

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: P456771

Luminaire Tested: **GALN-SA8A-740-U-T4W-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456771  
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-SA8A-740-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 4000K, 615mA 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: 26714 lumens  
Efficiency: N/A  
Efficacy: 109.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

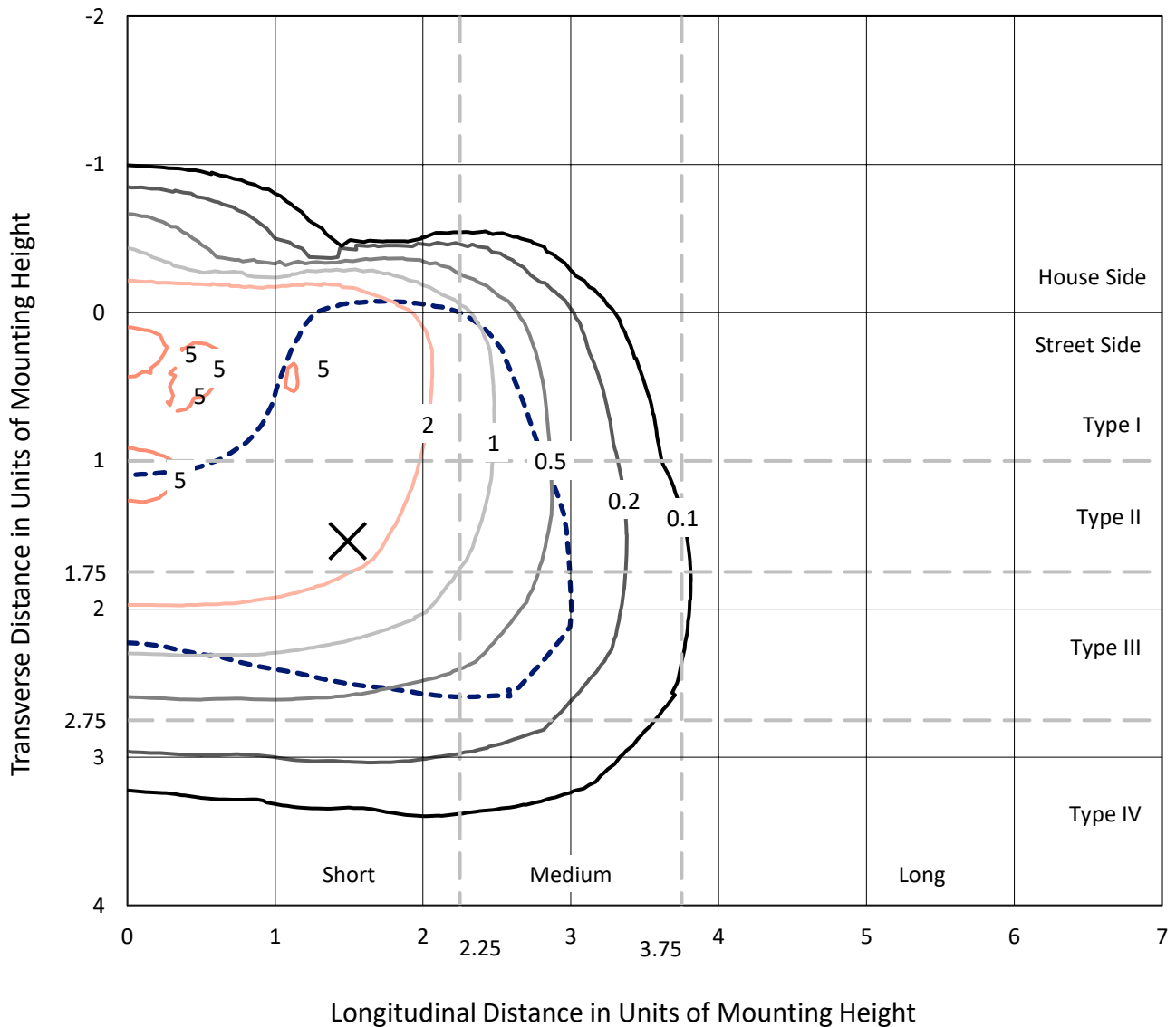
Input Watts (W): 244  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

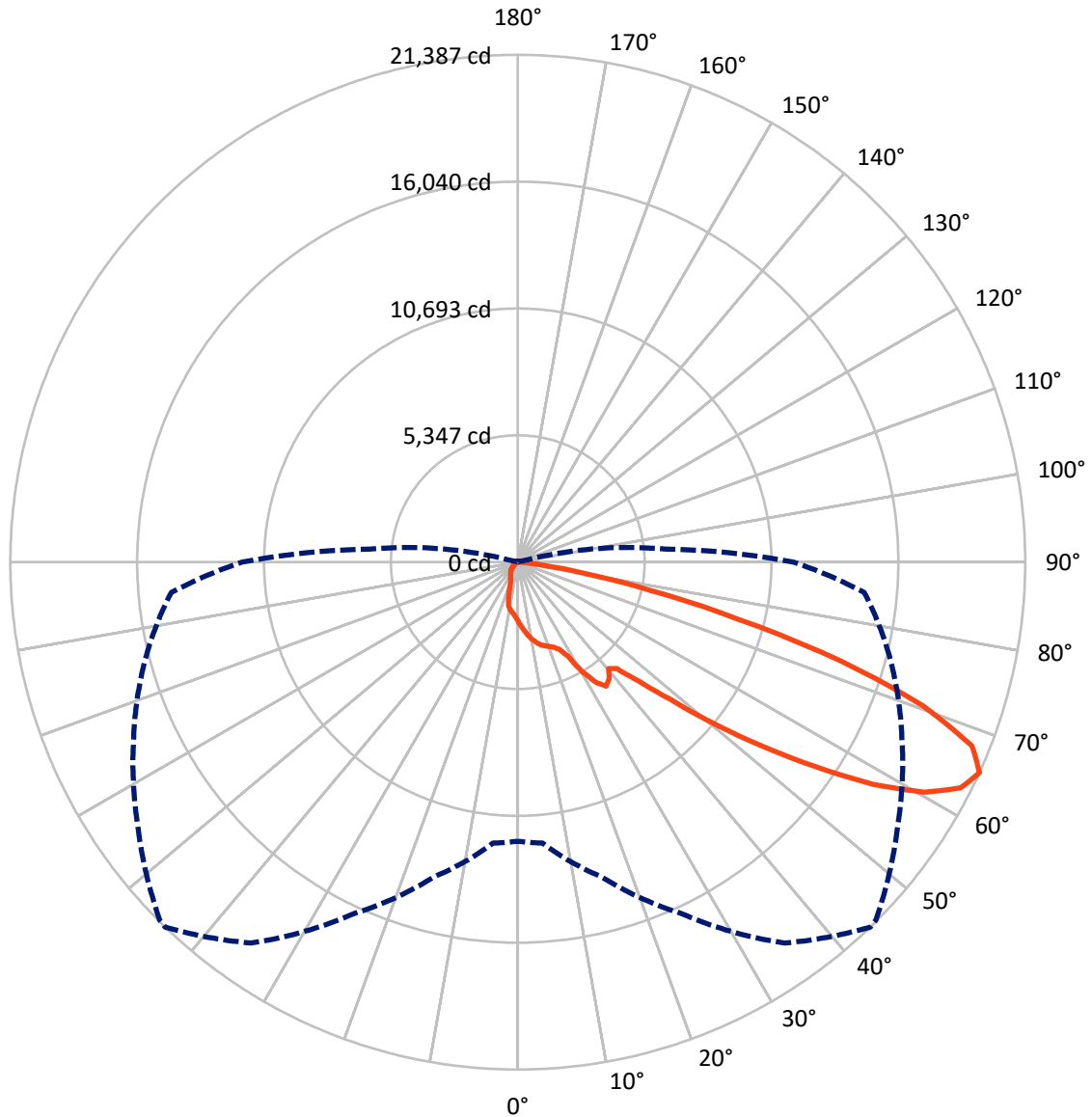
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 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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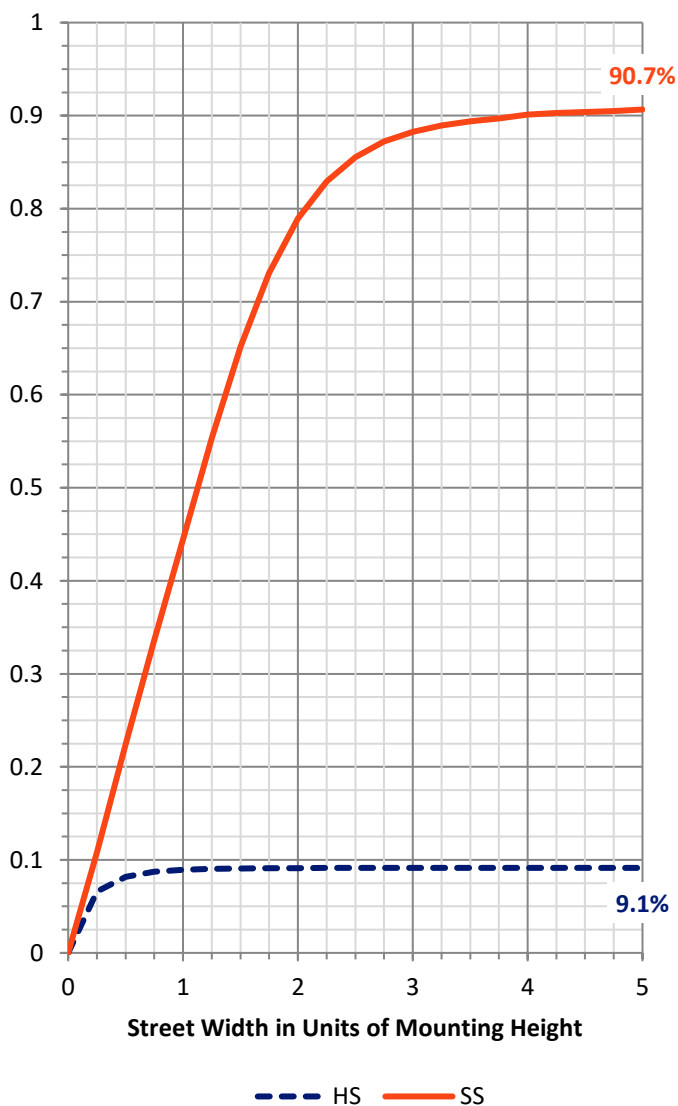
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2461.3	0.0	2461.3
	% Fixture	9.2	0.0	9.2
<b>Street Side</b>	Lumens	24252.7	0.0	24252.7
	% Fixture	90.8	0.0	90.8
<b>Total</b>	Lumens	26714.0	0.0	26714.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	247.3	0.9
10°-20°	744.3	2.8
20°-30°	1262.0	4.7
30°-40°	2098.3	7.9
40°-50°	3663.6	13.7
50°-60°	7157.4	26.8
60°-70°	8304.2	31.1
70°-80°	3024.0	11.3
80°-90°	213.1	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°	26714.0	100.0
0°-180°	26714.0	100.0



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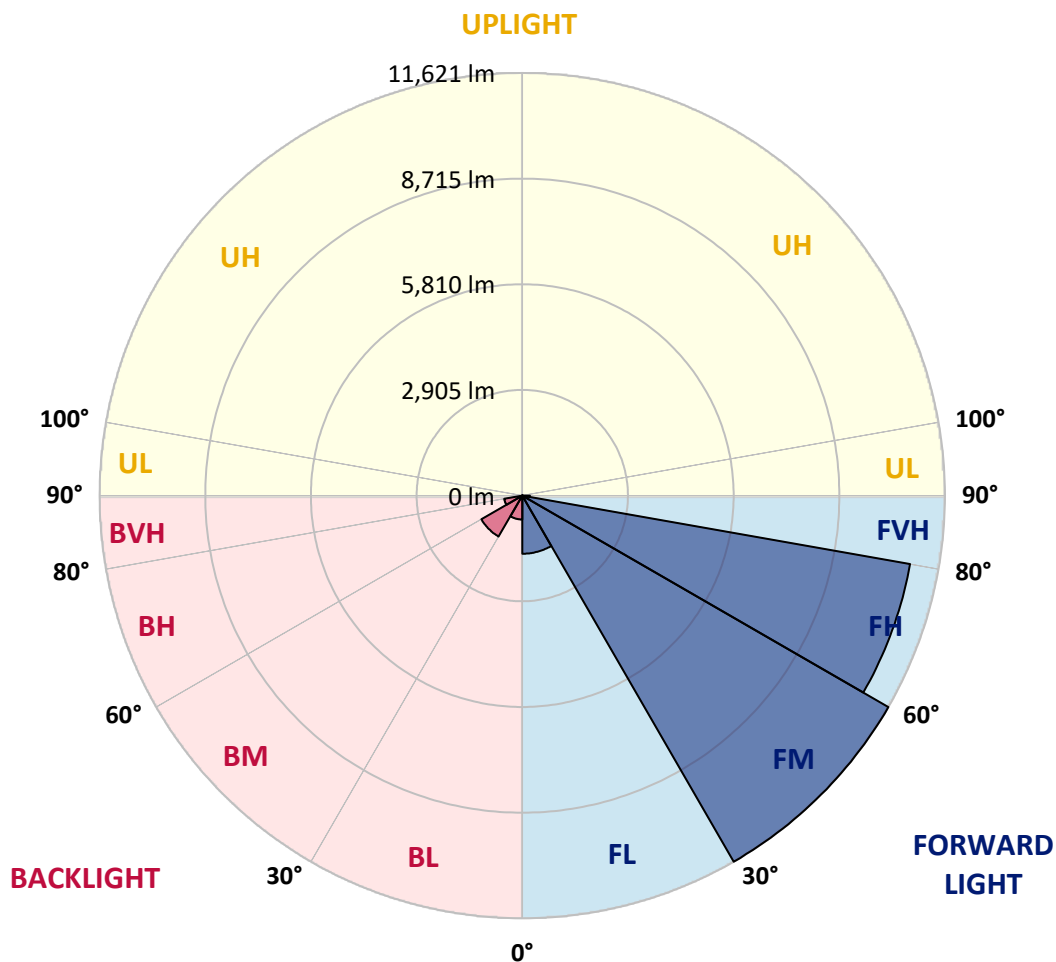
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1597.7	6.0			
FM	(30°-60°)	11620.6	43.5			
FH	(60°-80°)	10824.2	40.5			G4/12000
FVH	(80°-90°)	210.2	0.8			G2/225
BL	(0°-30°)	655.8	2.5	B2/1000		
BM	(30°-60°)	1298.6	4.9	B2/2500		
BH	(60°-80°)	504.0	1.9	B2/1000		G2/1000
BVH	(80°-90°)	2.9	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-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2486.3	2486.3	2486.3	2486.3	2486.3	2486.3	2486.3	2486.3	2486.3	2486.3	2486.3
2.5°	2798.6	2786.3	2780.2	2747.6	2723.1	2692.4	2692.4	2653.7	2608.8	2559.8	2514.9
5°	3110.9	3090.5	3064.0	3035.4	2978.2	2896.6	2896.6	2814.9	2721.0	2637.3	2545.5
7.5°	3411.0	3392.6	3347.7	3292.6	3198.7	3112.9	3106.8	2988.4	2876.2	2749.6	2619.0
10°	3674.3	3660.0	3621.2	3515.1	3417.1	3304.8	3302.8	3170.1	3039.5	2884.3	2723.1
12.5°	3858.0	3860.1	3809.0	3707.0	3580.4	3474.3	3466.1	3335.4	3198.7	3031.3	2833.3
15°	3988.7	3988.7	3935.6	3821.3	3707.0	3613.1	3604.9	3490.6	3349.7	3168.1	2953.7
17.5°	4025.4	4037.6	3980.5	3878.4	3786.6	3704.9	3702.9	3606.9	3494.7	3319.1	3076.2
20°	4011.1	4023.4	3978.5	3898.8	3835.6	3788.6	3782.5	3743.7	3639.6	3474.3	3206.8
22.5°	3980.5	3992.7	3960.1	3913.1	3882.5	3896.8	3886.6	3919.3	3864.1	3664.1	3362.0
25°	3986.6	3998.9	3974.4	3947.8	3974.4	4062.1	4088.7	4229.5	4180.5	3905.0	3529.4
27.5°	4178.5	4203.0	4168.3	4180.5	4274.4	4478.6	4529.6	4772.5	4556.1	4211.2	3790.7
30°	4605.1	4588.8	4523.5	4582.7	4909.3	5342.0	5327.7	5289.0	4950.1	4564.3	4100.9
32.5°	4993.0	4978.7	4974.6	5229.8	5821.7	6032.0	6021.8	5646.2	5303.2	4968.5	4407.1
35°	5150.1	5095.0	5082.8	5701.3	6691.3	6413.7	6350.4	5793.1	5731.9	5409.4	4719.4
37.5°	5623.7	5584.9	5395.1	5778.9	6344.3	6252.4	6203.4	6046.3	6189.2	5799.3	5072.6
40°	6599.5	6491.3	6319.8	5944.2	5852.3	5891.1	5940.1	6370.8	6730.1	6332.0	5544.1
42.5°	7812.0	7787.5	7469.0	6768.9	6081.0	6134.0	6197.3	7048.5	7507.8	7134.3	6313.7
45°	9267.4	9302.1	8842.8	8016.1	7113.9	7158.8	7250.6	8048.8	8561.1	8381.5	7524.2
47.5°	10590.2	10563.6	10408.5	9549.1	8716.3	8616.2	8765.2	9332.7	10018.6	10047.2	9026.5
50°	11921.1	12061.9	11831.2	11494.4	10875.9	10665.7	10610.6	10888.2	11933.3	11796.5	10831.0
52.5°	13833.7	13907.2	13474.5	13388.7	13529.6	12847.8	12792.7	12860.1	13795.0	13325.5	12182.3
55°	15036.1	14993.2	14831.9	15501.5	16058.7	15207.5	15138.1	14866.6	15340.2	14405.3	13482.6
57.5°	15415.7	15477.0	15852.6	17063.0	18381.7	17659.1	17532.5	16760.9	16454.7	15411.6	14678.8
60°	15246.3	15358.6	16169.0	17969.4	19798.4	19690.2	19582.0	18285.8	17254.9	16252.7	15517.8
62.5°	14039.9	14197.1	15493.3	17808.1	20278.1	20953.7	20819.0	19237.0	17787.7	16660.9	15664.8
65°	11765.9	11882.3	13743.9	16344.5	19596.3	21386.5	21337.5	19535.0	17871.4	16287.4	14658.4
67.5°	8387.6	8783.6	10508.5	13774.5	17579.5	20647.5	20731.2	19177.8	17085.5	14672.7	12139.5
70°	5272.6	5542.1	6779.1	9861.4	14093.0	18114.3	18389.9	17542.7	14827.8	11437.3	8126.3
72.5°	2514.9	2714.9	3596.7	6242.2	9947.1	14252.2	14470.6	14401.2	11465.9	7205.7	4192.8
75°	1120.7	1196.2	1716.7	3186.4	6421.9	9579.7	10145.2	10239.1	7164.9	3525.3	1631.0
77.5°	571.6	573.6	804.3	1543.2	3206.8	5715.6	5827.8	6156.5	3884.6	1553.4	567.5
80°	304.2	324.6	426.6	728.7	1663.6	2814.9	2800.6	3078.2	1722.8	761.4	189.8
82.5°	136.8	151.1	240.9	381.7	812.4	1067.6	1151.3	1259.5	738.9	485.8	83.7
85°	40.8	49.0	118.4	191.9	293.9	308.2	345.0	445.0	418.5	345.0	42.9
87.5°	6.1	6.1	49.0	53.1	42.9	55.1	57.2	63.3	134.7	126.6	22.5
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°	2486.3	2486.3	2486.3	2486.3	2486.3	2486.3	2486.3	2486.3	2486.3	2486.3	2486.3
2.5°	2490.4	2476.1	2425.0	2382.2	2345.4	2323.0	2296.4	2280.1	2271.9	2265.8	2267.9
5°	2500.6	2465.9	2378.1	2308.7	2255.6	2198.5	2159.7	2137.2	2127.0	2110.7	2110.7
7.5°	2557.7	2502.6	2380.1	2274.0	2182.1	2104.6	2031.1	2004.5	1986.2	1982.1	1978.0
10°	2639.4	2570.0	2402.6	2255.6	2125.0	2018.8	1914.7	1822.9	1751.4	1708.5	1702.4
12.5°	2741.4	2641.4	2437.3	2243.4	2076.0	1888.2	1612.6	1426.9	1302.3	1263.6	1269.7
15°	2835.3	2727.1	2472.0	2233.2	1986.2	1565.7	1253.3	1041.1	977.8	971.6	973.7
17.5°	2947.6	2819.0	2512.8	2218.9	1739.2	1196.2	930.8	873.7	885.9	906.3	904.3
20°	3064.0	2917.0	2561.8	2133.1	1388.1	900.2	822.6	828.8	847.1	865.5	869.6
22.5°	3188.5	3029.3	2619.0	1927.0	1059.4	783.9	779.8	787.9	806.3	826.7	830.8
25°	3359.9	3170.1	2661.8	1657.5	802.2	724.7	732.8	747.1	763.4	785.9	790.0
27.5°	3580.4	3359.9	2684.3	1306.4	694.0	671.6	673.6	694.0	714.4	734.9	734.9
30°	3866.2	3586.5	2639.4	988.0	641.0	620.5	612.4	624.6	651.2	671.6	673.6
32.5°	4121.3	3800.9	2521.0	755.3	602.2	573.6	553.2	555.2	565.4	577.7	579.7
35°	4376.5	4009.1	2318.9	634.8	561.4	528.7	498.1	481.7	473.6	467.5	473.6
37.5°	4703.1	4268.3	2049.4	577.7	526.6	485.8	443.0	408.3	379.7	361.3	365.4
40°	5123.6	4627.6	1731.0	540.9	494.0	445.0	387.8	342.9	293.9	277.6	269.4
42.5°	5817.6	5172.6	1396.2	510.3	461.3	402.1	330.7	269.4	224.5	208.2	212.3
45°	6913.8	5860.5	1075.8	477.7	428.7	355.2	277.6	212.3	175.5	167.4	171.5
47.5°	8367.2	6750.5	828.8	440.9	387.8	304.2	218.4	167.4	144.9	142.9	140.8
50°	9734.9	7579.3	692.0	400.1	338.9	253.1	179.6	140.8	126.6	124.5	124.5
52.5°	10971.9	8173.3	563.4	353.1	285.8	208.2	151.1	124.5	112.3	106.1	106.1
55°	12072.1	8561.1	457.2	296.0	224.5	165.3	130.6	112.3	98.0	89.8	87.8
57.5°	12902.9	8608.1	342.9	236.8	167.4	128.6	112.3	98.0	81.7	71.4	67.4
60°	13258.1	8201.9	253.1	179.6	124.5	102.1	89.8	79.6	61.2	51.0	49.0
62.5°	12900.9	7411.9	187.8	136.8	95.9	75.5	63.3	59.2	42.9	30.6	28.6
65°	11621.0	6270.8	149.0	104.1	71.4	55.1	40.8	38.8	26.5	14.3	12.2
67.5°	9310.3	4911.3	118.4	77.6	51.0	36.7	26.5	24.5	14.3	4.1	4.1
70°	6054.4	3139.5	95.9	57.2	32.7	24.5	16.3	12.2	8.2	2.0	0.0
72.5°	2994.6	1467.7	77.6	44.9	22.5	12.2	6.1	4.1	6.1	0.0	0.0
75°	1161.5	522.6	57.2	30.6	12.2	6.1	4.1	0.0	2.0	0.0	0.0
77.5°	385.8	173.5	34.7	16.3	8.2	4.1	0.0	0.0	0.0	0.0	0.0
80°	142.9	67.4	18.4	10.2	4.1	2.0	0.0	0.0	0.0	0.0	0.0
82.5°	57.2	26.5	12.2	8.2	4.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	28.6	16.3	8.2	6.1	4.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	20.4	12.2	8.2	6.1	4.1	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)