

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: P647333

Luminaire Tested: **GALN-SA3D-835-U-SL4**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647333  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3D-835-U-SL4  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17699.7 lumens  
Efficiency: N/A  
Efficacy: 96.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

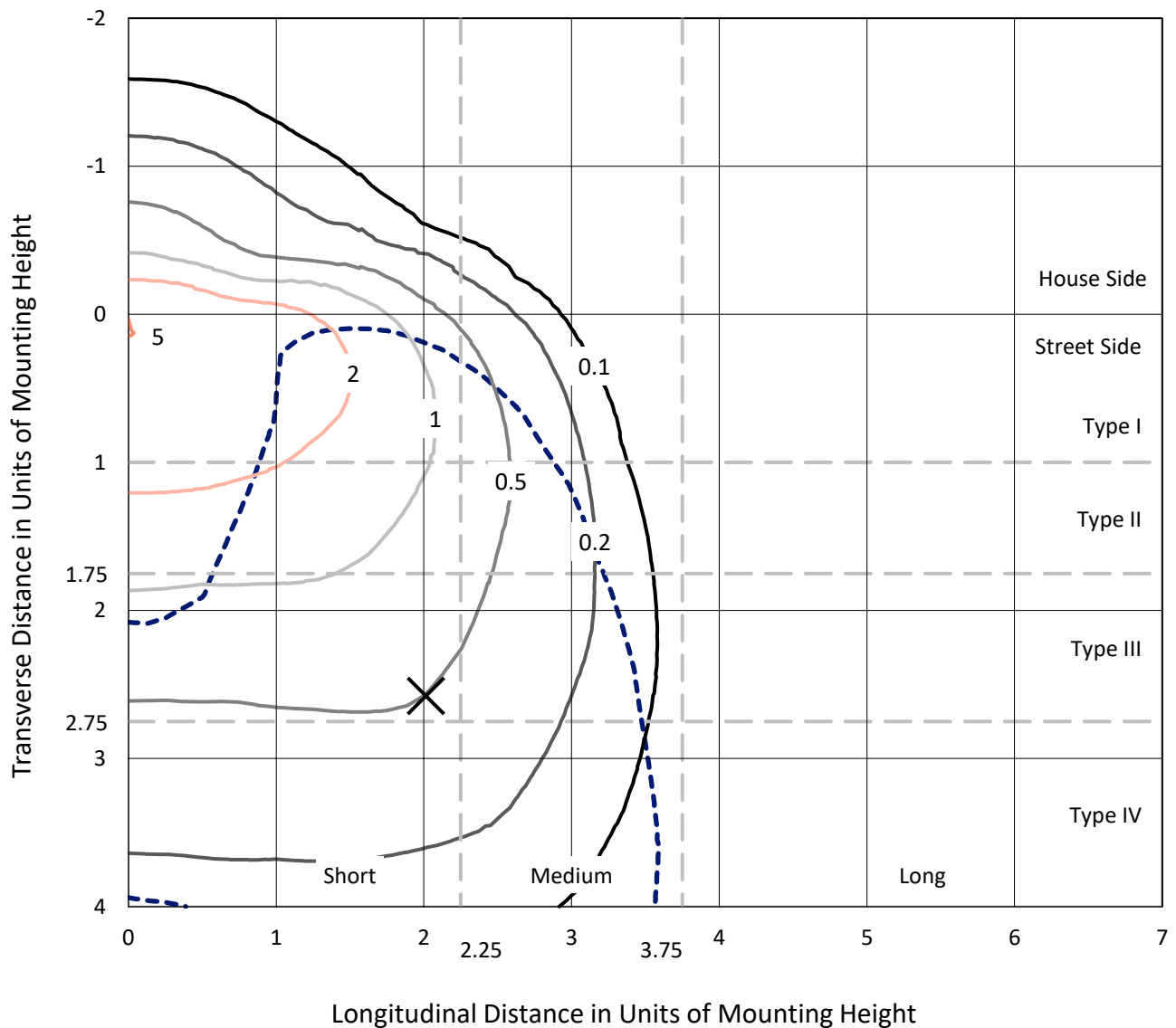
Input Watts (W): 184  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

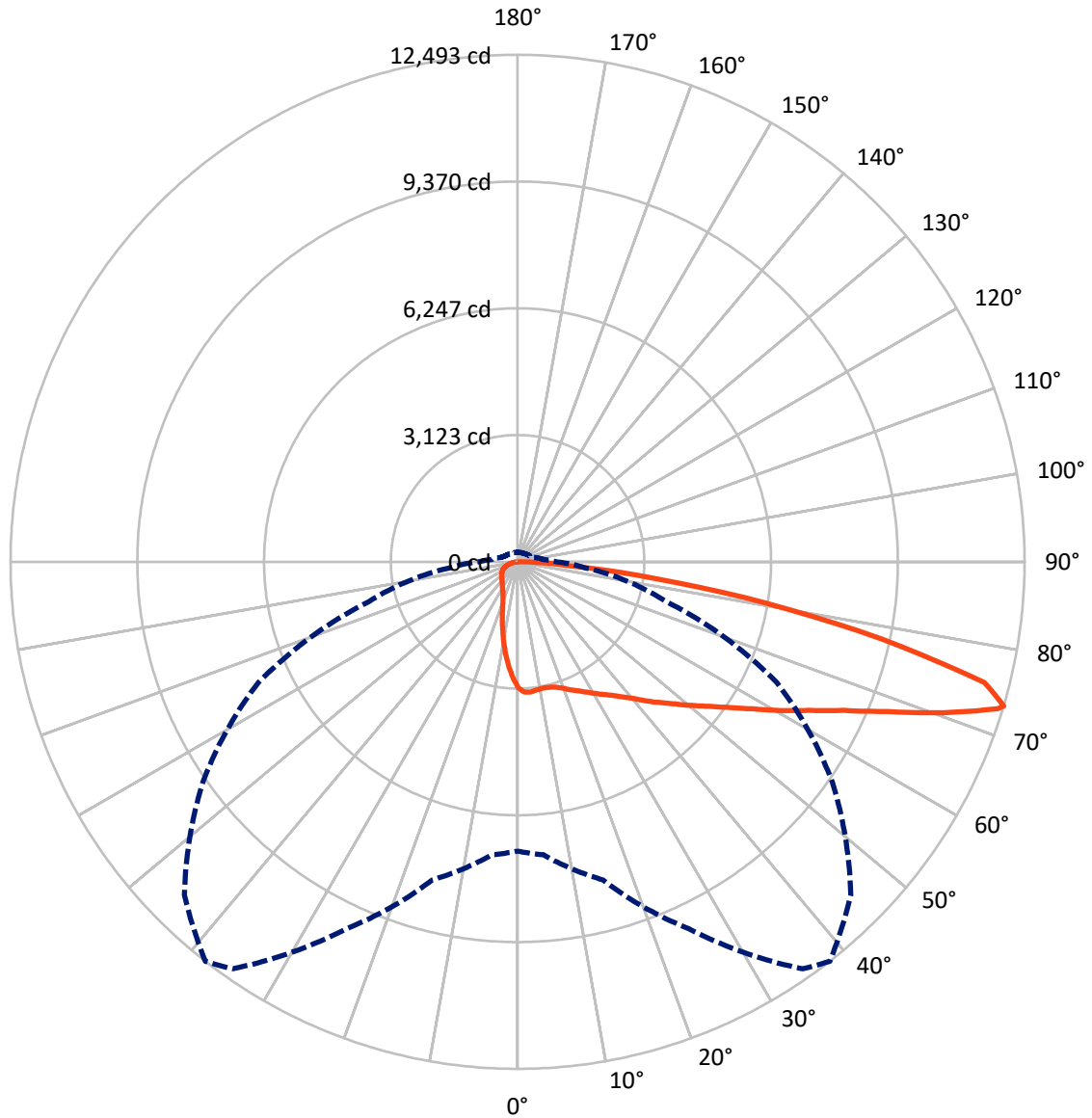
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral      - - - Horizontal Cone Through 73-Deg Vertical

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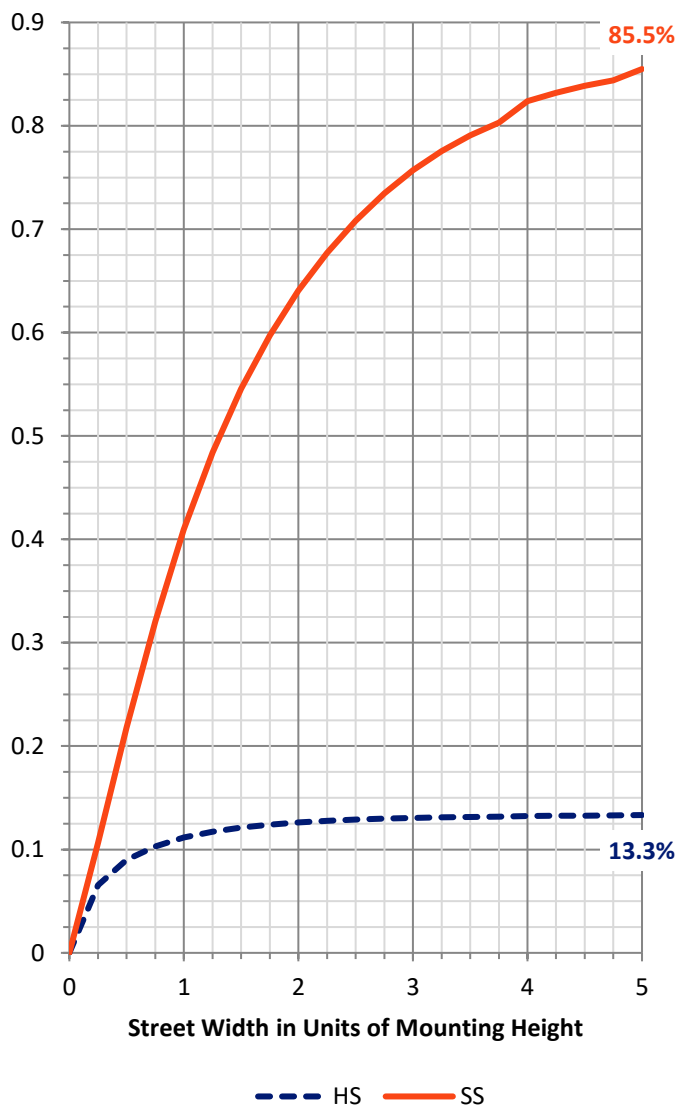
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2379.4	0.0	2379.4
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	15320.3	0.0	15320.3
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	17699.7	0.0	17699.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	271.4	1.5
10°-20°	696.0	3.9
20°-30°	1083.9	6.1
30°-40°	1589.8	9.0
40°-50°	2358.2	13.3
50°-60°	3341.2	18.9
60°-70°	4238.3	23.9
70°-80°	3528.1	19.9
80°-90°	592.8	3.3
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°	17699.7	100.0
0°-180°	17699.7	100.0

**Coefficient of Utilization**



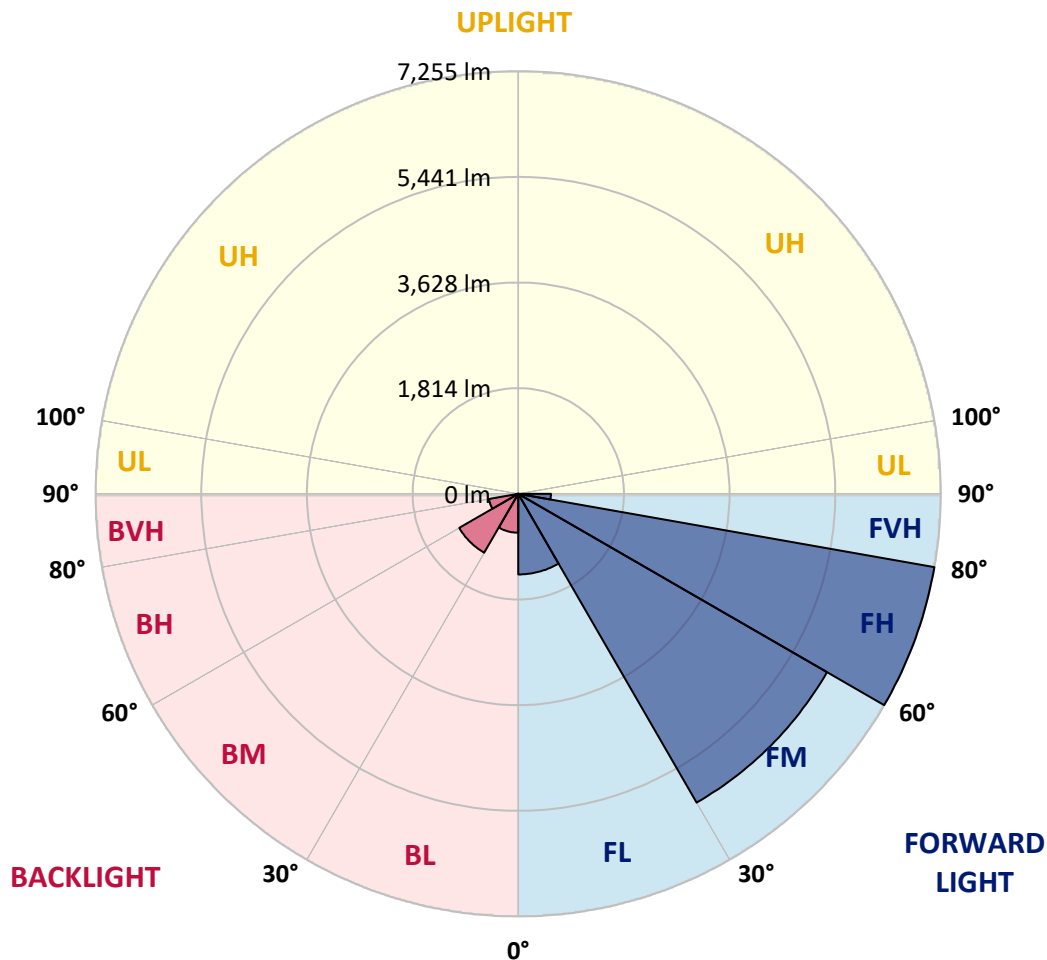
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1383.6	7.8			
FM (30°-60°)	6121.0	34.6			
FH (60°-80°)	7255.0	41.0			G3/7500
FVH (80°-90°)	560.6	3.2			G4/750
BL (0°-30°)	667.7	3.8	B2/1000		
BM (30°-60°)	1168.1	6.6	B2/2500		
BH (60°-80°)	511.4	2.9	B2/1000		G2/1000
BVH (80°-90°)	32.1	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	3109.5	3109.5	3109.5	3109.5	3109.5	3109.5	3109.5	3109.5	3109.5	3109.5	3109.5
2.5°	3234.5	3250.5	3242.5	3231.5	3224.5	3217.5	3207.5	3178.5	3155.5	3130.5	3091.5
5°	3258.5	3268.5	3261.4	3247.5	3231.5	3224.5	3205.5	3167.5	3130.5	3088.5	3030.6
7.5°	3244.4	3248.5	3240.4	3223.5	3209.5	3196.5	3174.5	3132.5	3087.5	3036.6	2960.6
10°	3194.5	3209.5	3209.5	3195.5	3181.5	3174.5	3152.5	3112.5	3071.6	3013.6	2923.6
12.5°	3153.5	3169.5	3182.5	3178.5	3177.5	3177.5	3160.5	3130.5	3082.5	3027.5	2920.6
15°	3125.5	3144.5	3172.5	3188.5	3198.5	3201.5	3194.5	3168.5	3119.6	3055.6	2932.6
17.5°	3119.6	3142.5	3193.5	3228.5	3254.5	3253.4	3251.5	3215.5	3161.5	3095.5	2947.6
20°	3146.5	3176.5	3247.5	3302.5	3340.4	3333.5	3322.4	3275.4	3212.5	3138.5	2961.6
22.5°	3227.4	3258.5	3336.4	3396.4	3433.4	3433.4	3400.4	3338.4	3271.5	3188.5	2980.6
25°	3343.4	3377.4	3460.4	3521.3	3538.4	3525.4	3492.3	3417.4	3340.4	3260.5	3020.6
27.5°	3485.4	3526.3	3603.3	3654.3	3649.2	3639.3	3605.3	3509.3	3432.4	3359.5	3088.5
30°	3662.2	3692.2	3772.3	3784.2	3766.2	3764.2	3716.3	3620.3	3548.3	3492.3	3185.5
32.5°	3829.2	3856.2	3920.2	3925.2	3893.2	3897.1	3852.2	3764.2	3723.2	3703.3	3348.4
35°	4006.1	4020.1	4075.1	4069.1	4048.1	4045.1	4027.1	3943.1	3956.1	3992.1	3579.3
37.5°	4154.0	4182.0	4213.0	4218.0	4217.0	4227.0	4239.0	4199.0	4274.0	4386.9	3882.2
40°	4290.0	4313.9	4360.0	4376.0	4414.9	4434.9	4475.9	4476.9	4649.8	4835.7	4255.0
42.5°	4382.0	4422.9	4508.9	4537.9	4632.9	4692.8	4753.7	4818.7	5069.6	5308.5	4694.8
45°	4461.9	4515.9	4658.8	4748.7	4877.7	4950.7	5079.6	5215.6	5576.4	5889.3	5141.6
47.5°	4582.8	4630.8	4794.8	4953.6	5148.6	5232.6	5425.5	5628.4	6100.1	6443.0	5569.4
50°	4750.8	4779.7	4946.7	5205.5	5454.5	5562.4	5817.3	6110.1	6659.9	6989.7	5945.2
52.5°	4965.6	4977.7	5110.6	5455.5	5783.3	5917.2	6255.1	6596.9	7149.7	7464.5	6243.1
55°	5219.6	5199.6	5303.5	5720.3	6159.1	6334.0	6696.8	7089.7	7700.4	7848.3	6460.0
57.5°	5470.4	5439.4	5522.4	6042.2	6622.9	6833.8	7256.6	7597.4	8192.1	8207.2	6611.9
60°	5736.3	5713.3	5812.3	6420.0	7191.6	7441.5	7832.3	8124.2	8668.0	8457.0	6635.8
62.5°	6009.2	5972.2	6113.1	6844.8	7832.3	8059.2	8438.0	8683.9	9134.7	8550.0	6405.0
65°	6274.0	6257.0	6474.9	7349.6	8561.9	8819.9	9187.7	9354.6	9508.5	8410.0	5832.3
67.5°	6555.9	6589.9	6937.8	8023.2	9513.5	9837.4	10234.2	10077.3	9615.5	7747.4	4911.7
70°	6985.7	7007.7	7545.5	8905.8	10739.9	11130.7	11322.6	10334.1	9099.7	6489.0	3692.2
72.5°	7170.6	7267.6	8088.2	9832.4	12133.3	12372.2	11688.5	9761.4	7580.5	4407.9	1940.1
73°	7129.7	7245.6	8113.2	9973.3	12242.3	12493.2	11610.6	9466.5	7046.7	3796.2	1663.2
75°	6618.9	6761.8	7788.3	9855.4	12030.3	11880.5	10357.1	8068.2	4761.7	1726.2	757.6
77.5°	5222.5	5263.6	6171.1	7958.3	9473.5	9195.7	7751.4	5042.6	1945.1	641.7	429.8
80°	2619.8	2770.7	3478.4	4558.9	6335.0	6244.0	4892.7	2384.9	810.6	376.9	284.9
82.5°	1260.4	1367.4	1694.2	2222.9	3500.3	3417.4	2422.8	1303.4	514.7	219.9	168.0
85°	811.7	891.6	1078.5	1060.5	1439.3	1374.3	1088.5	986.5	304.8	114.9	117.0
87.5°	535.7	586.7	703.7	562.7	523.7	473.8	480.8	555.8	60.0	44.0	16.0
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°	3109.5	3109.5	3109.5	3109.5	3109.5	3109.5	3109.5	3109.5	3109.5	3109.5	3109.5
2.5°	3075.5	3062.5	3019.6	2977.6	2937.7	2899.6	2874.6	2841.7	2819.7	2825.7	2834.7
5°	2998.6	2969.6	2893.7	2819.7	2749.7	2666.7	2599.8	2545.8	2504.8	2489.9	2486.8
7.5°	2917.6	2868.7	2759.7	2632.8	2513.8	2410.9	2291.9	2233.0	2164.0	2140.0	2132.0
10°	2868.7	2802.7	2649.8	2472.9	2294.0	2123.0	1994.1	1889.1	1794.2	1776.2	1767.2
12.5°	2854.7	2767.7	2561.8	2333.9	2096.0	1886.1	1695.2	1557.2	1465.3	1444.3	1413.3
15°	2846.7	2738.7	2479.8	2194.0	1892.1	1636.2	1435.3	1274.4	1190.5	1134.5	1135.4
17.5°	2839.6	2705.7	2387.9	2041.0	1716.2	1421.3	1199.4	1054.5	977.6	947.6	944.5
20°	2829.7	2666.7	2281.9	1880.1	1515.3	1225.4	1024.6	916.6	864.6	839.6	838.6
22.5°	2825.7	2628.8	2178.0	1716.2	1337.4	1074.5	908.6	832.6	799.6	782.6	782.6
25°	2835.6	2601.8	2069.0	1560.3	1179.4	945.6	828.6	776.7	757.6	748.6	745.7
27.5°	2866.6	2589.8	1961.1	1404.3	1034.5	857.6	774.6	738.7	724.7	717.7	718.6
30°	2925.6	2588.8	1855.2	1250.5	926.6	790.6	731.6	706.7	695.7	691.7	690.7
32.5°	3020.6	2610.8	1751.2	1123.4	835.6	734.7	691.7	673.7	668.7	665.7	664.7
35°	3181.5	2672.8	1648.2	1007.6	765.6	684.7	653.7	644.7	637.7	640.7	641.7
37.5°	3398.4	2779.7	1550.3	916.6	712.7	647.7	621.7	613.7	609.7	612.7	615.7
40°	3689.3	2933.6	1468.3	843.6	674.7	616.7	593.7	586.7	582.7	587.7	588.7
42.5°	4010.1	3111.6	1400.3	786.6	643.7	590.7	568.8	560.7	557.7	560.7	561.7
45°	4339.9	3318.4	1365.4	745.7	617.7	571.7	548.7	539.7	532.8	530.7	533.8
47.5°	4664.8	3498.4	1364.4	720.7	596.7	554.8	529.8	519.8	510.8	505.7	504.8
50°	4929.7	3641.3	1388.3	709.6	578.7	535.7	510.8	500.7	488.7	478.8	480.8
52.5°	5129.6	3734.3	1399.4	704.7	568.8	515.8	490.8	481.8	467.8	454.8	454.8
55°	5258.5	3756.2	1372.4	699.7	560.7	494.8	467.8	459.8	445.8	432.8	432.8
57.5°	5302.5	3688.2	1275.4	687.7	552.7	476.8	444.8	437.8	426.8	413.8	411.8
60°	5200.5	3458.4	1105.5	651.7	536.7	457.8	419.8	416.8	412.8	401.8	400.8
62.5°	4807.8	2970.6	920.6	604.7	509.7	437.8	396.8	401.8	404.8	398.8	397.8
65°	4154.0	2411.9	786.6	539.7	473.8	409.8	371.8	384.8	392.8	392.8	390.8
67.5°	3369.4	1852.1	662.7	483.7	428.8	371.8	343.8	353.8	359.9	357.8	362.8
70°	2394.9	1254.4	539.7	419.8	371.8	328.9	307.9	307.9	303.9	301.8	301.8
72.5°	1161.4	716.7	437.8	350.9	316.9	280.9	263.9	256.9	248.9	247.9	242.9
73°	970.5	642.7	417.8	337.9	303.9	273.9	254.9	243.9	238.9	234.9	233.9
75°	590.7	487.8	348.8	284.9	258.9	235.9	218.9	208.9	203.9	200.9	199.9
77.5°	388.8	363.9	270.8	217.9	197.9	183.9	176.9	166.9	164.0	159.9	159.9
80°	289.9	277.9	193.9	153.9	142.0	130.0	127.9	125.9	117.9	112.9	111.0
82.5°	186.9	197.9	131.9	103.0	90.0	79.9	81.0	83.9	76.0	69.0	66.9
85°	133.0	142.9	79.9	47.0	38.0	33.0	37.0	33.0	34.0	27.0	22.0
87.5°	22.0	38.0	14.0	6.0	3.0	2.0	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)