

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: P454896

Luminaire Tested: **GALN-SA6A-740-U-SL3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454896  
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-SA6A-740-U-SL3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 4000K, 615mA 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: 22432 lumens  
Efficiency: N/A  
Efficacy: 123.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

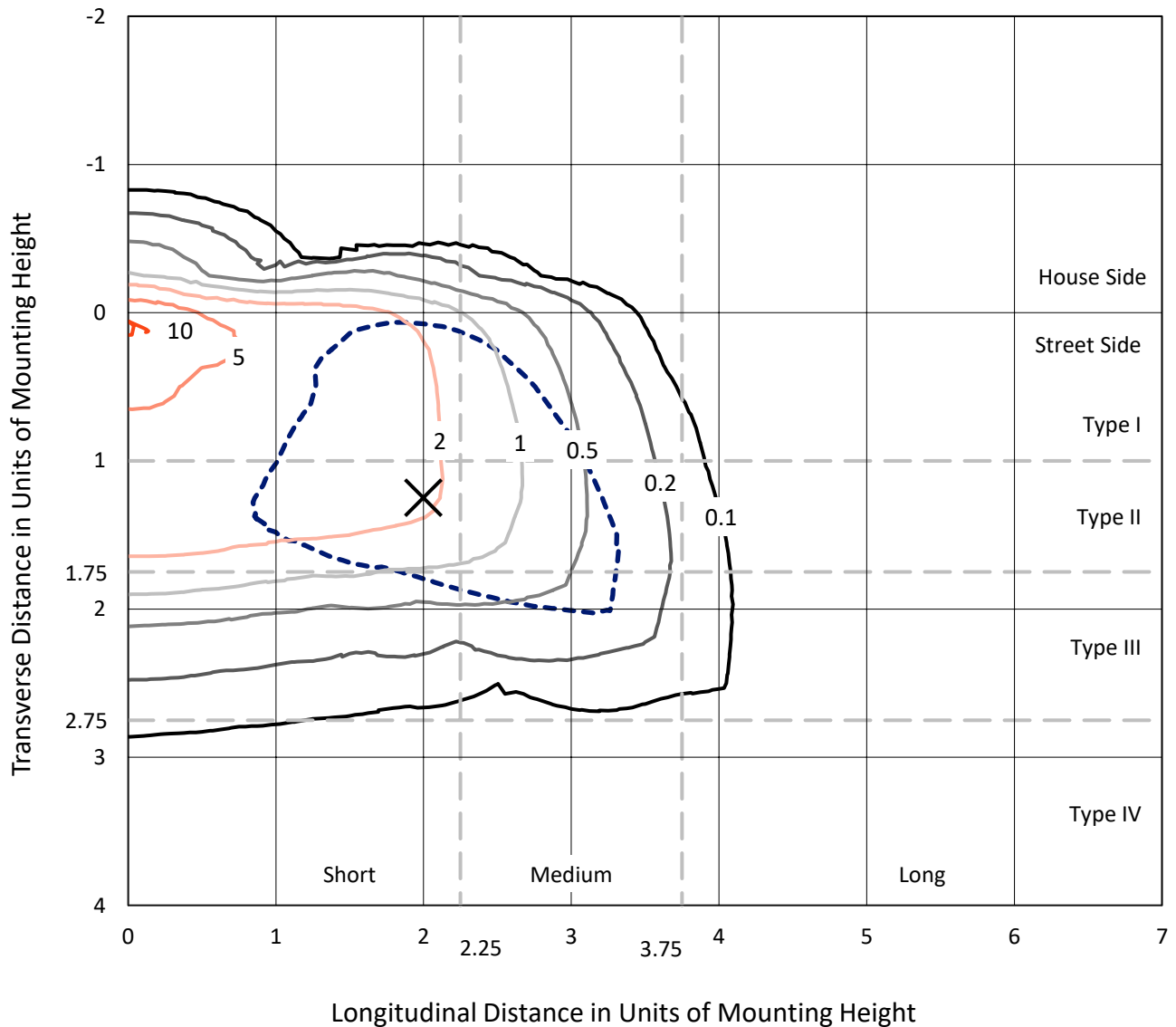
Input Watts (W): 182  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

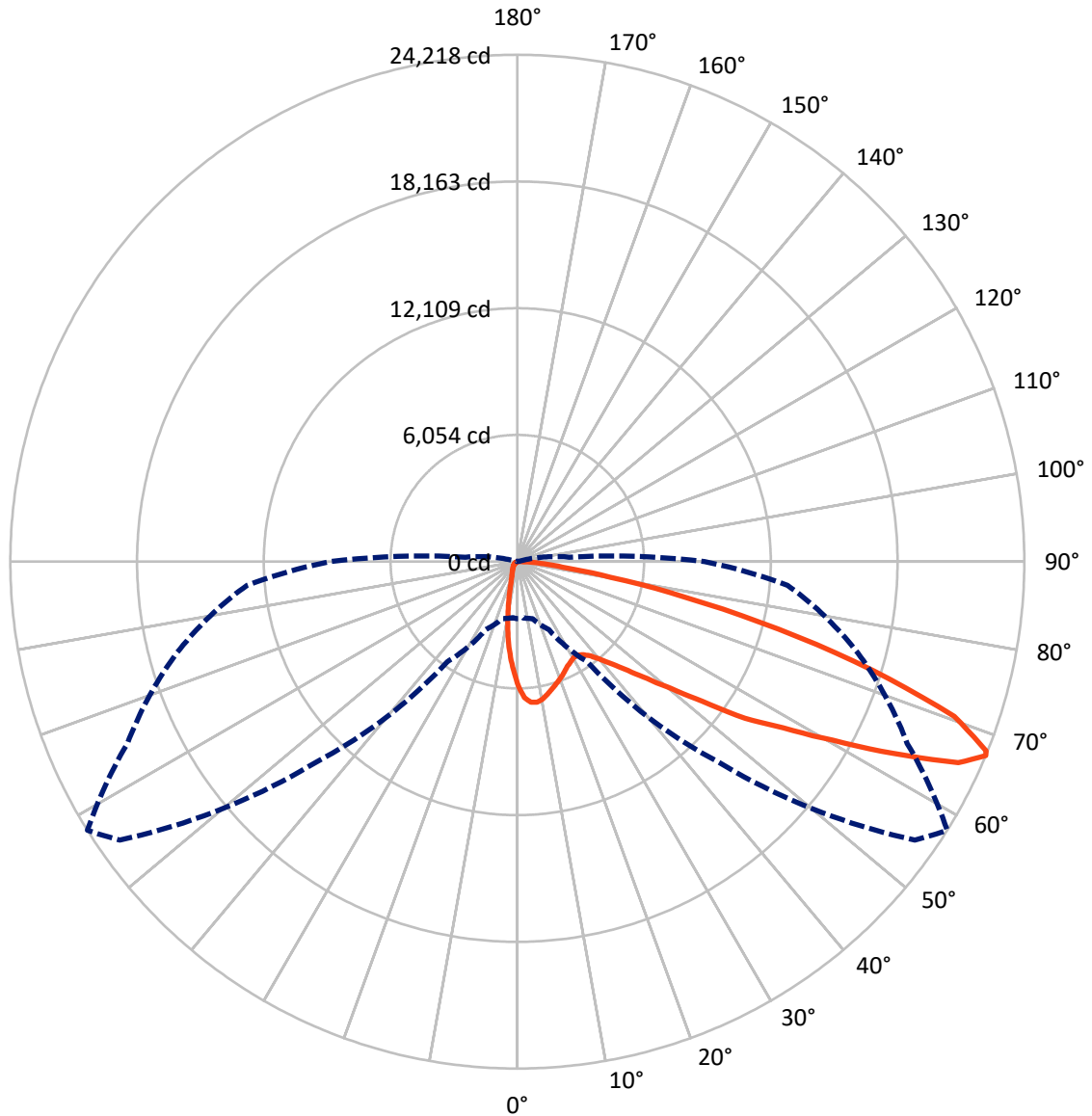
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 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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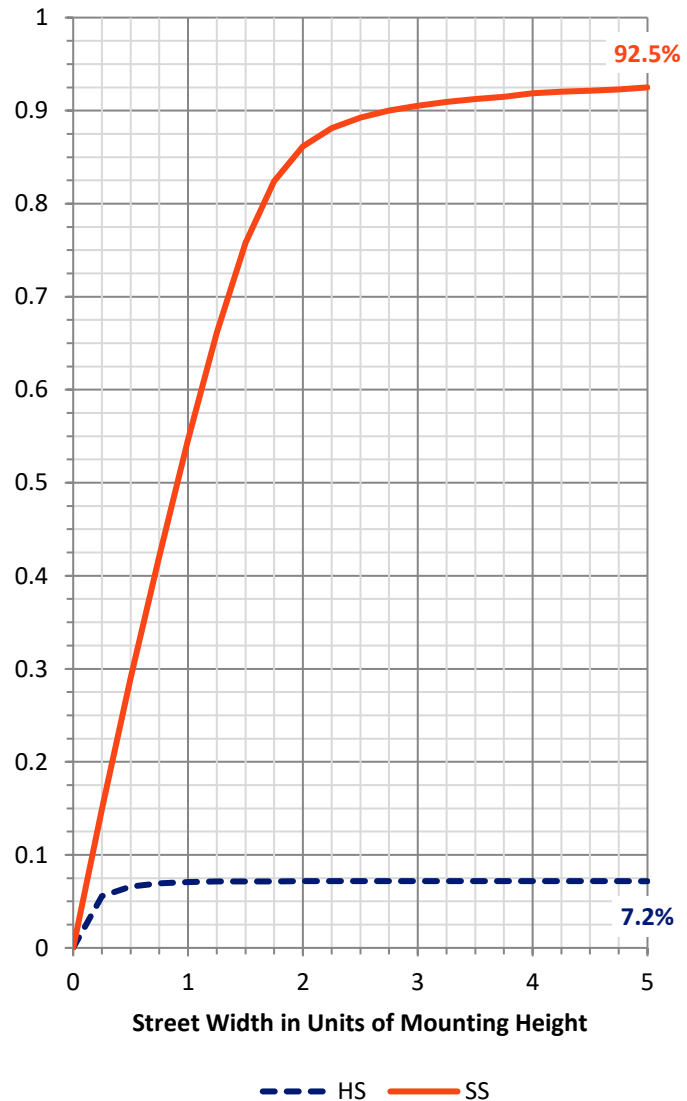
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1618.8	0.0	1618.8
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	20813.2	0.0	20813.2
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	22432.0	0.0	22432.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	482.5	2.2
10°-20°	1042.2	4.6
20°-30°	1412.2	6.3
30°-40°	1958.7	8.7
40°-50°	3123.9	13.9
50°-60°	5399.9	24.1
60°-70°	6168.3	27.5
70°-80°	2571.6	11.5
80°-90°	272.7	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°	22432.0	100.0
0°-180°	22432.0	100.0



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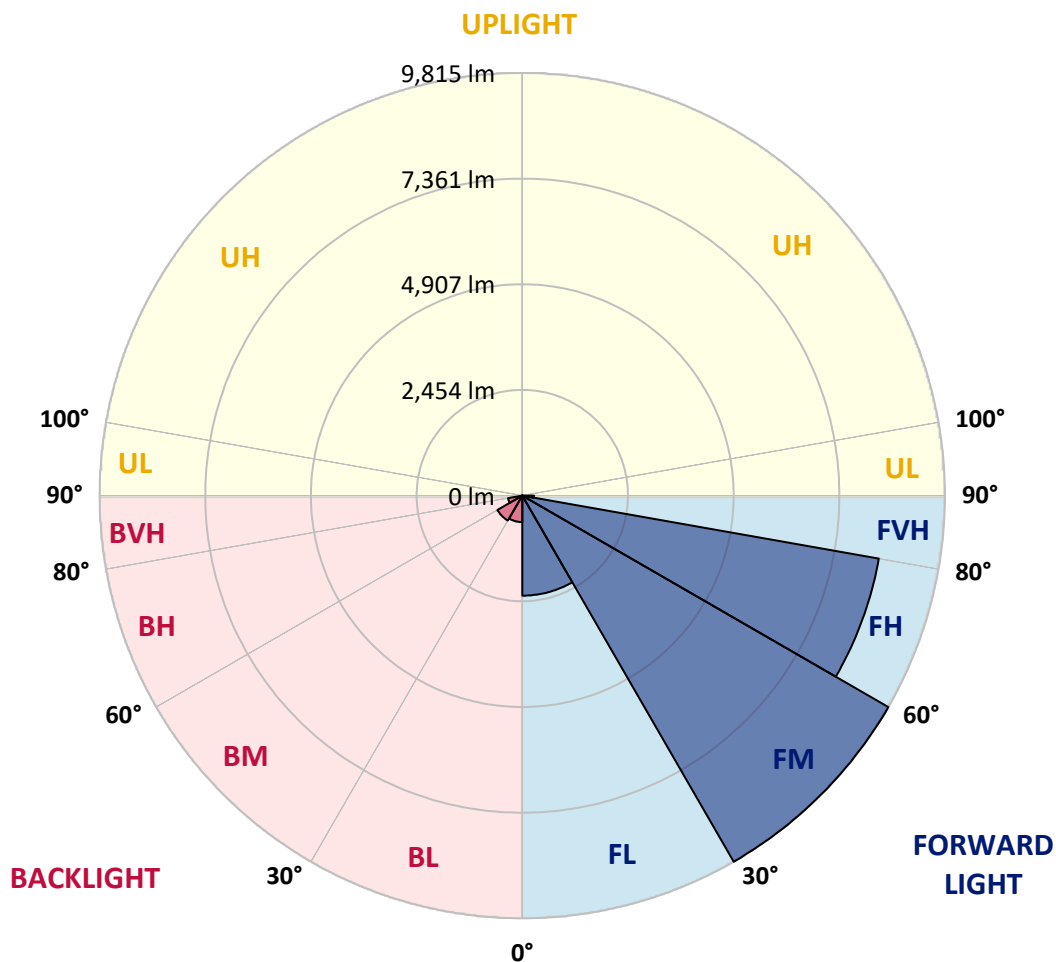
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2322.3	10.4			
FM	(30°-60°)	9814.9	43.8			
FH	(60°-80°)	8405.3	37.5			G4/12000
FVH	(80°-90°)	270.7	1.2			G3/500
BL	(0°-30°)	614.7	2.7	B2/1000		
BM	(30°-60°)	667.5	3.0	B1/1000		
BH	(60°-80°)	334.7	1.5	B1/500		G1/500
BVH	(80°-90°)	2.0	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°	45°	55°	58°	65°	75°	85°
0°	5946.5	5946.5	5946.5	5946.5	5946.5	5946.5	5946.5	5946.5	5946.5	5946.5	5946.5
2.5°	6901.4	6911.9	6872.9	6841.4	6760.5	6673.5	6558.1	6496.6	6391.7	6210.3	6009.5
5°	7063.3	7076.8	7070.8	7063.3	7031.8	6947.8	6800.9	6747.0	6592.6	6297.3	5934.5
7.5°	6703.5	6753.0	6759.0	6817.4	6872.9	6880.4	6824.9	6784.5	6642.1	6295.8	5801.1
10°	6226.8	6259.8	6307.8	6375.2	6508.6	6619.6	6673.5	6667.5	6585.1	6249.3	5645.2
12.5°	5745.7	5763.6	5837.1	5952.5	6115.9	6304.8	6448.7	6477.2	6478.7	6193.9	5514.8
15°	5331.9	5324.4	5381.4	5514.8	5744.2	5981.0	6238.8	6283.8	6355.7	6139.9	5393.4
17.5°	4978.2	5017.1	5026.1	5173.0	5384.4	5691.7	6020.0	6099.4	6243.3	6093.4	5293.0
20°	4759.3	4780.3	4799.8	4882.2	5072.6	5396.4	5814.6	5924.0	6138.4	6051.4	5180.5
22.5°	4694.9	4708.3	4691.9	4717.3	4852.3	5140.1	5591.3	5736.7	6038.0	6012.5	5089.1
25°	4744.3	4757.8	4718.8	4688.9	4735.3	4931.7	5375.4	5552.3	5957.0	6005.0	5020.1
27.5°	4864.2	4889.7	4835.8	4781.8	4754.8	4819.3	5206.0	5411.4	5901.5	6041.0	4988.7
30°	5051.6	5066.6	5026.1	4960.2	4898.7	4834.3	5117.6	5313.9	5886.6	6124.9	4985.7
32.5°	5255.5	5287.0	5264.5	5221.0	5141.6	4988.7	5143.1	5316.9	5922.5	6246.3	5023.1
35°	5507.3	5543.3	5564.3	5555.3	5453.3	5263.0	5304.9	5451.8	6018.5	6469.7	5125.1
37.5°	5754.6	5786.1	5904.5	5945.0	5855.1	5675.2	5619.7	5717.2	6229.8	6762.0	5309.4
40°	6038.0	6079.9	6246.3	6400.7	6357.2	6168.4	6066.4	6147.4	6553.6	7202.7	5658.7
42.5°	6309.3	6384.2	6637.6	6910.4	6950.8	6739.5	6672.0	6699.0	7033.3	7836.8	6145.9
45°	6694.5	6765.0	7091.8	7462.0	7652.4	7487.5	7418.5	7414.0	7691.3	8728.7	6935.9
47.5°	7250.6	7313.6	7698.8	8064.6	8403.4	8425.9	8295.4	8340.4	8518.8	9772.0	7904.2
50°	7932.7	8081.1	8334.4	8715.2	9167.9	9533.6	9574.1	9514.1	9667.0	10980.1	9067.4
52.5°	8923.5	8980.5	9212.8	9526.1	10056.8	10677.3	11158.5	11076.1	11028.1	12131.4	10242.6
55°	9662.5	9739.0	10100.2	10530.4	11308.4	12126.9	13170.2	13198.7	12593.1	13237.6	11392.4
57.5°	9439.2	9556.1	10103.2	10968.2	12678.5	14174.5	14951.0	14970.5	14041.1	14312.4	12690.5
60°	8292.4	8347.9	9131.9	10286.1	12795.4	16393.0	17476.8	17319.4	15514.6	15514.6	13837.2
62.5°	5880.6	5967.5	6603.1	8301.4	11555.8	17163.5	20501.8	20176.5	17544.2	16664.3	14520.8
65°	3758.0	3674.0	4095.3	5240.5	8608.7	16025.8	23135.5	23155.0	19454.0	17124.5	14147.5
67°	2722.2	2689.2	2810.6	3582.6	5837.1	13471.5	23191.0	24217.8	20551.2	16833.7	12954.3
67.5°	2489.8	2515.3	2603.8	3231.8	5303.4	12258.8	22939.1	24154.8	20798.6	16658.3	12522.6
70°	1887.2	1843.8	1939.7	2286.0	3179.4	7733.3	19732.8	22153.7	20491.3	14918.0	10005.8
72.5°	1388.1	1383.6	1517.0	1869.2	2447.9	4119.2	14813.1	17763.1	16740.8	11359.4	6300.3
75°	936.9	978.8	1191.7	1562.0	2218.5	2671.2	10098.7	12886.9	11621.7	6450.2	2575.3
77.5°	533.6	536.6	767.5	1254.7	1992.2	2149.6	5984.0	8210.0	6151.9	2145.1	764.5
80°	230.8	253.3	380.7	911.4	1651.9	1903.7	3431.2	4512.0	2488.3	454.2	247.3
82.5°	85.4	100.4	167.9	560.6	1205.2	1567.9	2073.1	2154.1	843.9	160.4	154.4
85°	0.0	3.0	61.5	262.3	628.1	700.0	1385.1	1277.1	373.3	76.4	100.4
87.5°	0.0	0.0	0.0	27.0	82.4	260.8	430.2	479.7	89.9	27.0	24.0
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°	5946.5	5946.5	5946.5	5946.5	5946.5	5946.5	5946.5	5946.5	5946.5	5946.5	5946.5
2.5°	5901.5	5804.1	5559.8	5315.4	5134.1	4982.7	4754.8	4630.4	4564.4	4467.0	4473.0
5°	5753.1	5555.3	5125.1	4679.9	4320.1	3969.3	3549.6	3380.2	3237.8	3156.9	3102.9
7.5°	5532.8	5240.5	4603.4	4009.8	3456.7	2843.6	2383.4	2076.1	1869.2	1792.8	1719.3
10°	5291.5	4903.2	4074.3	3251.3	2483.8	1851.3	1461.5	1179.7	1079.3	986.3	995.3
12.5°	5068.1	4595.9	3588.6	2566.3	1740.3	1176.7	917.4	802.0	769.0	758.5	758.5
15°	4885.2	4302.1	3066.9	1929.2	1193.2	845.4	734.5	703.0	691.0	688.0	688.0
17.5°	4690.4	4023.3	2596.3	1425.5	867.9	707.5	670.1	649.1	644.6	641.6	641.6
20°	4516.5	3743.0	2149.6	1061.3	701.5	637.1	613.1	599.6	595.1	592.1	593.6
22.5°	4351.6	3494.2	1729.8	802.0	617.6	580.1	556.1	542.6	533.6	526.1	527.6
25°	4204.7	3254.3	1391.1	656.6	556.1	523.1	499.2	479.7	460.2	451.2	449.7
27.5°	4101.3	3044.5	1083.8	562.1	500.7	464.7	434.7	410.7	385.2	371.8	368.8
30°	4015.8	2831.6	857.4	496.2	445.2	410.7	373.3	338.8	311.8	298.3	292.3
32.5°	3960.3	2629.2	676.0	442.2	398.7	356.8	314.8	280.3	250.3	236.8	233.8
35°	3951.4	2459.9	553.1	397.2	356.8	311.8	268.3	230.8	205.4	191.9	188.9
37.5°	4015.8	2329.4	463.2	361.3	322.3	272.8	224.8	190.4	167.9	157.4	155.9
40°	4188.2	2247.0	401.7	331.3	290.8	236.8	191.9	161.9	139.4	128.9	128.9
42.5°	4516.5	2250.0	361.3	302.8	259.3	202.4	163.4	134.9	115.4	106.4	103.4
45°	5029.1	2351.9	326.8	274.3	229.3	175.4	139.4	110.9	91.4	83.9	83.9
47.5°	5715.7	2554.3	296.8	245.8	202.4	149.9	118.4	89.9	73.5	66.0	66.0
50°	6613.6	2879.6	271.3	221.9	179.9	128.9	95.9	73.5	57.0	51.0	49.5
52.5°	7551.9	3281.3	241.3	200.9	154.4	109.4	77.9	57.0	43.5	39.0	37.5
55°	8587.7	3674.0	212.9	179.9	125.9	91.4	61.5	45.0	31.5	27.0	27.0
57.5°	9632.5	4059.3	178.4	149.9	98.9	67.5	48.0	33.0	21.0	16.5	16.5
60°	10517.0	4183.7	151.4	121.4	74.9	48.0	34.5	21.0	12.0	7.5	7.5
62.5°	10638.4	3764.0	127.4	92.9	54.0	33.0	18.0	12.0	4.5	3.0	3.0
65°	9978.8	3058.0	106.4	70.5	36.0	16.5	7.5	4.5	1.5	0.0	0.0
67°	8941.5	2479.3	86.9	52.5	25.5	10.5	4.5	1.5	0.0	0.0	0.0
67.5°	8676.2	2363.9	83.9	49.5	22.5	9.0	3.0	1.5	0.0	0.0	0.0
70°	6808.4	1770.3	60.0	30.0	13.5	6.0	0.0	0.0	0.0	0.0	0.0
72.5°	4231.7	1001.3	43.5	18.0	9.0	3.0	0.0	0.0	0.0	0.0	0.0
75°	1599.4	350.8	30.0	12.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	497.7	133.4	18.0	9.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	167.9	51.0	12.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	103.4	21.0	7.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	64.5	9.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.0	3.0	1.5	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)