	825.7	812.7	827.9	827.9	834.4	817.1	836.6	814.9
10°	793.2	817.1	793.2	821.4	799.7	823.6	825.7	830.1	806.2	832.3	810.5
12.5°	786.6	817.1	788.8	817.1	791.0	823.6	825.7	830.1	804.0	836.6	808.4
15°	786.6	819.2	788.8	819.2	791.0	823.6	827.9	832.3	804.0	838.8	808.4
17.5°	786.6	819.2	793.2	821.4	795.3	825.7	830.1	834.4	808.4	838.8	812.7
20°	793.2	823.6	797.5	827.9	801.8	832.3	834.4	841.0	812.7	841.0	817.1
22.5°	808.4	834.4	812.7	841.0	821.4	845.3	847.5	854.0	832.3	856.2	836.6
25°	834.4	862.7	845.3	867.0	856.2	875.7	880.1	880.1	871.4	886.6	880.1
27.5°	888.8	910.5	897.5	917.0	910.5	925.7	925.7	927.9	934.4	938.7	945.3
30°	958.3	973.5	969.2	980.0	982.2	990.9	990.9	1003.9	1030.0	1003.9	1001.8
32.5°	1051.7	1060.4	1062.6	1067.0	1075.6	1082.2	1090.9	1106.1	1127.8	1067.0	1047.4
35°	1166.9	1169.1	1175.6	1182.1	1197.3	1201.7	1229.9	1219.1	1219.1	1123.4	1082.2
37.5°	1292.9	1292.9	1310.3	1310.3	1347.3	1349.4	1377.7	1321.2	1288.6	1164.7	1103.9
40°	1451.6	1449.4	1469.0	1473.3	1523.3	1525.5	1521.1	1397.2	1327.7	1175.6	1093.0
42.5°	1618.9	1625.4	1651.5	1660.2	1697.1	1710.2	1655.8	1449.4	1345.1	1169.1	1056.1
45°	1801.4	1814.5	1847.1	1871.0	1910.1	1894.9	1764.5	1473.3	1325.5	1130.0	984.4
47.5°	2001.3	2014.4	2040.5	2086.1	2103.5	2086.1	1853.6	1482.0	1295.1	1069.1	880.1
50°	2203.4	2225.2	2262.1	2327.3	2336.0	2292.5	1962.2	1514.6	1271.2	1006.1	760.6
52.5°	2431.6	2453.3	2496.8	2605.4	2583.7	2494.6	2090.4	1575.4	1277.7	967.0	658.4
55°	2672.8	2703.2	2788.0	2894.5	2846.6	2707.6	2231.7	1664.5	1303.8	925.7	545.4
57.5°	2927.1	2959.6	3070.5	3196.5	3103.1	2916.2	2375.1	1734.1	1316.8	841.0	421.6
60°	3179.1	3224.8	3368.2	3472.5	3326.9	3094.4	2503.3	1779.7	1282.1	680.2	326.0
62.5°	3409.5	3483.3	3644.1	3700.6	3468.1	3207.4	2572.8	1747.1	1140.8	469.4	262.9
65°	3572.4	3668.0	3772.4	3765.8	3442.1	3170.4	2520.7	1597.2	849.6	310.7	223.8
67.5°	3642.0	3731.1	3755.0	3644.1	3255.2	3007.5	2333.8	1286.4	488.9	232.5	195.6
70°	3668.0	3744.1	3609.4	3342.1	2890.1	2607.6	1907.9	819.2	267.3	189.1	169.5
71°	3657.2	3694.1	3437.7	3124.8	2657.6	2362.1	1673.2	623.7	228.2	176.0	160.8
72.5°	3509.4	3457.3	3061.8	2714.1	2253.4	1953.5	1301.6	393.3	186.9	158.6	149.9
75°	2868.4	2633.7	2253.4	1925.3	1534.1	1227.8	706.2	202.1	149.9	136.9	130.4
77.5°	1875.3	1671.0	1358.1	1103.9	838.8	636.7	289.0	139.1	119.5	115.2	113.0
80°	669.3	536.7	406.4	356.4	269.5	221.6	141.2	106.5	93.4	95.6	93.4
82.5°	189.1	173.8	149.9	139.1	121.7	119.5	91.3	80.4	73.9	78.2	76.1
85°	93.4	80.4	58.7	56.5	43.5	50.0	45.6	54.3	47.8	50.0	45.6
87.5°	6.5	8.7	2.2	6.5	0.0	6.5	8.7	10.9	2.2	8.7	6.5
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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REPORT NUMBER: P  
 CATALOG NUMBER:

**DISTRIBUTION (continued):**

**CANDELA DISTRIBUTION**

110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°	110°	110°
849.6	849.6	849.6	849.6	849.6	849.6	849.6	849.6	849.6	849.6	849.6	110°	113.5
847.5	838.8	849.6	838.8	849.6	843.1	849.6	843.1	849.6	854.0	854.0	112.5°	135.5
843.1	827.9	847.5	836.6	849.6	838.8	847.5	841.0	851.8	856.2	860.5	115°	158.0
841.0	825.7	845.3	830.1	849.6	834.4	847.5	838.8	851.8	856.2	864.9	117.5°	180.5
838.8	819.2	845.3	823.6	847.5	832.3	847.5	834.4	849.6	854.0	856.2	120°	204.0
838.8	817.1	845.3	821.4	847.5	825.7	845.3	825.7	847.5	845.3	838.8	122.5°	228.5
841.0	812.7	845.3	817.1	845.3	819.2	843.1	817.1	838.8	832.3	827.9	125°	254.0
841.0	812.7	843.1	814.9	841.0	817.1	836.6	812.7	832.3	830.1	823.6	127.5°	277.5
845.3	817.1	843.1	823.6	843.1	819.2	834.4	812.7	827.9	814.9	788.8	130°	301.5
858.3	838.8	858.3	838.8	847.5	825.7	832.3	806.2	804.0	782.3	741.0	132.5°	325.5
888.8	880.1	875.7	851.8	845.3	817.1	808.4	777.9	767.1	734.5	678.0	135°	348.5
927.9	908.3	882.2	854.0	825.7	791.0	767.1	743.2	719.3	678.0	606.3	137.5°	369.5
954.0	925.7	871.4	832.3	780.1	751.9	710.6	684.5	649.7	597.6	528.0	140°	391.0
971.3	927.9	845.3	799.7	730.1	693.2	638.9	610.6	560.6	510.7	460.7	142.5°	412.5
975.7	919.2	810.5	760.6	669.3	628.0	556.3	525.9	478.1	443.3	423.7	145°	433.5
958.3	888.8	756.2	691.0	591.1	543.3	475.9	454.2	425.9	412.9	404.2	147.5°	452.5
923.5	830.1	671.5	595.4	493.3	456.3	421.6	421.6	406.4	399.8	384.6	150°	469.0
860.5	743.2	562.8	488.9	419.4	412.9	393.3	402.0	391.1	386.8	365.1	152.5°	486.0
762.7	619.3	454.2	410.7	378.1	382.5	369.4	378.1	371.6	369.4	343.3	155°	503.5
636.7	493.3	382.5	367.2	345.5	352.0	341.2	352.0	345.5	347.7	328.1	157.5°	517.5
508.5	399.8	339.0	330.3	315.1	319.4	312.9	323.8	321.6	330.3	319.4	160°	530.0
406.4	341.2	302.0	295.5	286.8	289.0	286.8	297.7	299.9	317.3	317.3	162.5°	539.0
336.8	293.4	271.6	269.5	260.8	262.9	265.1	276.0	284.7	306.4	317.3	165°	549.0
289.0	262.9	247.7	245.6	241.2	243.4	247.7	260.8	269.5	297.7	321.6	167.5°	558.5
254.2	239.0	228.2	228.2	223.8	228.2	232.5	245.6	256.4	289.0	312.9	170°	565.0
228.2	217.3	210.8	213.0	210.8	215.1	219.5	232.5	245.6	276.0	299.9	172.5°	567.5
204.3	197.7	193.4	195.6	195.6	202.1	206.4	219.5	230.3	258.6	289.0	175°	569.0
184.7	180.4	178.2	180.4	182.5	189.1	195.6	204.3	213.0	239.0	273.8	177.5°	574.0
169.5	165.1	165.1	165.1	167.3	173.8	182.5	186.9	195.6	223.8	256.4	180°	576.0
160.8	158.6	158.6	158.6	160.8	167.3	176.0	180.4	189.1	217.3	247.7		
149.9	149.9	152.1	149.9	154.3	156.5	165.1	169.5	180.4	208.6	236.9		
132.6	132.6	134.7	134.7	139.1	139.1	145.6	149.9	163.0	186.9	213.0		
117.3	117.3	121.7	119.5	119.5	115.2	123.9	128.2	139.1	163.0	189.1		
100.0	97.8	102.1	95.6	93.4	89.1	95.6	102.1	119.5	134.7	139.1		
78.2	71.7	73.9	67.4	67.4	63.0	69.5	71.7	82.6	97.8	106.5		
47.8	39.1	43.5	36.9	41.3	36.9	39.1	41.3	50.0	60.8	58.7		
10.9	6.5	8.7	2.2	6.5	0.0	6.5	2.2	6.5	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	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: P227683  
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**TION (continued):**

**CANDELA DISTRIBUTION (con**

112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°		155°	165°
113.8	114.0	114.0	114.0	114.0	114.0	113.5	113.0	112.0	110.0	0°	849.6	849.6
135.8	136.0	136.0	136.0	136.0	136.0	135.5	135.0	134.0	132.0	2.5°	858.3	856.2
158.0	158.0	158.0	158.0	158.0	158.0	157.5	157.0	156.0	154.0	5°	869.2	869.2
180.8	181.0	180.8	180.5	180.2	180.0	179.8	179.5	179.0	177.0	7.5°	871.4	875.7
204.0	204.0	204.0	204.0	204.0	204.0	203.5	203.0	202.0	201.0	10°	856.2	851.8
228.2	228.0	228.0	228.0	228.0	228.0	227.8	227.5	227.0	226.0	12.5°	832.3	827.9
254.0	254.0	253.8	253.5	253.2	253.0	252.8	252.5	252.0	251.0	15°	830.1	827.9
277.2	277.0	277.2	277.5	277.8	278.0	277.5	277.0	276.0	274.0	17.5°	814.9	804.0
301.2	301.0	301.0	301.0	301.0	301.0	300.5	300.0	299.0	298.0	20°	771.4	751.9
325.2	325.0	325.0	325.0	325.0	325.0	324.2	323.5	322.0	321.0	22.5°	710.6	682.3
348.2	348.0	348.0	348.0	348.0	348.0	347.2	346.5	345.0	345.0	25°	636.7	597.6
369.2	369.0	369.0	369.0	369.0	369.0	368.5	368.0	367.0	367.0	27.5°	556.3	517.2
390.5	390.0	390.0	390.0	390.0	390.0	389.8	389.5	389.0	388.0	30°	493.3	462.9
412.2	412.0	412.0	412.0	412.0	412.0	411.5	411.0	410.0	410.0	32.5°	447.6	430.3
433.2	433.0	433.2	433.5	433.8	434.0	433.5	433.0	432.0	431.0	35°	410.7	399.8
452.2	452.0	452.5	453.0	453.5	454.0	453.8	453.5	453.0	452.0	37.5°	386.8	369.4
469.0	469.0	469.5	470.0	470.5	471.0	470.8	470.5	470.0	469.0	40°	362.9	341.2
486.0	486.0	486.2	486.5	486.8	487.0	486.8	486.5	486.0	485.0	42.5°	341.2	319.4
503.2	503.0	503.2	503.5	503.8	504.0	503.8	503.5	503.0	503.0	45°	319.4	304.2
517.2	517.0	517.5	518.0	518.5	519.0	519.0	519.0	519.0	519.0	47.5°	308.6	295.5
530.0	530.0	530.5	531.0	531.5	532.0	532.0	532.0	532.0	532.0	50°	304.2	291.2
539.5	540.0	540.5	541.0	541.5	542.0	541.8	541.5	541.0	541.0	52.5°	308.6	297.7
549.5	550.0	550.8	551.5	552.2	553.0	552.8	552.5	552.0	552.0	55°	317.3	310.7
558.2	558.0	558.5	559.0	559.5	560.0	560.0	560.0	560.0	561.0	57.5°	308.6	297.7
564.5	564.0	564.2	564.5	564.8	565.0	565.2	565.5	566.0	567.0	60°	289.0	271.6
567.2	567.0	567.5	568.0	568.5	569.0	568.8	568.5	568.0	569.0	62.5°	276.0	258.6
569.5	570.0	570.8	571.5	572.2	573.0	572.8	572.5	572.0	572.0	65°	265.1	252.1
574.0	574.0	574.8	575.5	576.2	577.0	577.0	577.0	577.0	578.0	67.5°	254.2	241.2
576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	70°	241.2	228.2
										71°	234.7	219.5
										72.5°	223.8	206.4
										75°	202.1	184.7
										77.5°	167.3	147.8
										80°	128.2	115.2
										82.5°	95.6	84.7
										85°	50.0	39.1
										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°
849.6	849.6
858.3	856.2
871.4	873.6
880.1	877.9
856.2	851.8
832.3	832.3
830.1	830.1
799.7	797.5
747.5	741.0
673.6	667.1
582.4	573.7
502.0	502.0
447.6	447.6
419.4	421.6
393.3	395.5
354.2	354.2
321.6	321.6
306.4	304.2
293.4	291.2
284.7	282.5
276.0	276.0
269.5	269.5
269.5	265.1
271.6	265.1
267.3	262.9
267.3	265.1
271.6	267.3
271.6	262.9
247.7	232.5
234.7	221.6
210.8	202.1
180.4	178.2
141.2	139.1
115.2	108.7
82.6	71.7
32.6	32.6
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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