

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: ITL54981\_320MP

Luminaire Tested: **GSM-XX-320-MP-XX-SL-FG-XX-X**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: ITL54981\_320MP  
Test Lab: INDEPENDENT TESTING LABORATORIES, INC.  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GSM-XX-320-MP-XX-SL-FG-XX-X  
Description: MEDIUM ARCHITECTURAL AREA LUMINAIRE-HORIZONTAL LAMP-SPILL LIGHT ELIMINATOR  
Light Source: 320 WATT PULSE-START CLEAR ED-28 HORIZONTAL BURN  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 30000 (1 lamp)  
Luminaire Lumens: 17588.4 lumens  
Efficiency: 58.6%  
Efficacy: 50.3 lumens/watt  
Luminous Opening: Rectangular (W 0.99' x L: 1.01' x H: 0')  
IES Classification: Type IV - Short - Full Cutoff  
BUG Rating: B1 - U0 - G3

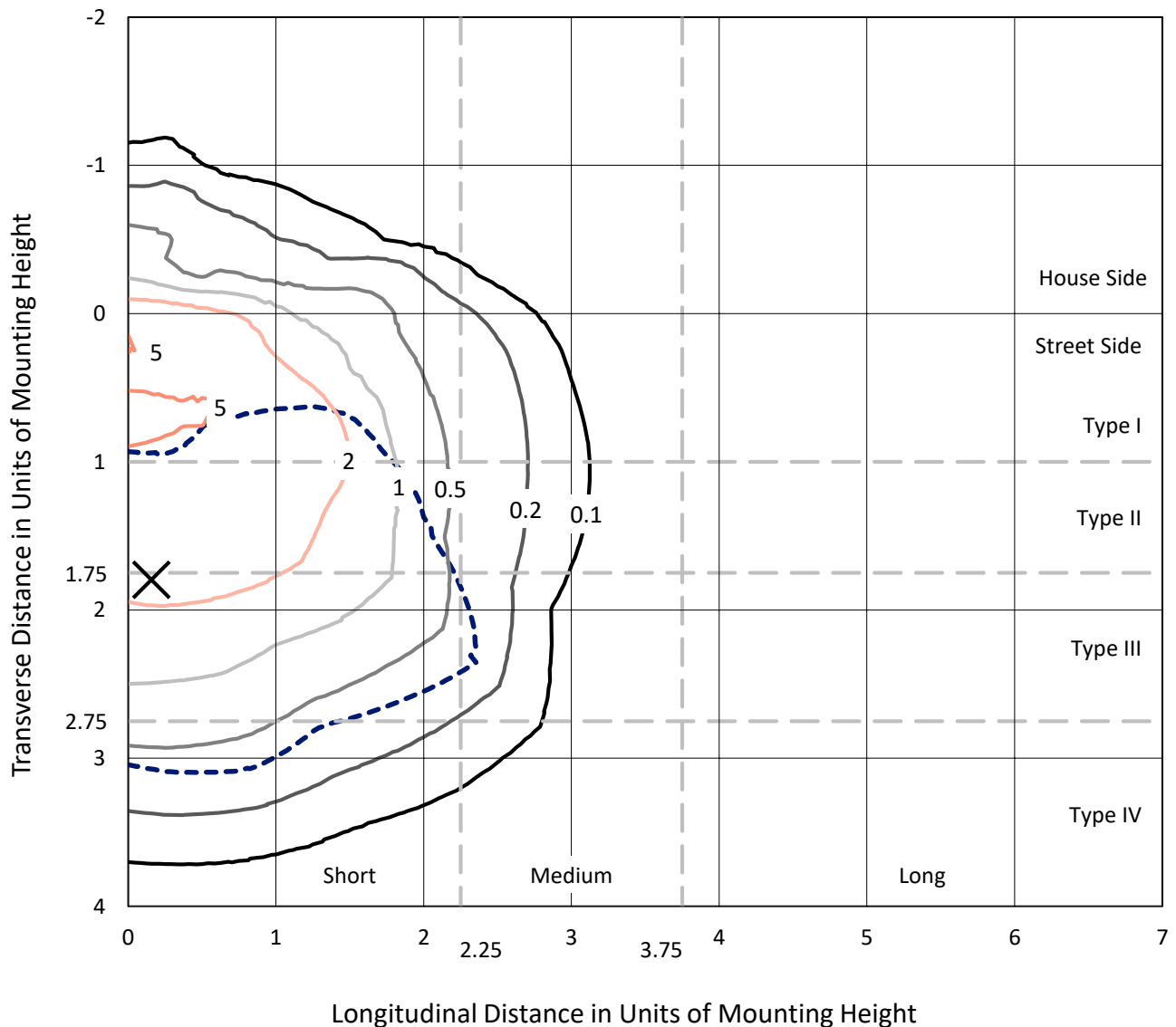
Input Watts (W): 350  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

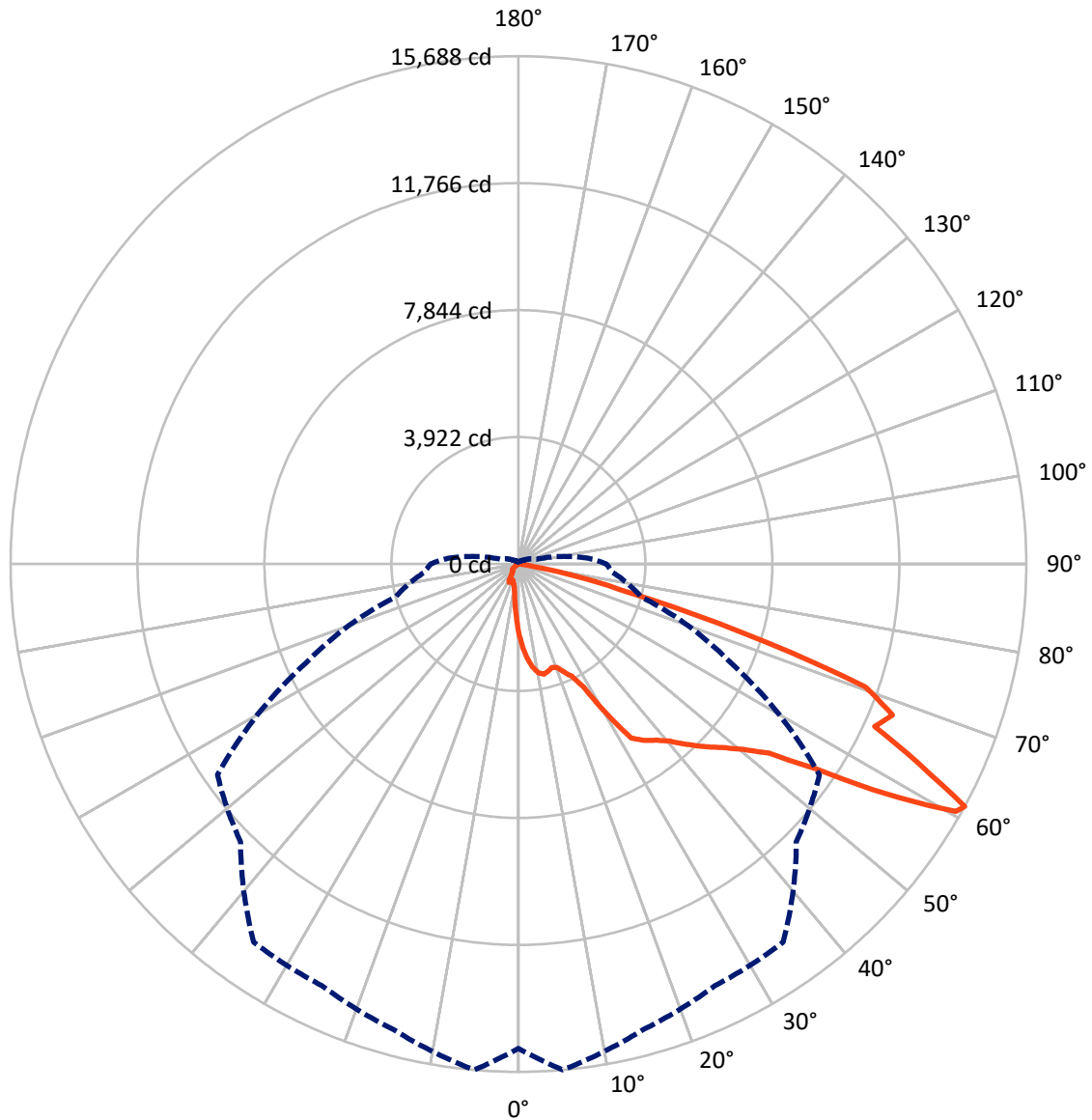
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc  
 Type IV - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 5-Deg Lateral      - - - Horizontal Cone Through 61-Deg Vertical

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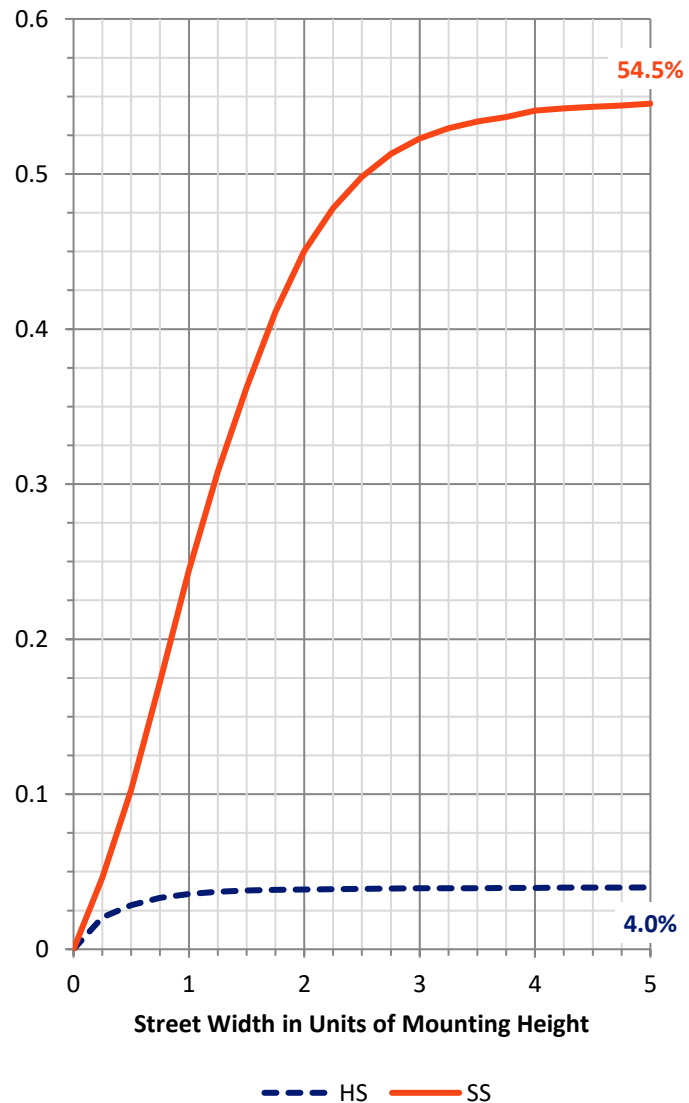
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1209.8	0.0	1209.8
	% Lamp	4.0	0.0	4.0
<b>Street Side</b>	Lumens	16378.6	0.0	16378.6
	% Lamp	54.6	0.0	54.6
<b>Total</b>	Lumens	17588.4	0.0	17588.4
	% Lamp	58.6	0.0	58.6

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	204.2	1.2	0.7
10°-20°	578.6	3.3	1.9
20°-30°	983.6	5.6	3.3
30°-40°	1800.7	10.2	6.0
40°-50°	2697.4	15.3	9.0
50°-60°	4304.3	24.5	14.3
60°-70°	4959.1	28.2	16.5
70°-80°	1965.7	11.2	6.6
80°-90°	94.9	0.5	0.3
90°-100°	0.0	0.0	0.0
100°-110°	0.0	0.0	0.0
110°-120°	0.0	0.0	0.0
120°-130°	0.0	0.0	0.0
130°-140°	0.0	0.0	0.0
140°-150°	0.0	0.0	0.0
150°-160°	0.0	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-90°	17588.4	100.0	58.6
0°-180°	17588.4	100.0	58.6

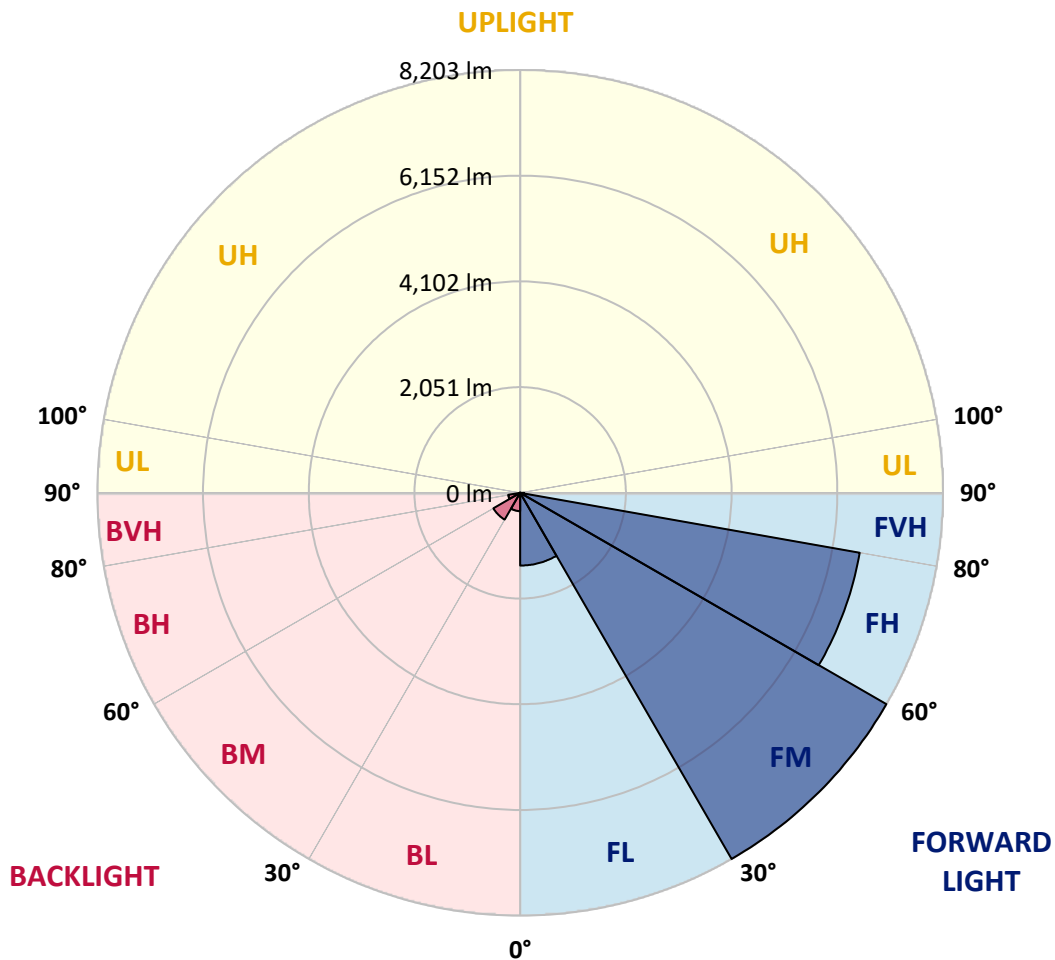


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1411.4	4.7			
FM (30°-60°)	8203.2	27.3			
FH (60°-80°)	6689.2	22.3			G3/7500
FVH (80°-90°)	74.9	0.2			G1/100
BL (0°-30°)	355.0	1.2	B1/500		
BM (30°-60°)	599.2	2.0	B1/1000		
BH (60°-80°)	235.7	0.8	B1/500		G1/500
BVH (80°-90°)	19.9	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	
Trapped Light	12411.6	41.4			

**BUG Rating: B1-U0-G3**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2153.3	2153.3	2153.3	2153.3	2153.3	2153.3	2153.3	2153.3	2153.3	2153.3	2153.3
2.5°	2620.8	2574.2	2574.2	2537.5	2509.2	2490.8	2444.2	2388.3	2305.0	2249.2	2184.2
5°	2974.2	2936.7	2927.5	2900.0	2853.3	2788.3	2714.2	2593.3	2472.5	2276.7	2202.5
7.5°	3234.2	3225.0	3206.7	3141.7	3085.8	3011.7	2900.0	2760.0	2565.0	2323.3	2193.3
10°	3439.2	3420.0	3383.3	3290.0	3197.5	3122.5	3039.2	2936.7	2676.7	2370.0	2193.3
12.5°	3475.8	3495.0	3466.7	3420.0	3355.0	3215.8	3141.7	3030.0	2770.0	2397.5	2175.0
15°	3420.0	3439.2	3457.5	3466.7	3448.3	3383.3	3206.7	3095.0	2835.0	2360.8	2090.8
17.5°	3345.8	3355.0	3392.5	3439.2	3495.0	3457.5	3374.2	3169.2	2890.8	2342.5	2035.8
20°	3420.0	3410.8	3466.7	3485.0	3522.5	3531.7	3513.3	3327.5	3001.7	2397.5	2063.3
22.5°	3643.3	3625.0	3699.2	3680.8	3540.8	3550.0	3605.8	3448.3	3104.2	2472.5	2100.8
25°	3866.7	3847.5	3894.2	3782.5	3531.7	3560.0	3726.7	3485.0	3085.8	2472.5	2100.8
27.5°	4386.7	4312.5	4200.8	3950.0	3634.2	3745.8	4043.3	3475.8	3011.7	2416.7	2054.2
30°	5557.5	5362.5	5046.7	4433.3	4005.8	4135.8	4610.0	3690.0	3066.7	2481.7	2090.8
32.5°	6524.2	6413.3	6106.7	5390.8	4693.3	4665.8	5232.5	4061.7	3280.8	2649.2	2202.5
35°	6655.0	6691.7	6589.2	6180.8	5641.7	5409.2	5678.3	4312.5	3457.5	2815.8	2305.0
37.5°	6989.2	6905.8	6794.2	6645.0	6608.3	6199.2	5901.7	4340.0	3522.5	2927.5	2360.8
40°	7268.3	7193.3	7082.5	6951.7	7249.2	7110.0	5930.0	4321.7	3466.7	2927.5	2342.5
42.5°	7658.3	7611.7	7463.3	7463.3	7807.5	7695.8	5901.7	4377.5	3374.2	2797.5	2230.8
45°	8085.8	8048.3	7835.0	7965.0	8392.5	7937.5	6338.3	4619.2	3485.0	2723.3	2110.0
47.5°	8531.7	8466.7	8197.5	8244.2	8820.0	8597.5	7286.7	4981.7	3755.0	2649.2	2054.2
50°	9034.2	8996.7	8717.5	8448.3	9694.2	10214.2	8392.5	5650.8	3977.5	2611.7	2072.5
52.5°	9721.7	9694.2	9442.5	9043.3	11125.0	11747.5	9312.5	6580.0	4052.5	2695.0	2202.5
55°	11357.5	11180.8	10549.2	10232.5	12602.5	12695.8	10623.3	7425.8	4108.3	2945.8	2546.7
57.5°	13513.3	13402.5	12398.3	11617.5	13318.3	12528.3	12008.3	7751.7	4005.8	3085.8	2927.5
60°	15149.2	15520.8	14517.5	13671.7	13978.3	12194.2	11812.5	7676.7	3856.7	2965.0	2862.5
61°	14963.3	15688.3	14889.2	14369.2	14257.5	12138.3	11348.3	7249.2	3922.5	2909.2	2714.2
62.5°	12937.5	14248.3	14730.8	14982.5	14703.3	12017.5	10632.5	6505.8	4098.3	2880.8	2472.5
65°	11450.0	12091.7	12965.0	14025.0	14712.5	11552.5	9684.2	5799.2	3968.3	2900.0	2249.2
67.5°	12621.7	12463.3	12640.0	11608.3	13290.8	12668.3	7955.8	5335.0	3810.8	2741.7	2054.2
70°	11004.2	11366.7	11487.5	9889.2	10780.8	11961.7	6096.7	4377.5	3290.0	2342.5	1617.5
72.5°	6487.5	7147.5	7872.5	7137.5	7900.0	8885.0	4600.8	3410.8	2444.2	1403.3	892.5
75°	3327.5	3504.2	3866.7	3903.3	4684.2	5214.2	1905.0	2016.7	1765.8	938.3	557.5
77.5°	1524.2	1821.7	2230.8	2574.2	2490.8	1840.0	864.2	855.0	780.8	445.8	325.0
80°	445.8	492.5	631.7	808.3	771.7	557.5	465.0	371.7	400.0	232.5	195.0
82.5°	148.3	148.3	195.0	241.7	250.8	195.0	139.2	148.3	185.8	139.2	120.8
85°	55.8	55.8	74.2	83.3	83.3	74.2	74.2	74.2	83.3	83.3	65.0
87.5°	0.0	0.0	18.3	27.5	37.5	37.5	37.5	37.5	46.7	46.7	46.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2153.3	2153.3	2153.3	2153.3	2153.3	2153.3	2153.3	2153.3	2153.3	2153.3
2.5°	2137.5	2063.3	1989.2	1895.8	1821.7	1784.2	1719.2	1700.8	1663.3	1710.0
5°	2110.0	1960.8	1812.5	1673.3	1533.3	1440.8	1347.5	1282.5	1264.2	1300.8
7.5°	2072.5	1830.8	1607.5	1403.3	1235.8	1125.0	1031.7	975.8	938.3	966.7
10°	2025.8	1700.8	1403.3	1170.8	975.8	864.2	799.2	762.5	743.3	762.5
12.5°	1960.8	1561.7	1226.7	948.3	771.7	687.5	660.0	660.0	660.0	669.2
15°	1830.8	1365.8	1013.3	762.5	622.5	595.0	604.2	613.3	622.5	631.7
17.5°	1738.3	1217.5	845.8	631.7	539.2	548.3	566.7	575.8	566.7	575.8
20°	1710.0	1105.8	715.8	539.2	483.3	492.5	510.8	520.8	520.8	539.2
22.5°	1710.0	1022.5	604.2	465.0	436.7	436.7	455.0	492.5	520.8	520.8
25°	1710.0	966.7	510.8	409.2	390.0	400.0	455.0	510.8	548.3	539.2
27.5°	1663.3	910.8	474.2	371.7	353.3	409.2	492.5	566.7	641.7	631.7
30°	1654.2	864.2	474.2	362.5	344.2	418.3	557.5	595.0	585.8	613.3
32.5°	1663.3	817.5	492.5	371.7	353.3	445.8	492.5	445.8	409.2	427.5
35°	1682.5	808.3	520.8	418.3	380.8	390.0	400.0	362.5	335.0	335.0
37.5°	1635.8	780.8	530.0	445.8	380.8	362.5	371.7	371.7	325.0	315.8
40°	1561.7	762.5	510.8	427.5	371.7	344.2	380.8	344.2	279.2	297.5
42.5°	1477.5	715.8	465.0	418.3	353.3	297.5	335.0	315.8	250.8	260.0
45°	1412.5	687.5	436.7	400.0	306.7	250.8	269.2	288.3	241.7	241.7
47.5°	1412.5	687.5	436.7	371.7	297.5	223.3	223.3	269.2	223.3	223.3
50°	1459.2	687.5	455.0	353.3	269.2	204.2	195.0	241.7	223.3	223.3
52.5°	1570.8	669.2	445.8	344.2	260.0	176.7	185.8	250.8	223.3	204.2
55°	1868.3	641.7	409.2	315.8	232.5	176.7	167.5	130.0	83.3	74.2
57.5°	2221.7	604.2	418.3	269.2	204.2	148.3	93.3	74.2	65.0	74.2
60°	2267.5	585.8	400.0	223.3	167.5	111.7	83.3	74.2	65.0	74.2
61°	2137.5	566.7	371.7	204.2	158.3	102.5	93.3	74.2	74.2	74.2
62.5°	1849.2	548.3	335.0	176.7	120.8	102.5	93.3	74.2	65.0	55.8
65°	1421.7	445.8	269.2	120.8	102.5	102.5	83.3	83.3	65.0	74.2
67.5°	1152.5	371.7	204.2	102.5	93.3	93.3	93.3	83.3	74.2	74.2
70°	845.8	306.7	158.3	93.3	83.3	83.3	83.3	83.3	74.2	74.2
72.5°	539.2	241.7	139.2	83.3	83.3	83.3	83.3	74.2	65.0	74.2
75°	362.5	204.2	102.5	74.2	74.2	74.2	83.3	74.2	65.0	55.8
77.5°	260.0	148.3	83.3	65.0	65.0	65.0	65.0	65.0	46.7	55.8
80°	167.5	93.3	65.0	55.8	46.7	46.7	65.0	46.7	46.7	37.5
82.5°	93.3	65.0	46.7	46.7	46.7	46.7	37.5	46.7	27.5	37.5
85°	65.0	46.7	37.5	37.5	27.5	27.5	27.5	27.5	9.2	18.3
87.5°	37.5	37.5	37.5	37.5	27.5	27.5	9.2	9.2	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

(END OF REPORT)