

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: P648129

Luminaire Tested: **GALN-SA8A-835-U-T4FT-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648129  
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-SA8A-835-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 3500K, 615mA 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: 20820.8 lumens  
Efficiency: N/A  
Efficacy: 85.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

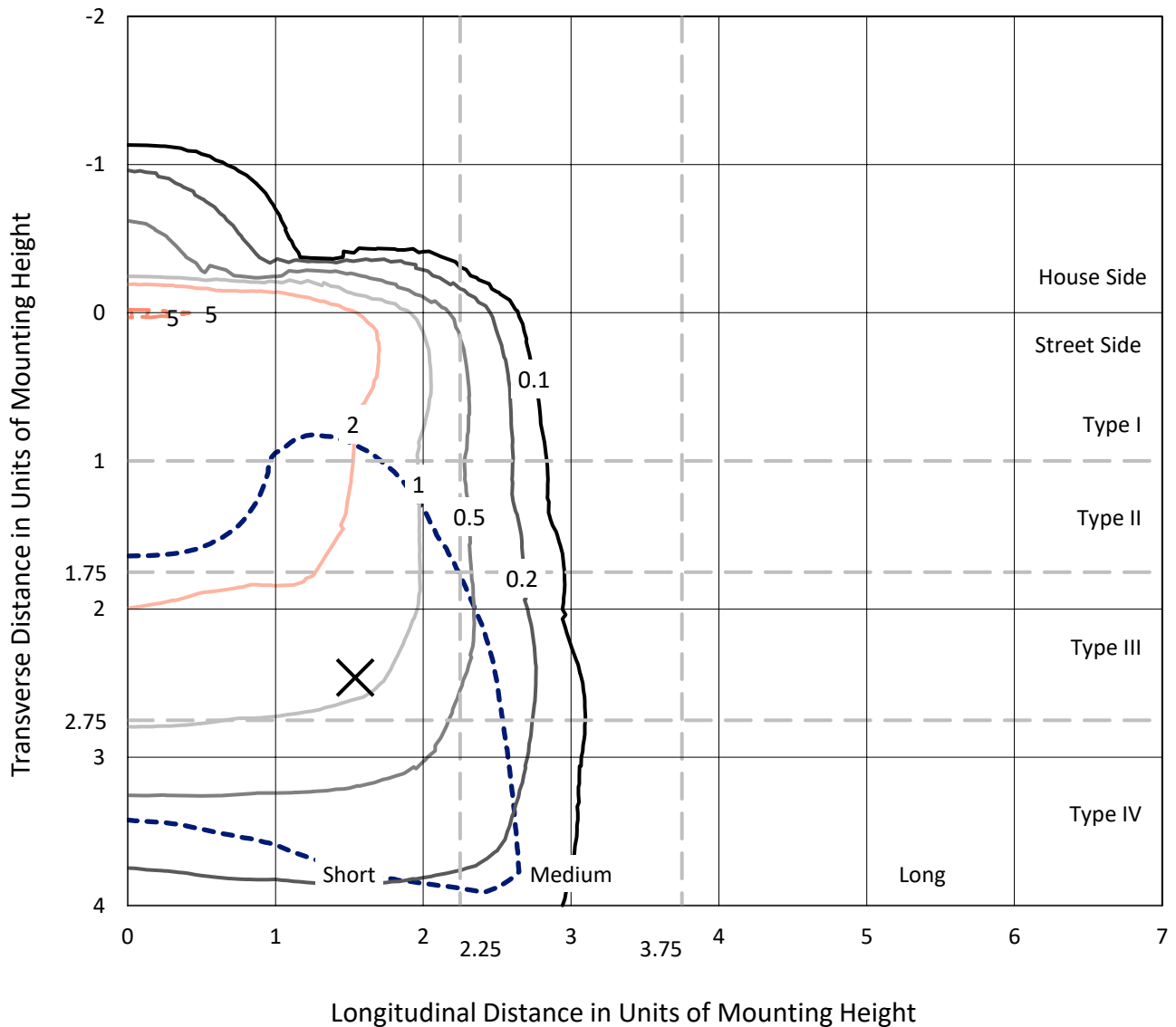
Input Watts (W): 244  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

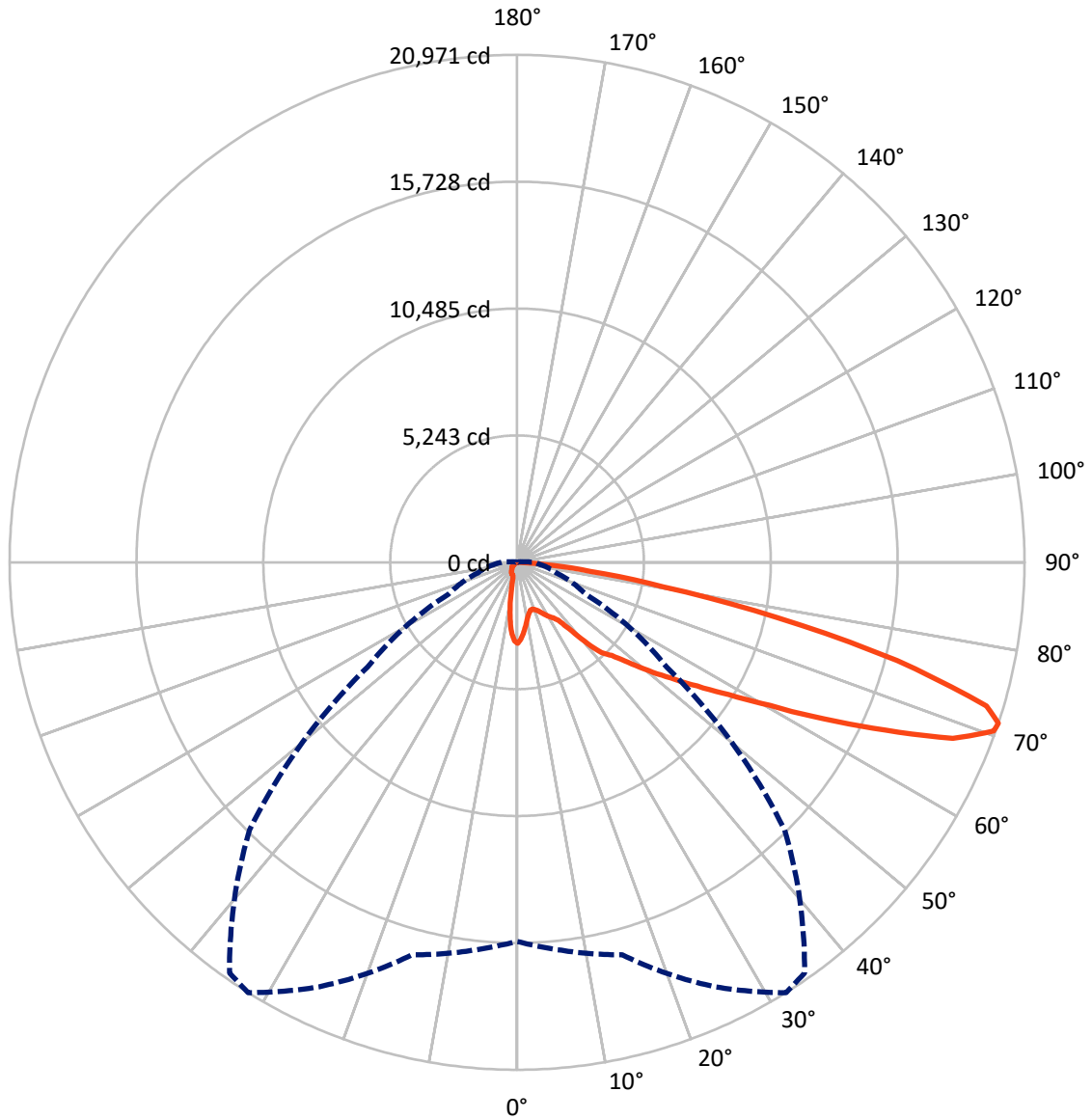
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 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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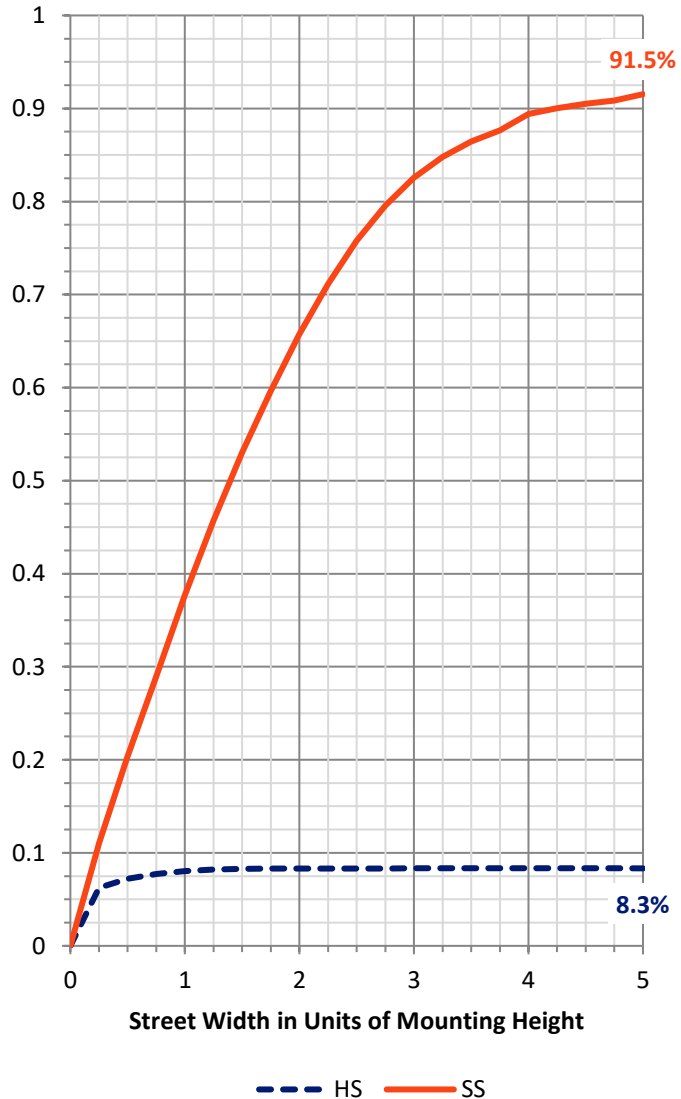
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1744.0	0.0	1744.0
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	19076.8	0.0	19076.8
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	20820.8	0.0	20820.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	272.3	1.3
10°-20°	590.9	2.8
20°-30°	919.2	4.4
30°-40°	1531.5	7.4
40°-50°	2848.8	13.7
50°-60°	4573.8	22.0
60°-70°	6152.0	29.5
70°-80°	3650.1	17.5
80°-90°	282.1	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°	20820.8	100.0
0°-180°	20820.8	100.0

**Coefficient of Utilization**



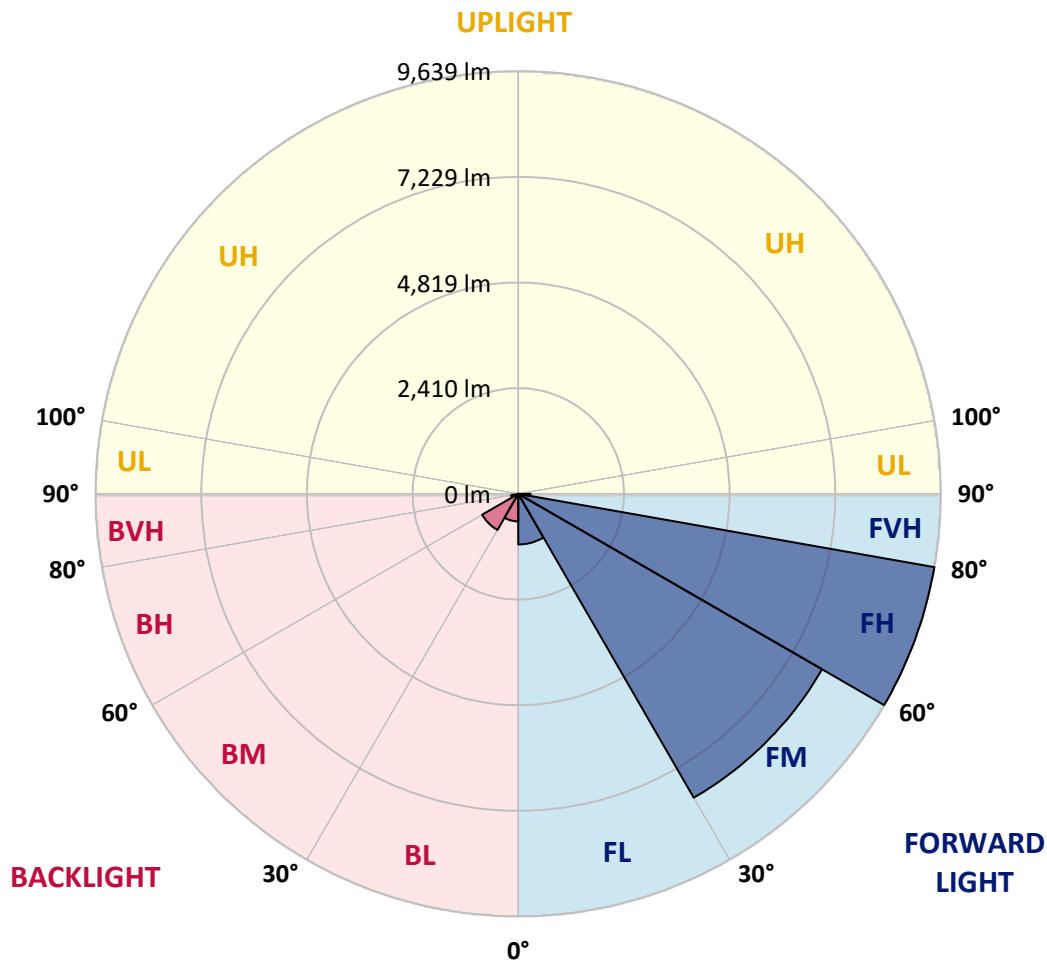
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1154.0	5.5			
FM (30°-60°)	8002.7	38.4			
FH (60°-80°)	9639.0	46.3			G4/12000
FVH (80°-90°)	281.0	1.3			G3/500
BL (0°-30°)	628.4	3.0	B2/1000		
BM (30°-60°)	951.4	4.6	B1/1000		
BH (60°-80°)	163.1	0.8	B1/500		G1/500
BVH (80°-90°)	1.1	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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	3348.3	3348.3	3348.3	3348.3	3348.3	3348.3	3348.3	3348.3	3348.3	3348.3	3348.3
2.5°	3105.4	3137.3	3132.5	3143.7	3170.9	3182.1	3212.4	3246.0	3292.4	3324.3	3345.1
5°	2780.9	2804.9	2808.1	2864.1	2891.2	2921.6	3011.1	3108.6	3217.3	3303.6	3361.1
7.5°	2434.1	2446.9	2472.5	2546.0	2614.8	2645.1	2780.9	2950.3	3121.4	3282.8	3386.6
10°	2148.0	2162.4	2208.8	2287.1	2351.0	2391.0	2579.5	2792.1	3031.9	3271.6	3423.4
12.5°	1985.0	1993.0	2010.6	2080.9	2162.4	2205.6	2408.5	2651.5	2959.9	3276.4	3485.8
15°	1973.8	1970.7	1949.8	1978.6	2052.2	2096.9	2295.1	2555.6	2896.0	3292.4	3559.3
17.5°	2033.0	2025.0	1975.4	1975.4	2036.1	2072.9	2247.1	2504.4	2864.1	3329.2	3663.2
20°	2124.0	2111.3	2029.8	2023.4	2082.5	2120.8	2275.9	2507.6	2870.4	3397.8	3802.2
22.5°	2239.1	2224.7	2101.7	2104.9	2168.8	2207.2	2359.0	2565.2	2910.4	3482.5	3950.9
25°	2389.3	2373.4	2227.9	2221.5	2288.7	2322.2	2482.0	2667.4	2966.3	3588.0	4145.8
27.5°	2589.1	2555.6	2381.3	2371.8	2443.7	2486.9	2630.7	2804.9	3065.4	3733.5	4407.9
30°	2753.7	2717.0	2550.8	2525.2	2601.9	2635.5	2784.1	2990.3	3260.4	3987.6	4770.7
32.5°	2969.5	2915.2	2720.2	2653.0	2734.5	2777.8	3006.3	3335.5	3549.7	4256.1	5202.3
35°	3455.4	3421.8	3183.7	2948.8	2943.9	2998.3	3333.9	3683.9	3847.0	4674.8	5790.4
37.5°	4150.6	4126.6	3874.1	3559.3	3468.1	3442.6	3731.9	4067.5	4321.6	5250.2	6474.5
40°	4957.7	4901.8	4670.0	4403.1	4284.9	4209.7	4201.7	4638.1	4941.7	6031.8	7187.2
42.5°	5536.3	5434.0	5152.7	5133.5	5108.0	5029.7	4802.7	5472.4	5742.4	6872.4	7949.6
45°	6143.7	5988.6	5569.9	5497.9	5488.4	5483.5	5710.5	6460.1	6615.1	7783.4	8732.7
47.5°	6615.1	6492.0	6148.4	6116.5	6156.4	6265.1	6910.8	7508.5	7476.6	8595.3	9389.7
50°	7243.2	7150.5	6768.5	6829.2	7035.4	7212.8	8264.5	8651.2	8184.5	9234.6	9867.5
52.5°	7984.8	7813.8	7458.9	7623.6	7940.0	8235.7	9701.3	9651.7	8681.6	9715.7	10223.9
55°	8627.3	8505.8	8384.4	8555.4	9028.5	9397.6	10999.0	10401.3	9042.8	10102.4	10380.5
57.5°	9714.1	9685.3	9560.7	9734.9	10308.6	10692.2	12161.0	10983.1	9274.6	10303.8	10196.8
60°	11321.9	11275.5	11043.8	11266.0	12014.0	12616.5	13231.8	11505.7	9327.3	10225.5	9667.7
62.5°	13255.8	13097.6	12899.4	13227.0	14253.0	14518.4	14240.3	11815.8	9130.7	9602.2	8392.4
65°	15061.8	14898.8	14903.5	15594.0	16711.2	16891.7	15416.6	11769.4	8555.4	8040.7	6189.9
67.5°	16444.3	16417.1	16612.0	17959.4	19420.1	19295.5	16468.2	11075.8	6850.0	5211.9	3289.1
70°	16514.6	16567.3	17126.7	19400.9	20884.1	20685.9	16378.7	9002.9	4270.5	2397.4	1296.2
71°	15664.3	16019.1	16792.7	19356.2	20970.5	20713.1	15624.4	7540.4	3132.5	1671.8	935.0
72.5°	13348.4	13535.5	15207.2	18216.7	20288.0	19738.2	13711.3	5285.3	2005.8	1022.8	537.0
75°	7351.9	7812.1	10183.9	14291.4	16226.9	15744.3	8935.8	2510.8	1000.5	559.4	222.1
77.5°	3500.2	3410.7	4968.9	8499.4	11002.2	10976.6	4502.2	1115.5	583.3	378.8	111.9
80°	1000.5	1125.2	1901.9	4040.4	6108.4	6175.6	1729.3	538.6	404.3	295.7	57.6
82.5°	302.1	308.4	698.4	1786.8	3038.3	2864.1	648.9	274.9	290.9	235.0	33.6
85°	52.8	65.5	206.2	629.7	1158.7	879.0	163.0	131.1	191.8	155.0	19.2
87.5°	3.2	4.8	68.7	72.0	102.3	59.1	28.7	19.2	41.6	41.6	11.2
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°	3348.3	3348.3	3348.3	3348.3	3348.3	3348.3	3348.3	3348.3	3348.3	3348.3	3348.3
2.5°	3359.5	3369.1	3362.7	3348.3	3324.3	3295.6	3257.2	3225.3	3198.1	3183.7	3201.3
5°	3380.3	3393.1	3361.1	3289.1	3180.5	3062.2	2928.0	2824.0	2742.5	2717.0	2707.4
7.5°	3412.2	3420.2	3333.9	3174.1	2943.9	2664.2	2419.7	2213.5	2053.7	2005.8	1935.5
10°	3453.8	3449.0	3285.9	2988.7	2584.4	2164.0	1785.2	1503.9	1291.4	1214.7	1208.2
12.5°	3517.7	3492.2	3225.3	2736.2	2156.0	1606.2	1137.9	890.2	756.0	711.2	701.6
15°	3597.7	3536.9	3129.3	2440.5	1651.0	1037.2	701.6	626.5	608.9	605.7	602.5
17.5°	3691.9	3596.0	3003.1	2077.7	1160.3	672.8	586.5	585.0	586.5	583.3	581.8
20°	3819.8	3658.3	2852.9	1647.7	767.2	567.4	559.4	559.4	561.0	559.4	559.4
22.5°	3955.6	3731.9	2667.4	1257.8	578.6	538.6	537.0	540.2	543.4	541.8	541.8
25°	4123.4	3827.8	2422.9	861.5	517.8	514.7	516.2	522.7	529.0	530.6	529.0
27.5°	4366.4	3946.0	2160.8	593.0	474.7	477.9	493.8	509.8	519.4	521.0	521.0
30°	4639.7	4077.1	1818.8	481.1	439.5	439.5	458.7	489.1	509.8	513.0	514.7
32.5°	4991.3	4228.9	1440.0	433.2	406.0	402.8	420.3	457.1	495.5	506.7	506.7
35°	5426.0	4407.9	1070.8	402.8	381.9	374.0	383.6	414.0	463.5	495.5	498.6
37.5°	5935.8	4577.3	783.2	375.6	359.6	348.4	354.8	378.8	418.7	466.7	479.5
40°	6407.3	4727.6	585.0	353.2	337.2	329.3	334.0	345.2	378.8	423.5	431.5
42.5°	6922.0	4844.3	465.1	329.3	314.8	311.6	311.6	316.5	338.8	364.4	366.0
45°	7435.0	4885.8	389.9	300.4	290.9	294.1	292.5	289.3	298.9	295.7	295.7
47.5°	7801.0	4836.3	322.8	273.3	273.3	278.1	270.1	258.9	254.1	235.0	236.5
50°	8051.9	4655.6	265.3	241.3	254.1	260.5	244.5	226.9	209.4	188.6	183.8
52.5°	8155.8	4334.4	217.4	199.7	225.3	233.3	214.2	193.4	166.2	148.6	143.8
55°	8088.7	3938.0	180.6	163.0	190.2	199.7	180.6	156.6	126.3	107.1	103.9
57.5°	7793.0	3465.0	153.5	129.4	151.8	158.2	145.4	119.9	89.5	70.3	70.3
60°	7281.6	2975.9	124.7	102.3	113.5	123.1	110.2	86.3	60.8	43.1	39.9
62.5°	6244.3	2416.5	100.7	79.9	79.9	87.9	76.7	62.3	38.4	22.4	20.7
65°	4508.6	1657.4	79.9	59.1	57.6	57.6	47.9	41.6	22.4	9.6	6.4
67.5°	2450.1	935.0	63.9	44.8	39.9	38.4	30.4	24.0	9.6	1.6	0.0
70°	963.7	359.6	49.6	30.4	25.6	24.0	16.0	11.2	6.4	0.0	0.0
71°	653.6	247.7	43.1	25.6	20.7	17.6	12.8	9.6	4.8	0.0	0.0
72.5°	374.0	153.5	33.6	19.2	16.0	12.8	9.6	6.4	4.8	0.0	0.0
75°	163.0	78.3	20.7	14.4	11.2	8.0	6.4	4.8	1.6	0.0	0.0
77.5°	83.1	43.1	14.4	11.2	6.4	4.8	3.2	1.6	0.0	0.0	0.0
80°	46.4	22.4	9.6	6.4	4.8	3.2	1.6	1.6	0.0	0.0	0.0
82.5°	25.6	12.8	4.8	3.2	1.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	16.0	8.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.0	3.2	0.0	0.0	0.0	0.0	1.6	1.6	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)