

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: P459323

Luminaire Tested: **GALN-SA7D-735-U-T4W-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459323  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA7D-735-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3500K, 1200mA 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: 36310 lumens  
Efficiency: N/A  
Efficacy: 83.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G5

Input Watts (W): 433  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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

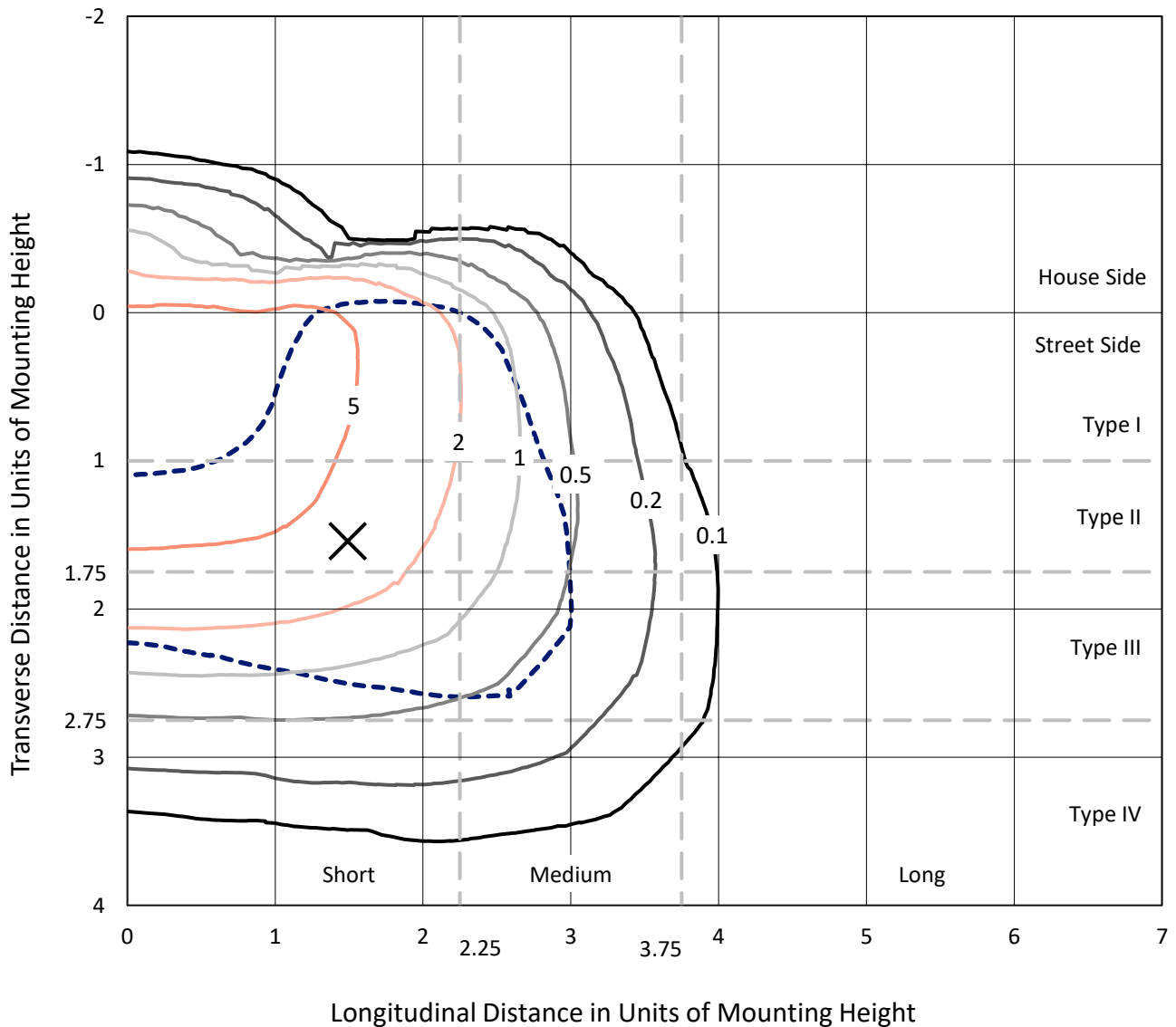




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### Iso-Footcandle Lines of Horizontal Illumination

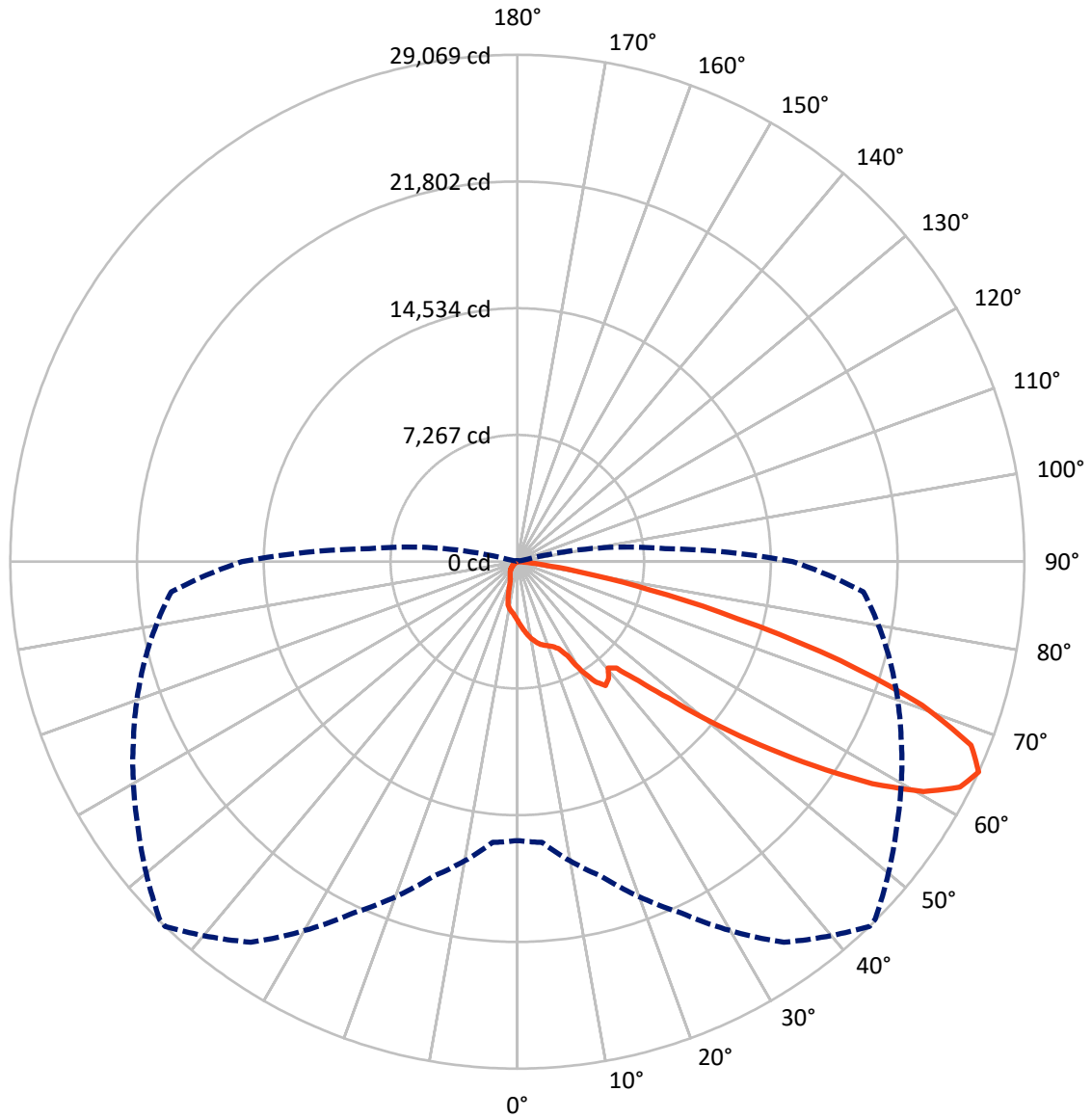
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical



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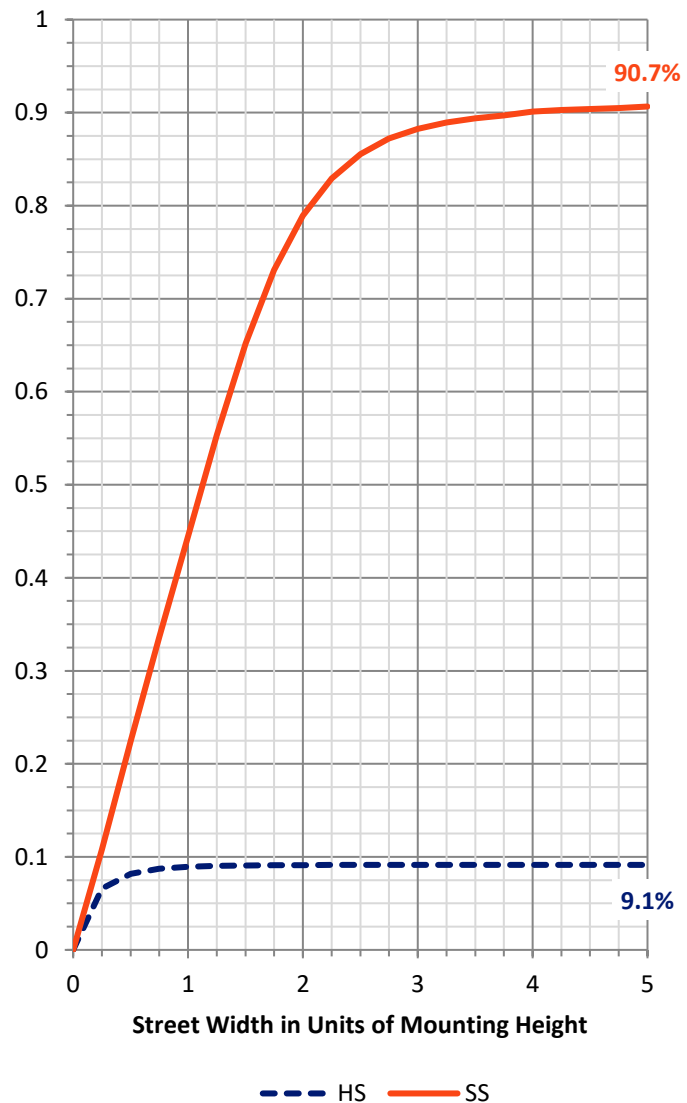
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3345.4	0.0	3345.4
	% Fixture	9.2	0.0	9.2
<b>Street Side</b>	Lumens	32964.6	0.0	32964.6
	% Fixture	90.8	0.0	90.8
<b>Total</b>	Lumens	36310.0	0.0	36310.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	336.1	0.9
10°-20°	1011.6	2.8
20°-30°	1715.3	4.7
30°-40°	2852.0	7.9
40°-50°	4979.6	13.7
50°-60°	9728.4	26.8
60°-70°	11287.2	31.1
70°-80°	4110.2	11.3
80°-90°	289.6	0.8
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°	36310.0	100.0
0°-180°	36310.0	100.0



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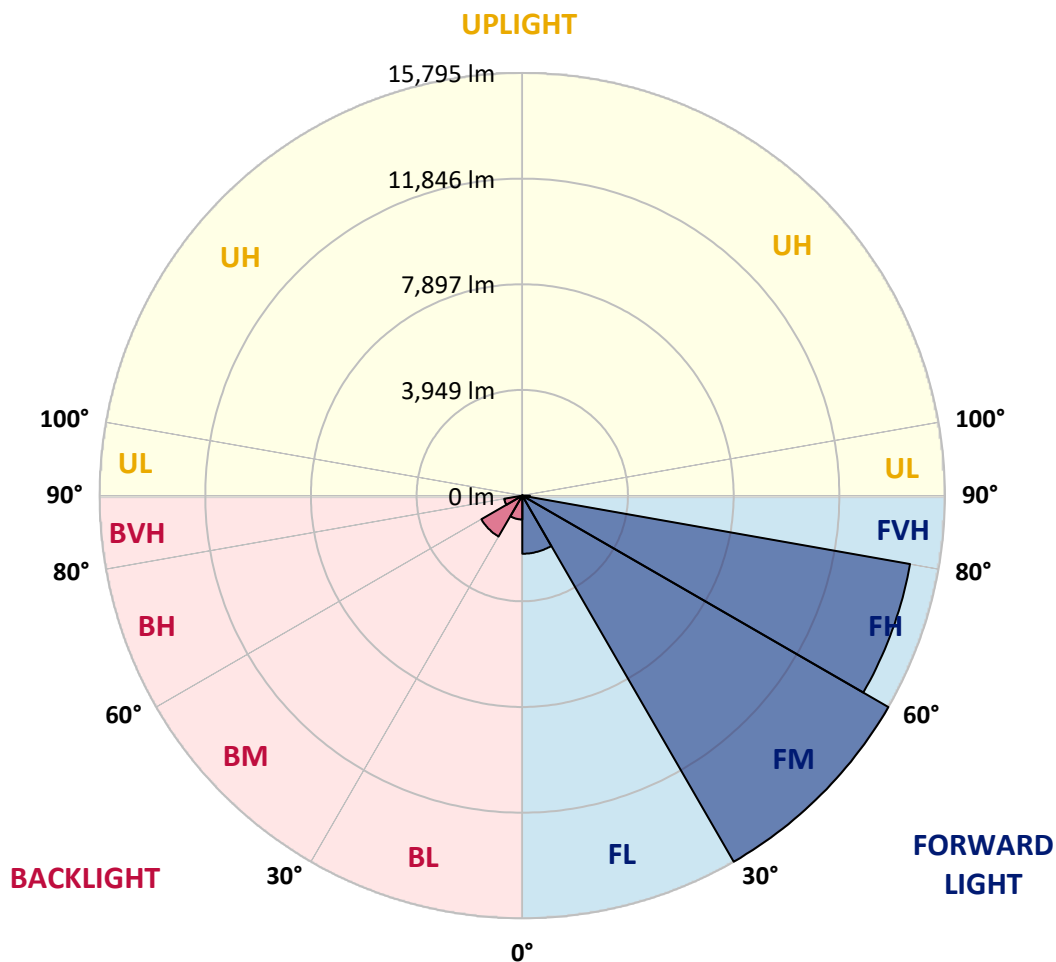
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2171.7	6.0			
FM	(30°-60°)	15794.9	43.5			
FH	(60°-80°)	14712.3	40.5			G5
FVH	(80°-90°)	285.7	0.8			G3/500
BL	(0°-30°)	891.3	2.5	B2/1000		
BM	(30°-60°)	1765.1	4.9	B2/2500		
BH	(60°-80°)	685.1	1.9	B2/1000		G2/1000
BVH	(80°-90°)	3.9	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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	3379.4	3379.4	3379.4	3379.4	3379.4	3379.4	3379.4	3379.4	3379.4	3379.4	3379.4
2.5°	3803.9	3787.2	3778.9	3734.5	3701.2	3659.6	3659.6	3606.9	3545.8	3479.3	3418.2
5°	4228.4	4200.6	4164.6	4125.7	4048.0	3937.1	3937.1	3826.1	3698.4	3584.7	3459.8
7.5°	4636.2	4611.3	4550.2	4475.3	4347.7	4231.2	4222.8	4061.9	3909.3	3737.3	3559.7
10°	4994.2	4974.7	4922.0	4777.7	4644.6	4492.0	4489.2	4308.8	4131.3	3920.4	3701.2
12.5°	5243.9	5246.6	5177.3	5038.5	4866.5	4722.3	4711.2	4533.6	4347.7	4120.2	3851.0
15°	5421.4	5421.4	5349.3	5193.9	5038.5	4910.9	4899.8	4744.4	4553.0	4306.1	4014.7
17.5°	5471.4	5488.0	5410.3	5271.6	5146.8	5035.8	5033.0	4902.6	4750.0	4511.4	4181.2
20°	5452.0	5468.6	5407.6	5299.4	5213.3	5149.5	5141.2	5088.5	4947.0	4722.3	4358.8
22.5°	5410.3	5427.0	5382.6	5318.8	5277.2	5296.6	5282.7	5327.1	5252.2	4980.3	4569.7
25°	5418.7	5435.3	5402.0	5365.9	5402.0	5521.3	5557.4	5748.8	5682.2	5307.7	4797.2
27.5°	5679.5	5712.8	5665.6	5682.2	5809.9	6087.3	6156.7	6486.9	6192.8	5723.9	5152.3
30°	6259.3	6237.1	6148.4	6228.8	6672.7	7260.9	7241.5	7188.8	6728.2	6203.9	5574.0
32.5°	6786.5	6767.1	6761.5	7108.3	7913.0	8198.7	8184.9	7674.4	7208.2	6753.2	5990.2
35°	7000.1	6925.2	6908.6	7749.3	9094.9	8717.6	8631.6	7874.1	7790.9	7352.5	6414.7
37.5°	7643.8	7591.1	7333.1	7854.7	8623.2	8498.4	8431.8	8218.2	8412.4	7882.4	6894.7
40°	8970.1	8823.0	8589.9	8079.4	7954.6	8007.3	8073.9	8659.3	9147.6	8606.6	7535.6
42.5°	10618.1	10584.8	10152.0	9200.3	8265.3	8337.5	8423.5	9580.5	10204.7	9697.0	8581.6
45°	12596.4	12643.5	12019.3	10895.6	9669.2	9730.3	9855.1	10940.0	11636.4	11392.2	10226.9
47.5°	14394.3	14358.2	14147.3	12979.3	11847.2	11711.3	11913.8	12685.2	13617.4	13656.2	12269.0
50°	16203.3	16394.7	16081.2	15623.4	14782.7	14496.9	14422.0	14799.3	16219.9	16034.0	14721.7
52.5°	18803.0	18902.9	18314.7	18198.1	18389.6	17462.9	17388.0	17479.5	18750.3	18112.1	16558.4
55°	20437.2	20378.9	20159.7	21069.8	21827.2	20670.3	20575.9	20206.9	20850.6	19579.9	18325.8
57.5°	20953.3	21036.5	21547.0	23192.3	24984.6	24002.5	23830.4	22781.7	22365.5	20947.7	19951.6
60°	20723.0	20875.6	21977.1	24424.2	26910.2	26763.1	26616.1	24854.2	23453.1	22090.8	21092.0
62.5°	19083.2	19296.9	21058.7	24205.0	27562.2	28480.6	28297.4	26147.2	24177.3	22645.7	21291.7
65°	15992.4	16150.5	18680.9	22215.7	26635.5	29068.8	29002.2	26552.3	24291.0	22138.0	19923.9
67.5°	11400.5	11938.8	14283.3	18722.5	23894.3	28064.4	28178.1	26066.7	23222.8	19943.3	16500.1
70°	7166.6	7532.9	9214.2	13403.8	19155.4	24621.2	24995.7	23844.3	20154.2	15545.7	11045.4
72.5°	3418.2	3690.1	4888.7	8484.5	13520.3	19371.8	19668.6	19574.3	15584.5	9794.1	5698.9
75°	1523.2	1625.9	2333.4	4331.0	8728.7	13020.9	13789.4	13917.0	9738.6	4791.6	2216.8
77.5°	776.9	779.6	1093.2	2097.5	4358.8	7768.7	7921.3	8368.0	5279.9	2111.4	771.3
80°	413.4	441.2	579.9	990.5	2261.2	3826.1	3806.7	4184.0	2341.7	1034.9	258.0
82.5°	185.9	205.3	327.4	518.8	1104.3	1451.1	1564.8	1711.9	1004.4	660.3	113.8
85°	55.5	66.6	160.9	260.8	399.5	419.0	468.9	604.8	568.8	468.9	58.3
87.5°	8.3	8.3	66.6	72.1	58.3	74.9	77.7	86.0	183.1	172.0	30.5
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°	3379.4	3379.4	3379.4	3379.4	3379.4	3379.4	3379.4	3379.4	3379.4	3379.4	3379.4
2.5°	3384.9	3365.5	3296.1	3237.9	3187.9	3157.4	3121.3	3099.2	3088.1	3079.7	3082.5
5°	3398.8	3351.6	3232.3	3138.0	3065.9	2988.2	2935.5	2904.9	2891.1	2868.9	2868.9
7.5°	3476.5	3401.6	3235.1	3090.8	2966.0	2860.5	2760.7	2724.6	2699.6	2694.1	2688.5
10°	3587.5	3493.1	3265.6	3065.9	2888.3	2744.0	2602.5	2477.7	2380.5	2322.3	2314.0
12.5°	3726.2	3590.2	3312.8	3049.2	2821.7	2566.4	2191.9	1939.4	1770.2	1717.4	1725.8
15°	3853.8	3706.8	3360.0	3035.3	2699.6	2128.1	1703.6	1415.0	1329.0	1320.7	1323.5
17.5°	4006.4	3831.6	3415.4	3015.9	2363.9	1625.9	1265.2	1187.5	1204.1	1231.9	1229.1
20°	4164.6	3964.8	3482.0	2899.4	1886.7	1223.6	1118.1	1126.5	1151.4	1176.4	1181.9
22.5°	4333.8	4117.4	3559.7	2619.2	1440.0	1065.4	1059.9	1071.0	1095.9	1123.7	1129.2
25°	4566.9	4308.8	3618.0	2252.9	1090.4	985.0	996.1	1015.5	1037.7	1068.2	1073.7
27.5°	4866.5	4566.9	3648.5	1775.7	943.3	912.8	915.6	943.3	971.1	998.8	998.8
30°	5255.0	4874.9	3587.5	1342.9	871.2	843.5	832.4	849.0	885.1	912.8	915.6
32.5°	5601.8	5166.2	3426.5	1026.6	818.5	779.6	751.9	754.7	768.5	785.2	788.0
35°	5948.6	5449.2	3151.9	862.9	763.0	718.6	677.0	654.8	643.7	635.4	643.7
37.5°	6392.5	5801.5	2785.6	785.2	715.8	660.3	602.1	554.9	516.1	491.1	496.6
40°	6964.1	6289.9	2352.8	735.3	671.4	604.8	527.2	466.1	399.5	377.3	366.2
42.5°	7907.4	7030.7	1897.8	693.6	627.0	546.6	449.5	366.2	305.2	283.0	288.6
45°	9397.3	7965.7	1462.2	649.2	582.7	482.8	377.3	288.6	238.6	227.5	233.1
47.5°	11372.8	9175.4	1126.5	599.3	527.2	413.4	296.9	227.5	197.0	194.2	191.4
50°	13231.7	10301.8	940.6	543.8	460.6	344.0	244.2	191.4	172.0	169.2	169.2
52.5°	14913.1	11109.2	765.8	480.0	388.4	283.0	205.3	169.2	152.6	144.3	144.3
55°	16408.6	11636.4	621.5	402.3	305.2	224.7	177.6	152.6	133.2	122.1	119.3
57.5°	17537.8	11700.2	466.1	321.8	227.5	174.8	152.6	133.2	111.0	97.1	91.6
60°	18020.6	11148.1	344.0	244.2	169.2	138.7	122.1	108.2	83.2	69.4	66.6
62.5°	17535.0	10074.3	255.3	185.9	130.4	102.7	86.0	80.5	58.3	41.6	38.8
65°	15795.4	8523.4	202.5	141.5	97.1	74.9	55.5	52.7	36.1	19.4	16.6
67.5°	12654.6	6675.5	160.9	105.4	69.4	49.9	36.1	33.3	19.4	5.5	5.5
70°	8229.3	4267.2	130.4	77.7	44.4	33.3	22.2	16.6	11.1	2.8	0.0
72.5°	4070.2	1994.9	105.4	61.0	30.5	16.6	8.3	5.5	8.3	0.0	0.0
75°	1578.7	710.3	77.7	41.6	16.6	8.3	5.5	0.0	2.8	0.0	0.0
77.5°	524.4	235.8	47.2	22.2	11.1	5.5	0.0	0.0	0.0	0.0	0.0
80°	194.2	91.6	25.0	13.9	5.5	2.8	0.0	0.0	0.0	0.0	0.0
82.5°	77.7	36.1	16.6	11.1	5.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	38.8	22.2	11.1	8.3	5.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	27.7	16.6	11.1	8.3	5.5	2.8	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)