

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: P647139

Luminaire Tested: **GALN-SA8C-835-U-T4FT-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647139  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8C-835-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 32009 lumens  
Efficiency: N/A  
Efficacy: 74.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5

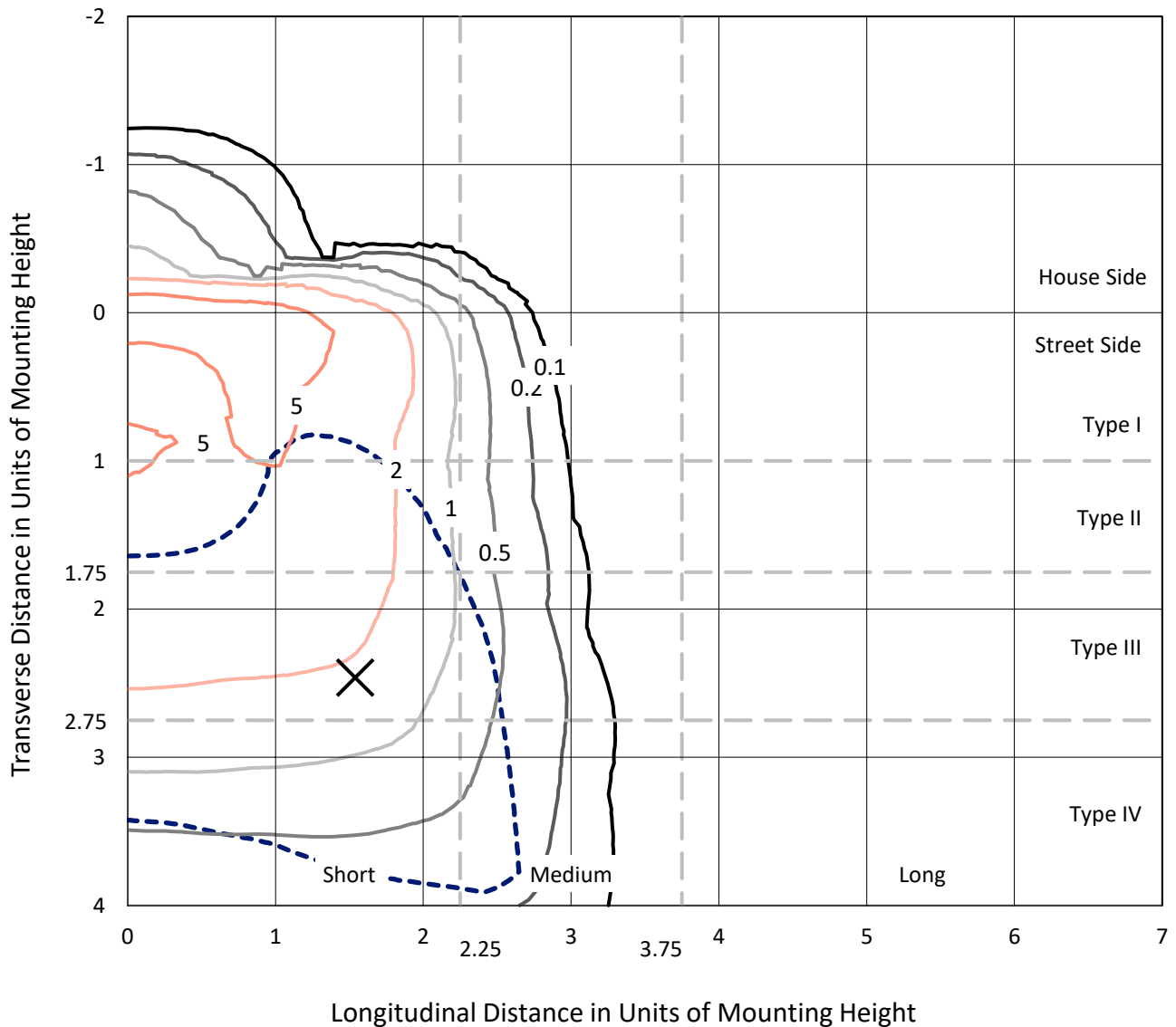
Input Watts (W): 429  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

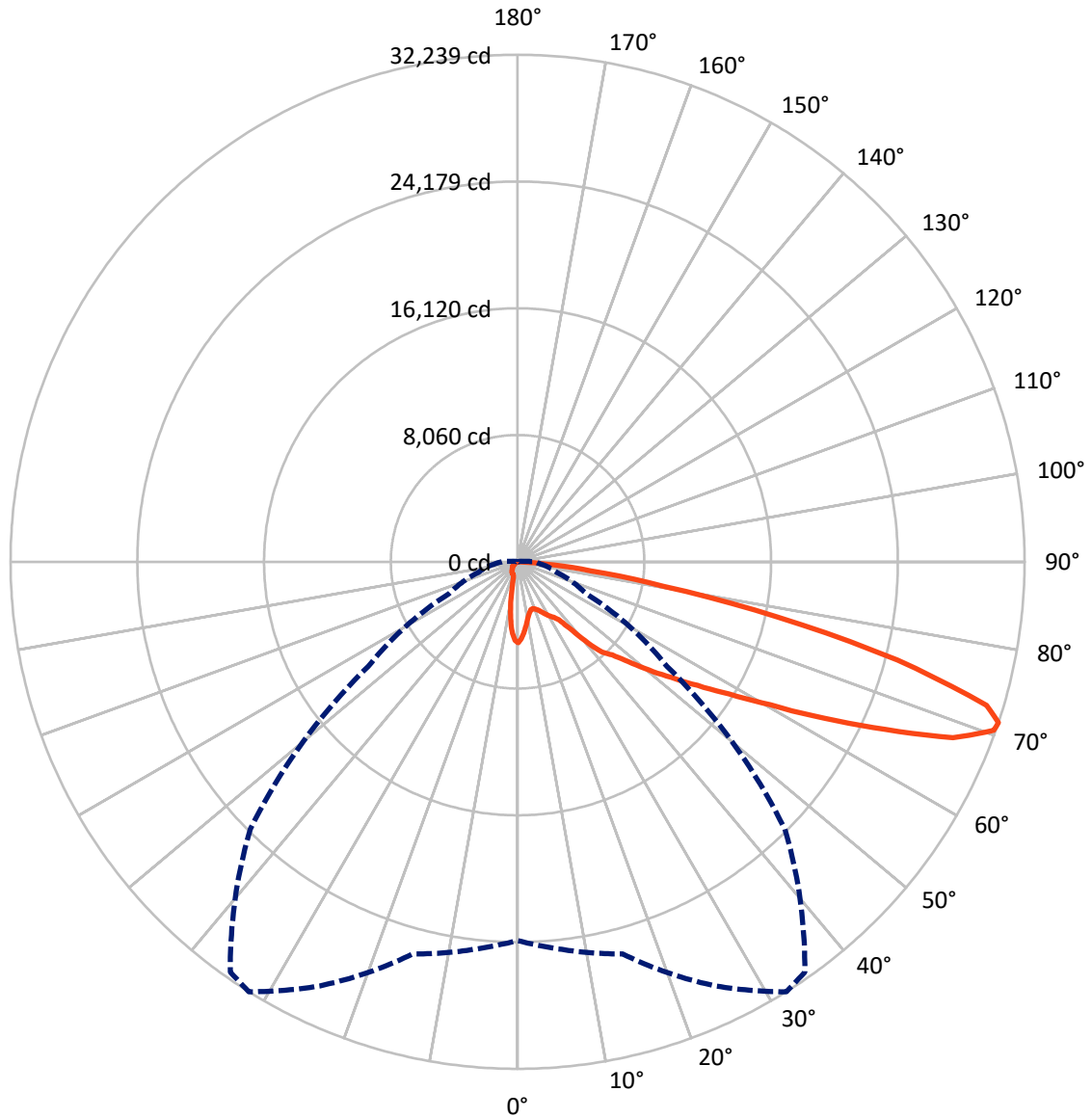
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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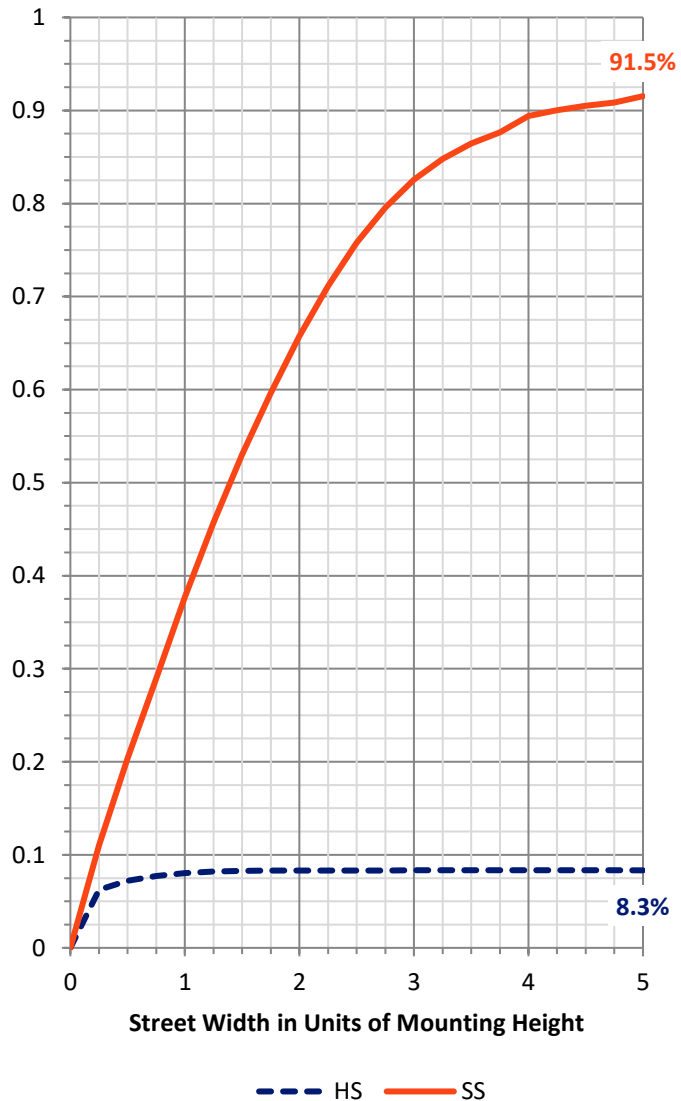
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2681.1	0.0	2681.1
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	29327.9	0.0	29327.9
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	32009.0	0.0	32009.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	418.6	1.3
10°-20°	908.4	2.8
20°-30°	1413.2	4.4
30°-40°	2354.4	7.4
40°-50°	4379.6	13.7
50°-60°	7031.7	22.0
60°-70°	9457.9	29.5
70°-80°	5611.5	17.5
80°-90°	433.7	1.4
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°	32009.0	100.0
0°-180°	32009.0	100.0

**Coefficient of Utilization**



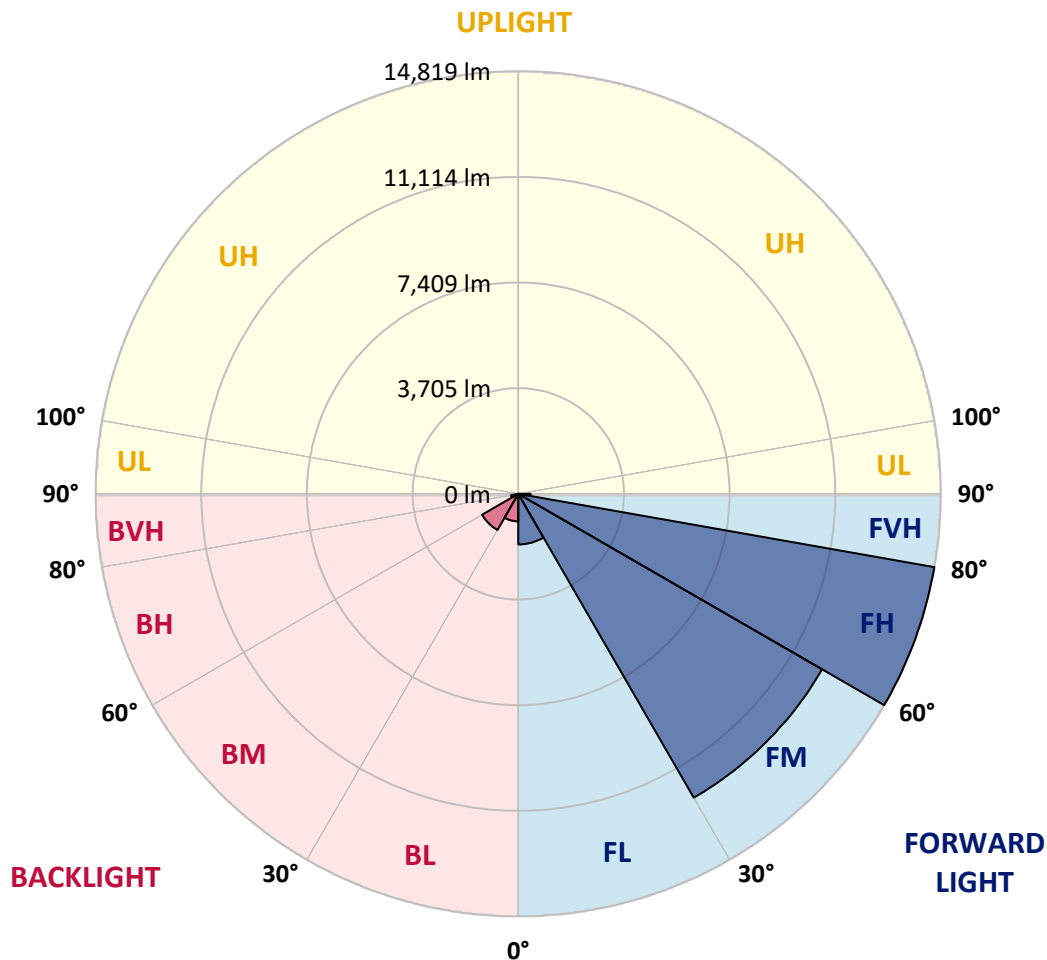
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1774.2	5.5			
FM (30°-60°)	12303.1	38.4			
FH (60°-80°)	14818.6	46.3			G5
FVH (80°-90°)	432.1	1.3			G3/500
BL (0°-30°)	966.1	3.0	B2/1000		
BM (30°-60°)	1462.6	4.6	B2/2500		
BH (60°-80°)	250.8	0.8	B1/500		G1/500
BVH (80°-90°)	1.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	5147.5	5147.5	5147.5	5147.5	5147.5	5147.5	5147.5	5147.5	5147.5	5147.5	5147.5
2.5°	4774.1	4823.2	4815.8	4833.1	4874.8	4892.0	4938.7	4990.3	5061.5	5110.7	5142.7
5°	4275.3	4312.1	4317.1	4403.0	4444.9	4491.5	4629.1	4779.0	4946.1	5078.8	5167.2
7.5°	3742.1	3761.8	3801.1	3914.1	4019.8	4066.4	4275.3	4535.8	4798.6	5046.8	5206.6
10°	3302.3	3324.4	3395.6	3516.1	3614.3	3675.8	3965.7	4292.5	4661.0	5029.6	5263.0
12.5°	3051.7	3064.0	3091.0	3199.1	3324.4	3390.8	3702.8	4076.3	4550.5	5037.0	5358.9
15°	3034.4	3029.6	2997.6	3041.9	3154.9	3223.7	3528.4	3928.9	4452.2	5061.5	5471.9
17.5°	3125.4	3113.1	3036.9	3036.9	3130.3	3186.8	3454.6	3850.2	4403.0	5118.1	5631.6
20°	3265.4	3245.8	3120.5	3110.6	3201.5	3260.5	3498.8	3855.1	4412.9	5223.7	5845.3
22.5°	3442.4	3420.2	3231.0	3236.0	3334.2	3393.2	3626.6	3943.6	4474.3	5353.9	6073.9
25°	3673.3	3648.8	3425.2	3415.3	3518.5	3570.1	3815.8	4100.8	4560.3	5516.1	6373.6
27.5°	3980.5	3928.9	3661.0	3646.3	3756.8	3823.2	4044.4	4312.1	4712.6	5739.7	6776.6
30°	4233.5	4177.0	3921.5	3882.2	4000.1	4051.7	4280.2	4597.1	5012.5	6130.3	7334.4
32.5°	4565.2	4481.7	4181.9	4078.7	4204.0	4270.4	4621.7	5127.9	5457.1	6543.1	7997.7
35°	5312.2	5260.6	4894.5	4533.3	4525.9	4609.4	5125.4	5663.5	5914.2	7186.9	8901.9
37.5°	6381.0	6344.2	5955.9	5471.9	5331.8	5292.5	5737.3	6253.2	6643.9	8071.5	9953.6
40°	7621.8	7535.8	7179.6	6769.2	6587.4	6471.9	6459.6	7130.4	7597.2	9273.0	11049.5
42.5°	8511.3	8354.1	7921.6	7892.1	7852.8	7732.4	7383.5	8413.0	8828.2	10565.4	12221.5
45°	9444.9	9206.6	8562.9	8452.3	8437.5	8430.2	8779.1	9931.5	10169.8	11965.9	13425.4
47.5°	10169.8	9980.6	9452.3	9403.2	9464.6	9631.7	10624.4	11543.3	11494.1	13214.1	14435.2
50°	11135.4	10992.9	10405.7	10499.0	10816.0	11088.8	12705.5	13300.1	12582.7	14197.0	15169.9
52.5°	12275.5	12012.6	11467.1	11720.2	12206.7	12661.3	14914.4	14838.2	13346.8	14936.5	15717.9
55°	13263.2	13076.5	12889.7	13152.7	13879.9	14447.5	16909.5	15990.6	13902.1	15531.1	15958.6
57.5°	14934.1	14889.8	14698.2	14966.0	15848.1	16437.8	18695.8	16884.9	14258.4	15840.7	15676.1
60°	17405.9	17334.6	16978.3	17319.9	18469.8	19396.1	20342.0	17688.4	14339.5	15720.3	14862.8
62.5°	20378.9	20135.6	19831.0	20334.7	21912.1	22320.0	21892.4	18165.1	14037.2	14762.1	12902.0
65°	23155.4	22904.8	22912.1	23973.6	25691.1	25968.7	23700.9	18093.8	13152.7	12361.5	9516.2
67.5°	25280.7	25239.0	25538.7	27610.1	29855.8	29664.2	25317.6	17027.4	10531.0	8012.5	5056.6
70°	25388.9	25470.0	26329.9	29826.3	32106.4	31801.8	25180.0	13840.6	6565.3	3685.6	1992.7
71°	24081.7	24627.2	25816.4	29757.5	32239.2	31843.6	24020.2	11592.5	4815.8	2570.1	1437.4
72.5°	20521.4	20808.9	23379.0	28005.6	31190.0	30344.8	21079.1	8125.5	3083.6	1572.5	825.6
75°	11302.5	12010.1	15656.4	21971.1	24946.6	24204.6	13737.4	3860.0	1538.1	860.0	341.5
77.5°	5381.0	5243.4	7639.0	13066.7	16914.4	16875.1	6921.6	1715.0	896.8	582.3	172.0
80°	1538.1	1729.8	2923.9	6211.5	9390.9	9494.1	2658.5	828.0	621.6	454.5	88.5
82.5°	464.4	474.2	1073.7	2747.0	4670.9	4403.0	997.5	422.6	447.2	361.2	51.6
85°	81.1	100.8	317.0	968.1	1781.4	1351.4	250.6	201.5	294.9	238.3	29.5
87.5°	4.9	7.4	105.6	110.6	157.2	90.9	44.2	29.5	63.9	63.9	17.2
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°	5147.5	5147.5	5147.5	5147.5	5147.5	5147.5	5147.5	5147.5	5147.5	5147.5	5147.5
2.5°	5164.7	5179.5	5169.7	5147.5	5110.7	5066.5	5007.5	4958.3	4916.6	4894.5	4921.5
5°	5196.7	5216.3	5167.2	5056.6	4889.6	4707.7	4501.3	4341.7	4216.3	4177.0	4162.3
7.5°	5245.9	5258.2	5125.4	4879.7	4525.9	4096.0	3720.0	3403.1	3157.3	3083.6	2975.5
10°	5309.8	5302.3	5051.8	4594.7	3973.1	3326.9	2744.6	2312.1	1985.3	1867.4	1857.5
12.5°	5408.0	5368.7	4958.3	4206.5	3314.6	2469.3	1749.5	1368.6	1162.2	1093.4	1078.7
15°	5530.9	5437.5	4810.9	3751.9	2538.2	1594.7	1078.7	963.2	936.2	931.2	926.3
17.5°	5675.8	5528.4	4616.8	3194.2	1783.8	1034.4	901.8	899.3	901.8	896.8	894.3
20°	5872.4	5624.2	4385.9	2533.2	1179.4	872.3	860.0	860.0	862.4	860.0	860.0
22.5°	6081.2	5737.3	4100.8	1933.7	889.5	828.0	825.6	830.4	835.4	833.0	833.0
25°	6339.2	5884.6	3724.9	1324.4	796.1	791.1	793.6	803.4	813.3	815.7	813.3
27.5°	6712.7	6066.5	3322.0	911.6	729.8	734.7	759.2	783.8	798.6	801.0	801.0
30°	7132.9	6268.0	2796.2	739.5	675.7	675.7	705.2	751.8	783.8	788.7	791.1
32.5°	7673.4	6501.4	2213.9	665.9	624.1	619.2	646.2	702.7	761.7	778.9	778.9
35°	8341.8	6776.6	1646.3	619.2	587.2	575.0	589.7	636.3	712.5	761.7	766.6
37.5°	9125.6	7037.1	1203.9	577.4	552.9	535.7	545.4	582.3	643.8	717.5	737.1
40°	9850.4	7268.0	899.3	543.0	518.4	506.1	513.5	530.7	582.3	651.1	663.4
42.5°	10641.5	7447.3	715.0	506.1	484.1	479.1	479.1	486.5	520.9	560.2	562.7
45°	11430.2	7511.2	599.5	461.9	447.2	452.1	449.7	444.7	459.5	454.5	454.5
47.5°	11993.0	7435.1	496.3	420.2	420.2	427.5	415.2	398.1	390.6	361.2	363.6
50°	12378.7	7157.4	407.9	371.0	390.6	400.5	375.9	348.9	321.9	289.9	282.6
52.5°	12538.4	6663.6	334.2	307.2	346.5	358.8	329.3	297.3	255.6	228.5	221.1
55°	12435.2	6054.2	277.7	250.6	292.4	307.2	277.7	240.8	194.1	164.6	159.7
57.5°	11980.7	5326.9	235.8	199.0	233.4	243.3	223.6	184.3	137.6	108.1	108.1
60°	11194.4	4575.1	191.7	157.2	174.5	189.2	169.5	132.7	93.3	66.3	61.5
62.5°	9599.7	3715.1	154.8	122.9	122.9	135.1	117.9	95.8	59.0	34.4	31.9
65°	6931.4	2548.0	122.9	90.9	88.5	88.5	73.7	63.9	34.4	14.7	9.9
67.5°	3766.7	1437.4	98.3	68.8	61.5	59.0	46.7	36.9	14.7	2.4	0.0
70°	1481.6	552.9	76.2	46.7	39.3	36.9	24.6	17.2	9.9	0.0	0.0
71°	1004.9	380.9	66.3	39.3	31.9	27.0	19.7	14.7	7.4	0.0	0.0
72.5°	575.0	235.8	51.6	29.5	24.6	19.7	14.7	9.9	7.4	0.0	0.0
75°	250.6	120.4	31.9	22.1	17.2	12.3	9.9	7.4	2.4	0.0	0.0
77.5°	127.8	66.3	22.1	17.2	9.9	7.4	4.9	2.4	0.0	0.0	0.0
80°	71.3	34.4	14.7	9.9	7.4	4.9	2.4	2.4	0.0	0.0	0.0
82.5°	39.3	19.7	7.4	4.9	2.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	24.6	12.3	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.3	4.9	0.0	0.0	0.0	0.0	2.4	2.4	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)