

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: P383681

Luminaire Tested: **GLEON-SA9C-735-U-T2R**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383681  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA9C-735-U-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 61366.6 lumens  
Efficiency: N/A  
Efficacy: 122.5 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G5

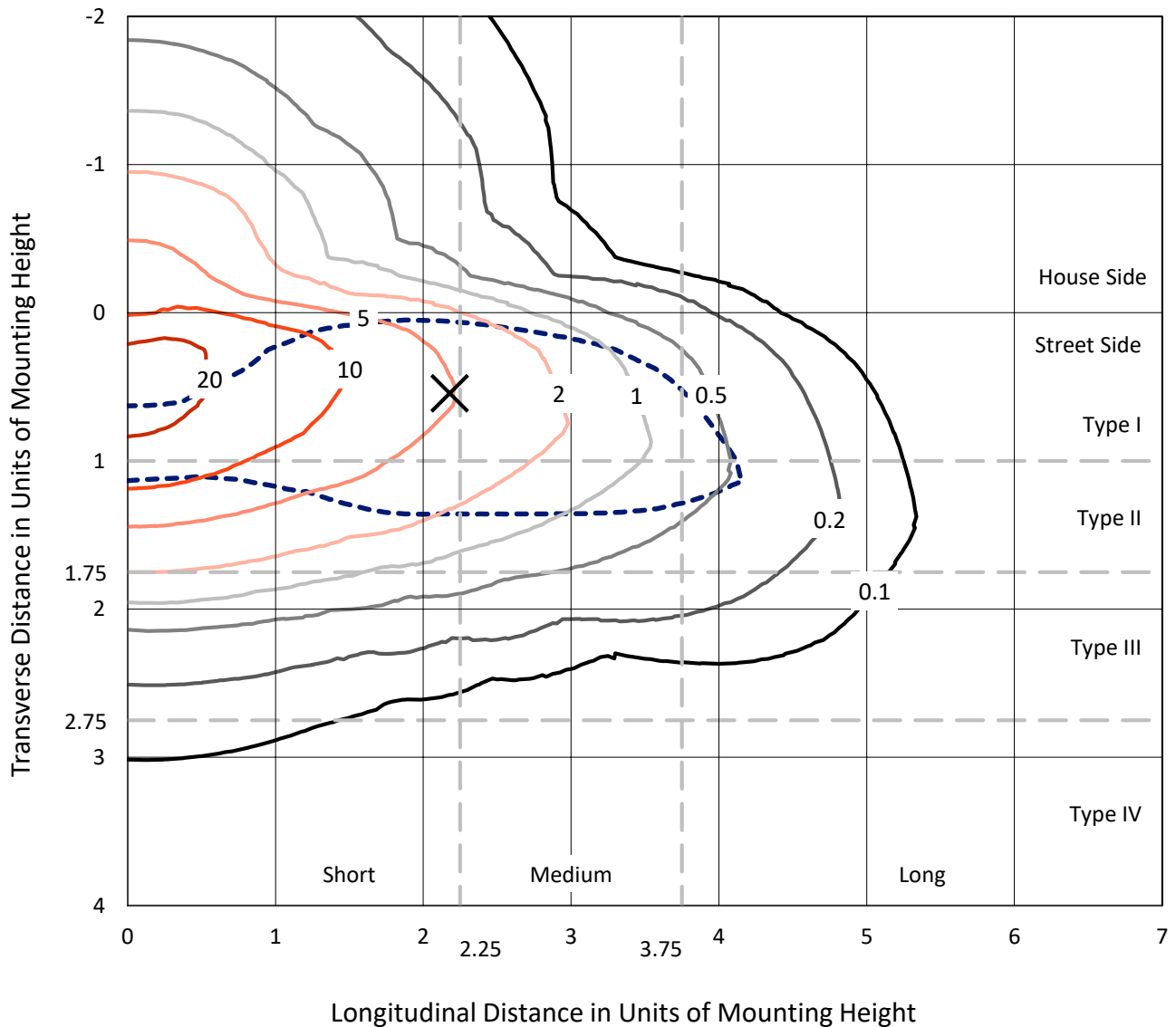
Input Watts (W): 501  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

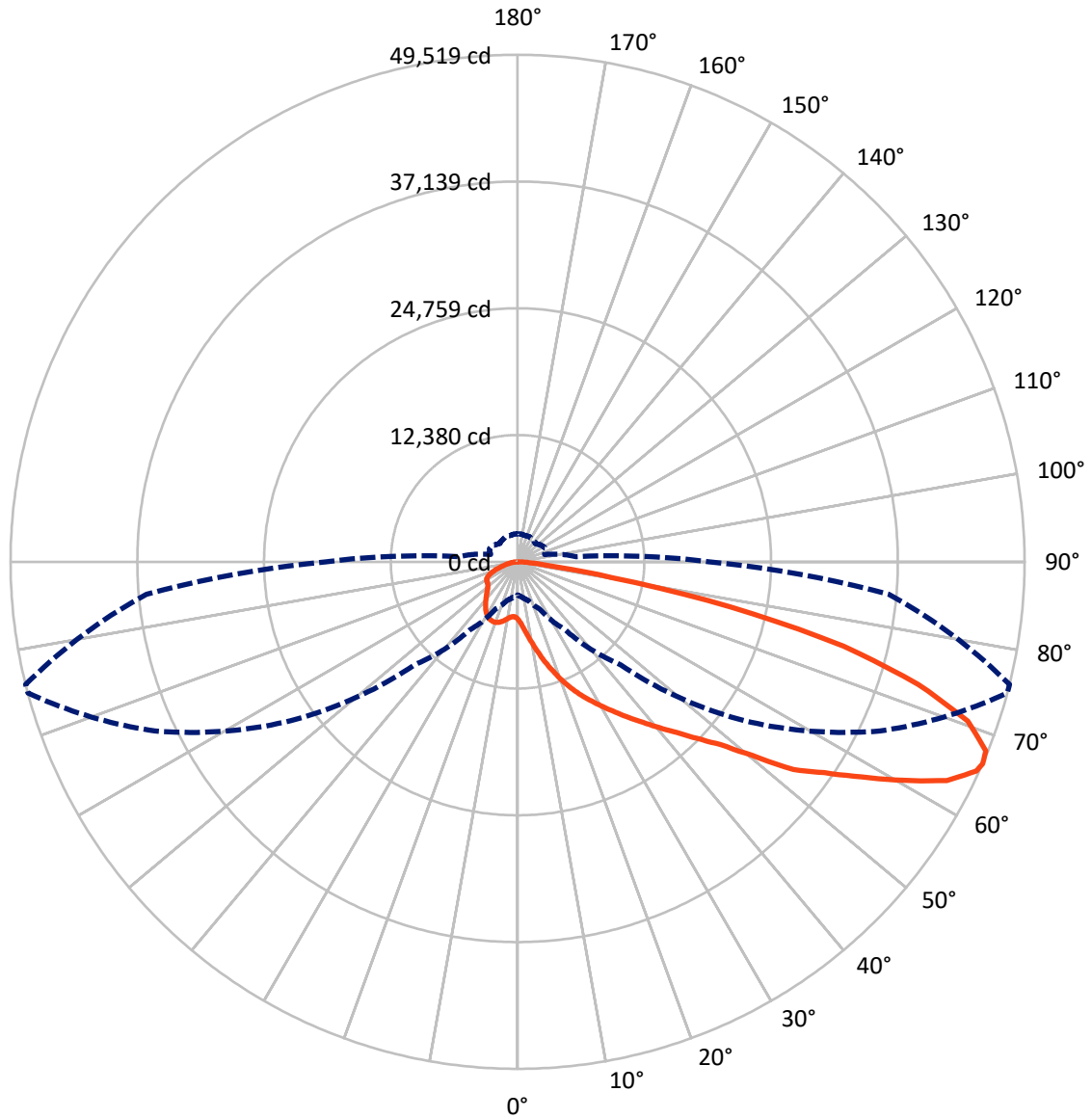
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

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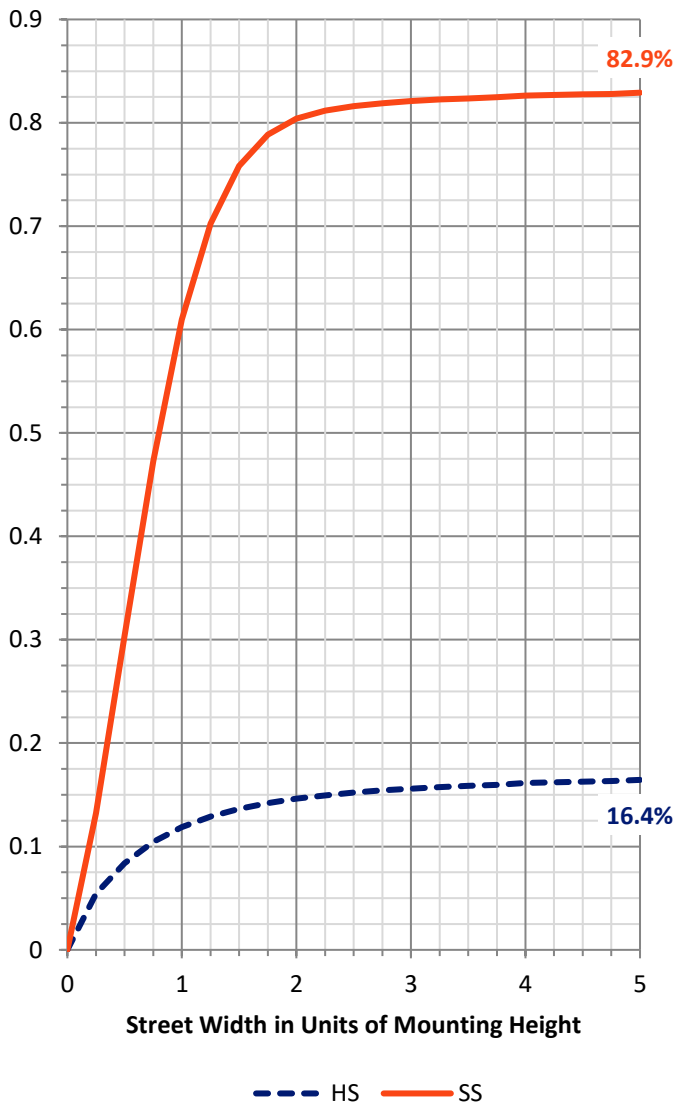
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10325.9	0.0	10325.9
	% Fixture	16.8	0.0	16.8
<b>Street Side</b>	Lumens	51040.7	0.0	51040.7
	% Fixture	83.2	0.0	83.2
<b>Total</b>	Lumens	61366.6	0.0	61366.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	677.7	1.1
10°-20°	2676.2	4.4
20°-30°	5200.5	8.5
30°-40°	8488.3	13.8
40°-50°	11597.1	18.9
50°-60°	13508.2	22.0
60°-70°	12110.4	19.7
70°-80°	6120.1	10.0
80°-90°	988.3	1.6
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°	61366.6	100.0
0°-180°	61366.6	100.0

**Coefficient of Utilization**



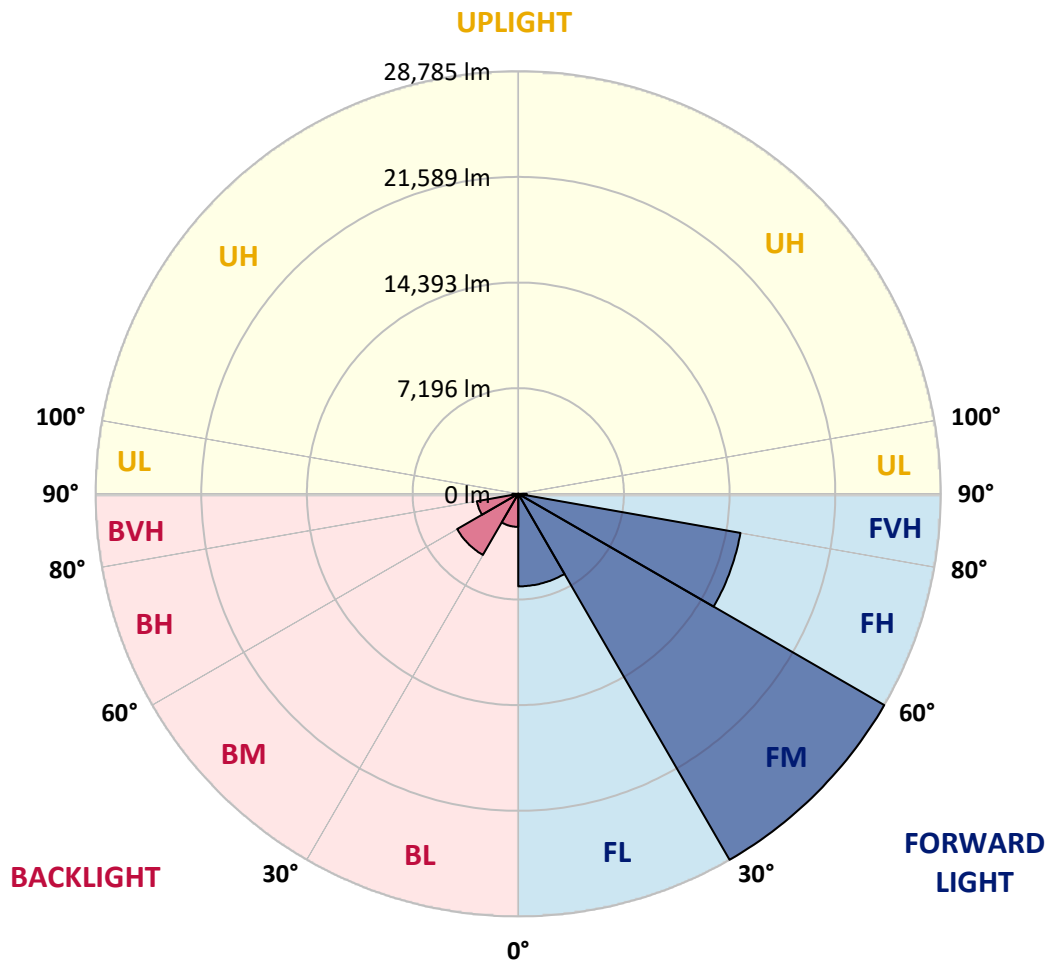
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6302.2	10.3			
FM (30°-60°)	28785.2	46.9			
FH (60°-80°)	15369.7	25.0			G5
FVH (80°-90°)	583.6	1.0			G4/750
BL (0°-30°)	2252.1	3.7	B3/2500		
BM (30°-60°)	4808.4	7.8	B3/5000		
BH (60°-80°)	2860.8	4.7	B4/5000		G4/5000
BVH (80°-90°)	404.7	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	5604.2	5604.2	5604.2	5604.2	5604.2	5604.2	5604.2	5604.2	5604.2	5604.2	5604.2
2.5°	7439.5	7327.1	7316.7	7152.0	7114.6	6800.0	6568.7	6327.1	6052.1	5997.9	5781.3
5°	9556.2	9545.8	9402.1	9133.4	8922.9	8385.4	7854.2	7291.7	6675.0	6575.0	6087.5
7.5°	11460.4	11443.7	11333.3	11043.8	10739.5	10079.2	9320.8	8458.4	7458.3	7310.4	6502.1
10°	12906.2	12900.0	12862.4	12650.0	12391.6	11758.3	10920.8	9743.7	8368.7	8166.7	7020.8
12.5°	14022.9	14035.3	14060.4	13985.4	13862.5	13322.9	12464.6	11106.2	9339.6	9139.6	7597.9
15°	14779.1	14816.6	14945.8	15052.0	15116.6	14785.4	13954.1	12500.0	10427.1	10187.5	8237.5
17.5°	15160.4	15202.0	15424.9	15745.8	16041.6	16008.3	15347.9	13829.1	11470.8	11239.6	8925.0
20°	15489.6	15520.8	15770.8	16156.2	16679.2	16910.4	16539.5	15108.3	12614.6	12339.6	9654.2
22.5°	16443.7	16483.3	16558.4	16777.1	17239.6	17664.6	17485.4	16318.8	13662.4	13406.3	10345.9
25°	18285.3	18333.3	18170.8	17985.4	18072.9	18368.7	18402.1	17422.9	14725.0	14435.4	11089.6
27.5°	20504.1	20572.9	20295.8	19818.7	19402.1	19287.5	19247.9	18327.1	15739.5	15404.2	11825.0
30°	22677.0	22795.8	22435.4	21816.7	21052.0	20514.5	20116.7	19212.4	16739.5	16418.7	12518.7
32.5°	24799.9	24752.1	24229.1	23625.0	22729.1	22056.3	21093.7	20162.5	17864.6	17495.8	13208.3
35°	26254.1	26270.8	25785.3	25068.7	24214.6	23697.9	22402.0	21187.5	19012.5	18672.9	13991.7
37.5°	27491.6	27414.5	26864.5	26195.8	25460.4	25239.5	23933.3	22316.6	20256.2	19885.4	14825.0
40°	27904.1	27814.5	27454.1	26972.9	26383.3	26364.6	25622.9	23595.8	21662.5	21295.8	15764.6
42.5°	27654.1	27539.5	27391.6	27260.3	27079.2	27162.4	27210.4	25095.8	23208.3	22797.9	16852.1
45°	26731.2	26558.3	26662.5	26947.9	27341.7	27812.5	28643.7	26756.2	24939.6	24595.8	18129.1
47.5°	25312.5	25156.2	25481.2	26091.6	27162.4	28354.1	29999.9	28589.6	27006.2	26664.5	19947.9
50°	23316.6	23362.5	23827.0	24937.4	26556.2	28604.1	31670.8	31016.6	30010.4	29691.6	22429.2
52.5°	20041.6	20050.0	21358.3	23181.2	25481.2	28475.0	32597.8	34118.7	34112.4	33727.1	24791.6
55°	17000.0	17185.4	18220.8	20643.7	23739.6	27958.3	33245.8	35627.0	36806.2	36354.1	26993.7
57.5°	14029.1	14137.4	15118.7	17552.0	21254.1	26581.2	33910.4	37437.4	39910.4	39625.0	29731.2
60°	10650.0	10816.7	11831.2	14079.1	18075.0	24137.4	33972.9	39327.1	43620.7	43333.3	32787.4
62.5°	6912.5	7200.0	8150.0	10256.2	14229.1	20622.9	32522.8	40562.5	47137.4	47035.3	35500.0
65°	3972.9	4189.5	4850.0	6475.0	9816.6	16210.4	29075.0	40087.5	49302.0	49243.7	36514.5
66°	3245.8	3381.2	3887.5	5060.4	8100.0	14235.4	27070.8	39085.3	49516.6	49518.6	36397.9
67.5°	2595.9	2656.2	2883.3	3622.9	5977.1	11283.3	23489.5	36874.9	49249.9	49322.8	35645.8
70°	2147.9	2179.2	2250.0	2429.2	3262.5	6804.1	16672.9	31131.2	46572.8	46629.1	32710.4
72.5°	1927.1	1945.8	1972.9	1997.9	2302.0	3802.1	10183.3	24904.1	40833.3	40906.2	28237.4
75°	1745.8	1756.2	1752.1	1754.2	1931.3	2423.0	5262.5	18593.7	33016.7	32870.8	21631.2
77.5°	1533.3	1543.8	1522.9	1527.1	1708.4	1862.5	2618.8	13016.6	22281.2	21252.0	12187.4
80°	1295.9	1304.2	1295.9	1310.4	1487.5	1406.3	1522.9	7322.9	9852.0	9318.7	4333.3
82.5°	979.1	1014.5	1039.6	1097.9	1225.0	1000.0	1018.7	2852.1	3000.0	2856.2	1329.1
85°	429.2	522.9	783.3	839.6	920.8	600.0	668.8	1162.5	1220.8	1183.3	483.3
87.5°	112.5	122.9	387.5	487.5	510.4	270.8	347.9	529.2	558.4	529.2	160.4
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°	5604.2	5604.2	5604.2	5604.2	5604.2	5604.2	5604.2	5604.2	5604.2	5604.2	5604.2
2.5°	5666.7	5564.6	5381.3	5218.7	5095.8	5012.5	4929.2	4887.5	4862.5	4837.5	4841.6
5°	5847.9	5641.6	5327.1	5104.1	4979.1	4900.0	4858.3	4841.6	4831.3	4806.2	4806.2
7.5°	6120.8	5829.2	5395.8	5166.6	5068.7	5008.3	4983.3	4975.0	4962.4	4933.3	4937.5
10°	6464.6	6056.3	5539.5	5316.6	5227.1	5160.4	5125.0	5112.5	5089.6	5056.3	5060.4
12.5°	6868.8	6337.5	5729.1	5495.9	5387.5	5297.9	5239.6	5204.2	5164.6	5120.8	5123.0
15°	7310.4	6643.7	5933.3	5656.3	5508.3	5383.3	5289.6	5229.1	5166.6	5112.5	5110.4
17.5°	7758.3	6939.6	6089.5	5743.7	5543.7	5379.1	5252.1	5158.4	5081.2	5014.6	5008.3
20°	8241.7	7206.3	6177.1	5735.4	5477.0	5281.2	5112.5	4995.8	4910.4	4843.8	4833.3
22.5°	8733.4	7456.2	6191.6	5650.0	5329.2	5089.6	4912.5	4783.3	4695.8	4627.1	4602.0
25°	9183.3	7650.0	6131.3	5485.4	5123.0	4864.5	4691.6	4560.4	4489.6	4408.4	4383.3
27.5°	9593.7	7785.4	6010.4	5275.0	4891.6	4637.5	4475.0	4362.5	4285.4	4222.9	4202.1
30°	9962.5	7858.3	5812.5	5025.0	4654.2	4422.9	4285.4	4208.4	4141.7	4062.5	4047.9
32.5°	10312.5	7858.3	5558.4	4752.1	4418.7	4233.3	4152.1	4104.1	4029.1	3952.1	3931.2
35°	10662.5	7810.4	5258.3	4466.7	4202.1	4097.9	4093.8	4037.5	3922.9	3818.8	3791.7
37.5°	11031.2	7712.5	4920.8	4200.0	4025.0	4037.5	4072.9	3947.9	3785.4	3637.5	3597.9
40°	11447.9	7577.1	4570.8	3968.8	3877.1	4010.4	4016.6	3818.8	3502.1	3366.7	3331.2
42.5°	11937.5	7441.7	4245.8	3764.6	3760.4	3929.2	3910.5	3539.6	3350.0	3281.3	3262.5
45°	12581.2	7364.5	3937.5	3570.8	3668.7	3797.9	3729.2	3385.4	3306.2	3266.7	3250.0
47.5°	13595.8	7404.1	3654.2	3416.6	3577.0	3666.7	3391.7	3322.9	3266.7	3218.8	3202.1
50°	14866.7	7381.2	3425.0	3310.4	3472.9	3529.2	3239.5	3241.7	3212.5	3158.3	3133.4
52.5°	15822.9	7202.1	3277.1	3250.0	3381.2	3285.4	3143.8	3162.5	3147.9	3068.7	3041.7
55°	16745.8	7047.9	3202.1	3227.1	3314.5	2981.2	3031.3	3077.1	3062.5	2985.4	2972.9
57.5°	17893.7	7018.7	3156.3	3233.3	3258.4	2829.2	2922.9	2983.4	2972.9	2939.6	2933.4
60°	19300.0	7027.0	3114.5	3243.7	3195.9	2716.7	2820.8	2898.0	2904.2	2898.0	2893.8
62.5°	20072.9	6800.0	3010.4	3214.6	3085.4	2618.8	2714.6	2827.1	2829.2	2841.7	2839.5
65°	19416.6	6120.8	2816.6	3112.5	2900.0	2537.5	2623.0	2745.8	2714.6	2770.8	2770.8
66°	18779.2	5729.1	2720.9	3045.8	2820.8	2506.2	2593.7	2704.2	2664.6	2741.6	2741.6
67.5°	17477.0	5068.7	2547.9	2904.2	2708.3	2462.5	2560.5	2635.4	2581.2	2695.8	2687.5
70°	15097.9	3920.8	2200.0	2583.4	2522.9	2397.9	2514.6	2497.9	2418.8	2593.7	2560.5
72.5°	12729.1	2979.2	1766.7	2162.5	2241.7	2316.7	2450.0	2322.9	2223.0	2345.8	2272.9
75°	9877.1	2239.5	1395.8	1681.3	1893.7	2189.6	2372.9	2120.9	1977.1	1964.5	1925.0
77.5°	5339.5	1537.5	1106.2	1283.3	1504.2	2031.2	2320.9	1904.2	1687.5	1637.5	1606.3
80°	2114.6	1000.0	804.2	972.9	1052.1	1802.1	2195.8	1652.1	1391.6	1341.7	1293.7
82.5°	873.0	591.6	518.8	652.1	685.4	1541.6	1970.9	1354.2	1075.0	1487.5	1579.2
85°	375.0	325.0	308.3	337.5	387.5	1081.2	1568.7	1033.4	1160.4	1035.4	822.9
87.5°	112.5	137.5	131.3	129.2	141.7	258.3	835.4	575.0	852.1	322.9	241.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)