

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: P648481

Luminaire Tested: **GALN-SA6B-835-U-SL2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648481  
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-SA6B-835-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 3500K, 800mA 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: 21622.5 lumens  
Efficiency: N/A  
Efficacy: 89.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G4

Input Watts (W): 243  
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

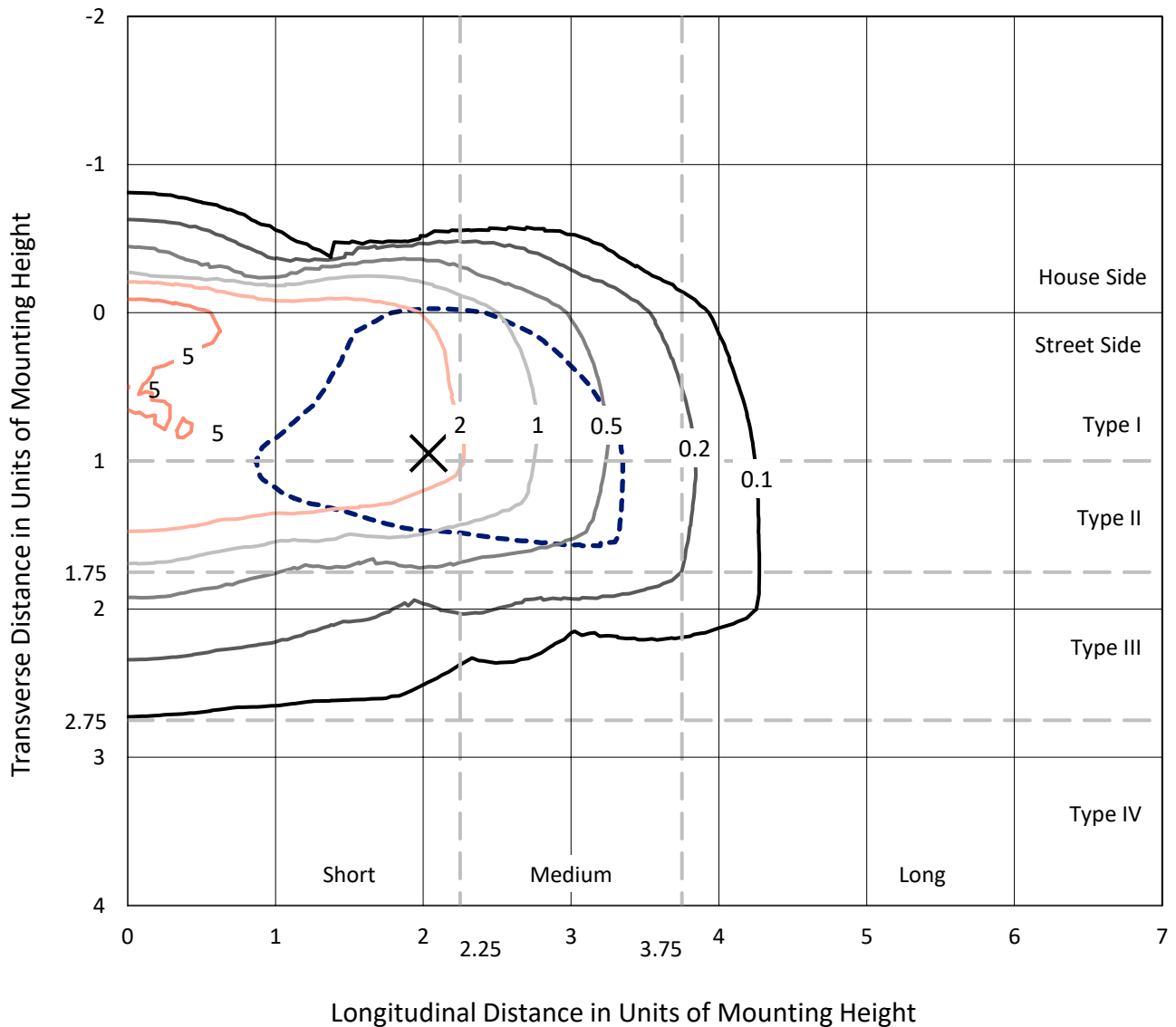




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### Iso-Footcandle Lines of Horizontal Illumination

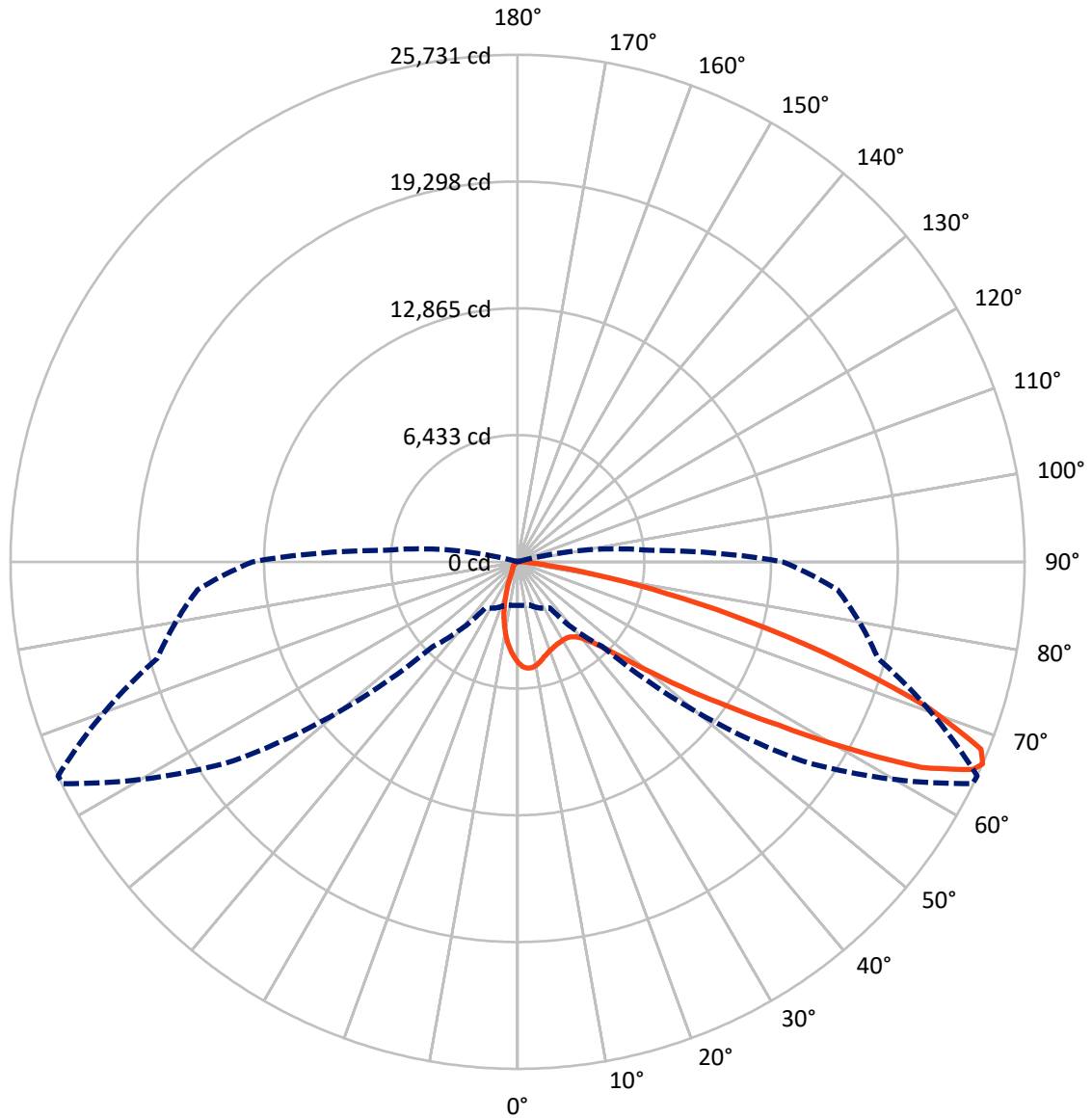
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 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

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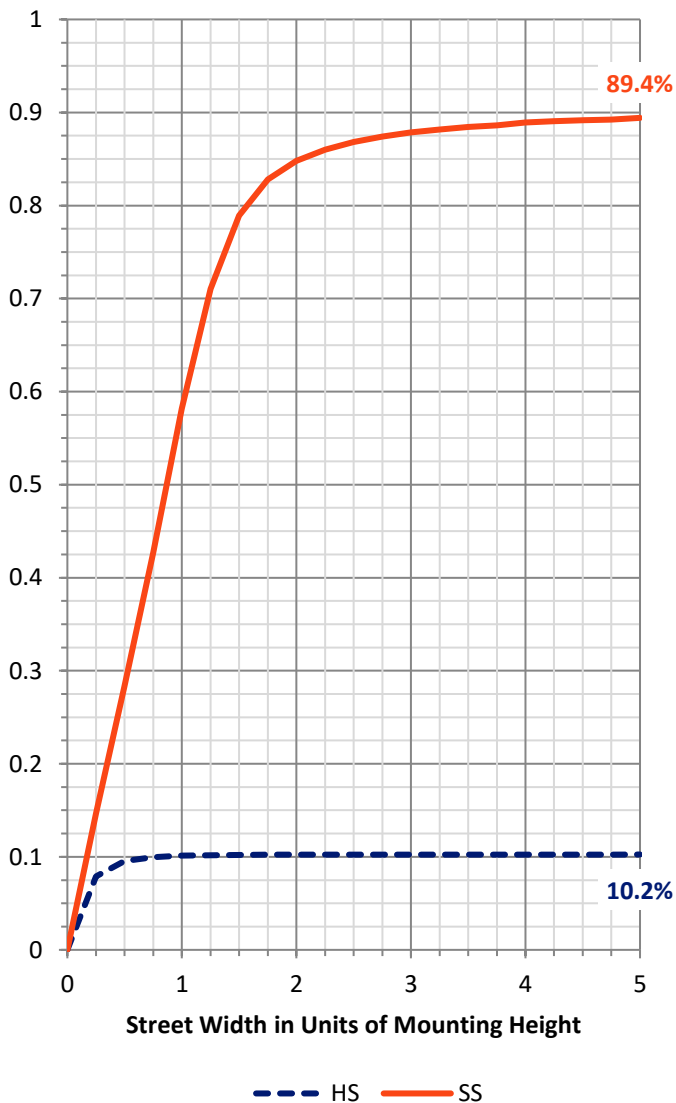
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2236.1	0.0	2236.1
	% Fixture	10.3	0.0	10.3
<b>Street Side</b>	Lumens	19386.5	0.0	19386.5
	% Fixture	89.7	0.0	89.7
<b>Total</b>	Lumens	21622.5	0.0	21622.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	419.4	1.9
10°-20°	913.7	4.2
20°-30°	1308.9	6.1
30°-40°	1911.7	8.8
40°-50°	3205.6	14.8
50°-60°	5349.7	24.7
60°-70°	5678.6	26.3
70°-80°	2571.8	11.9
80°-90°	263.1	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°	21622.5	100.0
0°-180°	21622.5	100.0

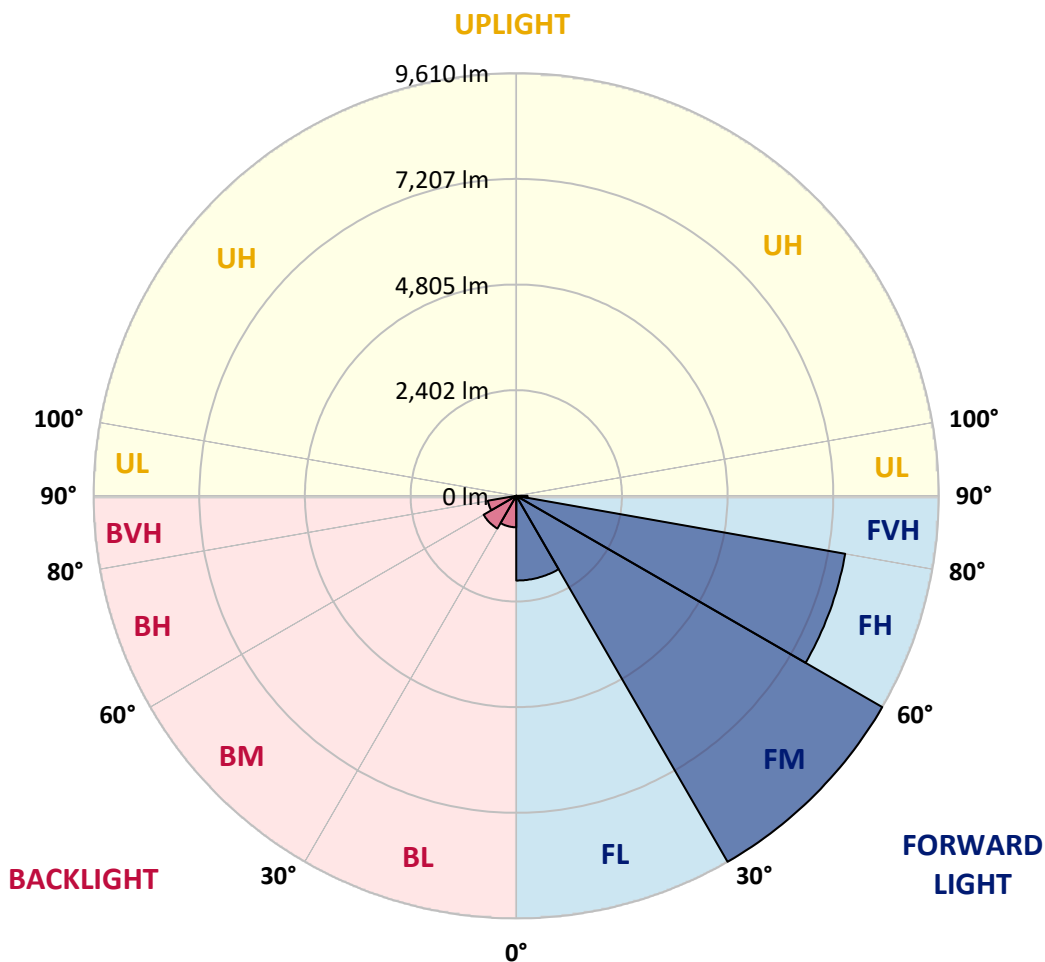


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1926.6	8.9			
FM (30°-60°)	9609.5	44.4			
FH (60°-80°)	7595.5	35.1			G4/12000
FVH (80°-90°)	254.8	1.2			G3/500
BL (0°-30°)	715.3	3.3	B2/1000		
BM (30°-60°)	857.5	4.0	B1/1000		
BH (60°-80°)	654.9	3.0	B2/1000		G2/1000
BVH (80°-90°)	8.4	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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	5127.5	5127.5	5127.5	5127.5	5127.5	5127.5	5127.5	5127.5	5127.5	5127.5	5127.5
2.5°	5403.5	5409.4	5416.6	5426.9	5434.2	5412.3	5381.6	5346.6	5339.3	5264.8	5174.2
5°	5114.3	5123.1	5187.4	5222.5	5301.3	5372.9	5418.1	5424.0	5421.0	5350.9	5206.4
7.5°	4702.5	4727.4	4790.2	4851.5	4999.0	5134.8	5295.4	5407.9	5415.2	5396.2	5216.6
10°	4368.1	4384.2	4416.3	4537.5	4660.2	4867.5	5092.5	5304.2	5321.7	5397.7	5207.8
12.5°	4106.7	4130.0	4169.5	4263.0	4410.4	4606.2	4861.7	5146.5	5183.0	5369.9	5183.0
15°	3924.2	3935.8	3975.2	4067.2	4210.3	4391.5	4649.9	4981.4	5013.6	5333.4	5178.6
17.5°	3838.0	3851.1	3878.8	3951.9	4070.2	4238.1	4490.7	4848.6	4889.4	5310.1	5194.7
20°	3861.4	3873.0	3874.4	3912.4	3992.8	4134.4	4373.9	4724.5	4777.0	5295.4	5221.0
22.5°	3994.2	3995.6	3978.2	3960.6	3988.4	4090.6	4302.4	4645.5	4699.6	5292.5	5251.7
25°	4192.8	4197.2	4168.0	4106.7	4051.2	4103.8	4286.3	4594.5	4642.6	5285.2	5270.6
27.5°	4467.4	4465.9	4457.1	4355.0	4197.2	4162.2	4299.5	4566.7	4607.6	5264.8	5277.9
30°	4851.5	4839.8	4820.9	4705.4	4464.5	4303.8	4355.0	4549.2	4587.1	5235.6	5258.9
32.5°	5229.7	5273.5	5270.6	5161.1	4860.2	4556.5	4470.3	4572.6	4600.3	5216.6	5231.2
35°	5670.8	5669.3	5781.8	5740.9	5388.9	4879.3	4667.5	4649.9	4671.8	5229.7	5218.1
37.5°	6079.7	6117.7	6292.9	6335.3	6014.0	5334.9	4946.4	4816.5	4823.7	5318.8	5250.2
40°	6589.3	6662.4	6923.8	7065.5	6782.1	6011.0	5358.2	5121.7	5123.1	5537.8	5371.4
42.5°	7246.6	7361.9	7605.8	7842.4	7690.5	6811.4	5976.0	5605.0	5602.1	5923.4	5648.9
45°	8045.4	8125.7	8403.2	8778.5	8682.1	7928.6	6875.6	6354.3	6316.3	6555.7	6141.0
47.5°	8734.8	8844.2	9126.1	9554.0	9992.1	9292.6	7950.5	7383.8	7359.0	7562.0	6985.1
50°	9035.6	9132.0	9428.4	10028.7	11090.3	11083.1	9551.1	8886.6	8844.2	8953.8	8290.7
52.5°	8705.5	8796.1	9095.4	9843.2	11607.3	13264.9	11870.2	10772.0	10720.9	10580.7	9850.5
55°	7575.1	7649.6	8092.1	8950.9	11408.7	14719.5	15065.6	13101.3	12902.7	12358.0	11616.1
57.5°	6031.5	5993.6	6268.1	7265.5	10243.3	15207.3	18345.7	16003.2	15648.3	13894.3	13110.1
60°	4179.7	4296.6	4407.5	5064.7	7702.2	14361.7	20385.9	19651.3	19184.0	15405.8	14541.3
62.5°	3072.7	3150.1	3223.1	3526.9	4842.7	11467.1	20746.6	23398.7	22983.9	17010.8	15906.8
65°	2430.1	2436.0	2465.2	2764.5	3191.0	7456.8	19013.1	25511.9	25405.3	18556.0	16460.3
66°	2214.0	2215.4	2260.7	2582.0	2863.9	6072.4	17624.2	25672.5	25730.9	18926.9	16298.2
67.5°	1935.0	1929.2	1994.9	2320.6	2608.3	4378.3	15138.6	25021.2	25367.3	19211.7	15715.5
70°	1499.8	1492.6	1572.9	1946.7	2402.4	2920.8	10062.3	21484.1	22042.0	18629.0	13904.6
72.5°	999.0	1004.7	1142.0	1536.3	2292.9	2571.8	6053.4	16343.5	17132.1	15384.0	10938.5
75°	582.7	593.0	749.2	1142.0	1990.5	2452.0	3426.1	11654.1	12158.0	10623.0	6814.3
77.5°	305.2	309.6	419.1	753.6	1526.1	2276.8	2282.6	7445.2	7681.8	5162.6	2697.4
80°	162.1	157.7	224.9	454.2	1050.0	1999.3	1851.8	3941.6	4097.9	1533.4	682.0
82.5°	61.3	67.2	119.7	297.9	620.7	1435.6	1594.7	1742.3	1688.2	337.3	286.3
85°	11.7	14.6	51.1	176.7	312.5	600.2	1175.6	854.3	791.5	127.1	165.1
87.5°	1.5	2.9	14.6	42.4	45.3	203.0	347.6	236.6	204.4	46.7	68.7
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°	5127.5	5127.5	5127.5	5127.5	5127.5	5127.5	5127.5	5127.5	5127.5	5127.5	5127.5
2.5°	5130.5	5091.0	4959.5	4829.5	4696.7	4576.9	4495.1	4362.2	4328.7	4280.4	4252.7
5°	5120.2	5028.2	4775.5	4499.5	4242.5	3965.0	3753.2	3548.8	3439.2	3383.7	3363.3
7.5°	5091.0	4945.0	4550.6	4118.3	3706.5	3291.7	2931.1	2656.5	2479.8	2358.6	2276.8
10°	5032.6	4831.0	4289.2	3694.8	3072.7	2525.0	2067.9	1720.3	1451.7	1367.0	1369.9
12.5°	4972.7	4704.0	3997.1	3224.6	2453.5	1762.7	1277.9	1003.3	874.8	832.4	823.6
15°	4917.2	4582.7	3710.9	2768.9	1827.0	1142.0	823.6	727.3	692.3	685.0	683.5
17.5°	4888.0	4470.3	3405.7	2247.6	1275.0	775.5	660.1	633.8	623.6	616.3	613.4
20°	4863.1	4372.5	3113.6	1759.8	871.9	635.2	591.5	566.7	549.1	541.8	537.5
22.5°	4845.7	4271.7	2811.3	1362.6	667.4	563.7	524.3	492.2	467.3	458.6	452.7
25°	4819.4	4160.7	2506.1	996.0	562.3	500.9	455.6	417.7	385.5	369.5	366.6
27.5°	4781.4	4035.1	2171.7	737.5	502.4	445.4	389.9	343.2	311.1	293.5	295.0
30°	4720.1	3903.6	1837.2	585.6	454.2	388.4	328.6	283.3	252.7	239.5	238.0
32.5°	4647.0	3744.5	1530.5	502.4	410.4	337.3	274.5	235.1	211.7	201.5	200.1
35°	4578.4	3583.9	1218.0	451.2	365.1	290.6	230.8	197.2	179.6	170.9	172.3
37.5°	4540.4	3440.7	949.2	410.4	328.6	249.7	198.6	169.4	153.3	146.0	144.5
40°	4565.3	3323.9	755.0	373.9	287.7	214.7	170.9	146.0	130.0	119.7	119.7
42.5°	4682.1	3272.8	609.0	338.8	249.7	185.5	148.9	125.6	108.1	97.9	99.3
45°	5038.4	3326.8	509.7	306.7	214.7	160.7	128.5	103.7	87.6	80.3	78.8
47.5°	5629.8	3529.8	441.1	273.1	184.0	137.3	108.1	86.1	70.1	64.3	62.8
50°	6663.9	3949.0	389.9	239.5	156.3	116.8	89.1	68.7	55.5	49.6	49.6
52.5°	8086.3	4863.1	353.4	201.5	131.5	99.3	73.1	55.5	43.8	39.5	38.0
55°	9573.0	5827.0	334.4	169.4	109.5	81.7	58.4	43.8	33.6	29.2	27.7
57.5°	11002.7	6583.5	312.5	137.3	87.6	62.8	45.3	33.6	23.3	20.4	18.9
60°	12374.1	7195.5	265.8	109.5	68.7	45.3	33.6	23.3	16.1	13.2	13.2
62.5°	13600.8	7551.8	208.8	87.6	52.5	32.1	21.9	17.5	11.7	8.8	8.8
65°	13743.9	7088.8	157.7	67.2	38.0	20.4	13.2	13.2	8.8	5.9	5.9
66°	13456.2	6696.0	138.7	61.3	33.6	17.5	11.7	10.3	7.3	4.4	4.4
67.5°	12813.6	6025.7	119.7	52.5	27.7	13.2	8.8	8.8	5.9	2.9	2.9
70°	11071.4	4921.5	94.9	39.5	20.4	10.3	5.9	5.9	4.4	2.9	2.9
72.5°	8438.2	3674.4	77.4	29.2	14.6	7.3	4.4	4.4	4.4	2.9	2.9
75°	5089.5	1978.9	59.9	21.9	13.2	5.9	2.9	4.4	5.9	4.4	2.9
77.5°	1875.2	673.2	46.7	17.5	10.3	5.9	2.9	2.9	5.9	4.4	4.4
80°	460.0	175.2	33.6	14.6	10.3	5.9	2.9	2.9	5.9	5.9	5.9
82.5°	213.2	74.5	23.3	13.2	10.3	5.9	2.9	2.9	4.4	5.9	5.9
85°	122.7	35.1	18.9	14.6	10.3	5.9	2.9	2.9	4.4	5.9	5.9
87.5°	49.6	17.5	17.5	14.6	11.7	7.3	2.9	2.9	2.9	4.4	4.4
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)