

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: P453272

Luminaire Tested: **GALN-SA4B-740-U-SL3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P453272  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA4B-740-U-SL3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18620 lumens  
Efficiency: N/A  
Efficacy: 113.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3

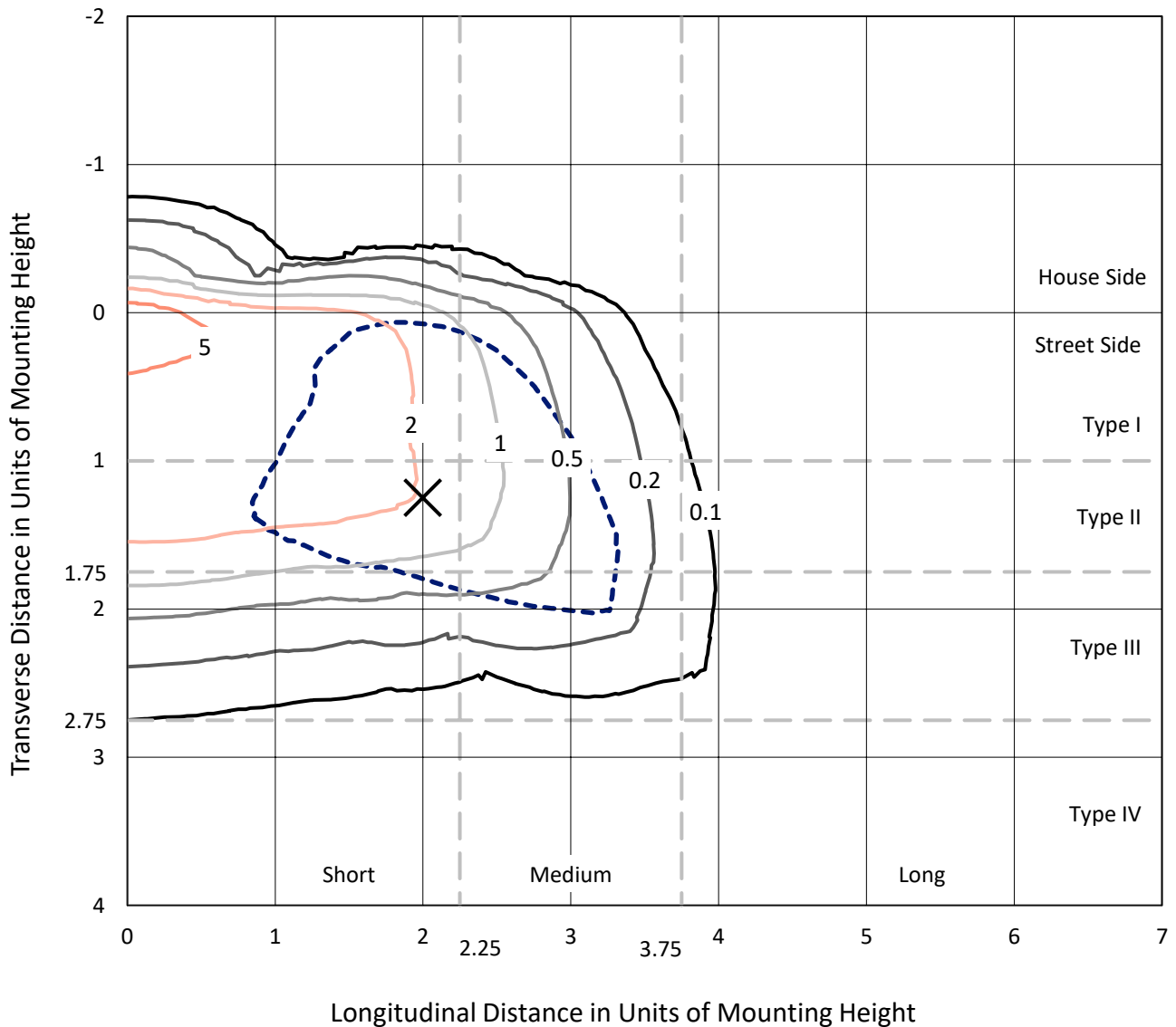
Input Watts (W): 164  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

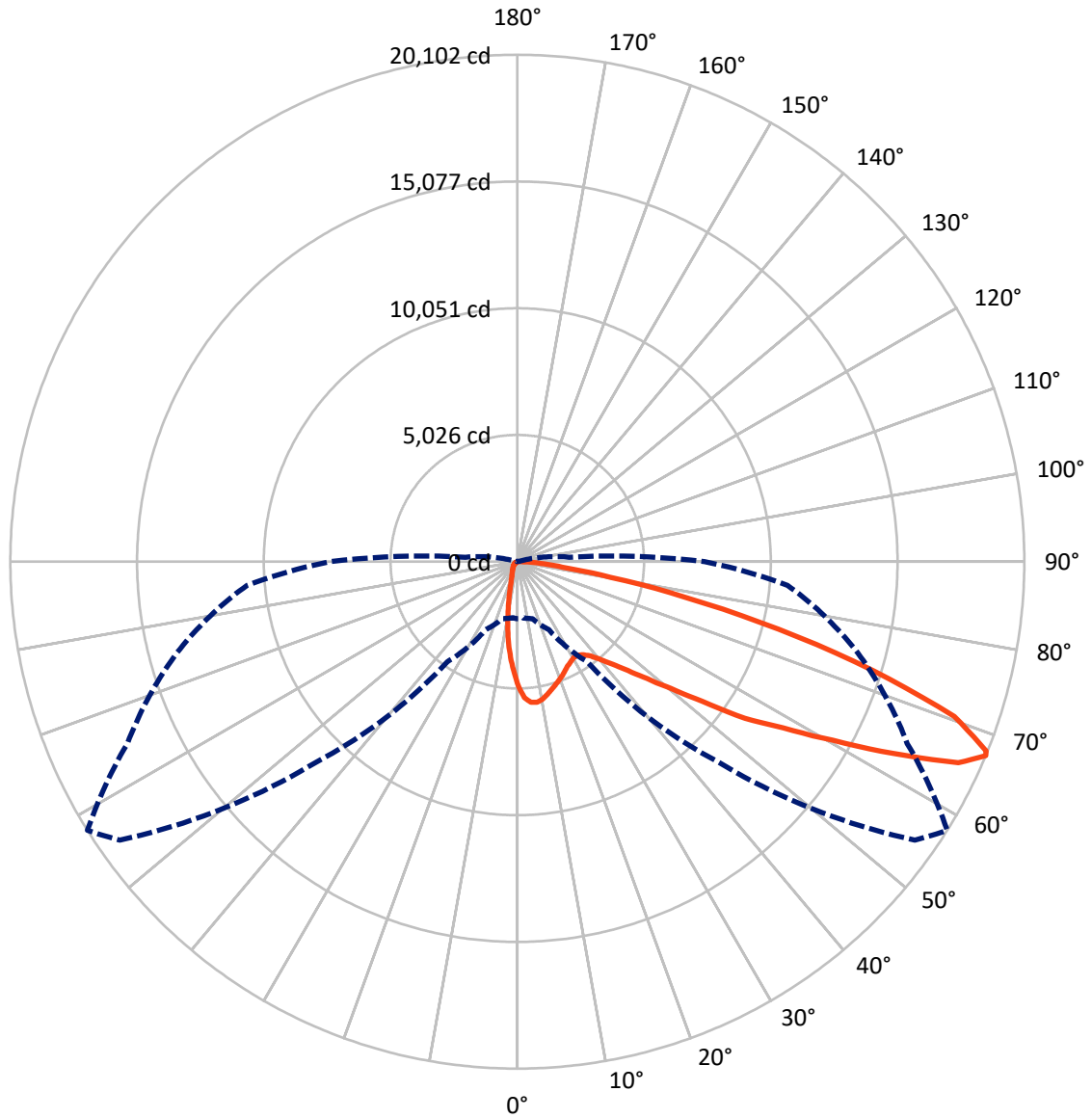
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 67-Deg Vertical

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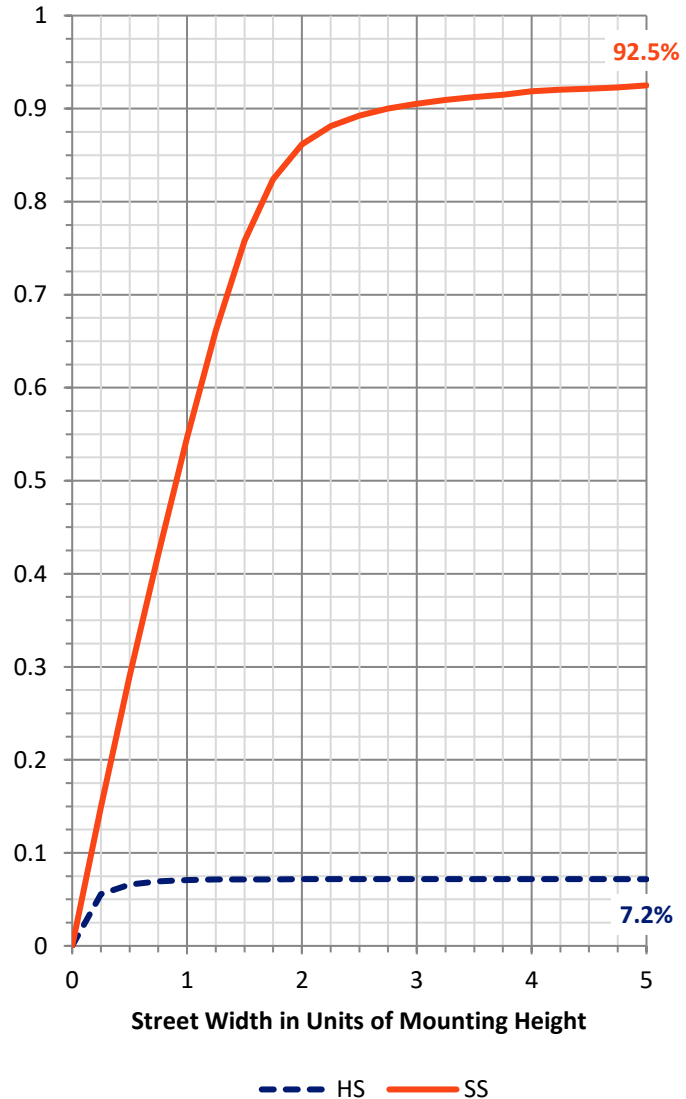
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1343.7	0.0	1343.7
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	17276.3	0.0	17276.3
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	18620.0	0.0	18620.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	400.5	2.2
10°-20°	865.1	4.6
20°-30°	1172.2	6.3
30°-40°	1625.8	8.7
40°-50°	2593.0	13.9
50°-60°	4482.2	24.1
60°-70°	5120.1	27.5
70°-80°	2134.6	11.5
80°-90°	226.3	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°	18620.0	100.0
0°-180°	18620.0	100.0



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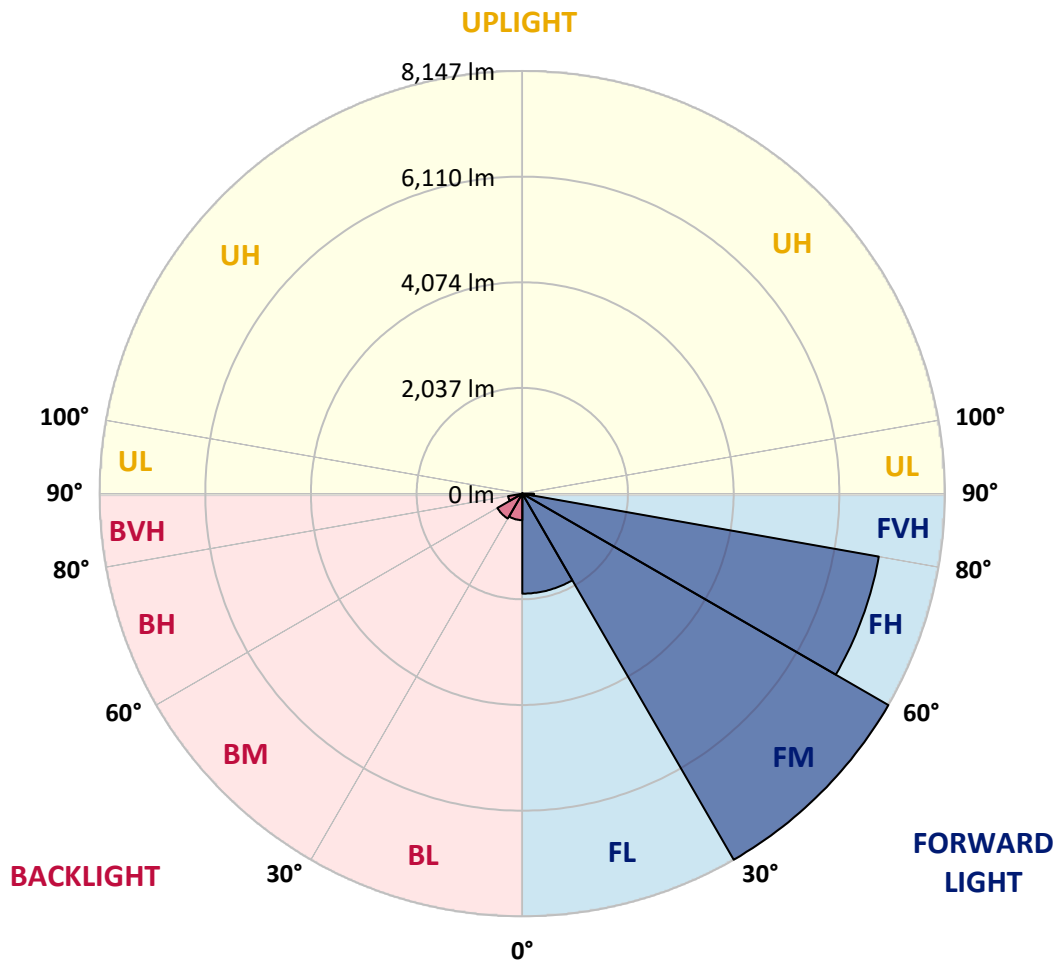
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1927.6	10.4			
FM (30°-60°)	8147.0	43.8			
FH (60°-80°)	6976.9	37.5			G3/7500
FVH (80°-90°)	224.7	1.2			G2/225
BL (0°-30°)	510.2	2.7	B2/1000		
BM (30°-60°)	554.1	3.0	B1/1000		
BH (60°-80°)	277.8	1.5	B1/500		G1/500
BVH (80°-90°)	1.6	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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	4936.0	4936.0	4936.0	4936.0	4936.0	4936.0	4936.0	4936.0	4936.0	4936.0	4936.0
2.5°	5728.6	5737.3	5704.9	5678.8	5611.6	5539.5	5443.7	5392.6	5305.5	5155.0	4988.3
5°	5863.0	5874.2	5869.2	5863.0	5836.8	5767.2	5645.2	5600.4	5472.3	5227.1	4926.0
7.5°	5564.3	5605.4	5610.4	5658.9	5704.9	5711.2	5665.1	5631.5	5513.3	5225.9	4815.3
10°	5168.7	5196.0	5235.9	5291.9	5402.6	5494.7	5539.5	5534.5	5466.0	5187.3	4685.9
12.5°	4769.3	4784.2	4845.2	4941.0	5076.6	5233.4	5352.8	5376.5	5377.7	5141.3	4577.6
15°	4425.8	4419.6	4466.9	4577.6	4768.0	4964.6	5178.6	5216.0	5275.7	5096.5	4476.9
17.5°	4132.2	4164.5	4172.0	4294.0	4469.4	4724.5	4997.0	5062.9	5182.4	5057.9	4393.5
20°	3950.5	3968.0	3984.1	4052.6	4210.6	4479.3	4826.5	4917.3	5095.3	5023.1	4300.2
22.5°	3897.0	3908.2	3894.5	3915.7	4027.7	4266.6	4641.1	4761.8	5011.9	4990.7	4224.3
25°	3938.1	3949.3	3916.9	3892.1	3930.6	4093.6	4461.9	4608.7	4944.7	4984.5	4167.0
27.5°	4037.6	4058.8	4014.0	3969.2	3946.8	4000.3	4321.3	4491.8	4898.7	5014.4	4140.9
30°	4193.2	4205.6	4172.0	4117.3	4066.3	4012.7	4247.9	4410.9	4886.2	5084.1	4138.4
32.5°	4362.4	4388.5	4369.9	4333.8	4267.8	4140.9	4269.1	4413.4	4916.1	5184.8	4169.5
35°	4571.4	4601.3	4618.7	4611.2	4526.6	4368.6	4403.4	4525.4	4995.7	5370.2	4254.1
37.5°	4776.7	4802.9	4901.2	4934.7	4860.1	4710.8	4664.7	4745.6	5171.2	5612.9	4407.2
40°	5011.9	5046.7	5184.8	5313.0	5276.9	5120.1	5035.5	5102.7	5439.9	5978.7	4697.1
42.5°	5237.1	5299.3	5509.6	5736.1	5769.6	5594.2	5538.2	5560.6	5838.1	6505.0	5101.5
45°	5556.9	5615.4	5886.6	6193.9	6352.0	6215.1	6157.9	6154.1	6384.3	7245.3	5757.2
47.5°	6018.5	6070.8	6390.5	6694.1	6975.3	6994.0	6885.8	6923.1	7071.1	8111.3	6561.0
50°	6584.6	6707.8	6918.1	7234.1	7609.9	7913.5	7947.1	7897.3	8024.3	9114.2	7526.5
52.5°	7407.1	7454.4	7647.2	7907.3	8347.8	8862.9	9262.3	9193.9	9154.0	10069.8	8502.0
55°	8020.5	8084.0	8383.8	8740.9	9386.7	10066.1	10932.1	10955.7	10453.1	10988.1	9456.4
57.5°	7835.1	7932.2	8386.3	9104.3	10524.0	11765.8	12410.3	12426.5	11655.0	11880.2	10533.9
60°	6883.3	6929.3	7580.0	8538.1	10621.0	13607.3	14506.9	14376.2	12878.1	12878.1	11485.8
62.5°	4881.2	4953.4	5481.0	6890.7	9592.0	14246.8	17017.8	16747.8	14562.9	13832.5	12053.2
65°	3119.4	3049.7	3399.3	4349.9	7145.8	13302.4	19204.0	19220.1	16148.0	14214.5	11743.4
67°	2259.6	2232.2	2333.0	2973.8	4845.2	11182.2	19250.0	20102.3	17058.8	13973.1	10752.9
67.5°	2066.7	2087.9	2161.3	2682.6	4402.2	10175.6	19041.0	20050.1	17264.1	13827.5	10394.6
70°	1566.5	1530.4	1610.1	1897.5	2639.1	6419.2	16379.5	18389.0	17009.1	12382.9	8305.5
72.5°	1152.2	1148.5	1259.2	1551.6	2031.9	3419.2	12295.8	14744.5	13895.9	9429.0	5229.6
75°	777.7	812.5	989.2	1296.5	1841.5	2217.3	8382.6	10696.9	9646.8	5354.1	2137.6
77.5°	443.0	445.4	637.1	1041.4	1653.6	1784.3	4967.1	6814.8	5106.5	1780.5	634.6
80°	191.6	210.3	316.0	756.5	1371.2	1580.2	2848.1	3745.2	2065.5	377.0	205.3
82.5°	70.9	83.4	139.4	465.4	1000.4	1301.5	1720.8	1788.0	700.5	133.1	128.2
85°	0.0	2.5	51.0	217.7	521.3	581.1	1149.7	1060.1	309.8	63.5	83.4
87.5°	0.0	0.0	0.0	22.4	68.4	216.5	357.1	398.2	74.7	22.4	19.9
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°	4936.0	4936.0	4936.0	4936.0	4936.0	4936.0	4936.0	4936.0	4936.0	4936.0	4936.0
2.5°	4898.7	4817.8	4615.0	4412.2	4261.6	4135.9	3946.8	3843.5	3788.8	3707.9	3712.9
5°	4775.5	4611.2	4254.1	3884.6	3586.0	3294.8	2946.4	2805.8	2687.6	2620.4	2575.6
7.5°	4592.6	4349.9	3821.1	3328.4	2869.3	2360.4	1978.4	1723.3	1551.6	1488.1	1427.2
10°	4392.2	4070.0	3381.9	2698.8	2061.7	1536.7	1213.2	979.2	895.9	818.7	826.2
12.5°	4206.9	3814.9	2978.8	2130.2	1444.6	976.7	761.5	665.7	638.3	629.6	629.6
15°	4055.1	3571.0	2545.8	1601.4	990.4	701.8	609.7	583.6	573.6	571.1	571.1
17.5°	3893.3	3339.6	2155.1	1183.3	720.4	587.3	556.2	538.8	535.0	532.5	532.5
20°	3749.0	3106.9	1784.3	880.9	582.3	528.8	508.9	497.7	494.0	491.5	492.7
22.5°	3612.1	2900.4	1435.9	665.7	512.6	481.5	461.6	450.4	443.0	436.7	438.0
25°	3490.2	2701.3	1154.7	545.0	461.6	434.2	414.3	398.2	382.0	374.5	373.3
27.5°	3404.3	2527.1	899.6	466.6	415.6	385.7	360.8	340.9	319.8	308.6	306.1
30°	3333.4	2350.4	711.7	411.9	369.5	340.9	309.8	281.2	258.8	247.6	242.6
32.5°	3287.3	2182.4	561.2	367.1	331.0	296.1	261.3	232.7	207.8	196.6	194.1
35°	3279.9	2041.8	459.1	329.7	296.1	258.8	222.7	191.6	170.5	159.3	156.8
37.5°	3333.4	1933.6	384.5	299.9	267.5	226.5	186.6	158.0	139.4	130.6	129.4
40°	3476.5	1865.2	333.5	275.0	241.4	196.6	159.3	134.4	115.7	107.0	107.0
42.5°	3749.0	1867.6	299.9	251.3	215.3	168.0	135.6	112.0	95.8	88.3	85.9
45°	4174.5	1952.2	271.2	227.7	190.4	145.6	115.7	92.1	75.9	69.7	69.7
47.5°	4744.4	2120.2	246.4	204.1	168.0	124.4	98.3	74.7	61.0	54.7	54.7
50°	5489.7	2390.2	225.2	184.2	149.3	107.0	79.6	61.0	47.3	42.3	41.1
52.5°	6268.6	2723.7	200.3	166.7	128.2	90.8	64.7	47.3	36.1	32.4	31.1
55°	7128.4	3049.7	176.7	149.3	104.5	75.9	51.0	37.3	26.1	22.4	22.4
57.5°	7995.6	3369.5	148.1	124.4	82.1	56.0	39.8	27.4	17.4	13.7	13.7
60°	8729.7	3472.7	125.7	100.8	62.2	39.8	28.6	17.4	10.0	6.2	6.2
62.5°	8830.5	3124.3	105.8	77.1	44.8	27.4	14.9	10.0	3.7	2.5	2.5
65°	8283.1	2538.3	88.3	58.5	29.9	13.7	6.2	3.7	1.2	0.0	0.0
67°	7422.0	2058.0	72.2	43.5	21.2	8.7	3.7	1.2	0.0	0.0	0.0
67.5°	7201.8	1962.2	69.7	41.1	18.7	7.5	2.5	1.2	0.0	0.0	0.0
70°	5651.4	1469.5	49.8	24.9	11.2	5.0	0.0	0.0	0.0	0.0	0.0
72.5°	3512.6	831.2	36.1	14.9	7.5	2.5	0.0	0.0	0.0	0.0	0.0
75°	1327.6	291.2	24.9	10.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	413.1	110.7	14.9	7.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0
80°	139.4	42.3	10.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	85.9	17.4	6.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	53.5	7.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.0	2.5	1.2	0.0	0.0	0.0	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)