

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: P454981

Luminaire Tested: **GALN-SA6A-827-U-SL2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454981  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA6A-827-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16315 lumens  
Efficiency: N/A  
Efficacy: 89.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G3

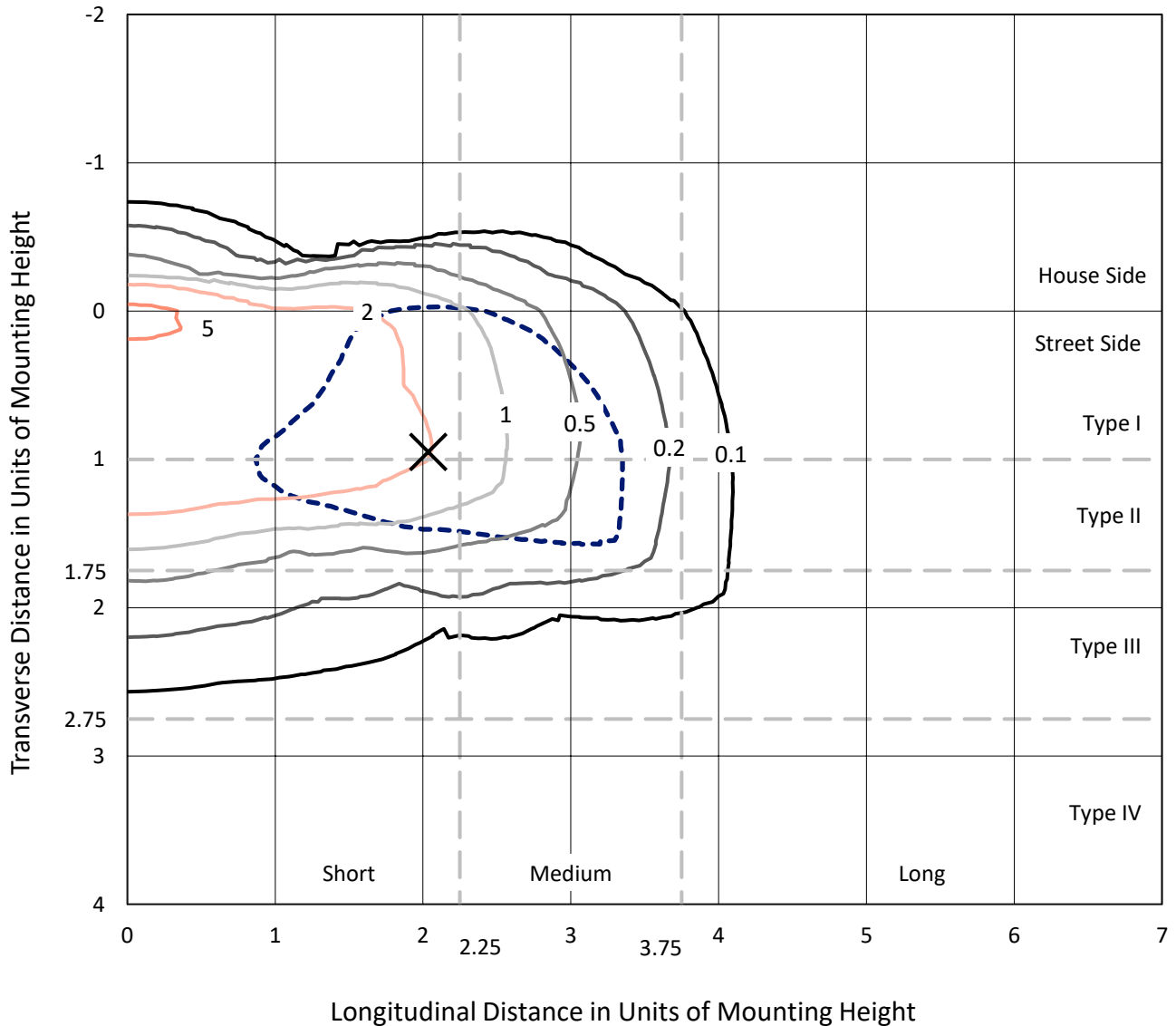
Input Watts (W): 182  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

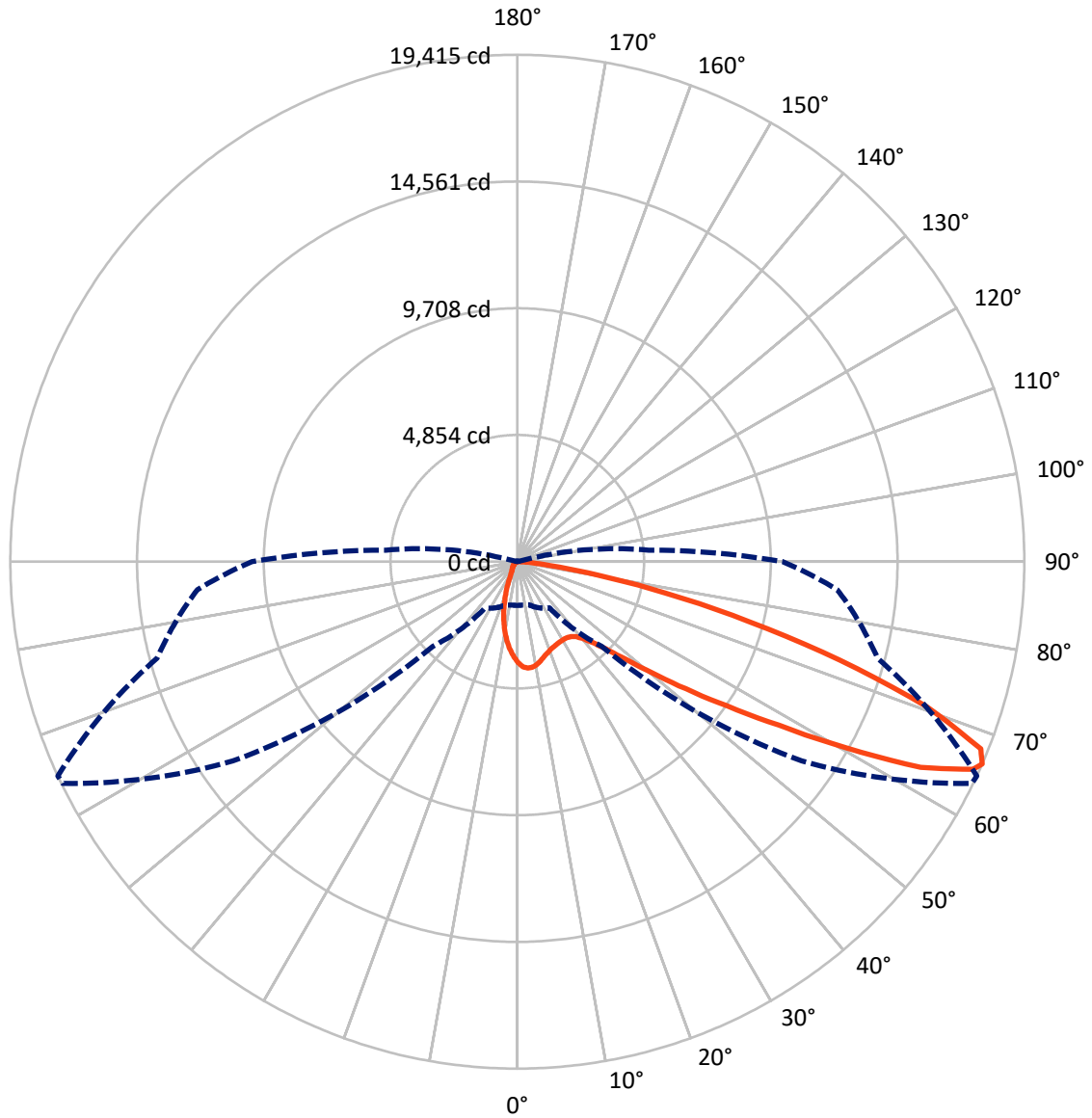
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P454981

CATALOG NUMBER: GALN-SA6A-827-U-SL2-HSS

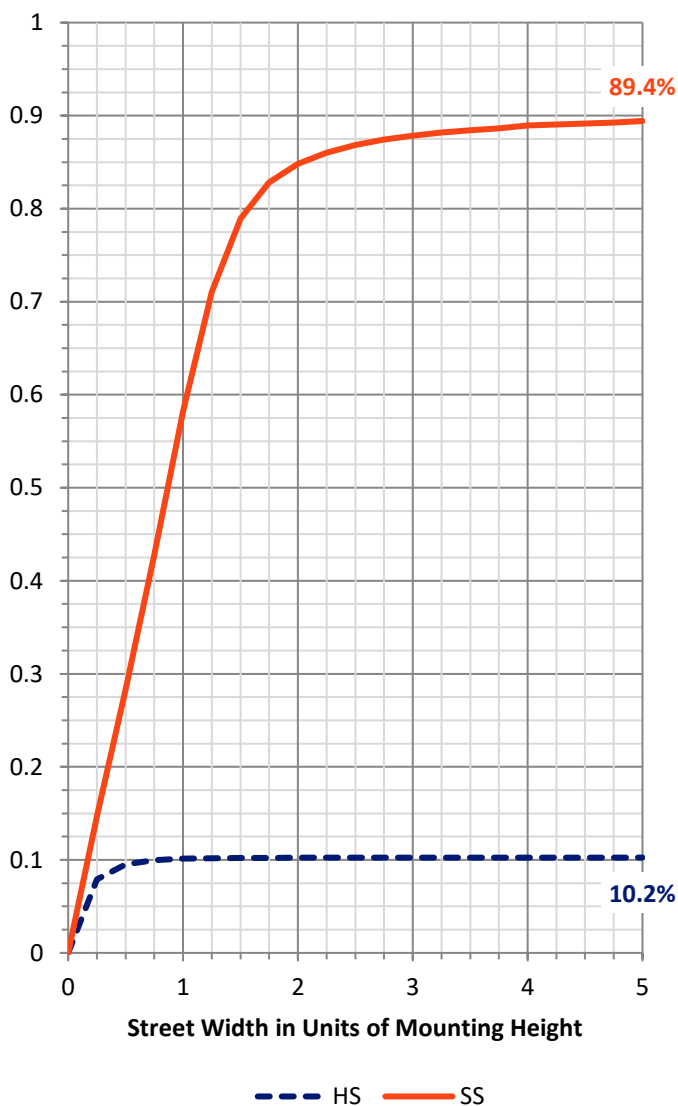
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1687.2	0.0	1687.2
	% Fixture	10.3	0.0	10.3
<b>Street Side</b>	Lumens	14627.8	0.0	14627.8
	% Fixture	89.7	0.0	89.7
<b>Total</b>	Lumens	16315.0	0.0	16315.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	316.4	1.9
10°-20°	689.4	4.2
20°-30°	987.6	6.1
30°-40°	1442.5	8.8
40°-50°	2418.8	14.8
50°-60°	4036.6	24.7
60°-70°	4284.7	26.3
70°-80°	1940.5	11.9
80°-90°	198.5	1.2
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°	16315.0	100.0
0°-180°	16315.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P454981

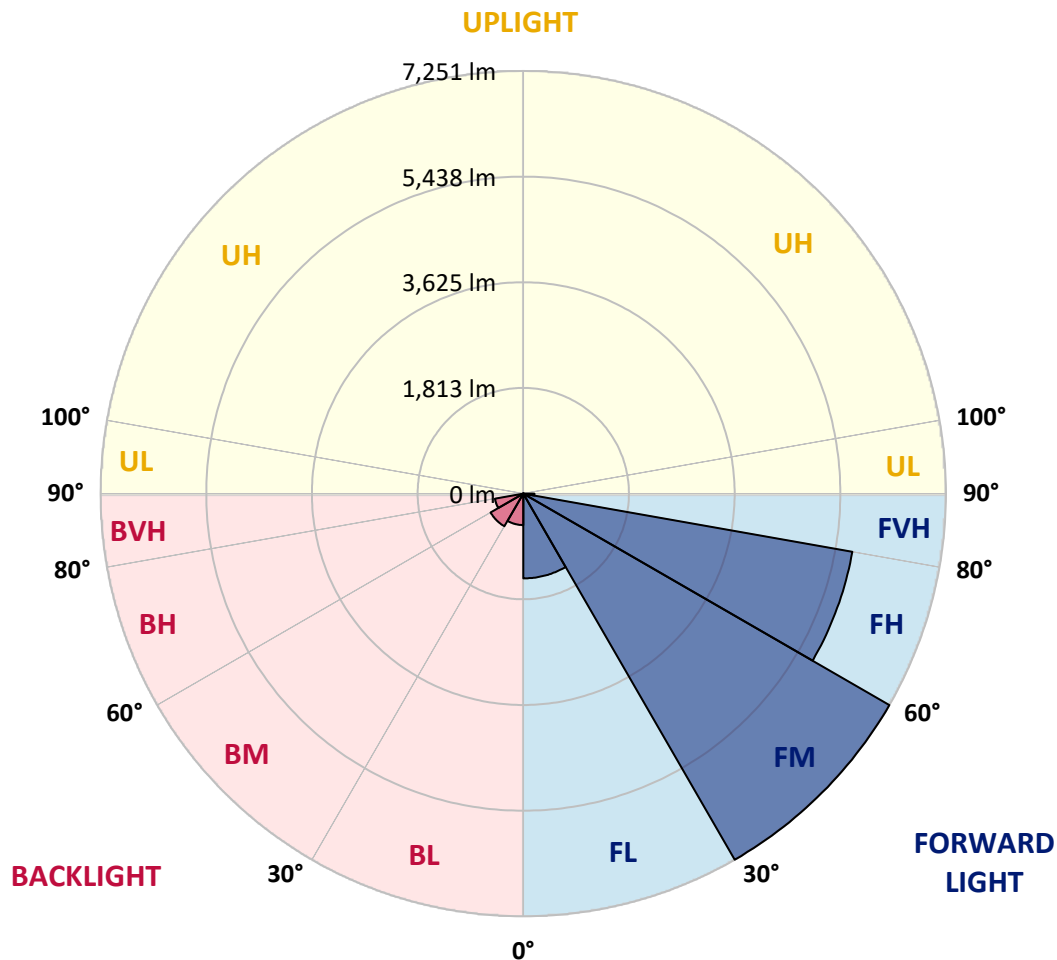
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1453.7	8.9			
FM (30°-60°)	7250.8	44.4			
FH (60°-80°)	5731.1	35.1			G3/7500
FVH (80°-90°)	192.2	1.2			G2/225
BL (0°-30°)	539.7	3.3	B2/1000		
BM (30°-60°)	647.1	4.0	B1/1000		
BH (60°-80°)	494.1	3.0	B1/500		G1/500
BVH (80°-90°)	6.3	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-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	3868.9	3868.9	3868.9	3868.9	3868.9	3868.9	3868.9	3868.9	3868.9	3868.9	3868.9
2.5°	4077.2	4081.6	4087.1	4094.8	4100.3	4083.8	4060.6	4034.2	4028.7	3972.5	3904.2
5°	3859.0	3865.6	3914.1	3940.5	4000.0	4054.0	4088.2	4092.6	4090.4	4037.5	3928.4
7.5°	3548.2	3567.0	3614.3	3660.6	3771.9	3874.4	3995.6	4080.5	4086.0	4071.6	3936.1
10°	3295.9	3308.0	3332.2	3423.7	3516.3	3672.7	3842.4	4002.2	4015.4	4072.7	3929.5
12.5°	3098.6	3116.3	3146.0	3216.5	3327.8	3475.5	3668.3	3883.2	3910.8	4051.8	3910.8
15°	2960.9	2969.7	2999.5	3068.9	3176.9	3313.5	3508.6	3758.7	3782.9	4024.3	3907.5
17.5°	2895.9	2905.8	2926.7	2981.8	3071.1	3197.8	3388.4	3658.4	3689.3	4006.6	3919.6
20°	2913.5	2922.3	2923.4	2952.1	3012.7	3119.6	3300.3	3564.8	3604.4	3995.6	3939.4
22.5°	3013.8	3014.9	3001.7	2988.4	3009.4	3086.5	3246.3	3505.3	3546.0	3993.4	3962.6
25°	3163.7	3167.0	3144.9	3098.6	3056.8	3096.4	3234.2	3466.7	3503.0	3987.9	3976.9
27.5°	3370.8	3369.7	3363.1	3286.0	3167.0	3140.5	3244.1	3445.7	3476.6	3972.5	3982.4
30°	3660.6	3651.8	3637.5	3550.4	3368.6	3247.4	3286.0	3432.5	3461.2	3950.4	3968.1
32.5°	3946.0	3979.1	3976.9	3894.2	3667.2	3438.0	3373.0	3450.2	3471.1	3936.1	3947.1
35°	4278.8	4277.7	4362.6	4331.7	4066.1	3681.6	3521.8	3508.6	3525.1	3946.0	3937.2
37.5°	4587.3	4616.0	4748.2	4780.2	4537.8	4025.4	3732.2	3634.2	3639.7	4013.2	3961.5
40°	4971.9	5027.0	5224.3	5331.2	5117.4	4535.6	4043.0	3864.5	3865.6	4178.5	4052.9
42.5°	5467.8	5554.8	5738.9	5917.4	5802.8	5139.4	4509.1	4229.2	4227.0	4469.4	4262.3
45°	6070.6	6131.2	6340.5	6623.7	6551.0	5982.4	5187.9	4794.5	4765.9	4946.6	4633.6
47.5°	6590.7	6673.3	6886.0	7208.8	7539.4	7011.6	5998.9	5571.4	5552.6	5705.8	5270.5
50°	6817.7	6890.4	7114.1	7567.0	8368.1	8362.6	7206.6	6705.3	6673.3	6756.0	6255.7
52.5°	6568.6	6636.9	6862.8	7427.0	8758.2	10008.9	8956.5	8127.9	8089.3	7983.5	7432.5
55°	5715.7	5771.9	6105.8	6753.7	8608.3	11106.4	11367.5	9885.4	9735.6	9324.6	8764.8
57.5°	4551.0	4522.3	4729.5	5482.1	7729.0	11474.4	13842.5	12075.0	11807.2	10483.8	9892.1
60°	3153.7	3241.9	3325.6	3821.5	5811.6	10836.4	15381.9	14827.6	14475.0	11624.3	10972.0
62.5°	2318.5	2376.9	2432.0	2661.2	3654.0	8652.4	15654.1	17655.2	17342.2	12835.3	12002.3
65°	1833.6	1838.0	1860.1	2086.0	2407.7	5626.5	14346.1	19249.7	19169.2	14001.2	12419.9
66°	1670.5	1671.6	1705.8	1948.2	2160.9	4581.8	13298.1	19370.9	19415.0	14281.1	12297.6
67.5°	1460.1	1455.7	1505.2	1751.0	1968.1	3303.6	11422.6	18879.4	19140.6	14495.9	11857.9
70°	1131.7	1126.2	1186.8	1468.9	1812.7	2203.9	7592.3	16210.5	16631.5	14056.3	10491.5
72.5°	753.7	758.1	861.7	1159.2	1730.0	1940.5	4567.5	12331.7	12926.8	11607.8	8253.5
75°	439.7	447.4	565.3	861.7	1501.9	1850.1	2585.1	8793.4	9173.6	8015.5	5141.6
77.5°	230.3	233.6	316.3	568.6	1151.5	1717.9	1722.3	5617.7	5796.2	3895.3	2035.3
80°	122.3	119.0	169.7	342.7	792.3	1508.5	1397.3	2974.1	3092.0	1157.0	514.6
82.5°	46.3	50.7	90.4	224.8	468.3	1083.2	1203.3	1314.6	1273.8	254.5	216.0
85°	8.8	11.0	38.6	133.3	235.8	452.9	887.1	644.6	597.2	95.9	124.5
87.5°	1.1	2.2	11.0	32.0	34.2	153.2	262.3	178.5	154.3	35.3	51.8
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°	3868.9	3868.9	3868.9	3868.9	3868.9	3868.9	3868.9	3868.9	3868.9	3868.9	3868.9
2.5°	3871.1	3841.3	3742.2	3644.1	3543.8	3453.5	3391.8	3291.5	3266.1	3229.8	3208.8
5°	3863.4	3794.0	3603.3	3395.1	3201.1	2991.7	2832.0	2677.7	2595.1	2553.2	2537.8
7.5°	3841.3	3731.1	3433.6	3107.5	2796.7	2483.8	2211.6	2004.4	1871.1	1779.6	1717.9
10°	3797.3	3645.2	3236.4	2787.9	2318.5	1905.2	1560.3	1298.1	1095.3	1031.4	1033.6
12.5°	3752.1	3549.3	3016.0	2433.1	1851.2	1330.0	964.2	757.0	660.1	628.1	621.5
15°	3710.2	3457.9	2800.0	2089.3	1378.5	861.7	621.5	548.8	522.3	516.8	515.7
17.5°	3688.2	3373.0	2569.7	1695.9	962.0	585.1	498.1	478.2	470.5	465.0	462.8
20°	3669.4	3299.2	2349.3	1327.8	657.9	479.3	446.3	427.6	414.3	408.8	405.5
22.5°	3656.2	3223.2	2121.2	1028.1	503.6	425.3	395.6	371.4	352.6	346.0	341.6
25°	3636.4	3139.4	1890.9	751.5	424.2	378.0	343.8	315.2	290.9	278.8	276.6
27.5°	3607.7	3044.6	1638.6	556.5	379.1	336.1	294.2	259.0	234.7	221.5	222.6
30°	3561.4	2945.5	1386.2	441.9	342.7	293.1	247.9	213.8	190.6	180.7	179.6
32.5°	3506.4	2825.4	1154.8	379.1	309.6	254.5	207.2	177.4	159.8	152.1	151.0
35°	3454.6	2704.1	919.0	340.5	275.5	219.3	174.1	148.8	135.5	128.9	130.0
37.5°	3425.9	2596.2	716.3	309.6	247.9	188.4	149.9	127.8	115.7	110.2	109.1
40°	3444.6	2508.0	569.7	282.1	217.1	162.0	128.9	110.2	98.1	90.4	90.4
42.5°	3532.8	2469.4	459.5	255.6	188.4	139.9	112.4	94.8	81.5	73.8	74.9
45°	3801.7	2510.2	384.6	231.4	162.0	121.2	97.0	78.2	66.1	60.6	59.5
47.5°	4248.0	2663.4	332.8	206.1	138.8	103.6	81.5	65.0	52.9	48.5	47.4
50°	5028.1	2979.6	294.2	180.7	117.9	88.2	67.2	51.8	41.9	37.5	37.5
52.5°	6101.4	3669.4	266.7	152.1	99.2	74.9	55.1	41.9	33.1	29.8	28.7
55°	7223.2	4396.7	252.3	127.8	82.6	61.7	44.1	33.1	25.3	22.0	20.9
57.5°	8302.0	4967.5	235.8	103.6	66.1	47.4	34.2	25.3	17.6	15.4	14.3
60°	9336.7	5429.2	200.6	82.6	51.8	34.2	25.3	17.6	12.1	9.9	9.9
62.5°	10262.3	5698.1	157.6	66.1	39.7	24.2	16.5	13.2	8.8	6.6	6.6
65°	10370.3	5348.8	119.0	50.7	28.7	15.4	9.9	9.9	6.6	4.4	4.4
66°	10153.2	5052.4	104.7	46.3	25.3	13.2	8.8	7.7	5.5	3.3	3.3
67.5°	9668.4	4546.6	90.4	39.7	20.9	9.9	6.6	6.6	4.4	2.2	2.2
70°	8353.8	3713.5	71.6	29.8	15.4	7.7	4.4	4.4	3.3	2.2	2.2
72.5°	6367.0	2772.5	58.4	22.0	11.0	5.5	3.3	3.3	3.3	2.2	2.2
75°	3840.2	1493.1	45.2	16.5	9.9	4.4	2.2	3.3	4.4	3.3	2.2
77.5°	1414.9	508.0	35.3	13.2	7.7	4.4	2.2	2.2	4.4	3.3	3.3
80°	347.1	132.2	25.3	11.0	7.7	4.4	2.2	2.2	4.4	4.4	4.4
82.5°	160.9	56.2	17.6	9.9	7.7	4.4	2.2	2.2	3.3	4.4	4.4
85°	92.6	26.4	14.3	11.0	7.7	4.4	2.2	2.2	3.3	4.4	4.4
87.5°	37.5	13.2	13.2	11.0	8.8	5.5	2.2	2.2	2.2	3.3	3.3
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)