

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: P453446

Luminaire Tested: **GALN-SA4C-727-U-SL3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P453446  
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-SA4C-727-U-SL3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 2700K, 1050mA 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: 19240 lumens  
Efficiency: N/A  
Efficacy: 90.3 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): 213  
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

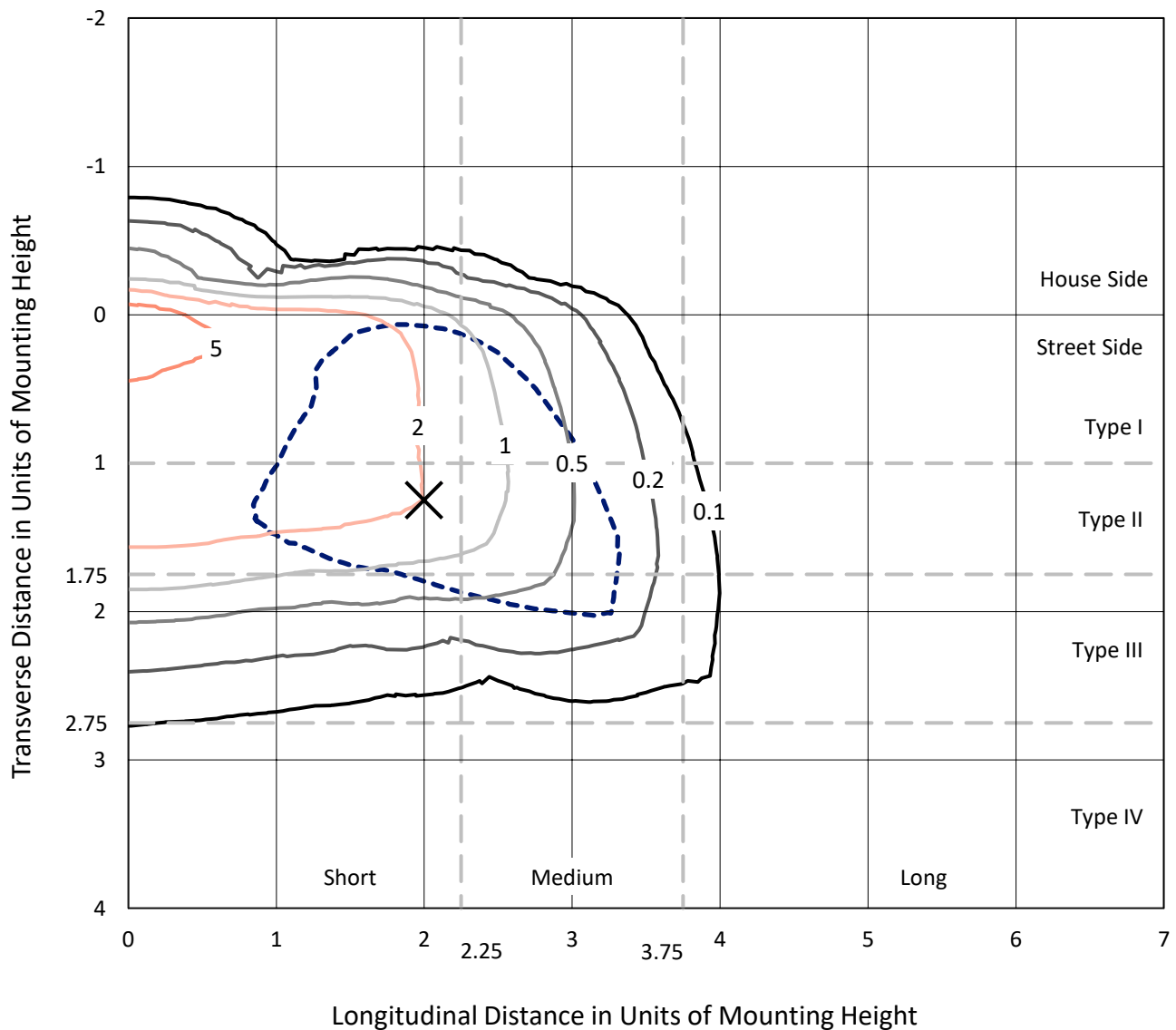


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## Iso-Footcandle Lines of Horizontal Illumination

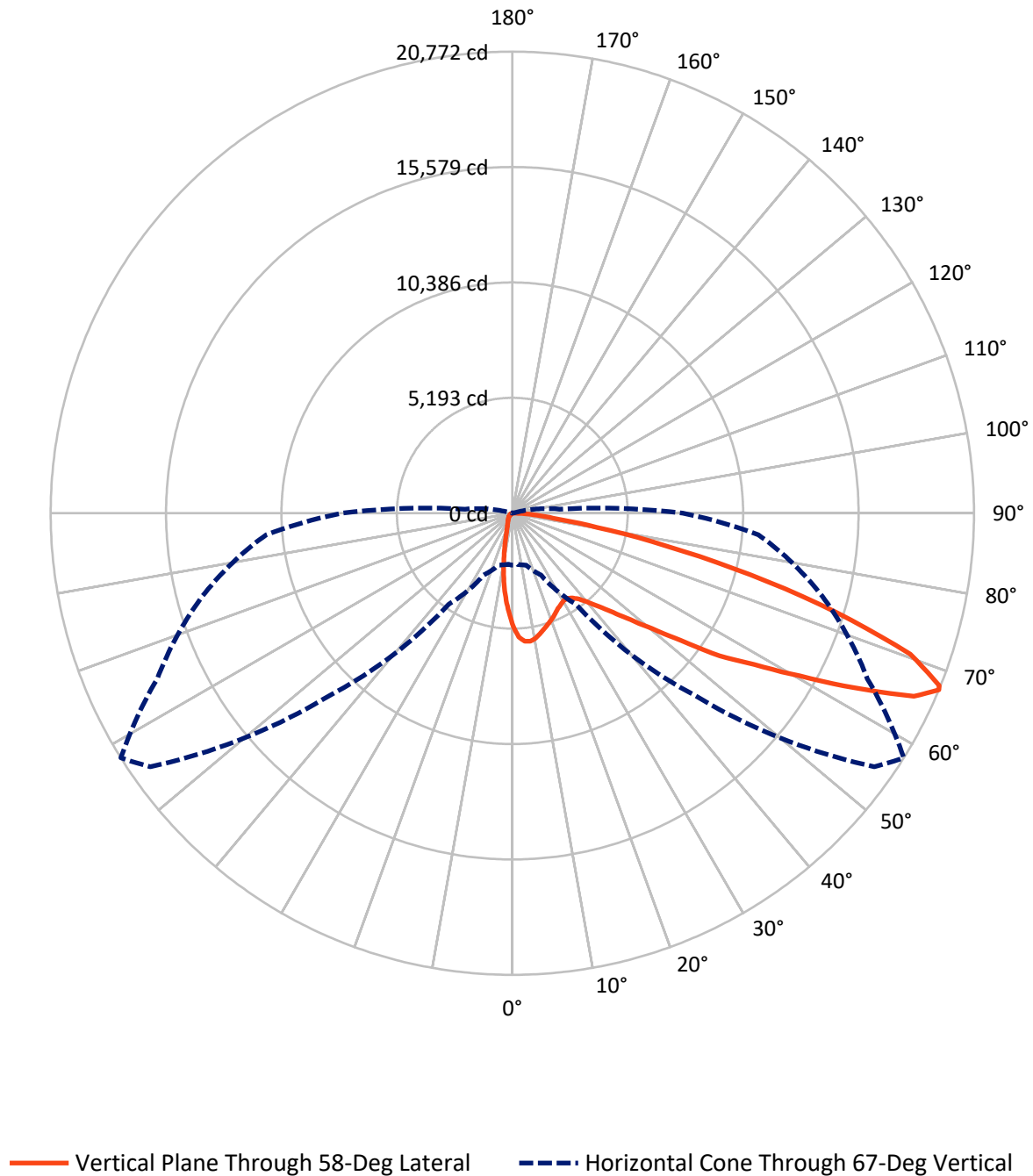
× Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc  
Type III - Short - N/A

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## Luminous Intensity Polar Plot



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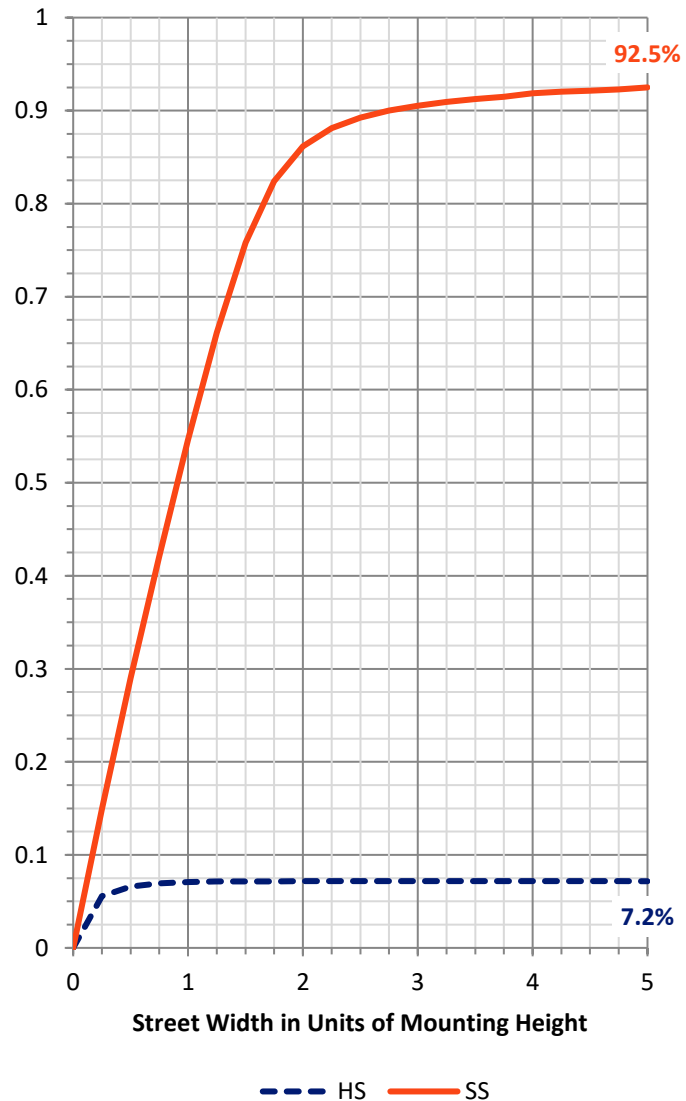
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1388.5	0.0	1388.5
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	17851.5	0.0	17851.5
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	19240.0	0.0	19240.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	413.9	2.2
10°-20°	893.9	4.6
20°-30°	1211.3	6.3
30°-40°	1680.0	8.7
40°-50°	2679.4	13.9
50°-60°	4631.5	24.1
60°-70°	5290.6	27.5
70°-80°	2205.7	11.5
80°-90°	233.9	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°	19240.0	100.0
0°-180°	19240.0	100.0

**Coefficient of Utilization**



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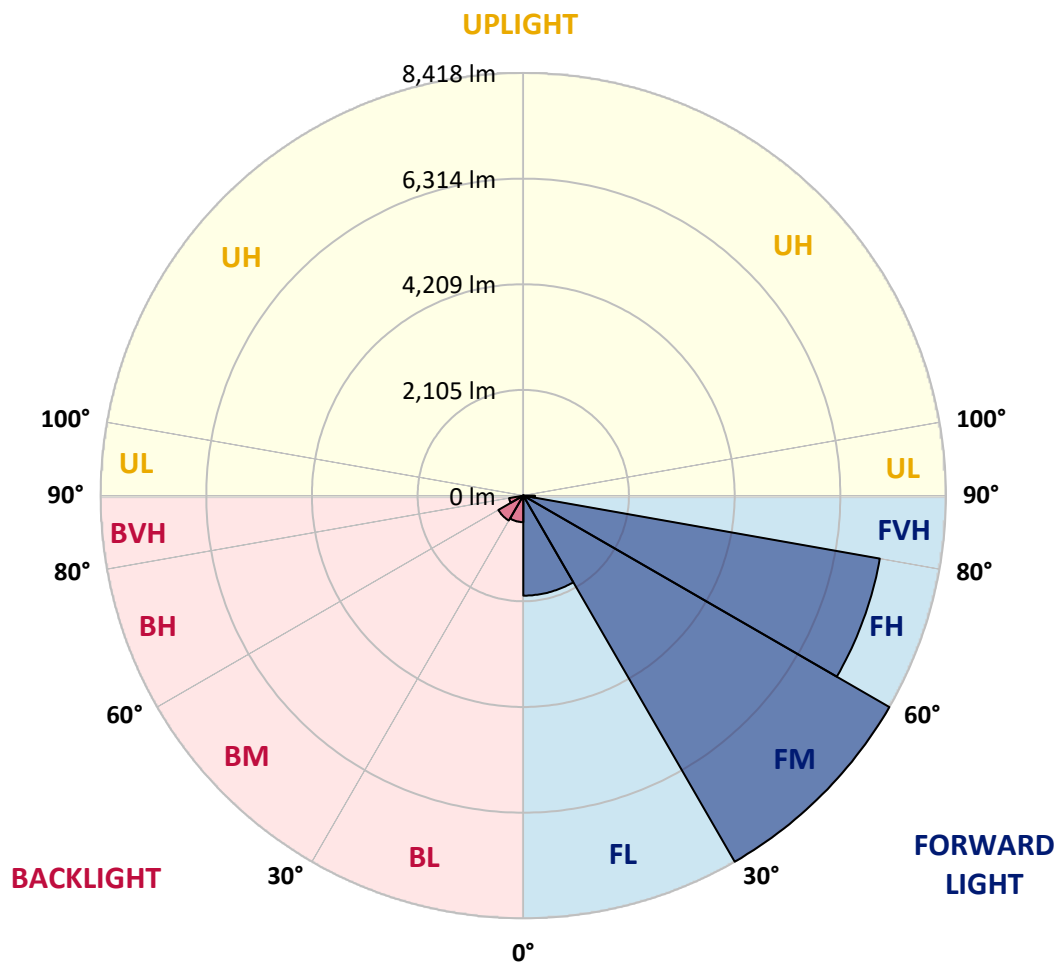
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1991.8	10.4			
FM	(30°-60°)	8418.3	43.8			
FH	(60°-80°)	7209.3	37.5			G3/7500
FVH	(80°-90°)	232.2	1.2			G3/500
BL	(0°-30°)	527.2	2.7	B2/1000		
BM	(30°-60°)	572.5	3.0	B1/1000		
BH	(60°-80°)	287.0	1.5	B1/500		G1/500
BVH	(80°-90°)	1.7	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°	5100.3	5100.3	5100.3	5100.3	5100.3	5100.3	5100.3	5100.3	5100.3	5100.3	5100.3
2.5°	5919.3	5928.3	5894.9	5867.9	5798.5	5723.9	5624.9	5572.2	5482.2	5326.6	5154.3
5°	6058.2	6069.8	6064.6	6058.2	6031.2	5959.2	5833.2	5786.9	5654.5	5401.2	5090.1
7.5°	5749.6	5792.1	5797.2	5847.3	5894.9	5901.3	5853.8	5819.1	5696.9	5399.9	4975.6
10°	5340.8	5369.1	5410.2	5468.1	5582.5	5677.6	5723.9	5718.8	5648.1	5360.1	4841.9
12.5°	4928.1	4943.5	5006.5	5105.5	5245.6	5407.6	5531.1	5555.5	5556.8	5312.5	4730.1
15°	4573.2	4566.8	4615.6	4730.1	4926.8	5129.9	5351.1	5389.6	5451.3	5266.2	4625.9
17.5°	4269.8	4303.2	4310.9	4436.9	4618.2	4881.8	5163.3	5231.5	5354.9	5226.3	4539.8
20°	4082.1	4100.1	4116.8	4187.5	4350.8	4628.5	4987.2	5081.1	5264.9	5190.3	4443.4
22.5°	4026.8	4038.4	4024.2	4046.1	4161.8	4408.6	4795.6	4920.4	5178.8	5156.9	4364.9
25°	4069.2	4080.8	4047.4	4021.7	4061.5	4229.9	4610.5	4762.2	5109.3	5150.5	4305.8
27.5°	4172.1	4193.9	4147.6	4101.4	4078.2	4133.5	4465.2	4641.4	5061.8	5181.3	4278.8
30°	4332.8	4345.6	4310.9	4254.4	4201.6	4146.4	4389.4	4557.8	5048.9	5253.3	4276.2
32.5°	4507.6	4534.6	4515.4	4478.1	4409.9	4278.8	4411.2	4560.4	5079.8	5357.5	4308.4
35°	4723.6	4754.5	4772.5	4764.8	4677.4	4514.1	4550.1	4676.1	5162.1	5549.1	4395.8
37.5°	4935.8	4962.8	5064.3	5099.1	5021.9	4867.6	4820.1	4903.6	5343.3	5799.8	4553.9
40°	5178.8	5214.8	5357.5	5489.9	5452.6	5290.6	5203.2	5272.6	5621.1	6177.8	4853.5
42.5°	5411.5	5475.8	5693.1	5927.0	5961.8	5780.5	5722.6	5745.8	6032.5	6721.6	5271.3
45°	5741.9	5802.3	6082.6	6400.2	6563.5	6422.0	6362.9	6359.0	6596.9	7486.6	5948.9
47.5°	6218.9	6272.9	6603.3	6917.0	7207.6	7226.9	7115.0	7153.6	7306.6	8381.4	6779.5
50°	6803.9	6931.2	7148.5	7475.0	7863.3	8177.0	8211.7	8160.3	8291.4	9417.7	7777.2
52.5°	7653.7	7702.6	7901.9	8170.6	8625.7	9158.0	9570.7	9500.0	9458.8	10405.1	8785.1
55°	8287.6	8353.2	8663.0	9032.0	9699.3	10401.3	11296.1	11320.5	10801.1	11354.0	9771.3
57.5°	8096.0	8196.3	8665.6	9407.4	10874.4	12157.5	12823.5	12840.2	12043.1	12275.8	10884.7
60°	7112.5	7160.0	7832.4	8822.4	10974.7	14060.3	14989.9	14854.9	13306.9	13306.9	11868.2
62.5°	5043.8	5118.3	5663.5	7120.2	9911.4	14721.2	17584.4	17305.4	15047.8	14293.1	12454.5
65°	3223.2	3151.2	3512.5	4494.8	7383.7	13745.4	19843.4	19860.1	16685.7	14687.8	12134.4
67°	2334.8	2306.5	2410.7	3072.8	5006.5	11554.5	19891.0	20771.7	17626.9	14438.3	11111.0
67.5°	2135.5	2157.4	2233.3	2772.0	4548.8	10514.4	19675.0	20717.7	17839.0	14287.9	10740.7
70°	1618.7	1581.4	1663.7	1960.7	2727.0	6632.9	16924.9	19001.3	17575.4	12795.2	8582.0
72.5°	1190.6	1186.7	1301.1	1603.3	2099.5	3533.1	12705.2	15235.5	14358.6	9743.0	5403.8
75°	803.6	839.6	1022.1	1339.7	1902.8	2291.1	8661.7	11053.1	9968.0	5532.3	2208.8
77.5°	457.7	460.3	658.3	1076.1	1708.7	1843.7	5132.5	7041.7	5276.5	1839.8	655.7
80°	198.0	217.3	326.6	781.7	1416.8	1632.8	2943.0	3869.9	2134.3	389.6	212.1
82.5°	73.3	86.1	144.0	480.8	1033.7	1344.8	1778.1	1847.5	723.8	137.6	132.4
85°	0.0	2.6	52.7	225.0	538.7	600.4	1188.0	1095.4	320.1	65.6	86.1
87.5°	0.0	0.0	0.0	23.1	70.7	223.7	369.0	411.4	77.1	23.1	20.6
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°	5100.3	5100.3	5100.3	5100.3	5100.3	5100.3	5100.3	5100.3	5100.3	5100.3	5100.3
2.5°	5061.8	4978.2	4768.6	4559.1	4403.5	4273.6	4078.2	3971.5	3914.9	3831.4	3836.5
5°	4934.5	4764.8	4395.8	4013.9	3705.4	3404.5	3044.5	2899.2	2777.1	2707.7	2661.4
7.5°	4745.5	4494.8	3948.4	3439.2	2964.8	2439.0	2044.3	1780.7	1603.3	1537.7	1474.7
10°	4538.5	4205.5	3494.5	2788.7	2130.4	1587.8	1253.6	1011.8	925.7	846.0	853.7
12.5°	4346.9	3941.9	3078.0	2201.1	1492.7	1009.3	786.8	687.8	659.6	650.6	650.6
15°	4190.1	3689.9	2630.5	1654.7	1023.4	725.1	630.0	603.0	592.7	590.1	590.1
17.5°	4022.9	3450.8	2226.8	1222.7	744.4	606.8	574.7	556.7	552.8	550.3	550.3
20°	3873.8	3210.4	1843.7	910.3	601.7	546.4	525.8	514.3	510.4	507.8	509.1
22.5°	3732.4	2997.0	1483.7	687.8	529.7	497.6	477.0	465.4	457.7	451.3	452.6
25°	3606.4	2791.2	1193.1	563.1	477.0	448.7	428.1	411.4	394.7	387.0	385.7
27.5°	3517.7	2611.2	929.6	482.1	429.4	398.6	372.9	352.3	330.4	318.9	316.3
30°	3444.4	2428.7	735.4	425.6	381.9	352.3	320.1	290.6	267.4	255.9	250.7
32.5°	3396.8	2255.1	579.8	379.3	342.0	306.0	270.0	240.4	214.7	203.1	200.6
35°	3389.1	2109.8	474.4	340.7	306.0	267.4	230.1	198.0	176.1	164.6	162.0
37.5°	3444.4	1998.0	397.3	309.9	276.4	234.0	192.9	163.3	144.0	135.0	133.7
40°	3592.2	1927.3	344.6	284.1	249.4	203.1	164.6	138.9	119.6	110.6	110.6
42.5°	3873.8	1929.8	309.9	259.7	222.4	173.6	140.1	115.7	99.0	91.3	88.7
45°	4313.5	2017.3	280.3	235.3	196.7	150.4	119.6	95.1	78.4	72.0	72.0
47.5°	4902.4	2190.8	254.6	210.9	173.6	128.6	101.6	77.1	63.0	56.6	56.6
50°	5672.5	2469.8	232.7	190.3	154.3	110.6	82.3	63.0	48.9	43.7	42.4
52.5°	6477.3	2814.4	207.0	172.3	132.4	93.9	66.9	48.9	37.3	33.4	32.1
55°	7365.7	3151.2	182.6	154.3	108.0	78.4	52.7	38.6	27.0	23.1	23.1
57.5°	8261.9	3481.7	153.0	128.6	84.9	57.9	41.1	28.3	18.0	14.1	14.1
60°	9020.4	3588.4	129.9	104.1	64.3	41.1	29.6	18.0	10.3	6.4	6.4
62.5°	9124.6	3228.4	109.3	79.7	46.3	28.3	15.4	10.3	3.9	2.6	2.6
65°	8558.9	2622.8	91.3	60.4	30.9	14.1	6.4	3.9	1.3	0.0	0.0
67°	7669.2	2126.5	74.6	45.0	21.9	9.0	3.9	1.3	0.0	0.0	0.0
67.5°	7441.6	2027.5	72.0	42.4	19.3	7.7	2.6	1.3	0.0	0.0	0.0
70°	5839.6	1518.4	51.4	25.7	11.6	5.1	0.0	0.0	0.0	0.0	0.0
72.5°	3629.5	858.8	37.3	15.4	7.7	2.6	0.0	0.0	0.0	0.0	0.0
75°	1371.8	300.9	25.7	10.3	5.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	426.9	114.4	15.4	7.7	2.6	0.0	0.0	0.0	0.0	0.0	0.0
80°	144.0	43.7	10.3	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	88.7	18.0	6.4	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	55.3	7.7	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.3	2.6	1.3	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)