

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: P382658

Luminaire Tested: **GLEON-SA0C-735-U-AFL**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P382658  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA0C-735-U-AFL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 66907.5 lumens  
Efficiency: N/A  
Efficacy: 119.9 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G4

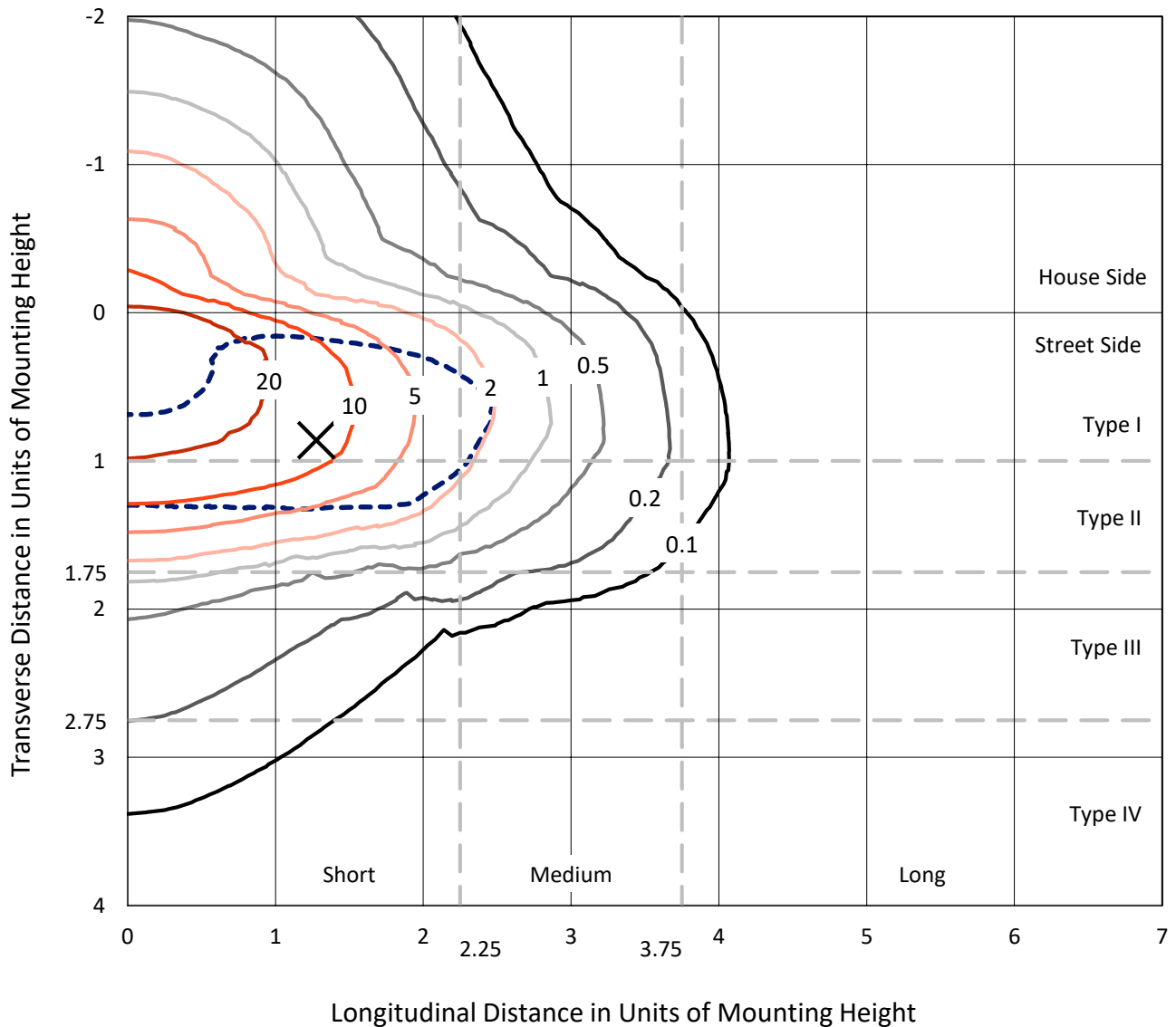
Input Watts (W): 558  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

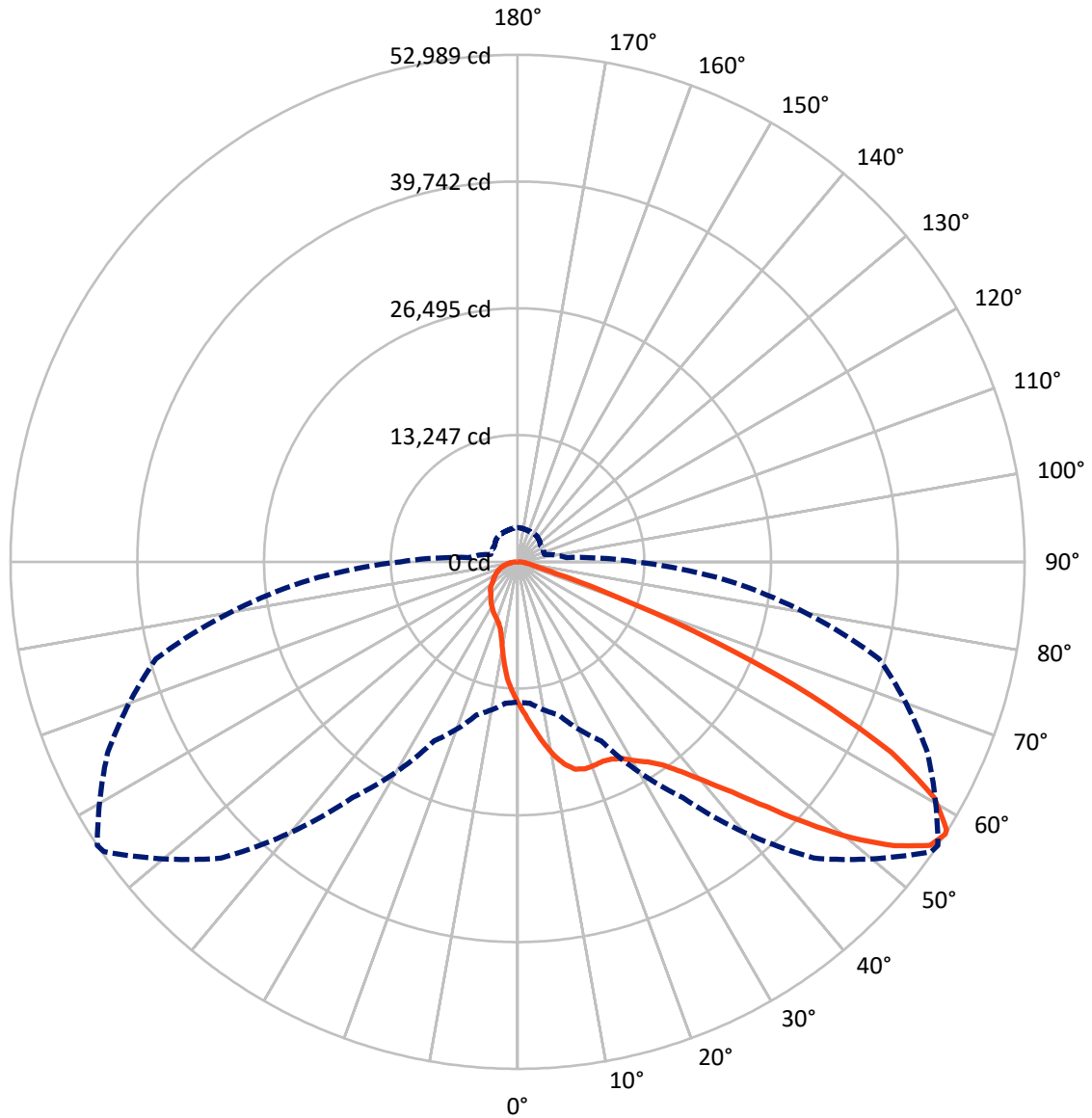
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 32.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral    - - - Horizontal Cone Through 57-Deg Vertical



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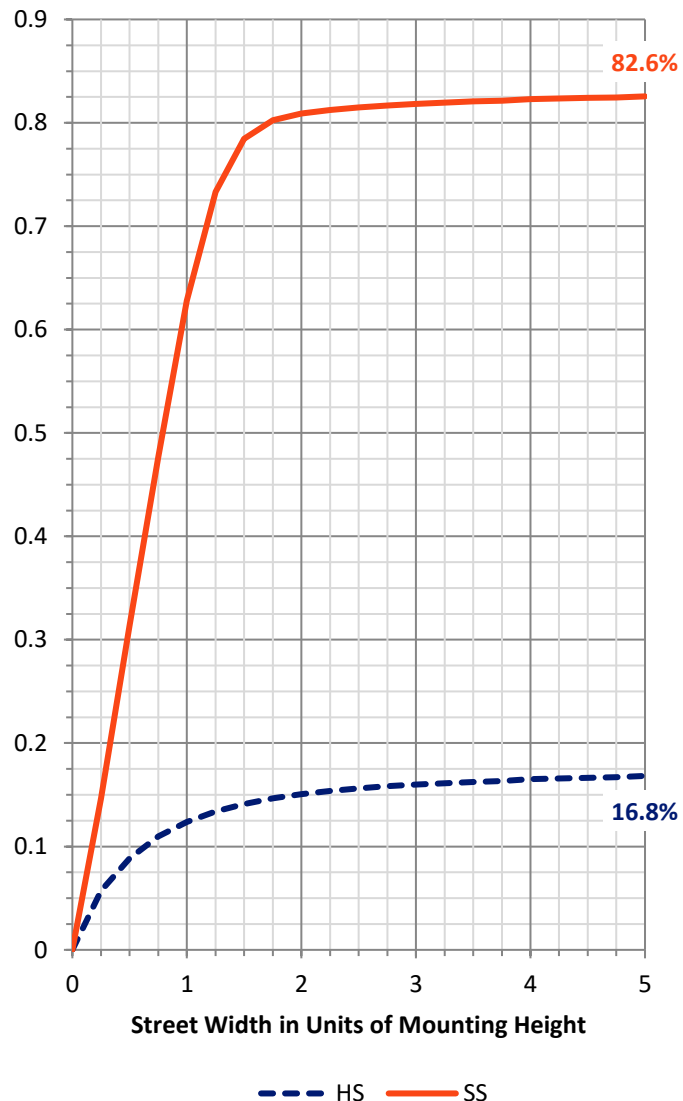
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11533.4	0.0	11533.4
	% Fixture	17.2	0.0	17.2
<b>Street Side</b>	Lumens	55374.1	0.0	55374.1
	% Fixture	82.8	0.0	82.8
<b>Total</b>	Lumens	66907.5	0.0	66907.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1417.6	2.1
10°-20°	4007.9	6.0
20°-30°	6528.1	9.8
30°-40°	9758.8	14.6
40°-50°	14802.0	22.1
50°-60°	16590.4	24.8
60°-70°	9799.0	14.6
70°-80°	3210.5	4.8
80°-90°	793.2	1.2
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°	66907.5	100.0
0°-180°	66907.5	100.0

**Coefficient of Utilization**



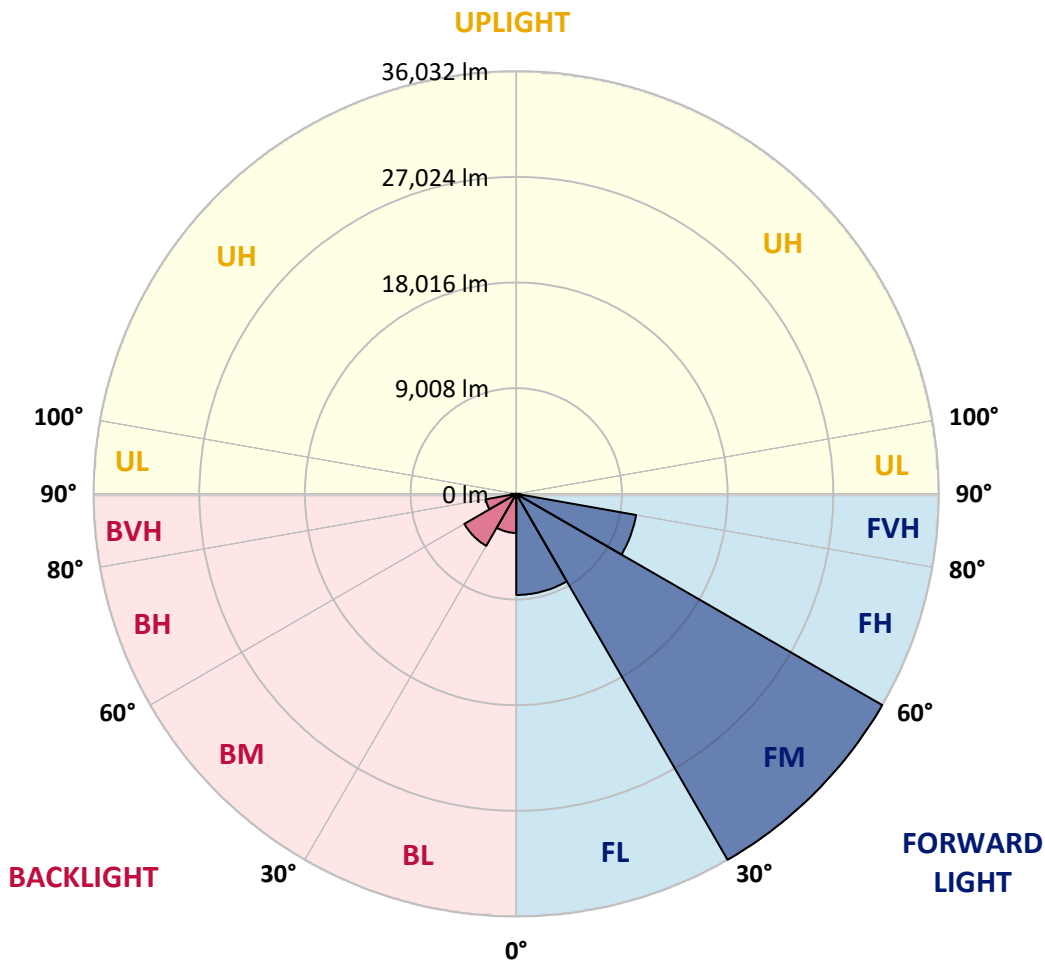
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	8618.7	12.9			
FM (30°-60°)	36031.9	53.9			
FH (60°-80°)	10374.2	15.5			G4/12000
FVH (80°-90°)	349.3	0.5			G3/500
BL (0°-30°)	3334.9	5.0	B4/5000		
BM (30°-60°)	5119.3	7.7	B4/8500		
BH (60°-80°)	2635.3	3.9	B4/5000		G4/5000
BVH (80°-90°)	443.9	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-G4**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	14840.1	14840.1	14840.1	14840.1	14840.1	14840.1	14840.1	14840.1	14840.1	14840.1	14840.1
2.5°	17040.6	17197.0	17128.0	16888.9	16704.9	16445.1	16155.4	16068.0	15762.2	15419.5	15008.0
5°	19737.8	19659.7	19546.9	19174.4	18781.3	18323.7	17597.1	17482.1	16801.5	16026.6	15208.1
7.5°	21273.8	21266.9	21200.2	20981.7	20623.1	20025.2	19149.2	19013.5	17985.7	16739.4	15470.2
10°	21050.7	21034.6	21145.0	21372.7	21480.7	21356.6	20618.5	20482.8	19220.4	17528.1	15773.7
12.5°	19783.7	19793.0	19970.1	20448.3	21099.0	21880.8	21761.2	21694.5	20501.2	18420.2	16141.6
15°	18797.3	18818.0	18958.3	19374.5	20142.5	21561.2	22455.7	22478.6	21740.6	19404.4	16571.6
17.5°	18365.1	18408.8	18473.1	18765.2	19468.8	20924.2	22621.2	22745.4	22825.9	20425.3	16985.5
20°	18503.1	18544.4	18562.9	18749.1	19326.2	20538.0	22506.3	22729.3	23658.2	21386.5	17399.4
22.5°	19121.6	19146.8	19158.4	19206.6	19655.0	20648.3	22430.4	22664.9	24260.7	22248.7	17712.1
25°	20147.0	20128.7	20055.1	19993.1	20294.2	21085.2	22605.1	22828.1	24750.4	23030.5	17916.7
27.5°	21374.9	21352.0	21209.4	21039.3	21211.7	21765.9	23108.7	23285.7	25189.6	23761.7	18020.1
30°	22848.8	22789.1	22520.1	22317.7	22384.3	22786.8	23938.7	24099.7	25868.0	24591.7	18121.3
32.5°	24552.7	24488.3	24099.7	23764.0	23764.0	24099.7	24794.1	24927.5	26442.7	25529.9	18284.6
35°	26686.5	26606.0	26100.2	25536.8	25378.2	25548.3	25959.9	26054.2	27477.5	26711.8	18581.2
37.5°	29202.0	29093.9	28438.7	27684.4	27337.2	27328.1	27624.7	27817.8	29130.7	28263.9	19084.8
40°	31724.4	31648.6	31076.0	30482.8	29802.2	29583.7	30041.3	30101.1	31292.2	30190.7	19728.6
42.5°	33674.3	33660.4	33554.7	33632.9	32936.2	32494.7	32853.4	32901.7	33931.8	32276.3	20413.8
45°	34704.4	34727.4	35240.2	36376.0	36633.6	36311.6	36488.7	36502.5	36948.6	34380.2	21041.5
47.5°	33878.9	33998.5	35295.3	37836.1	39944.7	41013.9	40719.5	40889.7	39873.4	36187.5	21533.6
50°	30662.1	30809.3	33016.7	37185.4	41489.8	45564.3	45410.2	45371.2	42232.5	37511.9	21800.4
52.5°	26677.3	26792.2	28613.4	33803.1	40356.2	48079.9	49494.0	49291.6	44329.6	38503.0	21850.9
55°	20609.3	20788.6	22533.9	27052.1	35771.3	47118.7	52496.9	52315.2	46240.3	39022.6	21791.1
57°	14651.6	14840.1	16573.9	20646.1	30091.9	43791.5	52795.8	52989.0	47272.8	39110.0	21857.8
57.5°	13074.2	13267.4	14985.0	18939.9	28321.4	42589.0	52538.4	52860.2	47459.0	39096.2	21894.6
60°	6583.1	6656.7	7751.2	10572.5	17902.9	34430.7	49178.9	50009.0	47626.9	38420.2	22053.3
62.5°	4092.8	4040.0	4005.5	4870.0	8710.0	22832.8	42246.3	43844.4	44414.6	36783.0	21669.3
65°	3598.5	3499.6	3120.2	3051.3	3846.8	11089.9	31814.1	33803.1	37551.1	34203.2	20754.1
67.5°	3380.1	3283.5	2855.8	2598.3	2600.6	4396.4	19751.6	21991.1	29252.6	29841.2	18595.0
70°	3154.8	3067.4	2667.3	2363.7	2214.3	2435.1	9087.2	10786.4	19068.7	23455.9	15541.5
72.5°	2865.0	2805.3	2425.8	2113.1	1954.5	1823.4	3479.0	4109.0	11039.3	15753.0	10793.3
75°	2561.5	2506.3	2182.1	1883.2	1690.0	1434.8	1959.0	2110.8	5608.2	8059.3	5313.8
77.5°	2228.1	2195.9	1940.7	1664.8	1510.7	1188.7	1386.5	1460.1	2405.2	3455.9	2665.0
80°	1772.8	1834.9	1696.9	1483.1	1340.5	951.9	981.9	1030.1	1400.3	1687.8	1513.0
82.5°	1154.3	1262.3	1329.0	1204.9	1103.7	749.6	705.9	726.6	912.8	1030.1	657.6
85°	480.6	540.4	873.8	788.6	733.5	547.3	473.7	482.9	565.6	586.3	269.0
87.5°	213.9	227.7	384.0	361.0	310.4	188.5	202.3	220.8	301.3	285.1	103.5
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	14840.1	14840.1	14840.1	14840.1	14840.1	14840.1	14840.1	14840.1	14840.1	14840.1	14840.1
2.5°	14853.9	14660.8	14329.7	13964.1	13665.2	13426.0	13184.6	13019.0	12825.9	12722.4	12669.5
5°	14865.5	14486.0	13789.3	13074.2	12435.0	11851.0	11294.5	10866.8	10466.8	10250.6	10190.9
7.5°	14913.7	14343.5	13216.8	12039.5	10903.6	9866.6	9066.4	8565.1	8204.1	8043.2	7997.2
10°	14952.8	14175.6	12508.5	10765.6	9220.5	8169.7	7548.8	7268.3	7144.1	7123.5	7102.8
12.5°	15044.8	14003.2	11763.6	9436.6	7912.1	7185.5	6969.4	6951.0	6985.5	7036.1	7036.1
15°	15189.6	13833.0	10912.8	8296.1	7079.8	6824.5	6868.2	6969.4	7063.6	7141.8	7153.4
17.5°	15295.5	13623.8	9997.6	7383.3	6636.0	6705.0	6861.3	7003.8	7100.4	7176.4	7183.3
20°	15371.3	13299.5	9020.5	6686.6	6380.7	6594.6	6790.1	6916.5	6983.2	7059.1	7070.5
22.5°	15332.2	12865.0	8153.6	6187.6	6173.8	6433.6	6619.9	6771.6	6721.0	6647.5	6695.8
25°	15143.6	12267.2	7261.4	5815.1	5955.4	6217.5	6447.4	6346.3	6176.1	6143.9	6162.3
27.5°	14808.0	11503.8	6436.0	5470.2	5702.5	6017.4	6003.6	5902.5	5842.7	5801.3	5826.6
30°	14446.9	10676.0	5713.9	5169.0	5421.9	5681.8	5628.9	5626.5	5566.7	5500.1	5532.3
32.5°	14090.6	9843.6	5141.4	4920.6	5210.3	5244.9	5359.8	5394.3	5277.0	5136.8	5127.6
35°	13780.1	9057.3	4706.8	4695.3	4955.2	4959.7	5127.6	5079.4	4787.3	4642.5	4642.5
37.5°	13547.9	8273.2	4375.7	4492.9	4619.5	4739.0	4824.1	4624.0	4575.8	4495.3	4492.9
40°	13446.7	7583.4	4168.8	4338.9	4382.6	4534.4	4316.0	4394.1	4417.1	4375.7	4375.7
42.5°	13341.0	6983.2	3989.4	4221.7	4214.8	4194.0	4083.7	4184.9	4276.8	4279.2	4272.3
45°	13235.1	6465.9	3830.7	3971.0	4067.6	3844.6	3865.3	3973.3	4102.1	4148.1	4148.1
47.5°	13117.9	6056.5	3685.9	3706.6	3856.0	3706.6	3690.5	3773.2	3925.0	3998.6	4014.7
50°	12860.4	5688.7	3520.3	3474.4	3515.8	3566.3	3580.1	3619.2	3787.0	3904.3	3932.0
52.5°	12504.0	5359.8	3308.8	3260.5	3260.5	3451.4	3515.8	3527.2	3669.8	3810.0	3837.6
55°	12207.4	5150.6	3090.3	3081.2	3072.0	3329.4	3439.8	3458.3	3557.1	3667.5	3681.3
57°	12228.1	5134.5	2922.5	2931.7	2929.4	3205.4	3368.6	3407.7	3458.3	3552.5	3568.7
57.5°	12239.5	5146.0	2885.7	2890.3	2888.0	3170.8	3347.9	3391.6	3430.7	3529.5	3545.7
60°	12412.0	5175.9	2736.2	2685.7	2697.2	2986.9	3230.6	3285.8	3311.1	3442.2	3462.8
62.5°	12156.8	5042.6	2616.7	2494.8	2494.8	2793.7	3067.4	3154.8	3193.8	3370.9	3405.4
65°	11416.4	4667.7	2476.4	2278.7	2301.7	2600.6	2871.9	3014.5	3074.3	3295.0	3331.8
67.5°	10273.6	4233.1	2327.0	2085.5	2108.6	2398.3	2669.5	2823.6	2917.9	3212.3	3242.2
70°	8785.9	3702.0	2124.6	1880.9	1908.5	2177.5	2430.4	2605.2	2745.5	3134.0	3143.2
72.5°	6477.3	3035.2	1841.8	1655.5	1685.4	1920.0	2189.0	2391.4	2579.9	2938.6	2934.0
75°	3851.5	2372.9	1529.0	1427.9	1448.6	1667.0	1970.6	2216.6	2499.4	2862.7	2906.4
77.5°	2336.1	1786.6	1246.2	1195.6	1221.0	1444.0	1814.2	2076.3	2465.0	2699.4	2685.7
80°	1411.9	1276.1	995.6	963.4	988.7	1234.8	1678.6	1970.6	2154.5	2306.2	2306.2
82.5°	738.1	779.5	731.2	705.9	740.4	1002.5	1526.8	1719.9	1903.9	1634.9	1526.8
85°	301.3	407.0	443.8	441.5	462.1	694.4	1317.6	1471.6	1227.9	1165.7	1193.4
87.5°	101.2	172.4	216.1	186.2	195.4	436.9	912.8	710.5	843.9	588.6	558.7
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)