

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: P458701

Luminaire Tested: **GALN-SA2C-735-U-SLR-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458701  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-23)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2C-735-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9458 lumens  
Efficiency: N/A  
Efficacy: 87.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 108  
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: 24 FT

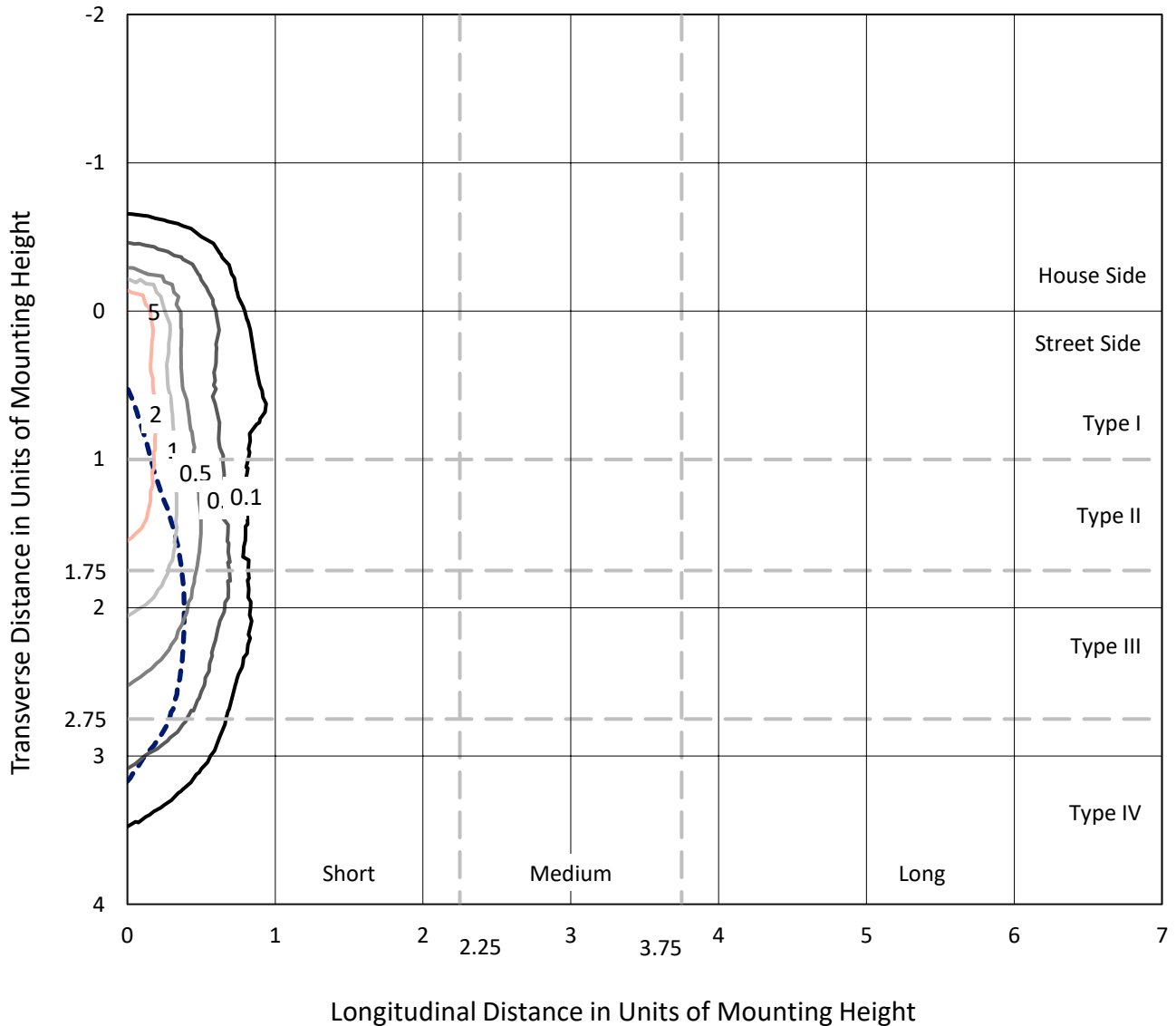




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### Iso-Footcandle Lines of Horizontal Illumination

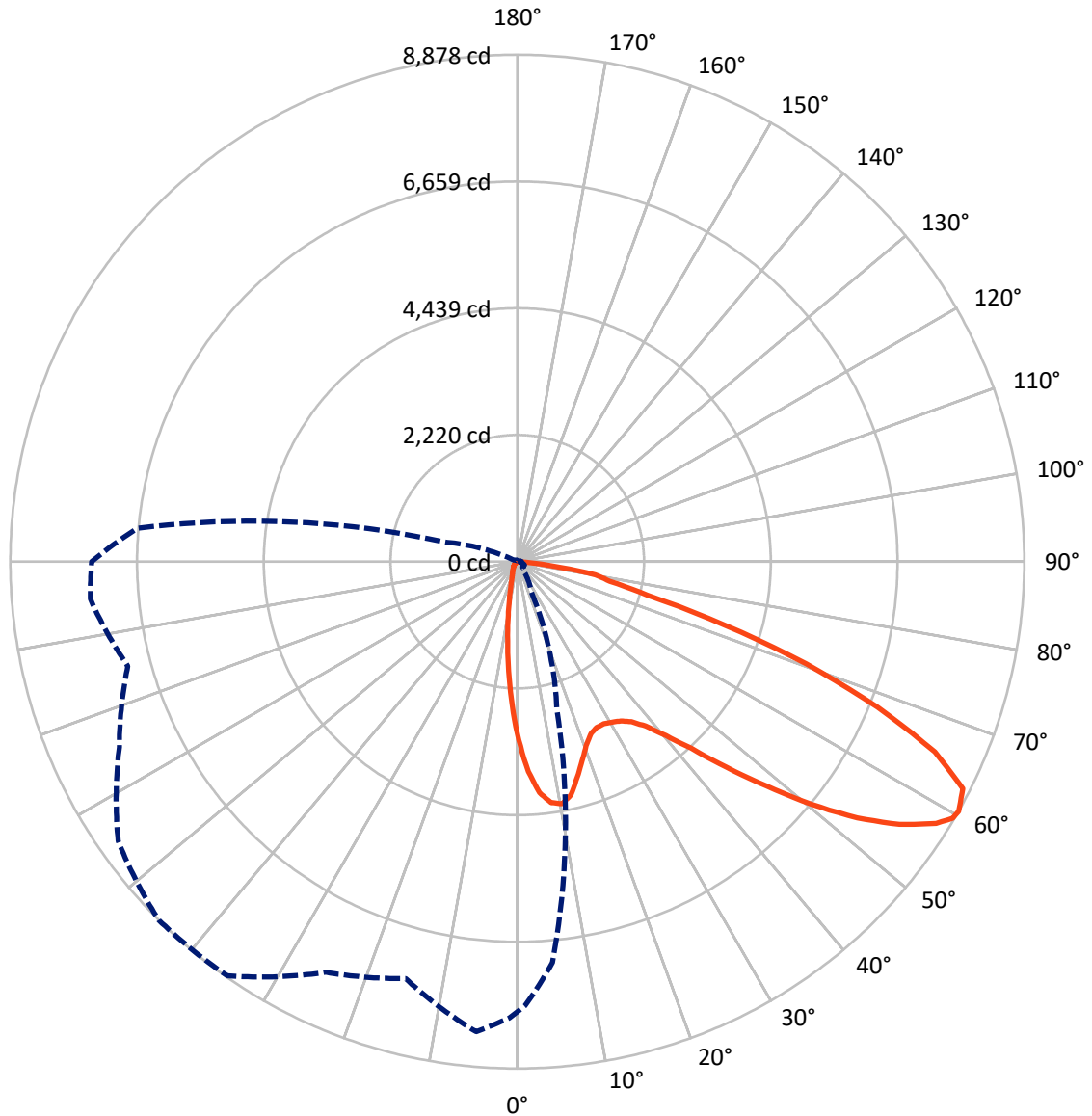
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral    - - - Horizontal Cone Through 60-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1166.5	0.0	1166.5
	% Fixture	12.3	0.0	12.3
<b>Street Side</b>	Lumens	8291.5	0.0	8291.5
	% Fixture	87.7	0.0	87.7
<b>Total</b>	Lumens	9458.0	0.0	9458.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	232.5	2.5
10°-20°	461.7	4.9
20°-30°	677.1	7.2
30°-40°	1006.9	10.6
40°-50°	1465.3	15.5
50°-60°	2113.1	22.3
60°-70°	2324.2	24.6
70°-80°	1041.1	11.0
80°-90°	136.0	1.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	9458.0	100.0
0°-180°	9458.0	100.0

**Coefficient of Utilization**



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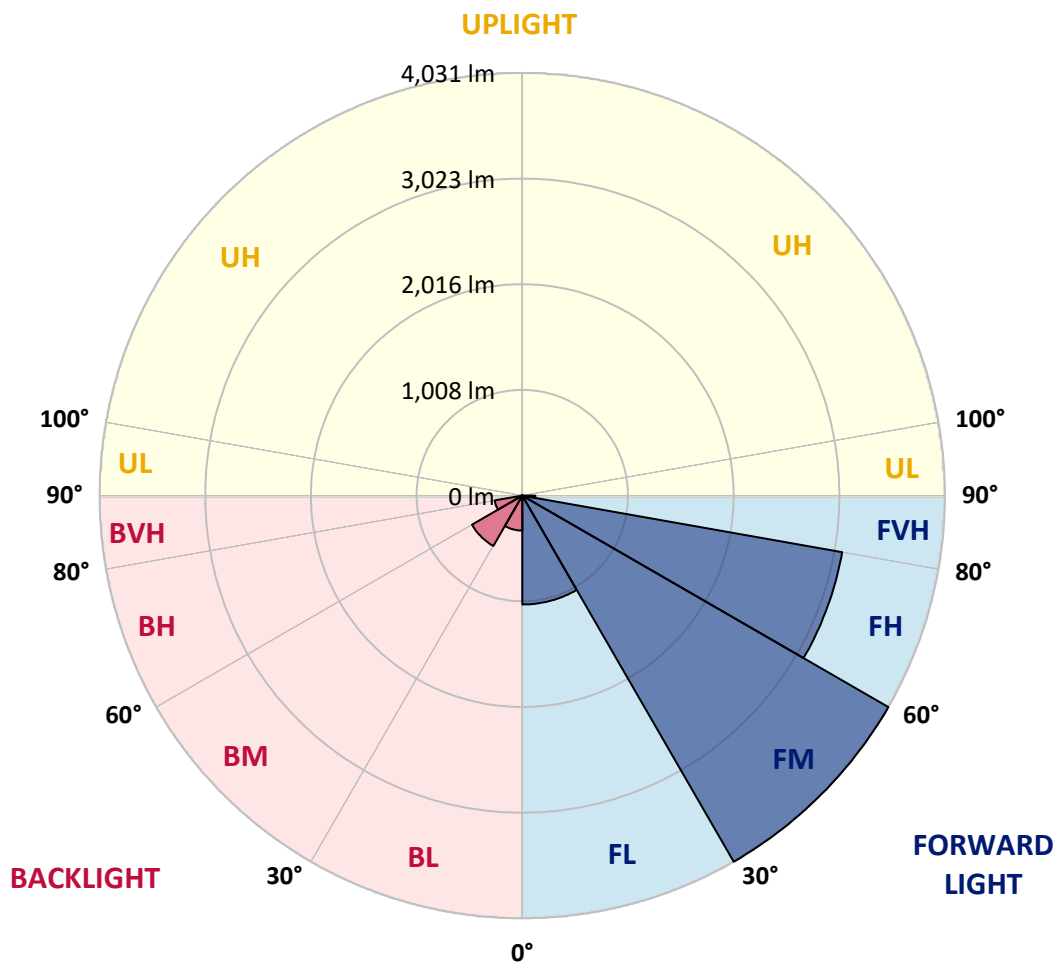
CATALOG NUMBER: GALN-SA2C-735-U-SLR-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1038.0	11.0			
FM (30°-60°)	4031.3	42.6			
FH (60°-80°)	3097.8	32.8			G2/5000
FVH (80°-90°)	124.4	1.3			G2/225
BL (0°-30°)	333.3	3.5	B1/500		
BM (30°-60°)	554.1	5.9	B1/1000		
BH (60°-80°)	267.5	2.8	B1/500		G1/500
BVH (80°-90°)	11.6	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3126.0	3126.0	3126.0	3126.0	3126.0	3126.0	3126.0	3126.0	3126.0	3126.0	3126.0
2.5°	3436.6	3421.5	3387.0	3282.0	3190.7	3071.4	2950.6	2855.7	2797.4	2690.3	2641.4
5°	3329.5	3336.7	3236.7	3021.0	2780.9	2617.0	2438.0	2295.6	2138.9	2039.7	1935.4
7.5°	3049.8	3035.4	2926.9	2626.3	2334.4	2097.2	1870.7	1686.7	1570.9	1478.2	1400.5
10°	2810.4	2799.6	2660.8	2274.0	1960.6	1783.0	1629.9	1468.8	1344.4	1208.6	1100.0
12.5°	2660.1	2635.7	2476.1	2072.0	1816.8	1651.4	1484.6	1317.1	1145.3	1008.0	876.4
15°	2609.8	2574.6	2397.0	2002.3	1724.8	1514.8	1305.6	1112.9	915.2	763.5	664.3
17.5°	2701.1	2642.9	2453.8	1990.1	1614.8	1336.5	1079.1	828.2	622.6	506.9	445.8
20°	2910.3	2843.5	2597.6	1977.8	1492.5	1136.7	820.3	585.2	430.7	367.4	333.6
22.5°	3220.9	3128.9	2810.4	1997.2	1379.7	941.8	592.4	413.4	342.2	302.7	279.0
25°	3594.0	3517.1	3080.0	2066.3	1290.5	788.7	458.0	337.9	288.3	263.9	245.9
27.5°	4003.1	3880.2	3428.7	2148.9	1209.3	670.1	401.9	302.0	256.7	234.4	225.0
30°	4294.3	4198.7	3720.6	2206.5	1107.9	580.9	367.4	297.6	257.4	230.8	213.5
32.5°	4581.9	4459.7	3965.0	2233.1	1033.9	519.1	317.8	259.5	225.8	212.1	194.8
35°	4889.6	4761.6	4208.7	2218.7	978.5	478.1	288.3	231.5	193.4	170.4	153.1
37.5°	5200.9	5065.7	4451.0	2166.9	944.0	461.6	265.3	220.0	182.6	158.9	140.2
40°	5570.4	5390.0	4678.2	2124.5	908.0	452.9	250.2	212.8	174.7	149.5	130.8
42.5°	5872.4	5700.6	4893.2	2102.2	883.6	432.8	250.2	207.1	169.7	141.6	122.2
45°	6158.5	5980.2	5125.4	2120.2	873.5	407.6	253.1	206.3	166.1	135.9	116.5
47.5°	6398.0	6243.4	5364.1	2187.8	860.6	380.3	238.0	216.4	163.9	130.8	110.7
50°	6680.5	6531.0	5679.7	2324.4	837.6	353.0	219.3	232.9	163.2	126.5	105.7
52.5°	7078.8	6917.0	6115.4	2479.7	800.9	311.3	202.0	230.8	160.3	119.3	100.7
55°	7565.5	7434.7	6620.1	2665.9	750.6	264.6	174.7	204.9	151.7	107.1	92.0
57.5°	7877.6	7766.1	6998.3	2746.4	673.7	216.4	153.9	171.8	138.8	95.6	82.0
59°	7914.2	7813.6	7077.4	2719.8	623.3	197.7	143.8	147.4	135.2	89.2	76.2
60°	7883.3	7779.1	7045.7	2668.0	576.6	184.8	135.2	130.8	135.9	85.6	71.9
62.5°	7684.9	7506.6	6738.7	2405.6	504.0	169.7	120.1	107.1	120.1	76.9	64.0
65°	7301.7	7034.2	6131.2	2036.1	475.2	161.0	102.1	89.9	91.3	67.6	55.4
67.5°	6632.3	6295.1	5322.4	1654.3	463.0	161.8	86.3	80.5	70.5	57.5	48.9
70°	5574.0	5237.6	4270.6	1361.0	457.3	161.8	73.3	69.0	59.0	48.2	42.4
72.5°	3949.9	3587.6	2880.8	1069.1	412.0	161.0	62.5	62.5	48.2	40.3	34.5
75°	2231.6	2234.5	1811.0	756.3	342.2	133.0	50.3	49.6	35.2	30.9	25.9
77.5°	1300.6	1277.6	1220.8	325.0	158.9	60.4	35.2	30.2	24.4	22.3	18.7
80°	668.6	550.0	535.6	117.9	56.8	38.1	24.4	17.3	15.8	14.4	12.9
82.5°	197.7	198.4	176.9	47.5	31.6	25.2	12.2	9.3	8.6	7.9	7.9
85°	13.7	8.6	10.1	14.4	19.4	10.1	0.7	2.2	2.2	2.9	3.6
87.5°	1.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3126.0	3126.0	3126.0	3126.0	3126.0	3126.0	3126.0	3126.0	3126.0	3126.0	3126.0
2.5°	2587.5	2619.1	2560.2	2561.6	2512.7	2528.6	2471.0	2489.7	2455.9	2481.8	2558.0
5°	1946.9	1954.1	1906.7	1891.6	1898.8	1928.2	1939.7	1887.2	1909.5	1865.7	1862.8
7.5°	1371.8	1380.4	1353.1	1349.5	1401.2	1389.0	1411.3	1357.4	1306.3	1328.6	1287.6
10°	1065.5	1029.5	973.5	957.6	947.6	954.0	954.0	905.2	898.0	878.6	908.0
12.5°	841.2	797.3	744.1	672.2	654.2	652.8	626.2	583.1	569.4	552.9	577.3
15°	611.1	593.1	548.6	508.3	467.3	459.4	416.3	381.0	334.3	327.8	325.7
17.5°	429.9	403.3	402.6	379.6	355.9	340.1	299.8	259.5	241.6	239.4	239.4
20°	322.1	312.7	297.6	294.8	287.6	269.6	233.7	212.1	203.5	204.2	207.1
22.5°	271.0	264.6	250.9	244.4	241.6	225.8	199.1	184.8	180.5	180.5	181.2
25°	242.3	236.5	221.4	211.4	207.8	196.3	175.4	164.6	161.0	161.0	161.0
27.5°	220.7	213.5	197.7	189.1	182.6	169.7	156.7	145.9	142.4	142.4	143.1
30°	205.6	197.7	183.3	171.8	161.8	150.3	139.5	130.1	125.8	125.1	125.8
32.5°	185.5	178.3	163.9	156.7	145.2	131.6	122.9	114.3	110.0	110.7	110.0
35°	144.5	142.4	132.3	134.4	128.0	116.5	108.6	99.2	94.2	93.5	94.9
37.5°	131.6	122.9	111.4	112.2	110.0	105.7	92.7	82.7	79.1	79.1	79.8
40°	121.5	112.9	99.9	93.5	94.2	94.2	80.5	69.7	66.1	65.4	66.9
42.5°	112.9	104.2	89.9	79.1	76.2	79.8	68.3	57.5	53.9	52.5	53.9
45°	107.1	97.8	81.2	69.0	60.4	64.7	56.1	47.5	43.1	43.1	42.4
47.5°	101.4	92.7	74.8	59.7	50.3	48.2	46.0	38.1	33.8	33.1	33.8
50°	96.3	87.7	67.6	51.8	42.4	37.4	37.4	30.2	27.3	25.9	26.6
52.5°	91.3	82.0	61.1	46.0	36.7	30.2	26.6	24.4	22.3	21.6	22.3
55°	84.1	74.8	54.6	39.5	31.6	25.2	20.8	20.1	18.7	17.3	18.7
57.5°	75.5	66.9	48.2	33.8	25.2	19.4	17.3	16.5	15.1	14.4	14.4
59°	70.5	62.5	44.6	29.5	22.3	17.3	15.8	15.1	13.7	12.2	12.9
60°	67.6	61.1	42.4	27.3	20.1	15.8	14.4	13.7	12.2	11.5	12.2
62.5°	59.7	54.6	37.4	22.3	15.8	11.5	10.1	10.8	10.1	9.3	10.1
65°	52.5	48.2	31.6	17.3	12.2	7.9	7.2	9.3	8.6	7.9	8.6
67.5°	46.7	41.7	26.6	12.9	8.6	4.3	5.0	7.9	7.9	7.2	7.9
70°	40.3	35.9	21.6	9.3	4.3	2.2	3.6	5.8	7.2	6.5	7.2
72.5°	33.1	28.0	16.5	6.5	2.2	0.0	2.2	5.0	7.2	6.5	7.2
75°	25.9	20.8	12.2	3.6	0.0	0.0	0.7	4.3	7.2	6.5	7.2
77.5°	18.7	15.1	7.2	0.7	0.0	0.0	0.7	4.3	7.2	6.5	7.2
80°	12.2	10.8	2.9	0.0	0.0	0.0	0.7	4.3	7.2	7.2	7.9
82.5°	7.9	5.8	0.0	0.0	0.0	0.0	1.4	5.8	7.9	8.6	8.6
85°	3.6	0.0	0.0	0.0	0.0	0.0	2.9	7.2	9.3	9.3	9.3
87.5°	0.0	0.0	0.0	0.0	0.0	1.4	5.0	8.6	10.8	10.8	10.8
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):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	3126.0	3126.0	3126.0	3126.0	3126.0	3126.0	3126.0	3126.0	3126.0	3126.0	3126.0
2.5°	2571.0	2616.3	2680.3	2778.8	2858.6	2984.4	3080.7	3212.3	3345.3	3385.5	3448.1
5°	1892.3	1950.5	2095.7	2228.0	2311.4	2577.4	2745.7	3011.0	3248.9	3363.3	3487.6
7.5°	1314.2	1383.3	1494.0	1678.8	1854.2	2070.6	2342.3	2645.7	2994.4	3157.6	3333.1
10°	922.4	1008.7	1164.7	1316.4	1537.1	1742.7	2010.9	2345.9	2730.6	2923.3	3143.3
12.5°	582.4	659.3	865.6	1036.0	1311.4	1550.1	1797.4	2100.8	2546.5	2744.2	2975.0
15°	332.9	397.6	493.9	712.5	1018.0	1333.7	1642.1	1994.4	2452.3	2696.1	2945.5
17.5°	248.0	265.3	308.4	432.1	710.3	1079.1	1499.0	1962.0	2516.3	2802.5	3087.2
20°	208.5	220.0	240.1	289.0	452.9	831.1	1359.5	1967.8	2723.4	3082.9	3353.2
22.5°	186.9	194.1	210.7	242.3	309.1	605.4	1196.3	2001.6	2974.3	3427.2	3739.3
25°	163.9	173.3	187.6	215.0	257.4	419.9	1035.3	2077.1	3325.9	3864.4	4157.7
27.5°	145.9	154.6	169.0	194.1	225.8	320.7	847.6	2141.8	3696.9	4304.4	4544.5
30°	128.0	136.6	151.0	171.1	199.9	259.5	645.6	2179.9	4057.0	4634.4	4819.1
32.5°	112.9	120.1	133.7	151.7	175.4	220.0	509.0	2140.3	4332.4	4934.2	5057.8
35°	97.8	106.4	117.9	134.4	155.3	187.6	423.5	2003.7	4568.9	5242.6	5287.2
37.5°	82.0	92.0	104.2	119.3	135.9	172.5	340.1	1852.7	4822.0	5627.2	5553.9
40°	69.0	78.4	89.9	106.4	121.5	158.2	261.7	1691.7	5095.2	5988.2	5845.1
42.5°	56.1	66.1	79.8	94.9	120.1	138.0	202.7	1524.9	5340.4	6302.3	6108.2
45°	44.6	53.2	67.6	87.0	119.3	118.6	156.7	1360.3	5525.1	6526.6	6304.5
47.5°	35.2	42.4	56.8	84.8	110.0	100.7	125.8	1258.2	5719.3	6728.7	6454.8
50°	28.0	35.2	48.9	88.4	96.3	86.3	105.7	1274.7	5906.9	6831.5	6516.6
52.5°	23.7	30.9	42.4	69.7	74.1	75.5	92.7	1350.9	6149.2	6941.5	6639.5
55°	20.8	27.3	35.9	48.9	57.5	67.6	84.8	1406.3	6473.4	7177.3	6910.6
57.5°	16.5	23.7	32.4	41.7	47.5	59.0	78.4	1410.6	6766.8	7480.0	7270.8
59°	15.1	21.6	30.2	39.5	42.4	53.2	74.1	1373.9	6777.6	7525.3	7436.1
60°	13.7	20.8	28.8	36.7	40.3	50.3	70.5	1331.5	6679.8	7453.4	7504.4
62.5°	11.5	18.0	25.2	29.5	34.5	41.7	61.1	1177.6	6206.0	7127.7	7377.9
65°	10.1	15.8	21.6	24.4	28.8	35.9	53.9	942.5	5682.6	6686.3	7015.5
67.5°	9.3	14.4	18.7	20.8	25.2	33.1	48.2	665.7	5004.6	6126.2	6471.3
70°	8.6	13.7	16.5	19.4	22.3	28.0	41.0	388.2	3855.0	5144.1	5508.6
72.5°	8.6	12.9	14.4	16.5	19.4	25.2	38.1	209.9	2635.7	3924.0	4395.0
75°	8.6	12.2	12.9	14.4	17.3	23.0	33.8	110.0	1703.9	2726.3	3364.7
77.5°	8.6	11.5	12.9	13.7	16.5	20.1	29.5	69.0	1135.2	1909.5	2274.0
80°	9.3	11.5	12.2	13.7	15.8	18.7	24.4	46.0	667.2	1148.9	1384.0
82.5°	10.1	11.5	12.9	14.4	16.5	18.0	21.6	28.8	307.7	759.9	859.9
85°	10.8	12.2	13.7	15.1	17.3	18.0	20.1	20.8	50.3	342.9	463.7
87.5°	11.5	12.9	14.4	15.8	18.7	18.7	18.7	18.7	17.3	36.7	93.5
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):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3126.0	3126.0	3126.0	3126.0	3126.0	3126.0	3126.0	3126.0	3126.0	3126.0
2.5°	3527.2	3608.4	3665.2	3679.6	3638.6	3619.9	3568.2	3487.6	3438.7	3436.6
5°	3717.0	3907.5	4039.8	4062.1	3983.0	3849.3	3690.4	3485.5	3365.4	3329.5
7.5°	3684.6	4018.2	4231.0	4261.9	4128.9	3873.7	3566.0	3236.0	3105.2	3049.8
10°	3551.6	3958.6	4262.7	4311.6	4134.0	3774.5	3383.4	3015.3	2852.8	2810.4
12.5°	3438.0	3849.3	4119.6	4187.2	4052.7	3694.0	3274.1	2873.7	2699.7	2660.1
15°	3388.4	3719.9	3885.2	3919.7	3897.4	3643.6	3262.6	2852.1	2652.9	2609.8
17.5°	3438.0	3609.9	3630.7	3665.9	3715.5	3638.6	3373.3	2969.3	2754.3	2701.1
20°	3568.2	3514.2	3428.0	3443.1	3556.7	3659.5	3570.3	3228.8	2967.1	2910.3
22.5°	3789.6	3490.5	3295.0	3282.0	3425.8	3729.2	3859.3	3580.4	3277.0	3220.9
25°	4061.4	3550.2	3246.1	3218.0	3374.8	3831.3	4173.5	4011.0	3679.6	3594.0
27.5°	4357.6	3673.8	3246.1	3218.7	3370.4	3921.9	4442.4	4392.1	4096.6	4003.1
30°	4520.1	3775.9	3292.8	3261.9	3423.7	3974.4	4586.2	4730.7	4410.1	4294.3
32.5°	4665.3	3917.6	3384.1	3325.9	3535.1	4052.0	4714.9	5018.3	4659.5	4581.9
35°	4799.0	4069.3	3509.9	3442.3	3681.8	4158.4	4857.2	5320.2	5006.8	4889.6
37.5°	4946.4	4245.4	3706.2	3648.7	3926.9	4365.5	5026.2	5717.1	5348.3	5200.9
40°	5106.7	4449.6	4029.0	4004.6	4316.6	4599.9	5239.7	6140.6	5738.0	5570.4
42.5°	5269.9	4684.7	4424.4	4464.7	4758.0	4928.4	5459.0	6466.3	6057.2	5872.4
45°	5418.0	4985.2	4938.5	5137.6	5272.8	5249.1	5621.5	6695.6	6335.4	6158.5
47.5°	5605.0	5423.1	5560.4	5867.4	5871.0	5597.8	5744.4	6883.2	6574.8	6398.0
50°	5814.2	5940.0	6363.4	6676.2	6592.1	5940.7	5888.2	7105.4	6822.1	6680.5
52.5°	6056.5	6518.7	7105.4	7452.7	7256.4	6314.6	6127.6	7345.5	7214.7	7078.8
55°	6338.3	6913.4	7845.2	8122.0	7924.3	6779.0	6491.4	7671.2	7658.3	7565.5
57.5°	6656.8	7330.4	8273.7	8648.3	8472.1	7324.0	6999.7	7978.2	7929.3	7877.6
59°	6908.4	7544.7	8462.8	8851.0	8744.6	7705.7	7341.2	8169.5	7991.9	7914.2
60°	7060.8	7689.9	8532.5	8878.3	8853.9	7932.9	7557.6	8262.9	7991.2	7883.3
62.5°	7513.1	7943.7	8505.9	8756.8	8852.5	8368.6	8192.5	8365.7	7843.0	7684.9
65°	7674.1	7859.6	8065.2	8034.3	8116.3	8346.3	8597.9	8252.9	7526.7	7301.7
67.5°	7360.6	6937.2	7009.8	6803.4	6763.2	7420.3	8433.3	7700.7	6907.7	6632.3
70°	6204.6	5314.5	5277.8	5372.7	5112.5	6007.6	7572.7	6637.4	5886.1	5574.0
72.5°	4883.8	3755.8	3446.7	3796.1	3788.2	4583.3	6290.8	4709.9	3976.5	3949.9
75°	3840.6	2614.8	2294.9	2351.7	2461.0	3318.0	5010.4	2990.8	2448.8	2231.6
77.5°	2578.2	1852.7	1728.4	1658.6	1776.5	2130.3	3169.9	1622.0	1373.2	1300.6
80°	1486.1	1345.9	1528.5	1387.6	1450.8	1342.3	1576.7	744.1	617.6	668.6
82.5°	967.0	766.4	816.7	606.8	829.7	836.9	506.1	220.0	186.2	197.7
85°	604.6	359.5	202.0	143.8	286.1	526.3	158.2	13.7	15.8	13.7
87.5°	156.7	59.7	25.2	37.4	46.0	41.0	36.7	2.2	0.7	1.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)