

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: P458700

Luminaire Tested: **GALN-SA2C-735-U-SLL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458700  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-20)  
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-SLL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11352 lumens  
Efficiency: N/A  
Efficacy: 105.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3

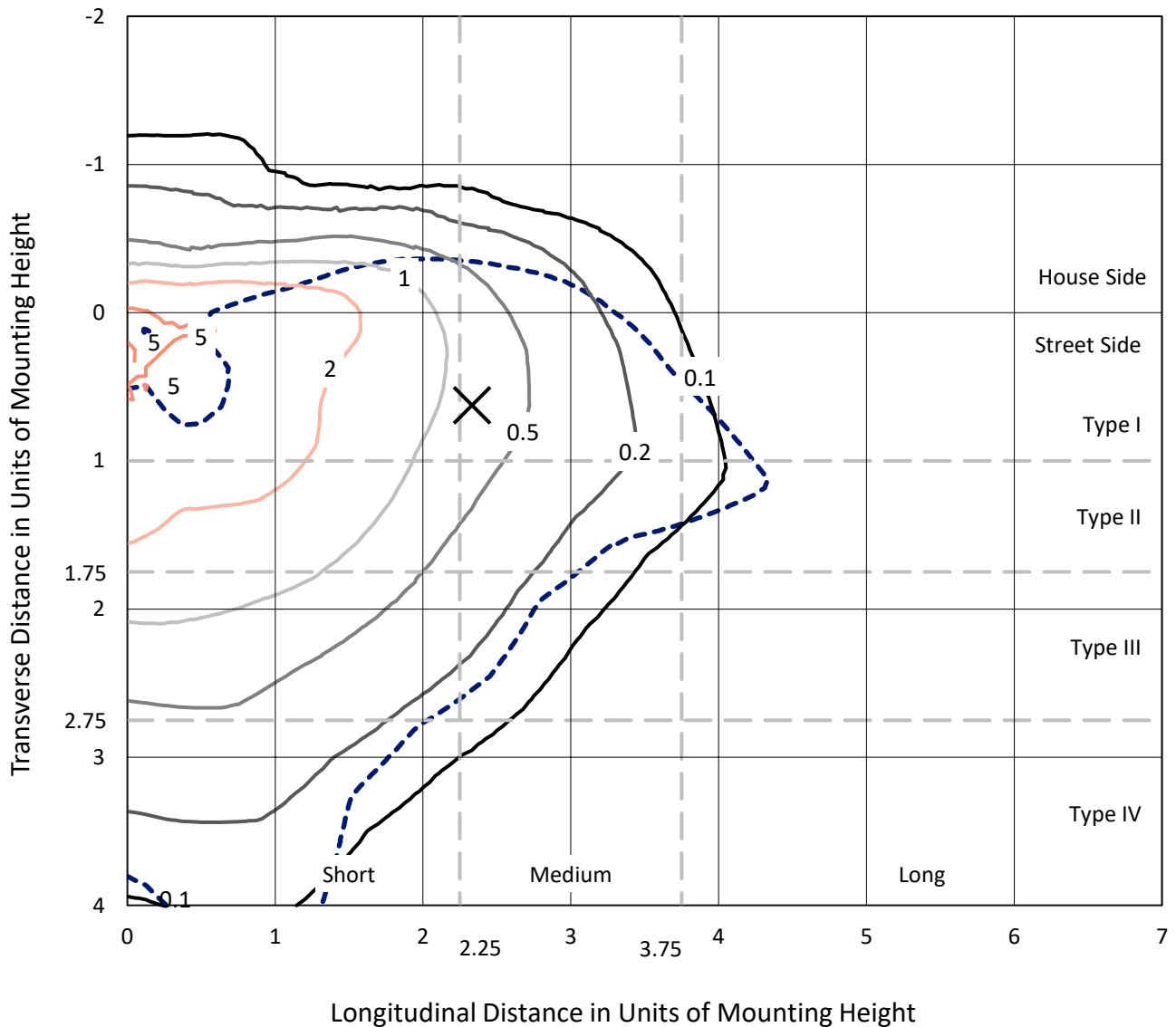
Input Watts (W): 108  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

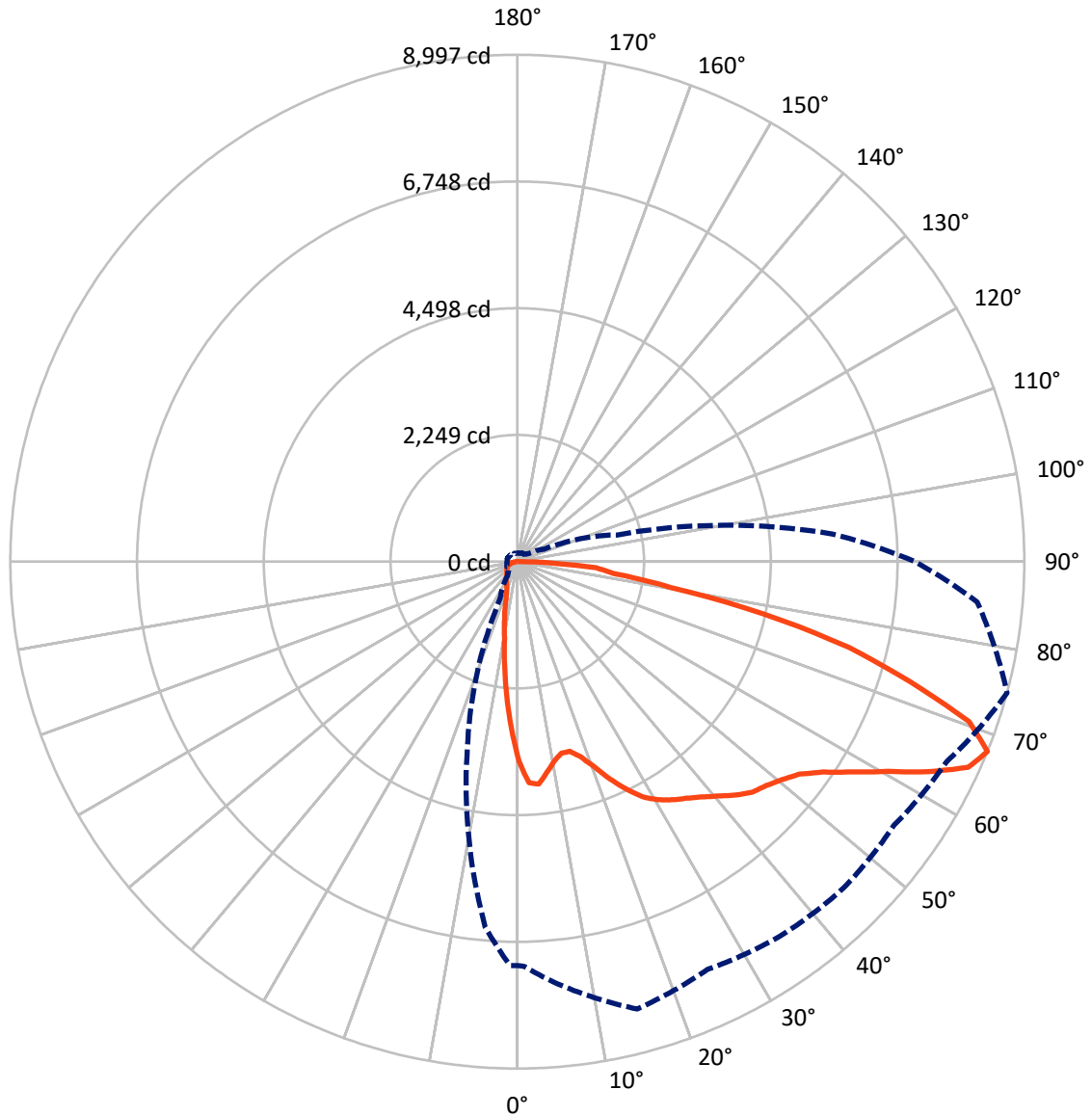
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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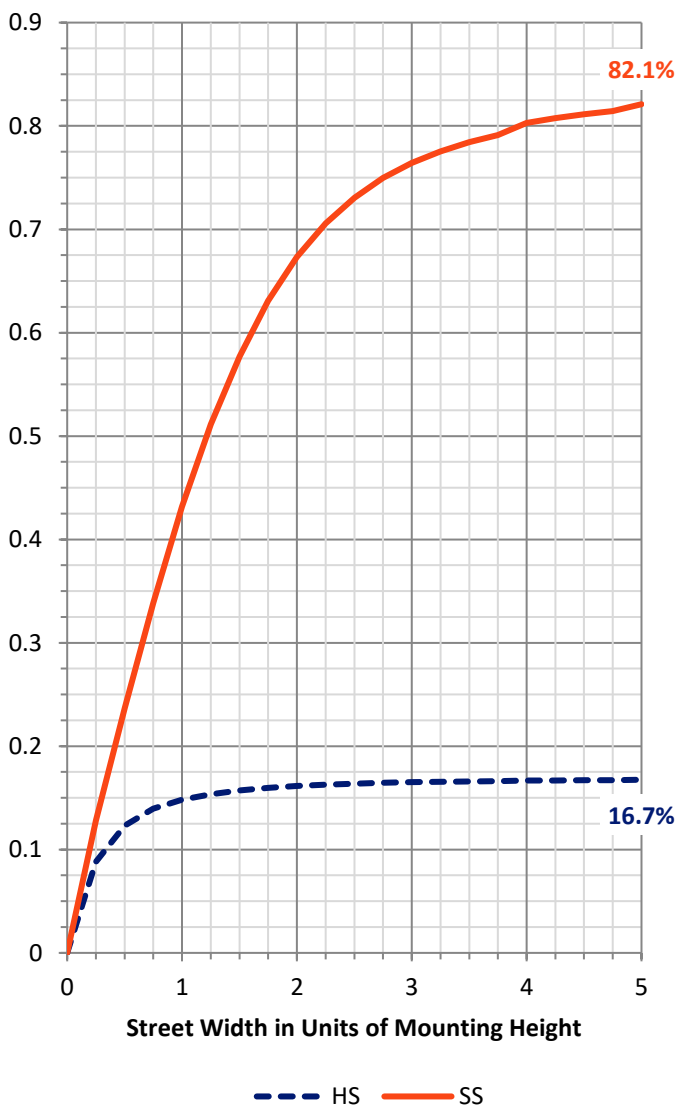
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1918.7	0.0	1918.7
	% Fixture	16.9	0.0	16.9
<b>Street Side</b>	Lumens	9433.3	0.0	9433.3
	% Fixture	83.1	0.0	83.1
<b>Total</b>	Lumens	11352.0	0.0	11352.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	269.0	2.4
10°-20°	561.0	4.9
20°-30°	807.3	7.1
30°-40°	1162.7	10.2
40°-50°	1633.3	14.4
50°-60°	2277.9	20.1
60°-70°	2708.3	23.9
70°-80°	1595.0	14.1
80°-90°	337.3	3.0
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°	11352.0	100.0
0°-180°	11352.0	100.0



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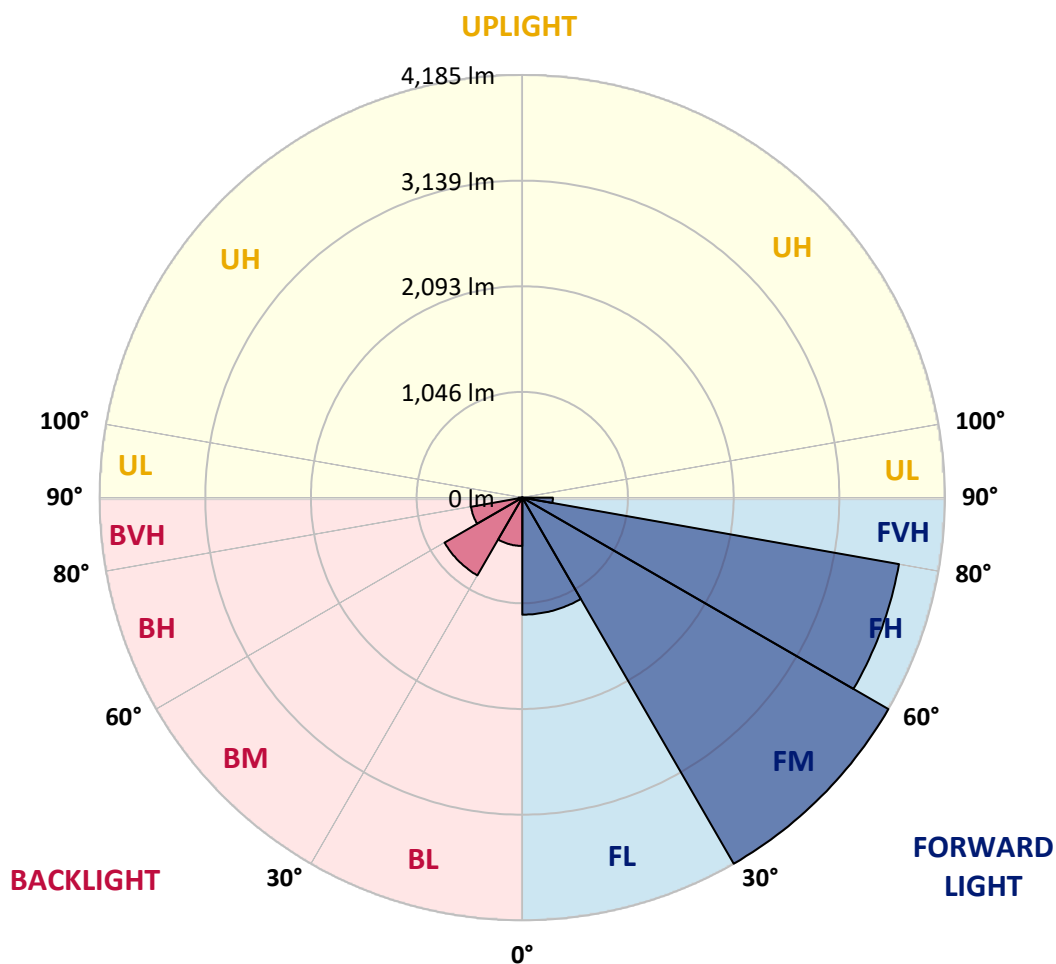
CATALOG NUMBER: GALN-SA2C-735-U-SLL

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1158.7	10.2			
FM	(30°-60°)	4185.1	36.9			
FH	(60°-80°)	3787.1	33.4			G2/5000
FVH	(80°-90°)	302.4	2.7			G3/500
BL	(0°-30°)	478.6	4.2	B1/500		
BM	(30°-60°)	889.0	7.8	B1/1000		
BH	(60°-80°)	516.3	4.5	B2/1000		G2/1000
BVH	(80°-90°)	34.9	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3546.6	3546.6	3546.6	3546.6	3546.6	3546.6	3546.6	3546.6	3546.6	3546.6	3546.6
2.5°	3824.0	3829.1	3861.8	3957.2	4022.7	4046.7	4063.5	4032.2	4001.6	3927.4	3815.3
5°	3812.3	3842.2	3927.4	4141.4	4310.3	4383.1	4404.9	4311.0	4155.9	3965.2	3735.9
7.5°	3589.6	3629.6	3760.7	4119.5	4417.3	4587.6	4565.1	4395.4	4115.9	3775.9	3455.6
10°	3325.3	3369.7	3527.7	3961.6	4345.2	4579.6	4579.6	4372.9	4001.6	3597.6	3228.5
12.5°	3115.7	3162.3	3342.8	3799.2	4195.2	4417.3	4454.4	4276.8	3919.4	3484.8	3079.3
15°	3046.5	3091.7	3286.0	3701.0	4036.6	4172.0	4184.3	4126.1	3879.3	3492.8	3072.7
17.5°	3132.4	3190.7	3387.2	3730.1	3891.0	3899.0	3908.4	3954.3	3883.7	3639.1	3205.2
20°	3380.7	3443.3	3648.5	3824.0	3763.6	3680.6	3685.7	3803.6	3935.4	3880.8	3521.9
22.5°	3738.8	3793.4	4003.8	3989.2	3709.7	3538.6	3503.0	3667.5	4011.8	4182.1	3858.9
25°	4125.4	4189.4	4431.1	4234.6	3725.0	3454.2	3431.6	3587.4	4091.1	4463.9	4248.4
27.5°	4568.0	4630.6	4821.3	4482.1	3805.1	3447.6	3420.7	3580.1	4162.5	4724.5	4620.4
30°	4897.0	4954.5	5084.1	4690.3	3903.3	3491.3	3457.8	3637.6	4223.6	4902.8	4982.9
32.5°	5155.4	5215.1	5285.7	4819.8	4032.9	3570.7	3508.8	3742.5	4303.7	5039.0	5251.5
35°	5424.8	5495.4	5490.3	4934.9	4153.8	3662.4	3602.0	3893.9	4429.7	5157.6	5592.2
37.5°	5766.2	5794.6	5758.2	5038.2	4298.6	3827.6	3794.1	4118.8	4608.7	5301.0	5990.4
40°	6112.7	6169.5	5982.4	5163.4	4474.8	4138.5	4134.8	4451.5	4821.3	5469.2	6376.2
42.5°	6409.7	6457.8	6192.0	5272.6	4688.1	4517.7	4545.4	4897.7	5100.1	5664.3	6686.3
45°	6633.2	6676.1	6385.7	5378.2	4969.1	4956.0	5119.0	5376.0	5451.7	5839.7	6868.3
47.5°	6823.2	6864.7	6520.4	5538.3	5316.3	5479.4	5763.3	5874.7	5752.4	5940.2	7072.2
50°	6983.3	6995.7	6612.8	5729.1	5747.3	6120.7	6395.9	6467.9	6049.4	6084.3	7249.1
52.5°	7150.0	7134.0	6772.2	5969.3	6213.2	6729.3	6929.5	7004.5	6334.0	6261.9	7506.7
55°	7523.5	7538.8	7129.7	6272.1	6684.2	7326.9	7590.5	7518.4	6649.2	6588.8	7834.3
57.5°	7974.8	7961.7	7632.7	6746.0	7163.9	7883.1	8079.7	7963.9	7070.0	7037.9	8166.3
60°	8150.3	8167.7	8053.4	7255.6	7637.1	8370.1	8571.0	8391.2	7574.5	7559.9	8416.7
62.5°	7974.1	8072.4	8149.5	7709.1	8040.3	8728.3	8927.7	8722.4	8100.8	8206.3	8592.1
65°	7623.2	7644.3	7907.1	8093.5	8234.7	8787.2	8891.3	8782.1	8540.5	8795.2	8584.1
67.5°	7167.5	7185.7	7493.6	8219.4	7984.3	8117.5	8190.3	8158.3	8404.3	8996.9	8188.9
70°	6733.7	6719.1	7044.5	7898.4	6950.6	6748.2	6808.6	6708.2	7252.0	8504.1	7413.6
72.5°	5889.2	5941.6	6291.1	7005.9	5503.4	5174.4	5306.1	5046.2	5577.6	7283.3	6017.3
75°	4613.1	4625.5	5208.6	5879.8	4151.6	3632.5	3810.9	3702.4	4272.4	6075.6	4155.2
77.5°	3194.3	3166.6	3793.4	4490.8	2960.6	2659.2	2662.2	2610.5	2983.2	4473.3	2823.0
80°	2028.8	1986.6	2374.6	2774.3	2034.7	2176.6	2105.3	2103.1	1942.2	2759.7	1707.1
82.5°	1096.3	1142.9	1500.3	1739.1	1459.6	1682.3	1541.8	1496.7	1332.9	1727.5	1091.9
85°	499.4	543.1	800.0	1182.9	1108.7	1121.1	749.1	883.7	1102.9	1402.8	583.1
87.5°	48.8	62.6	165.2	558.3	378.5	298.5	111.4	214.7	277.4	498.7	46.6
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°	3546.6	3546.6	3546.6	3546.6	3546.6	3546.6	3546.6	3546.6	3546.6	3546.6	3546.6
2.5°	3769.4	3731.5	3602.7	3496.4	3383.6	3297.7	3185.6	3110.6	3058.9	2981.0	2971.5
5°	3596.1	3503.7	3279.5	3050.9	2853.6	2705.1	2554.4	2416.1	2334.6	2309.1	2276.3
7.5°	3304.2	3148.4	2860.2	2598.1	2371.7	2150.4	1980.1	1859.2	1778.4	1731.1	1674.3
10°	3064.0	2883.5	2532.6	2211.6	2025.2	1887.6	1737.6	1608.1	1508.3	1423.2	1376.6
12.5°	2902.4	2698.6	2304.0	2043.4	1899.3	1752.9	1577.5	1431.9	1284.9	1188.0	1146.5
15°	2853.6	2638.1	2233.4	1959.7	1752.9	1561.5	1364.9	1174.9	1029.3	937.6	907.0
17.5°	2973.0	2712.4	2232.7	1848.3	1581.1	1352.6	1100.7	922.3	773.1	704.7	682.8
20°	3195.8	2855.1	2239.2	1738.4	1394.8	1073.0	800.8	654.4	583.1	554.0	543.1
22.5°	3506.6	3072.7	2258.9	1629.9	1190.9	824.1	599.8	525.6	500.1	495.0	492.8
25°	3889.5	3342.1	2325.1	1532.4	1019.1	629.0	501.6	468.1	453.5	448.4	447.7
27.5°	4241.8	3690.0	2405.2	1448.6	853.2	542.3	453.5	425.1	410.6	409.8	411.3
30°	4560.0	3981.2	2472.2	1354.7	727.2	481.9	422.2	393.8	380.0	379.3	383.6
32.5°	4835.1	4220.7	2521.7	1262.3	657.4	444.8	393.8	363.3	351.6	349.4	351.6
35°	5129.2	4459.5	2499.1	1190.2	617.3	414.2	372.7	342.9	329.0	322.5	322.5
37.5°	5464.8	4705.5	2460.5	1130.5	599.1	388.7	354.5	325.4	311.6	305.0	304.3
40°	5831.0	4951.6	2407.4	1077.4	580.9	373.4	342.1	311.6	294.8	288.3	286.8
42.5°	6154.2	5162.0	2363.7	1042.4	551.1	376.4	331.2	301.4	280.3	271.5	270.8
45°	6435.2	5373.8	2355.7	1022.1	526.3	372.0	328.3	293.4	268.6	259.2	257.7
47.5°	6655.0	5594.4	2401.5	1010.4	499.4	348.7	347.2	288.3	258.4	248.2	246.8
50°	6922.9	5907.4	2506.4	986.4	474.6	326.9	366.9	287.5	250.4	237.3	233.7
52.5°	7279.6	6315.1	2648.3	943.4	439.0	306.5	350.1	287.5	241.0	227.9	223.5
55°	7819.0	6834.8	2787.4	883.0	388.7	279.5	315.9	278.8	227.1	215.5	212.6
57.5°	8176.5	7214.8	2876.2	799.3	326.1	259.9	272.3	265.0	213.3	200.9	200.9
60°	8194.7	7316.8	2834.0	693.7	286.8	241.7	236.6	267.2	200.9	187.8	186.4
62.5°	7985.0	7067.1	2614.1	599.1	265.7	222.0	214.0	234.4	188.5	175.4	173.3
65°	7657.4	6430.1	2232.7	554.0	254.1	204.6	192.9	192.2	175.4	163.1	160.2
67.5°	7055.4	5619.1	1834.5	527.8	248.2	184.9	174.0	170.3	160.2	150.0	148.5
70°	6168.0	4706.3	1471.2	516.9	245.3	164.5	155.8	151.4	142.7	134.7	133.9
72.5°	4798.7	3817.4	1214.2	509.6	243.9	145.6	136.1	130.3	125.2	117.9	117.9
75°	3446.9	2808.5	926.7	459.3	225.7	125.2	115.0	111.4	104.1	98.3	99.7
77.5°	2173.0	1891.2	610.0	337.8	174.7	100.5	91.7	89.5	83.7	75.7	80.8
80°	1467.6	1330.0	356.0	212.6	109.9	73.5	70.6	69.9	63.3	54.6	55.3
82.5°	998.8	979.8	184.9	120.8	63.3	42.9	41.5	42.9	35.7	29.1	29.1
85°	390.2	532.9	87.4	47.3	20.4	6.6	9.5	10.2	5.8	2.9	3.6
87.5°	7.3	54.6	2.2	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):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	3546.6	3546.6	3546.6	3546.6	3546.6	3546.6	3546.6	3546.6	3546.6	3546.6	3546.6
2.5°	2957.0	2950.4	2961.4	2914.8	2924.2	2941.7	2950.4	2955.5	3027.6	3010.9	3056.7
5°	2306.9	2300.4	2342.6	2348.4	2370.2	2365.9	2387.0	2392.1	2418.3	2427.8	2491.8
7.5°	1678.0	1706.3	1754.4	1779.1	1816.3	1827.9	1817.0	1843.9	1789.3	1828.6	1840.3
10°	1348.2	1314.0	1293.6	1350.4	1357.7	1411.5	1389.7	1372.2	1404.2	1405.7	1436.3
12.5°	1122.5	1049.0	1000.2	1016.2	1033.7	1057.0	1060.6	1095.6	1118.9	1140.7	1158.9
15°	880.1	854.6	810.2	788.4	813.1	822.6	845.2	874.3	899.0	905.6	930.3
17.5°	675.5	679.9	672.6	659.5	674.8	682.1	683.6	684.3	690.8	686.5	722.9
20°	543.8	559.1	577.3	580.2	585.3	588.9	582.4	557.6	558.3	573.6	585.3
22.5°	492.1	495.0	515.4	521.9	538.0	531.4	512.5	500.8	499.4	503.0	508.8
25°	451.3	455.7	470.3	480.5	492.8	481.2	467.4	456.4	455.0	458.6	464.4
27.5°	414.9	421.5	434.6	444.8	456.4	445.5	432.4	422.9	422.2	421.5	425.1
30°	385.8	393.1	402.6	414.2	422.2	412.8	400.4	395.3	394.6	393.1	394.6
32.5°	356.7	368.3	377.8	383.6	391.6	384.4	374.9	372.0	366.9	362.5	360.3
35°	323.9	336.3	350.9	358.2	366.2	358.9	352.3	340.0	331.2	330.5	332.0
37.5°	305.0	310.1	321.8	334.1	342.1	338.5	326.1	313.8	311.6	311.6	313.0
40°	288.3	290.5	295.6	311.6	326.1	315.2	299.9	296.3	296.3	295.6	296.3
42.5°	271.5	273.7	273.7	286.1	309.4	291.9	280.3	280.3	280.3	281.0	283.2
45°	256.2	257.0	256.2	265.0	286.8	272.3	264.3	266.4	267.9	269.3	270.8
47.5°	243.1	243.9	243.1	250.4	261.3	255.5	251.1	254.1	257.0	259.2	260.6
50°	231.5	230.8	232.2	236.6	241.7	243.1	240.2	244.6	246.1	249.0	252.6
52.5°	221.3	220.6	222.0	224.2	231.5	231.5	231.5	235.1	238.0	241.0	246.1
55°	209.7	210.4	212.6	215.5	224.9	223.5	224.2	227.1	230.0	234.4	237.3
57.5°	198.7	200.2	203.1	207.5	216.9	216.2	216.9	218.4	222.0	224.2	227.1
60°	186.4	189.3	192.9	195.8	205.3	204.6	208.2	211.1	213.3	213.3	214.7
62.5°	174.0	178.4	182.0	184.2	194.4	195.1	200.2	202.4	203.8	202.4	204.6
65°	161.6	168.2	169.6	172.5	182.7	183.4	189.3	194.4	192.9	191.5	195.1
67.5°	149.2	157.2	156.5	160.2	170.3	171.8	176.9	185.6	182.7	181.3	184.2
70°	135.4	141.2	142.0	144.1	158.0	155.8	163.8	171.8	169.6	170.3	170.3
72.5°	120.1	125.2	125.2	129.6	144.1	140.5	147.0	155.8	155.8	155.1	155.1
75°	101.9	104.8	107.7	114.3	129.6	125.2	129.6	137.6	139.0	137.6	137.6
77.5°	82.3	86.6	88.1	96.8	107.7	107.0	111.4	115.0	117.9	116.5	116.5
80°	58.2	62.6	68.4	77.9	84.4	86.6	88.8	91.7	93.2	93.2	94.6
82.5°	32.8	39.3	44.4	53.9	56.8	67.7	67.0	69.2	67.0	59.0	65.5
85°	7.3	13.8	19.7	24.8	28.4	39.3	41.5	46.6	38.6	35.7	35.7
87.5°	0.0	0.0	0.0	0.0	0.0	5.8	11.6	16.0	13.8	11.6	11.6
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°	3546.6	3546.6	3546.6	3546.6	3546.6	3546.6	3546.6	3546.6	3546.6	3546.6
2.5°	3095.3	3158.6	3235.1	3366.8	3459.3	3559.0	3659.5	3766.5	3794.9	3824.0
5°	2509.3	2633.8	2701.5	2878.4	3064.0	3299.9	3492.8	3703.9	3792.0	3812.3
7.5°	1900.7	1985.2	2162.8	2341.9	2571.9	2819.4	3115.0	3444.0	3546.6	3589.6
10°	1506.9	1621.9	1777.7	1969.9	2171.5	2437.9	2771.4	3155.7	3301.3	3325.3
12.5°	1282.7	1410.8	1580.4	1783.5	1974.2	2175.2	2511.5	2908.2	3064.0	3115.7
15°	1025.7	1180.8	1376.6	1590.6	1798.1	2017.9	2358.6	2806.3	2986.1	3046.5
17.5°	805.9	931.1	1142.9	1375.1	1621.2	1899.3	2326.6	2855.1	3076.4	3132.4
20°	616.6	706.1	884.5	1129.8	1418.1	1782.1	2334.6	3039.2	3304.2	3380.7
22.5°	532.9	578.7	687.2	920.9	1243.4	1680.1	2367.3	3291.8	3611.4	3738.8
25°	482.6	506.7	567.8	720.7	1076.7	1581.1	2442.3	3631.8	4040.9	4125.4
27.5°	439.7	457.2	495.0	604.9	925.2	1489.4	2529.7	4008.9	4442.0	4568.0
30°	398.9	422.2	457.9	537.2	828.4	1405.7	2639.6	4314.6	4779.8	4897.0
32.5°	367.6	390.9	423.7	489.9	746.2	1317.6	2705.1	4583.3	5055.7	5155.4
35°	342.1	361.8	396.0	452.1	683.6	1250.6	2692.0	4796.5	5322.9	5424.8
37.5°	323.9	340.7	374.9	416.4	636.2	1180.8	2685.5	5078.3	5648.3	5766.2
40°	307.2	324.7	356.0	393.1	588.9	1098.5	2689.1	5357.8	5994.8	6112.7
42.5°	294.1	313.8	339.2	386.5	540.1	1032.3	2689.1	5600.9	6296.1	6409.7
45°	283.2	304.3	329.0	385.8	501.6	982.0	2670.9	5809.9	6536.4	6633.2
47.5°	273.7	297.0	332.7	372.7	492.1	945.6	2654.9	5977.3	6732.2	6823.2
50°	267.2	294.8	353.8	357.4	495.0	934.7	2732.0	6188.4	6904.7	6983.3
52.5°	262.1	295.6	353.1	334.9	489.9	942.0	2892.9	6518.2	7144.2	7150.0
55°	251.9	294.8	334.9	309.4	468.8	954.4	3099.7	6997.2	7519.1	7523.5
57.5°	241.7	286.8	310.8	287.5	425.9	954.4	3348.6	7450.7	7971.2	7974.8
60°	231.5	298.5	273.0	268.6	369.8	936.9	3611.4	7650.2	8113.1	8150.3
62.5°	221.3	300.6	243.9	251.9	329.0	894.7	3807.2	7429.6	7921.0	7974.1
65°	209.7	242.4	224.9	234.4	307.9	824.1	3745.4	7025.6	7559.9	7623.2
67.5°	195.8	205.3	204.6	216.2	300.6	720.0	3419.2	6514.5	7171.2	7167.5
70°	179.1	184.2	186.4	198.7	286.8	639.2	2849.2	5851.4	6652.1	6733.7
72.5°	161.6	166.0	168.2	179.1	273.0	593.3	2211.6	4937.8	5761.8	5889.2
75°	142.7	145.6	148.5	158.0	258.4	525.6	1575.3	3769.4	4412.9	4613.1
77.5°	123.0	123.0	126.7	136.1	217.7	433.9	1057.0	2644.0	2989.7	3194.3
80°	99.7	100.5	99.0	109.2	160.2	297.0	600.6	1766.0	1989.5	2028.8
82.5°	76.4	74.3	75.0	80.1	119.4	202.4	320.3	1097.0	1118.2	1096.3
85°	48.0	48.0	46.6	52.4	76.4	105.6	174.7	671.9	524.9	499.4
87.5°	19.7	16.0	18.2	21.1	36.4	42.9	68.4	138.3	53.1	48.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)