

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: P323011

Luminaire Tested: **GLEON-SA7C-827-U-T4W-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P323011  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA7C-827-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26656 lumens  
Efficiency: N/A  
Efficacy: 68.2 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5

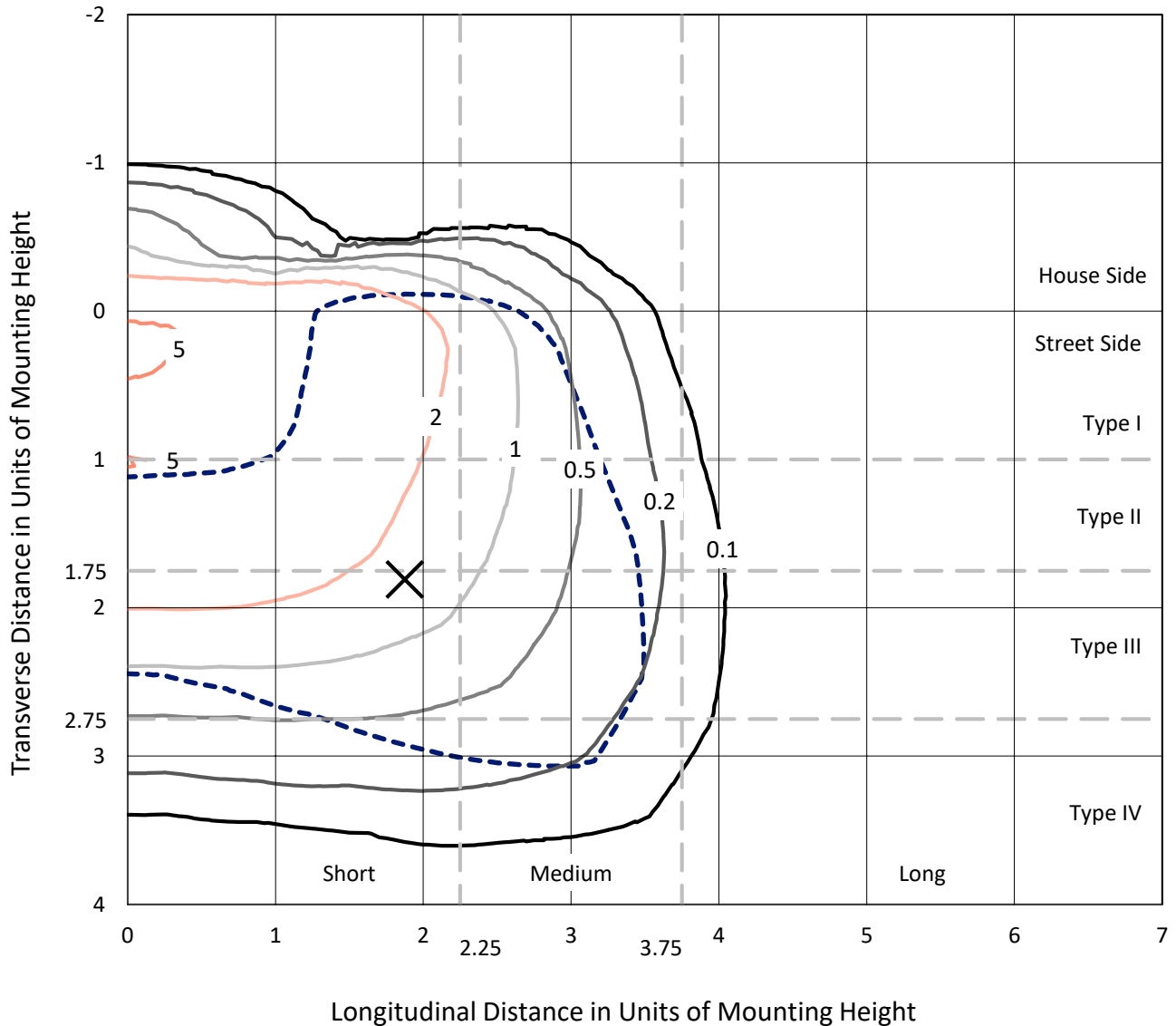
Input Watts (W): 391  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

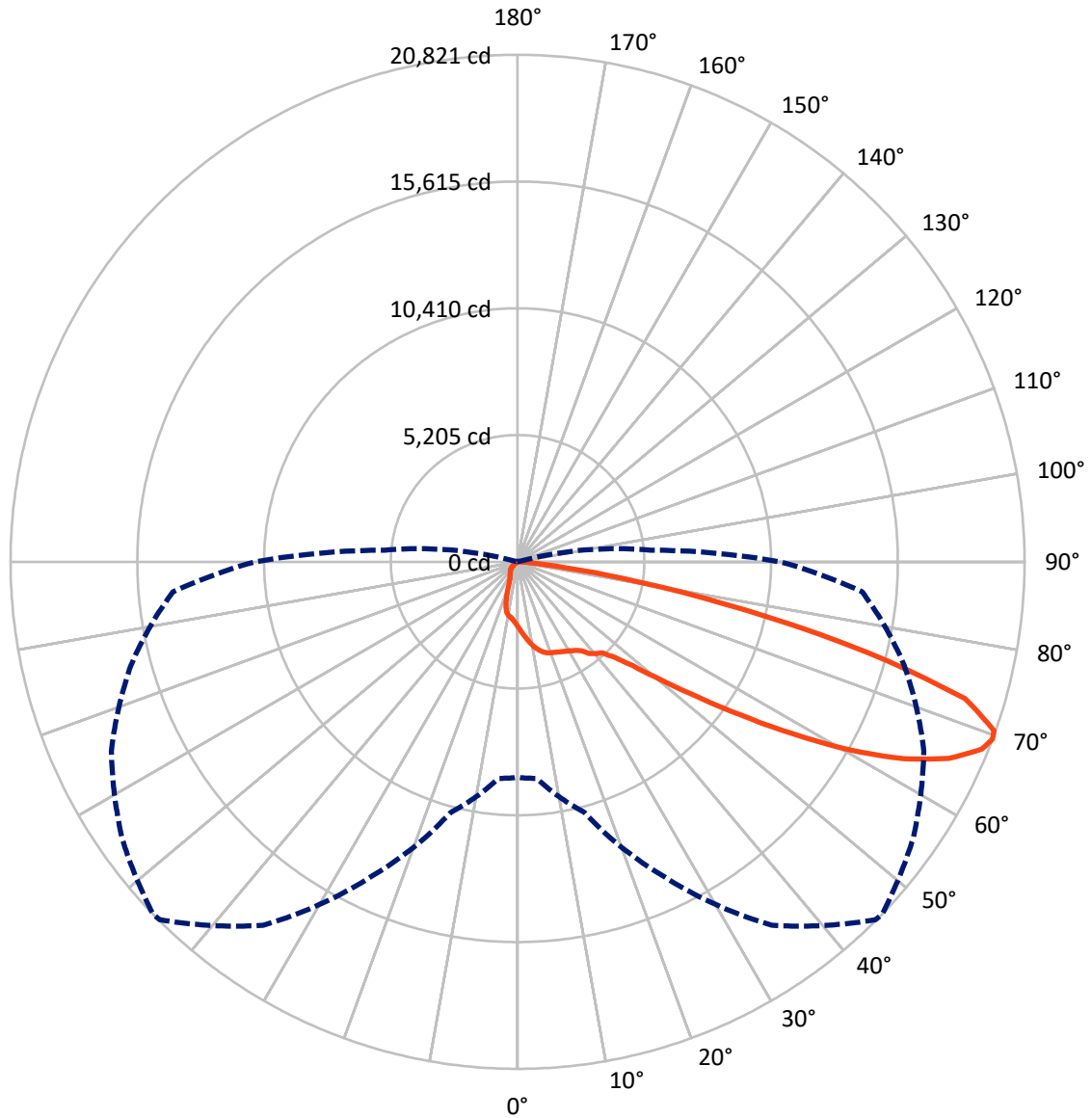
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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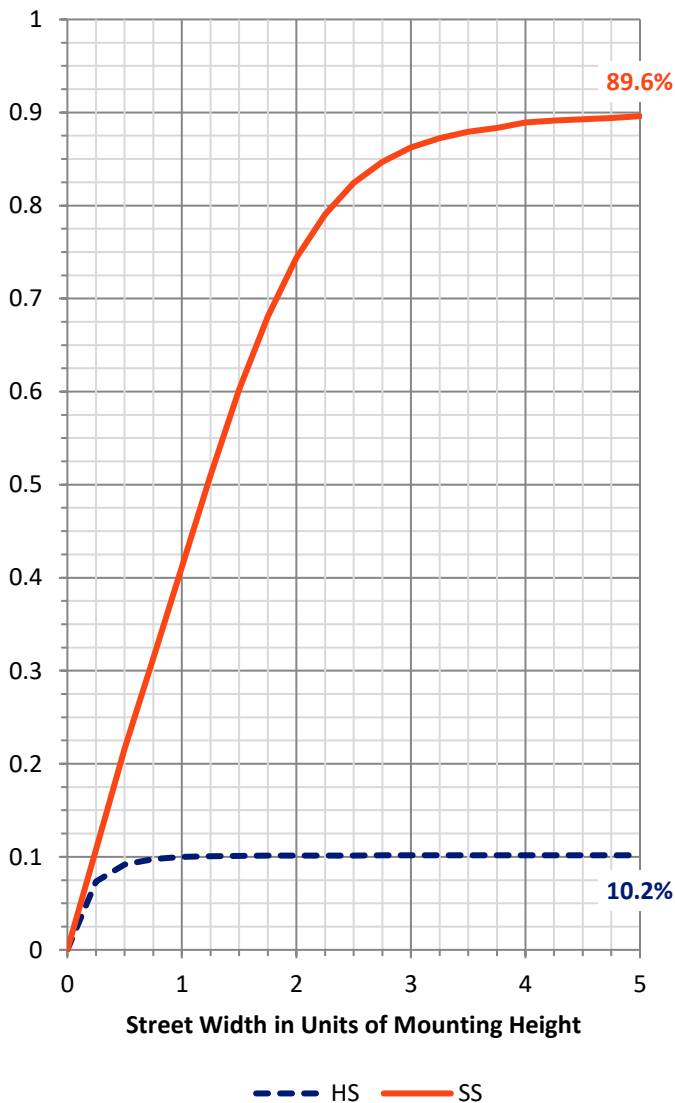
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2735.6	0.0	2735.6
	% Fixture	10.3	0.0	10.3
<b>Street Side</b>	Lumens	23920.4	0.0	23920.4
	% Fixture	89.7	0.0	89.7
<b>Total</b>	Lumens	26656.0	0.0	26656.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	265.8	1.0
10°-20°	806.5	3.0
20°-30°	1268.3	4.8
30°-40°	1818.8	6.8
40°-50°	3143.6	11.8
50°-60°	6210.5	23.3
60°-70°	8679.7	32.6
70°-80°	4193.2	15.7
80°-90°	269.5	1.0
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°	26656.0	100.0
0°-180°	26656.0	100.0

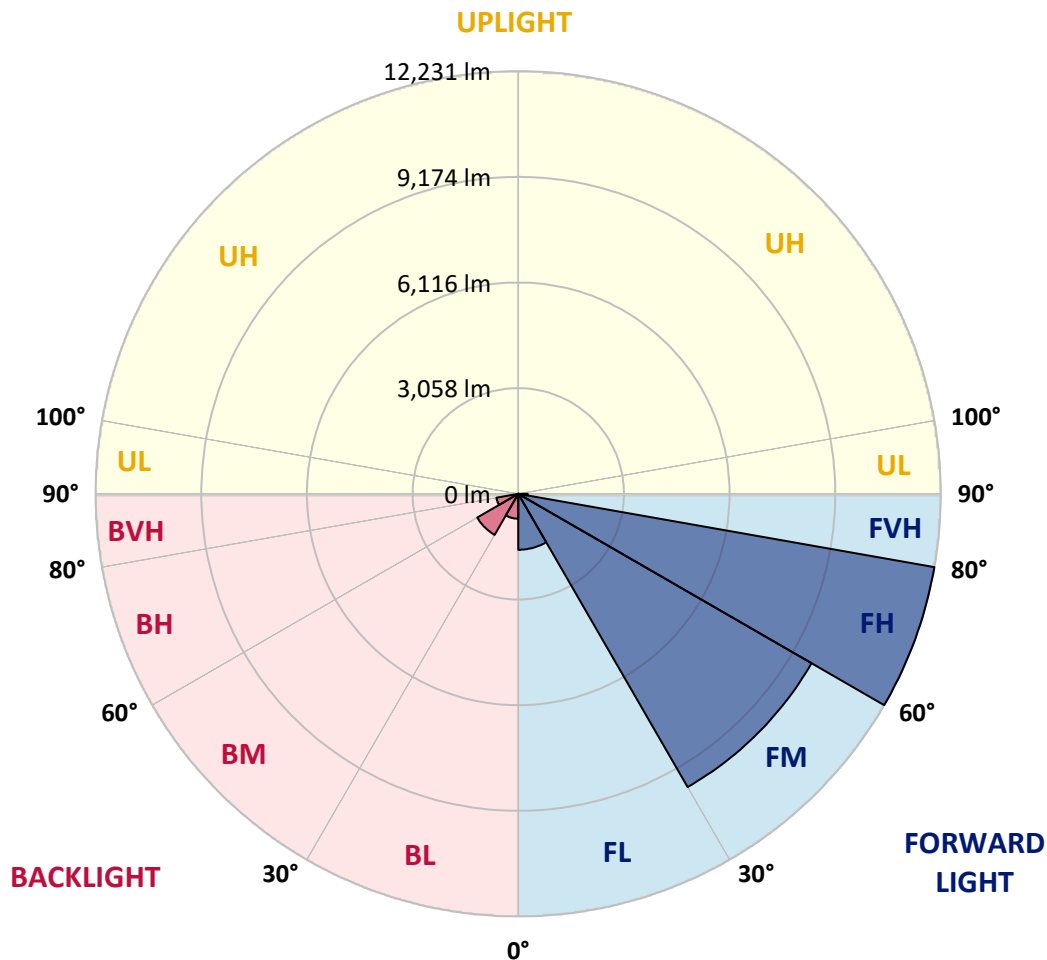


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1619.7	6.1			
FM (30°-60°)	9802.0	36.8			
FH (60°-80°)	12231.5	45.9			G5
FVH (80°-90°)	267.2	1.0			G3/500
BL (0°-30°)	721.0	2.7	B2/1000		
BM (30°-60°)	1370.9	5.1	B2/2500		
BH (60°-80°)	641.4	2.4	B2/1000		G2/1000
BVH (80°-90°)	2.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G5**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2670.8	2670.8	2670.8	2670.8	2670.8	2670.8	2670.8	2670.8	2670.8	2670.8	2670.8
2.5°	2967.0	2963.3	2945.8	2938.3	2895.8	2870.8	2860.8	2829.6	2784.6	2739.6	2689.6
5°	3304.5	3303.2	3270.7	3239.5	3159.5	3084.5	3070.8	2998.3	2897.0	2802.1	2707.1
7.5°	3649.4	3633.2	3600.7	3540.7	3424.5	3304.5	3293.2	3190.8	3047.0	2909.5	2773.3
10°	3941.9	3931.9	3889.4	3798.2	3661.9	3525.7	3511.9	3385.7	3223.2	3054.5	2880.8
12.5°	4169.3	4161.8	4105.6	3991.9	3846.9	3705.7	3686.9	3574.4	3400.7	3212.0	3007.0
15°	4308.1	4304.3	4235.6	4114.4	3971.9	3849.4	3833.1	3734.4	3573.2	3375.7	3144.5
17.5°	4340.6	4341.8	4270.6	4148.1	4030.6	3943.1	3930.6	3855.6	3720.7	3524.4	3282.0
20°	4268.1	4283.1	4219.3	4113.1	4040.6	3994.4	3984.4	3939.4	3825.7	3640.7	3392.0
22.5°	4165.6	4173.1	4129.4	4058.1	4028.1	4036.9	4031.9	4006.9	3910.6	3740.7	3500.7
25°	4103.1	4103.1	4076.9	4016.9	4036.9	4090.6	4091.9	4086.9	4010.6	3863.1	3633.2
27.5°	4100.6	4093.1	4063.1	4018.1	4073.1	4155.6	4160.6	4194.3	4146.9	4011.9	3798.2
30°	4200.6	4191.8	4128.1	4069.4	4139.4	4228.1	4240.6	4314.3	4290.6	4173.1	3981.9
32.5°	4434.3	4403.1	4261.8	4165.6	4218.1	4324.3	4340.6	4458.1	4495.5	4371.8	4159.3
35°	4754.3	4655.5	4451.8	4348.1	4353.1	4464.3	4479.3	4651.8	4763.0	4554.3	4296.8
37.5°	5195.4	5146.7	4815.5	4538.0	4560.5	4729.3	4773.0	4960.5	4929.2	4654.3	4453.1
40°	6162.8	6086.5	5734.1	5070.5	4759.3	4944.2	4958.0	5058.0	5060.5	4880.5	4778.0
42.5°	7480.1	7448.8	7077.6	6036.6	5150.4	5088.0	5112.9	5281.7	5470.4	5357.9	5352.9
45°	8938.6	8922.4	8528.7	7318.9	5941.6	5559.1	5590.4	5816.6	6177.8	6202.8	6361.5
47.5°	10112.2	10104.7	9878.5	8749.9	7152.6	6357.8	6367.8	6607.7	7242.6	7556.3	7810.0
50°	11182.0	11218.2	11039.5	10298.4	8802.4	7608.8	7585.1	7745.0	8764.9	9278.5	9593.5
52.5°	12669.3	12720.5	12219.3	11743.2	10533.3	9161.1	9142.3	9309.8	10594.6	10979.5	11035.8
55°	13982.8	13895.3	13499.1	13361.7	12644.3	11078.3	11073.3	11220.7	12364.3	12528.0	12631.8
57.5°	14562.7	14529.0	14720.2	15035.1	14855.2	13344.2	13332.9	13220.4	13947.8	13965.3	14284.0
60°	14928.9	14970.2	15556.3	16527.4	16976.1	15782.5	15710.0	15023.9	15460.1	15421.3	15762.5
62.5°	14654.0	14735.2	15790.0	17408.5	18563.3	17910.9	17808.5	16676.1	16752.4	16618.6	16936.1
65°	13194.2	13320.4	15048.9	17242.3	19350.7	19574.4	19470.7	18134.7	17778.5	17558.5	17382.3
67.5°	10713.3	10788.3	12593.0	15796.3	18995.8	20566.8	20545.5	19413.2	18553.3	17399.8	16032.5
69°	8853.6	8927.4	10664.6	14274.0	18214.6	20779.2	20820.5	19823.1	18405.9	16434.9	14205.3
70°	7498.8	7577.6	9196.1	12969.2	17308.5	20680.5	20754.2	19784.4	17983.4	15317.6	12601.8
72.5°	3933.1	4000.6	5661.6	8934.9	14110.3	18989.5	19213.2	18112.2	15243.9	11124.5	7451.3
75°	1236.1	1274.8	2210.9	4670.5	9661.0	14765.2	14816.4	14207.8	10824.6	6119.0	3103.3
77.5°	471.2	459.9	736.1	1721.0	4884.2	9297.3	9611.0	8878.6	5680.4	2163.4	716.1
80°	253.7	255.0	382.4	712.4	2089.7	4778.0	5043.0	4303.1	2018.4	674.9	165.0
82.5°	110.0	115.0	215.0	377.4	959.8	1762.2	1894.7	1577.3	771.1	453.7	61.2
85°	23.7	26.2	103.7	205.0	391.2	494.9	518.7	511.2	491.2	352.4	23.7
87.5°	0.0	0.0	46.2	73.7	98.7	112.5	98.7	128.7	271.2	237.5	12.5
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°	2670.8	2670.8	2670.8	2670.8	2670.8	2670.8	2670.8	2670.8	2670.8	2670.8	2670.8
2.5°	2673.3	2650.8	2612.1	2569.6	2539.6	2508.4	2483.4	2472.1	2459.6	2450.9	2462.1
5°	2668.3	2624.6	2549.6	2477.1	2424.6	2382.1	2347.1	2333.4	2319.6	2309.6	2308.4
7.5°	2712.1	2650.8	2535.9	2429.6	2348.4	2290.9	2243.4	2223.4	2207.2	2199.7	2193.4
10°	2795.8	2717.1	2563.3	2424.6	2319.6	2222.2	2119.7	2040.9	1989.7	1965.9	1957.2
12.5°	2904.5	2805.8	2615.8	2450.9	2298.4	2110.9	1893.5	1706.0	1584.8	1544.8	1521.0
15°	3032.0	2909.5	2684.6	2484.6	2220.9	1878.5	1509.8	1264.8	1152.3	1129.8	1104.8
17.5°	3154.5	3019.5	2767.1	2490.9	2050.9	1501.0	1106.1	939.9	896.1	911.1	914.9
20°	3262.0	3128.3	2848.3	2435.9	1742.2	1126.1	856.1	814.9	831.1	859.9	864.9
22.5°	3370.7	3233.2	2923.3	2290.9	1347.3	854.9	771.1	781.1	797.4	826.1	831.1
25°	3503.2	3360.7	2993.3	2024.7	1011.1	727.4	732.4	747.4	763.6	789.9	792.4
27.5°	3655.7	3521.9	3039.5	1678.5	749.9	668.6	684.9	707.4	723.6	748.6	753.6
30°	3858.1	3734.4	3054.5	1319.8	628.7	616.2	623.7	651.1	674.9	697.4	701.1
32.5°	4048.1	3944.4	3004.5	996.1	582.4	567.4	567.4	583.7	611.2	632.4	637.4
35°	4223.1	4155.6	2844.6	728.6	547.4	522.4	509.9	509.9	527.4	544.9	549.9
37.5°	4454.3	4451.8	2585.8	581.2	513.7	484.9	458.7	438.7	432.4	436.2	438.7
40°	4850.5	4854.2	2248.4	521.2	484.9	446.2	406.2	369.9	336.2	324.9	323.7
42.5°	5469.1	5412.9	1894.7	492.4	459.9	406.2	346.2	297.5	245.0	228.7	227.5
45°	6451.5	6117.8	1519.8	466.2	433.7	361.2	286.2	220.0	177.5	165.0	165.0
47.5°	7882.5	7043.9	1177.3	437.4	398.7	310.0	216.2	158.7	130.0	123.7	125.0
50°	9362.3	7951.3	902.4	401.2	356.2	256.2	160.0	115.0	98.7	98.7	100.0
52.5°	10674.6	8616.2	703.6	362.4	303.7	201.2	121.2	90.0	82.5	81.2	82.5
55°	11903.1	9044.8	538.7	317.5	241.2	150.0	92.5	73.7	68.7	66.2	65.0
57.5°	13087.9	9257.3	403.7	256.2	175.0	108.7	73.7	62.5	57.5	53.7	52.5
60°	13876.6	9084.8	277.5	188.7	121.2	78.7	61.2	53.7	47.5	43.7	42.5
62.5°	14321.5	8613.7	178.7	136.2	86.2	58.7	48.7	45.0	36.2	32.5	32.5
65°	14141.5	7836.3	125.0	97.5	62.5	43.7	36.2	36.2	26.2	21.2	20.0
67.5°	12531.8	6620.2	95.0	72.5	45.0	32.5	27.5	31.2	16.2	10.0	10.0
69°	10782.1	5486.6	81.2	60.0	37.5	26.2	23.7	28.7	11.2	7.5	6.2
70°	9371.0	4733.0	73.7	52.5	31.2	22.5	21.2	27.5	11.2	6.2	5.0
72.5°	5606.6	2639.6	56.2	37.5	20.0	17.5	17.5	31.2	11.2	6.2	5.0
75°	2265.9	929.9	41.2	26.2	15.0	15.0	21.2	40.0	10.0	5.0	3.7
77.5°	513.7	203.7	23.7	16.2	10.0	15.0	25.0	31.2	6.2	2.5	0.0
80°	125.0	50.0	15.0	10.0	6.2	11.2	18.7	17.5	1.2	0.0	0.0
82.5°	41.2	17.5	6.2	5.0	1.2	3.7	8.7	5.0	0.0	0.0	0.0
85°	17.5	10.0	2.5	1.2	0.0	0.0	1.2	0.0	0.0	0.0	0.0
87.5°	11.2	3.7	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

(END OF REPORT)