

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: P383460

Luminaire Tested: **GLEON-SA7C-735-U-T3R-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383460  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA7C-735-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 35844.1 lumens  
Efficiency: N/A  
Efficacy: 91.7 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5

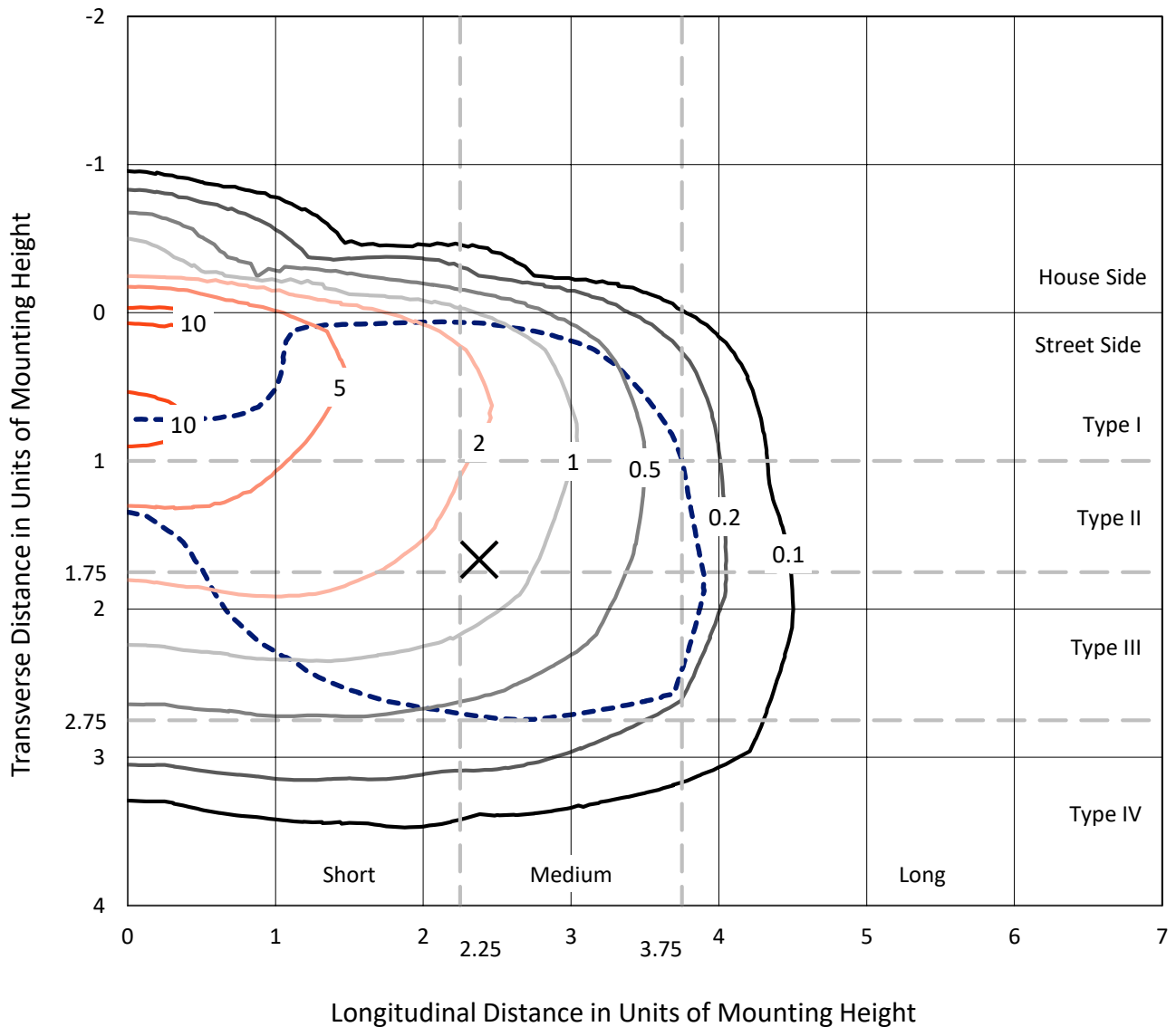
Input Watts (W): 391  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

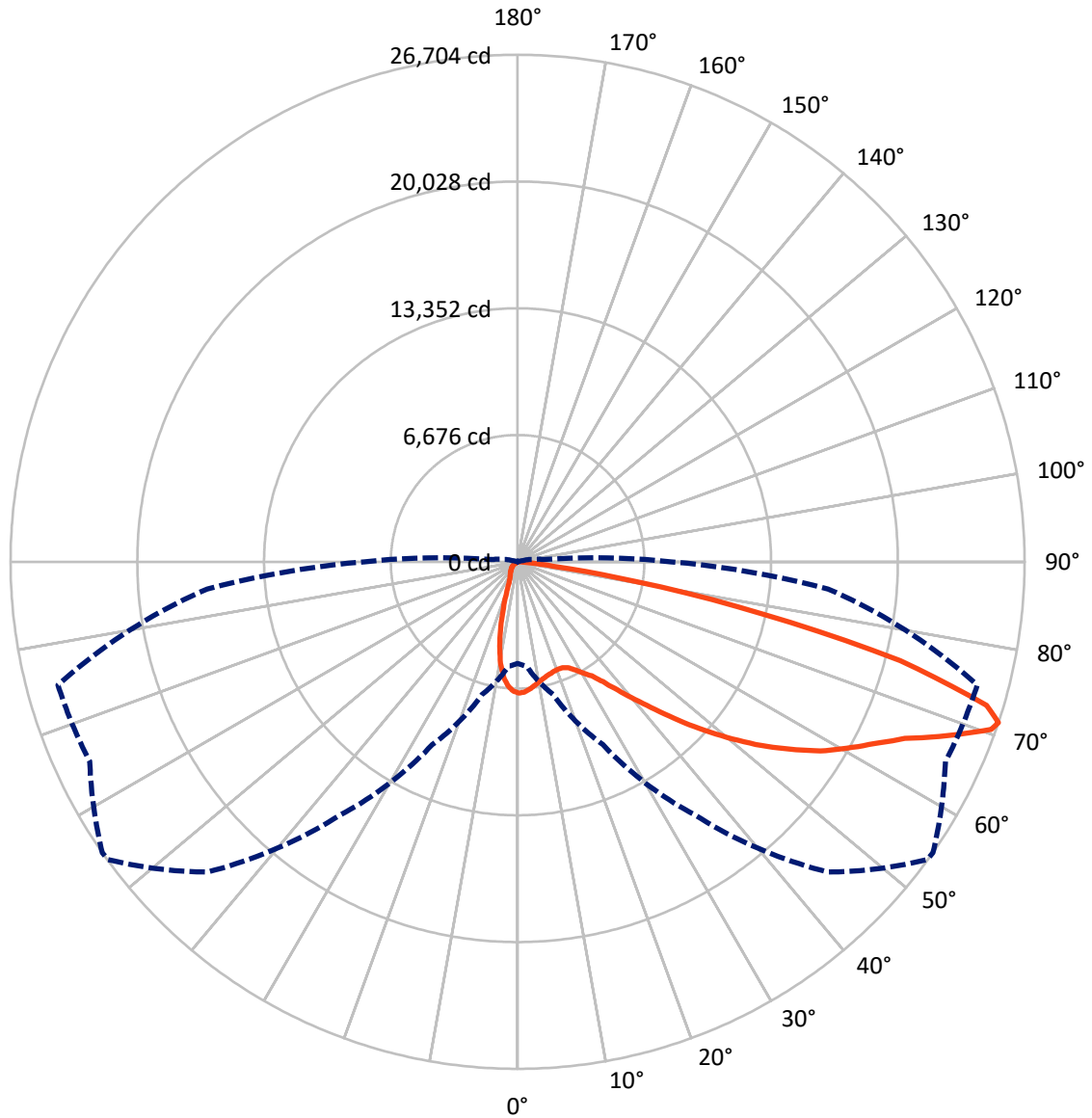
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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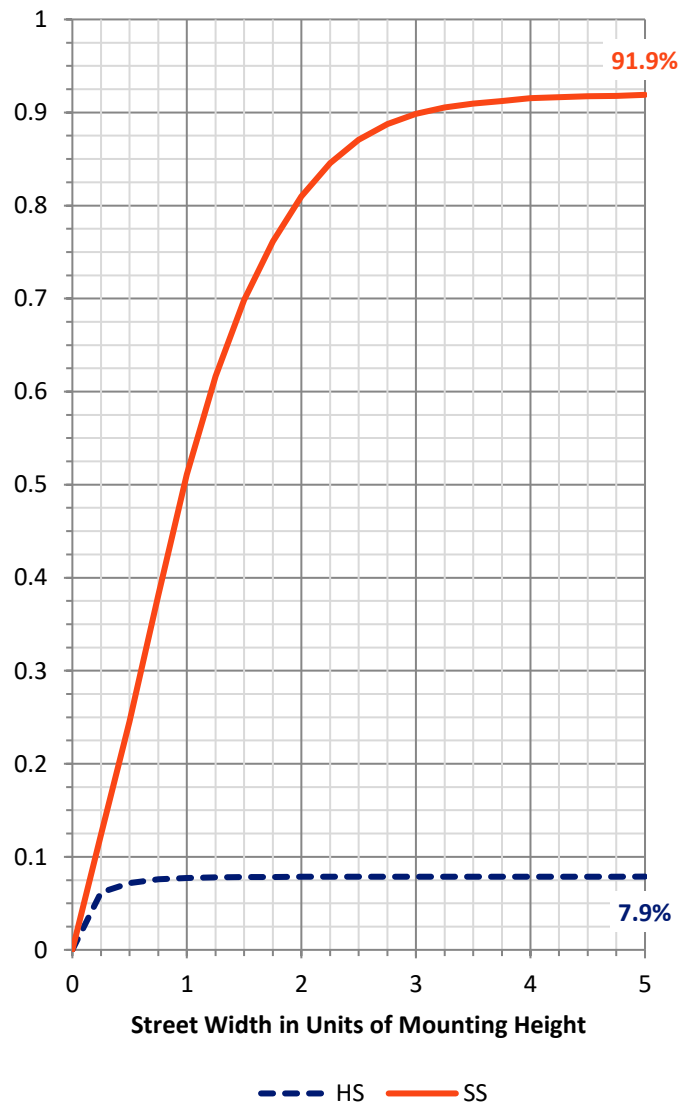
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2837.9	0.0	2837.9
	% Fixture	7.9	0.0	7.9
<b>Street Side</b>	Lumens	33006.2	0.0	33006.2
	% Fixture	92.1	0.0	92.1
<b>Total</b>	Lumens	35844.1	0.0	35844.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	589.4	1.6
10°-20°	1330.6	3.7
20°-30°	2138.3	6.0
30°-40°	3633.1	10.1
40°-50°	5639.1	15.7
50°-60°	7581.6	21.2
60°-70°	9274.8	25.9
70°-80°	5422.8	15.1
80°-90°	234.4	0.7
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°	35844.1	100.0
0°-180°	35844.1	100.0

**Coefficient of Utilization**

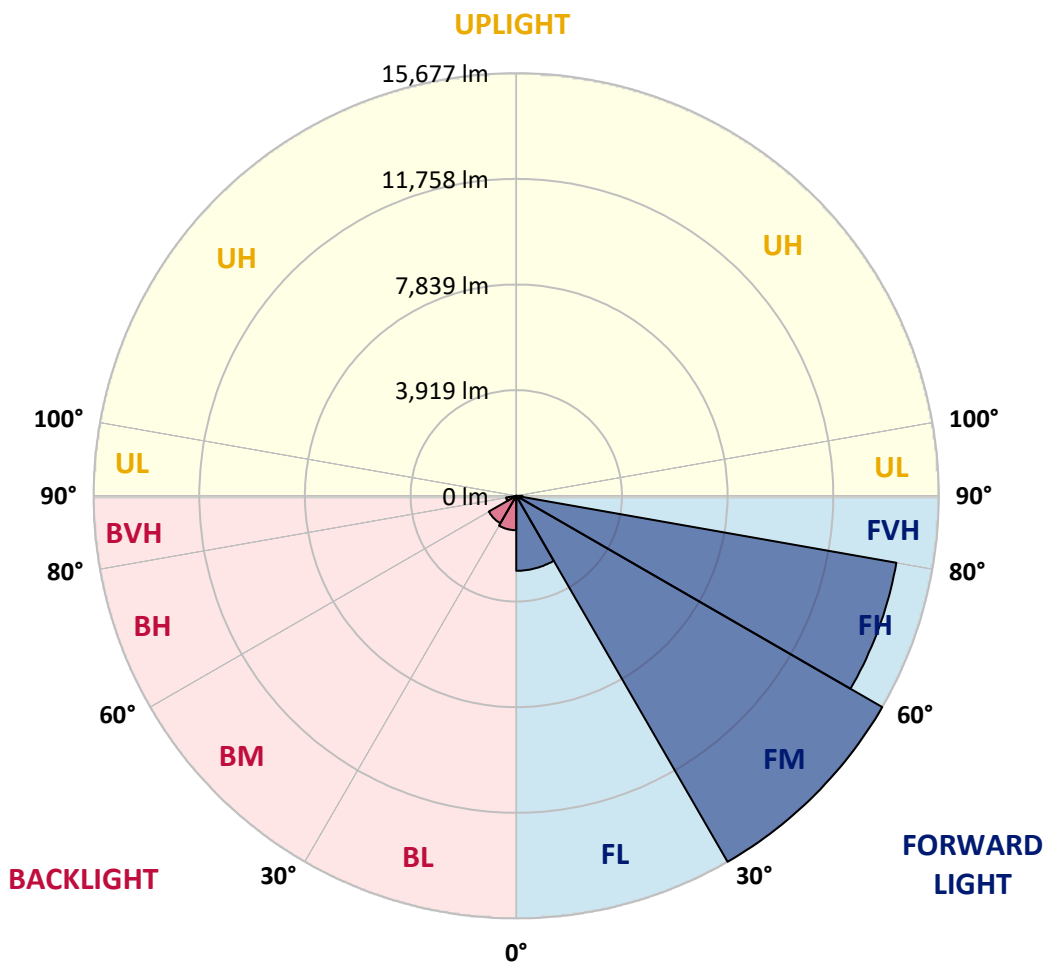


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2781.0	7.8			
FM (30°-60°)	15677.2	43.7			
FH (60°-80°)	14317.3	39.9			G5
FVH (80°-90°)	230.7	0.6			G3/500
BL (0°-30°)	1277.3	3.6	B3/2500		
BM (30°-60°)	1176.6	3.3	B2/2500		
BH (60°-80°)	380.2	1.1	B1/500		G1/500
BVH (80°-90°)	3.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	6912.6	6912.6	6912.6	6912.6	6912.6	6912.6	6912.6	6912.6	6912.6	6912.6	6912.6
2.5°	6709.8	6717.9	6746.9	6759.8	6790.3	6841.8	6867.6	6869.2	6911.1	6927.2	6940.0
5°	6235.0	6283.4	6331.6	6383.2	6476.5	6600.4	6722.7	6734.0	6869.2	6969.0	7022.1
7.5°	5826.3	5869.7	5927.6	6009.8	6141.7	6336.5	6540.9	6565.0	6820.9	7047.9	7167.0
10°	5406.2	5441.6	5525.3	5646.0	5827.9	6088.6	6363.9	6404.1	6777.5	7154.1	7363.3
12.5°	4957.1	4978.1	5079.4	5253.3	5520.4	5852.0	6214.2	6267.3	6750.1	7276.4	7595.1
15°	4615.9	4625.6	4722.2	4902.5	5208.2	5639.6	6098.3	6162.7	6756.5	7422.9	7847.7
17.5°	4529.0	4533.8	4585.4	4709.3	4979.7	5449.6	6006.5	6085.4	6775.9	7566.1	8102.0
20°	4881.5	4847.7	4794.6	4775.3	4891.2	5335.3	5951.8	6040.3	6801.6	7693.3	8330.6
22.5°	5848.8	5749.0	5528.5	5234.0	5055.3	5343.5	5966.3	6054.8	6883.7	7849.4	8594.6
25°	7284.4	7146.0	6771.0	6191.6	5634.7	5575.2	6087.0	6177.1	7043.1	8036.1	8847.3
27.5°	8918.1	8781.2	8322.5	7495.3	6545.7	6033.9	6363.9	6447.5	7279.6	8201.8	9040.4
30°	10482.4	10443.9	9903.1	8963.2	7691.6	6777.5	6721.1	6791.9	7455.1	8301.7	9193.3
32.5°	11808.7	11747.5	11312.9	10398.8	9003.3	7670.7	7141.2	7162.1	7587.0	8430.4	9392.9
35°	13038.3	12962.7	12581.2	11716.9	10348.8	8762.0	7788.2	7757.6	7875.1	8689.5	9682.6
37.5°	14111.8	14181.0	13757.7	12935.3	11555.9	9896.6	8660.5	8568.8	8325.8	9111.2	10102.6
40°	15009.9	15009.9	14789.4	14103.7	12859.6	11070.0	9647.1	9526.5	9003.3	9761.4	10635.4
42.5°	15333.4	15402.6	15484.6	15096.8	14026.5	12289.9	10746.4	10620.9	9957.8	10683.6	11308.1
45°	15352.7	15462.1	15882.2	15880.7	15080.7	13501.9	11985.7	11926.1	11181.0	11868.2	12141.8
47.5°	15080.7	15217.5	15909.6	16302.3	15916.0	14630.0	13340.9	13266.8	12618.2	13319.9	13014.2
50°	14660.6	14811.9	15616.7	16468.1	16484.2	15611.8	14768.5	14657.4	14200.3	14979.3	13915.5
52.5°	13909.0	14201.9	15354.3	16506.7	16857.6	16460.0	16126.9	16078.6	15970.7	16577.5	14633.3
55°	12301.2	12626.3	14696.0	16519.6	17203.6	17211.6	17399.9	17412.9	17630.1	18071.1	15167.6
57.5°	11541.5	11724.9	13546.8	16580.7	17717.0	18064.7	18697.2	18797.0	19133.3	19489.0	15777.6
60°	11063.4	11280.8	12980.4	16497.1	18523.4	19183.3	19899.4	19933.3	20293.8	20952.0	16603.3
62.5°	10682.1	10896.1	12623.0	16175.1	19429.5	20528.8	21074.4	21077.6	21348.0	22695.1	17541.6
65°	9740.5	9920.8	11900.4	15813.0	20028.2	21859.8	22439.2	22418.3	22638.7	24533.1	18631.2
67.5°	8378.9	8517.3	10424.5	14440.1	19802.8	23070.1	24499.3	24430.1	24162.9	26121.6	19059.3
70°	6478.1	6528.0	8216.3	12034.0	17691.3	23535.3	26490.2	26454.8	25098.0	25836.8	17490.1
71°	5354.7	5518.9	7241.0	10620.9	16276.6	23105.5	26683.3	26704.3	24863.0	25061.1	16410.1
72.5°	3109.5	3249.5	5248.4	8156.8	13818.9	21312.6	25682.3	25833.6	23765.4	22794.9	14016.8
75°	666.3	713.0	1945.8	3948.0	7601.5	14937.5	20271.2	20810.4	19369.9	15507.2	8448.1
77.5°	463.5	500.5	833.7	1791.4	2512.4	7381.0	12592.5	13200.9	11572.1	5827.9	2703.9
80°	366.9	408.8	650.2	885.2	679.2	2380.4	5898.7	6270.5	3859.5	1300.4	455.4
82.5°	204.4	243.0	506.9	478.0	260.7	452.3	1651.4	1867.0	772.5	262.3	107.9
85°	59.5	72.4	326.7	347.7	111.0	86.9	281.7	349.2	146.4	69.2	48.3
87.5°	0.0	0.0	157.7	133.6	32.2	12.9	25.7	29.0	29.0	29.0	32.2
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°	6912.6	6912.6	6912.6	6912.6	6912.6	6912.6	6912.6	6912.6	6912.6	6912.6	6912.6
2.5°	6940.0	6951.3	6911.1	6858.0	6801.6	6732.4	6660.0	6603.6	6602.1	6574.7	6547.3
5°	7025.4	7018.9	6907.8	6738.8	6539.3	6331.6	6133.7	5909.9	5836.0	5744.2	5713.6
7.5°	7183.1	7138.0	6903.0	6532.9	6095.0	5660.5	5211.4	4759.2	4566.1	4392.2	4361.7
10°	7381.0	7295.7	6872.4	6223.8	5420.7	4619.2	3941.6	3326.7	3056.4	2848.8	2839.1
12.5°	7587.0	7456.7	6787.2	5757.1	4537.1	3410.5	2629.9	2024.7	1799.4	1654.5	1667.4
15°	7802.7	7607.9	6603.6	5127.8	3531.1	2314.4	1615.9	1260.2	1170.1	1133.0	1142.7
17.5°	8023.2	7712.6	6347.8	4369.7	2538.1	1493.6	1118.6	1018.8	1018.8	1026.8	1030.1
20°	8214.8	7768.9	5971.1	3519.9	1720.5	1088.0	978.6	964.1	972.2	985.0	986.6
22.5°	8404.6	7772.1	5480.2	2658.8	1203.8	952.8	931.9	925.4	930.2	944.8	946.4
25°	8559.2	7733.5	4865.4	1891.1	960.9	898.1	888.4	885.2	888.4	906.1	906.1
27.5°	8621.9	7593.5	4115.4	1329.4	861.0	836.9	833.7	836.9	841.7	854.6	856.3
30°	8628.4	7348.8	3297.8	962.5	780.6	754.8	761.3	772.5	767.7	764.5	767.7
32.5°	8644.5	7065.6	2501.1	791.8	713.0	672.8	664.8	664.8	645.4	634.1	627.7
35°	8697.6	6732.4	1813.9	711.4	643.8	597.1	566.6	531.2	494.1	474.8	470.0
37.5°	8781.2	6383.2	1298.9	658.2	582.6	529.5	471.5	408.8	355.7	341.2	341.2
40°	8934.2	6022.6	960.9	616.4	534.3	468.4	381.5	299.4	251.1	243.0	243.0
42.5°	9175.6	5642.8	766.1	579.4	492.5	405.6	291.3	217.2	181.8	177.1	175.4
45°	9426.6	5224.3	669.5	544.0	447.4	333.1	215.7	161.0	140.0	135.2	135.2
47.5°	9677.8	4778.5	622.8	510.2	404.0	259.2	161.0	127.2	117.5	117.5	119.1
50°	9890.1	4313.3	589.1	473.2	347.7	196.4	127.2	107.9	104.6	111.0	112.6
52.5°	9943.2	3856.3	547.2	426.5	278.4	149.7	104.6	94.9	94.9	94.9	94.9
55°	9911.1	3502.2	492.5	368.6	206.1	119.1	90.2	83.7	82.1	82.1	82.1
57.5°	10020.6	3292.9	394.3	286.5	148.1	96.6	78.9	74.1	70.8	69.2	69.2
60°	10241.1	3156.2	281.7	206.1	111.0	80.5	67.6	62.8	57.9	54.7	54.7
62.5°	10533.9	3037.0	209.2	152.9	85.3	64.4	56.4	51.5	45.1	41.8	41.8
65°	10759.3	2824.6	159.3	114.3	64.4	51.5	43.4	41.8	32.2	29.0	27.4
67.5°	10414.9	2357.8	128.7	83.7	48.3	40.2	33.8	32.2	19.3	16.1	16.1
70°	8932.5	1641.7	103.0	61.2	35.4	32.2	27.4	21.0	14.4	12.9	12.9
71°	8100.5	1371.2	93.3	51.5	30.6	30.6	25.7	17.7	12.9	11.3	11.3
72.5°	6729.2	973.7	78.9	40.2	27.4	32.2	27.4	16.1	12.9	11.3	9.7
75°	3906.2	407.2	54.7	27.4	21.0	38.7	35.4	14.4	9.7	8.0	8.0
77.5°	1174.9	149.7	30.6	17.7	16.1	33.8	40.2	12.9	4.8	1.6	1.6
80°	214.1	64.4	19.3	11.3	11.3	21.0	30.6	6.4	0.0	0.0	0.0
82.5°	75.6	32.2	11.3	6.4	4.8	9.7	14.4	0.0	0.0	0.0	0.0
85°	43.4	22.5	6.4	3.3	0.0	1.6	3.3	0.0	0.0	0.0	0.0
87.5°	29.0	6.4	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

(END OF REPORT)