

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: P458985

Luminaire Tested: **GALN-SA5A-735-U-SL3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458985  
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-SA5A-735-U-SL3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3500K, 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: 17648 lumens  
Efficiency: N/A  
Efficacy: 114.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G3

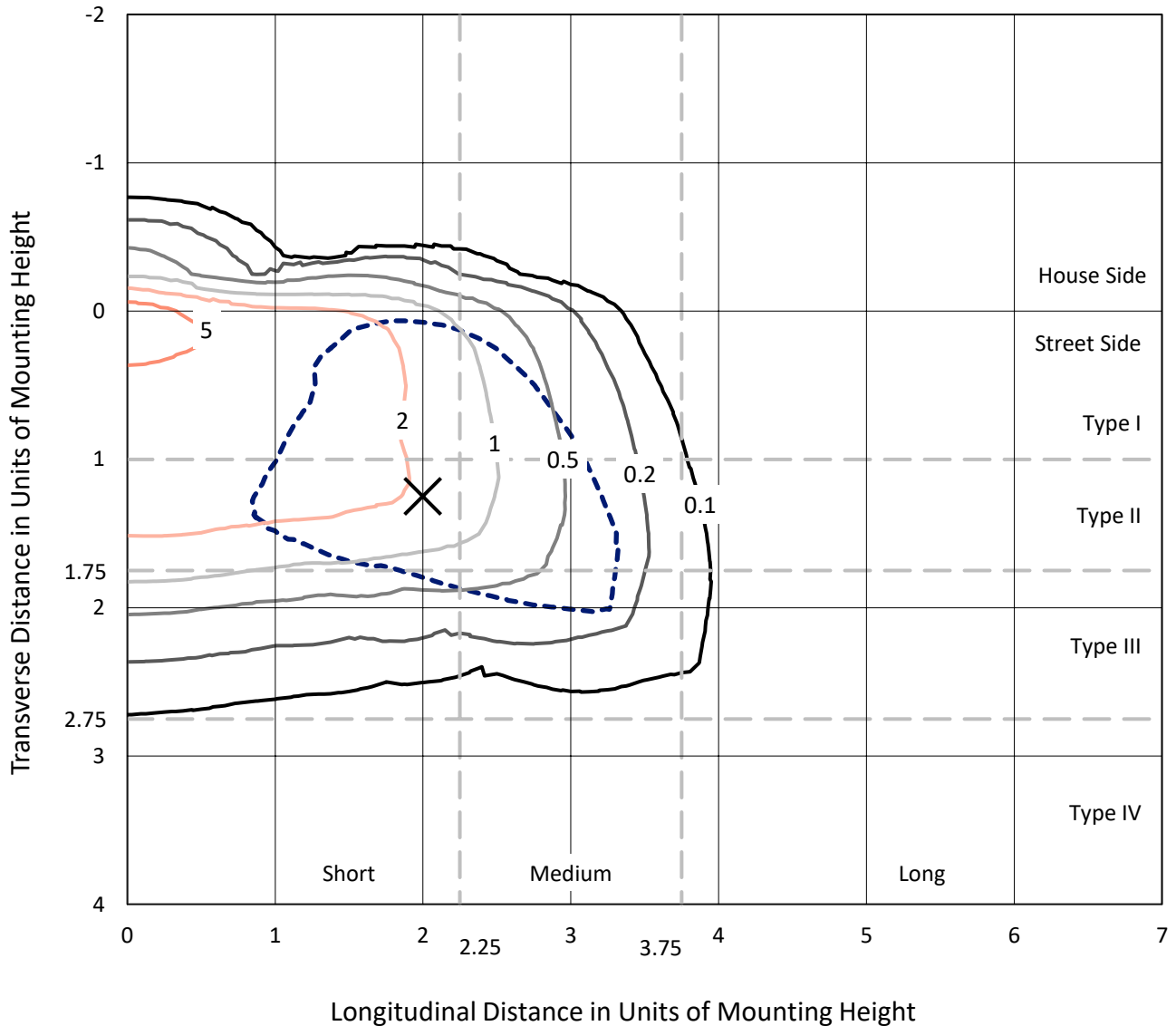
Input Watts (W): 154  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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 CATALOG NUMBER: GALN-SA5A-735-U-SL3-HSS

### Iso-Footcandle Lines of Horizontal Illumination

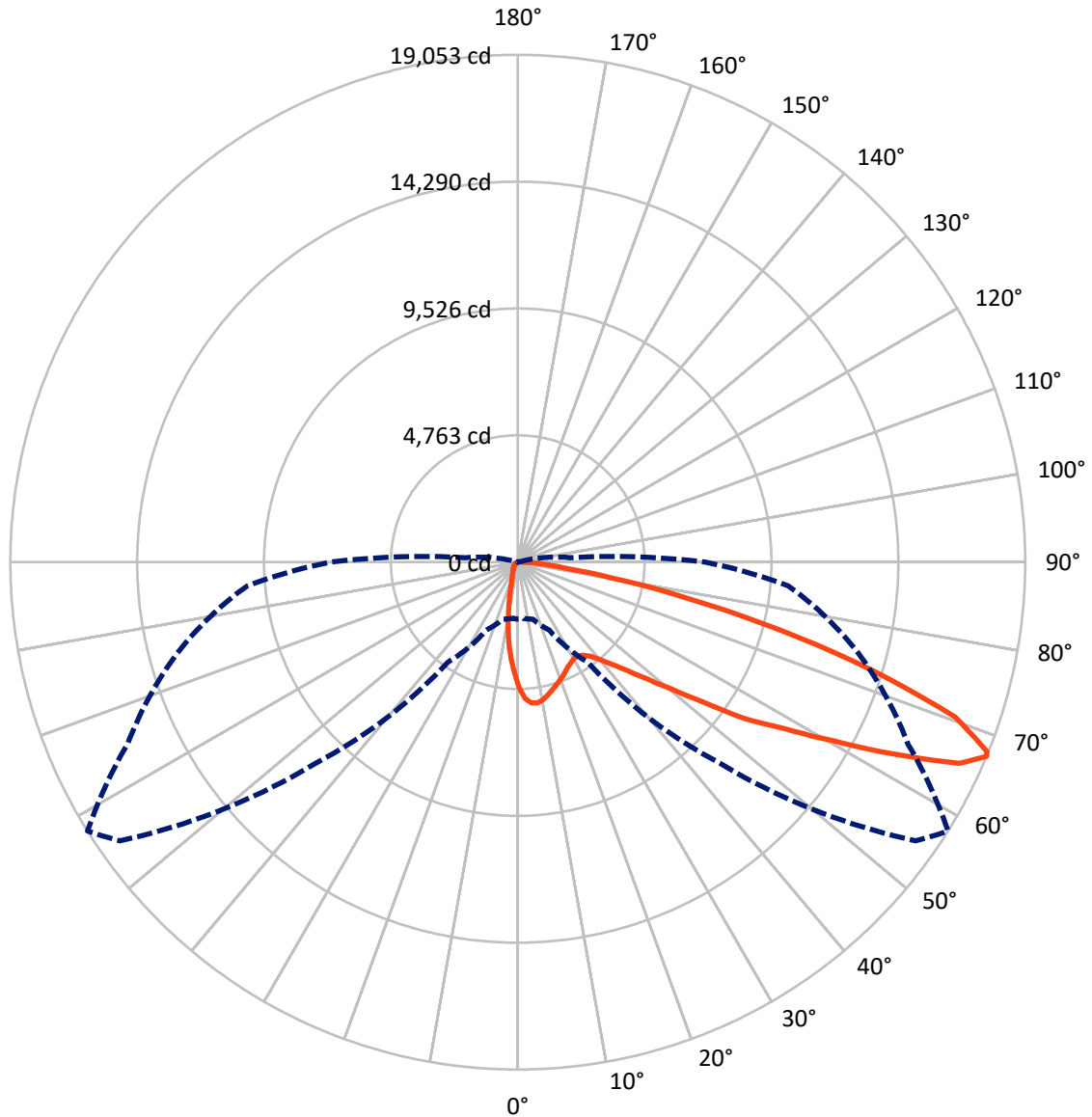
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc  
 Type III - Short - N/A

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CATALOG NUMBER: GALN-SA5A-735-U-SL3-HSS

### Luminous Intensity Polar Plot



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

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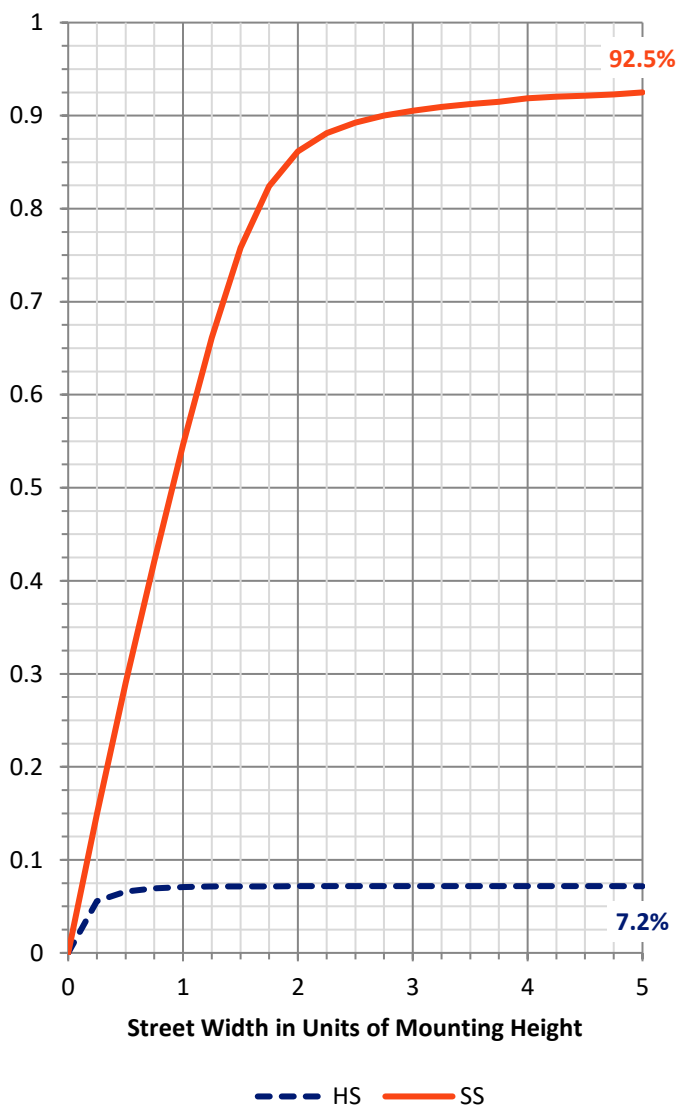
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1273.6	0.0	1273.6
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	16374.4	0.0	16374.4
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	17648.0	0.0	17648.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	379.6	2.2
10°-20°	819.9	4.6
20°-30°	1111.0	6.3
30°-40°	1541.0	8.7
40°-50°	2457.6	13.9
50°-60°	4248.3	24.1
60°-70°	4852.8	27.5
70°-80°	2023.2	11.5
80°-90°	214.5	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°	17648.0	100.0
0°-180°	17648.0	100.0



REPORT NUMBER: P458985

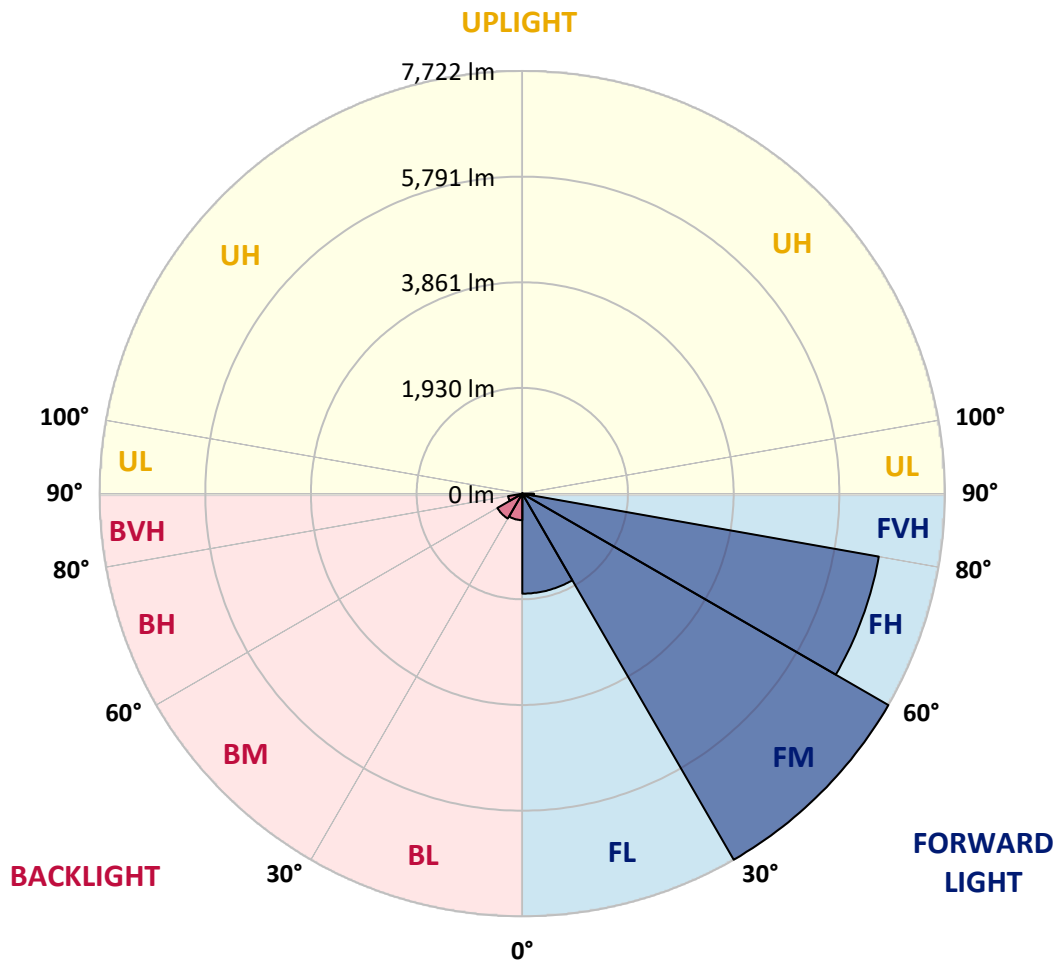
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1827.0	10.4			
FM (30°-60°)	7721.7	43.8			
FH (60°-80°)	6612.7	37.5			G3/7500
FVH (80°-90°)	213.0	1.2			G2/225
BL (0°-30°)	483.6	2.7	B1/500		
BM (30°-60°)	525.1	3.0	B1/1000		
BH (60°-80°)	263.3	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: B1-U0-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	4678.3	4678.3	4678.3	4678.3	4678.3	4678.3	4678.3	4678.3	4678.3	4678.3	4678.3
2.5°	5429.5	5437.8	5407.1	5382.4	5318.7	5250.3	5159.5	5111.1	5028.6	4885.9	4727.9
5°	5556.9	5567.5	5562.8	5556.9	5532.1	5466.1	5350.5	5308.1	5186.6	4954.3	4668.9
7.5°	5273.9	5312.8	5317.5	5363.5	5407.1	5413.0	5369.4	5337.6	5225.5	4953.1	4563.9
10°	4898.9	4924.8	4962.5	5015.6	5120.6	5207.8	5250.3	5245.6	5180.7	4916.5	4441.3
12.5°	4520.3	4534.4	4592.2	4683.0	4811.6	4960.2	5073.4	5095.8	5097.0	4872.9	4338.7
15°	4194.8	4188.9	4233.7	4338.7	4519.1	4705.4	4908.3	4943.7	5000.3	4830.5	4243.2
17.5°	3916.5	3947.2	3954.2	4069.8	4236.1	4477.8	4736.1	4798.6	4911.8	4793.9	4164.1
20°	3744.3	3760.8	3776.2	3841.0	3990.8	4245.5	4574.5	4660.6	4829.3	4760.9	4075.7
22.5°	3693.6	3704.2	3691.2	3711.3	3817.4	4043.9	4398.8	4513.2	4750.3	4730.2	4003.8
25°	3732.5	3743.1	3712.5	3688.9	3725.4	3879.9	4229.0	4368.2	4686.6	4724.3	3949.5
27.5°	3826.9	3846.9	3804.5	3762.0	3740.8	3791.5	4095.7	4257.3	4642.9	4752.6	3924.7
30°	3974.3	3986.1	3954.2	3902.3	3854.0	3803.3	4026.2	4180.7	4631.2	4818.7	3922.4
32.5°	4134.7	4159.4	4141.7	4107.5	4045.0	3924.7	4046.2	4183.0	4659.5	4914.2	3951.9
35°	4332.8	4361.1	4377.6	4370.5	4290.3	4140.6	4173.6	4289.2	4734.9	5089.9	4032.1
37.5°	4527.4	4552.1	4645.3	4677.1	4606.4	4464.9	4421.2	4497.9	4901.2	5319.9	4177.1
40°	4750.3	4783.3	4914.2	5035.7	5001.5	4852.9	4772.7	4836.4	5155.9	5666.6	4451.9
42.5°	4963.7	5022.7	5222.0	5436.6	5468.5	5302.2	5249.1	5270.3	5533.3	6165.4	4835.2
45°	5266.8	5322.2	5579.3	5870.6	6020.4	5890.7	5836.4	5832.9	6051.0	6867.1	5456.7
47.5°	5704.3	5753.9	6056.9	6344.7	6611.2	6628.9	6526.3	6561.7	6702.0	7687.9	6218.5
50°	6240.9	6357.7	6557.0	6856.5	7212.7	7500.4	7532.3	7485.1	7605.4	8638.4	7133.6
52.5°	7020.4	7065.2	7248.0	7494.5	7912.0	8400.2	8778.8	8713.9	8676.2	9544.2	8058.2
55°	7601.8	7662.0	7946.2	8284.7	8896.7	9540.6	10361.4	10383.8	9907.4	10414.5	8962.8
57.5°	7426.1	7518.1	7948.5	8629.0	9974.6	11151.6	11762.4	11777.8	11046.6	11260.1	9984.0
60°	6523.9	6567.6	7184.4	8092.4	10066.6	12896.9	13749.6	13625.7	12205.9	12205.9	10886.2
62.5°	4626.4	4694.8	5194.9	6531.0	9091.3	13503.1	16129.4	15873.5	13802.6	13110.4	11424.0
65°	2956.5	2890.5	3221.9	4122.9	6772.8	12608.0	18201.5	18216.8	15305.1	13472.4	11130.3
67°	2141.6	2115.7	2211.2	2818.6	4592.2	10598.5	18245.1	19052.9	16168.3	13243.7	10191.6
67.5°	1958.8	1978.9	2048.5	2542.6	4172.4	9644.4	18047.0	19003.4	16362.9	13105.7	9852.0
70°	1484.8	1450.6	1526.0	1798.4	2501.3	6084.1	15524.4	17429.0	16121.2	11736.5	7871.9
72.5°	1092.0	1088.5	1193.5	1470.6	1925.8	3240.7	11653.9	13974.8	13170.5	8936.8	4956.6
75°	737.1	770.1	937.6	1228.8	1745.4	2101.5	7945.0	10138.5	9143.2	5074.6	2026.1
77.5°	419.8	422.2	603.8	987.1	1567.3	1691.1	4707.8	6459.1	4839.9	1687.6	601.4
80°	181.6	199.3	299.5	717.0	1299.6	1497.7	2699.4	3549.7	1957.7	357.3	194.6
82.5°	67.2	79.0	132.1	441.1	948.2	1233.6	1631.0	1694.7	664.0	126.2	121.5
85°	0.0	2.4	48.4	206.4	494.1	550.7	1089.7	1004.8	293.6	60.1	79.0
87.5°	0.0	0.0	0.0	21.2	64.9	205.2	338.5	377.4	70.8	21.2	18.9
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°	4678.3	4678.3	4678.3	4678.3	4678.3	4678.3	4678.3	4678.3	4678.3	4678.3	4678.3
2.5°	4642.9	4566.3	4374.1	4181.8	4039.1	3920.0	3740.8	3642.9	3591.0	3514.3	3519.1
5°	4526.2	4370.5	4032.1	3681.8	3398.8	3122.8	2792.6	2659.3	2547.3	2483.6	2441.2
7.5°	4352.8	4122.9	3621.7	3154.7	2719.5	2237.2	1875.1	1633.3	1470.6	1410.5	1352.7
10°	4163.0	3857.5	3205.4	2557.9	1954.1	1456.4	1149.8	928.1	849.1	776.0	783.1
12.5°	3987.2	3615.8	2823.3	2019.0	1369.2	925.8	721.7	630.9	605.0	596.7	596.7
15°	3843.4	3384.6	2412.9	1517.8	938.7	665.1	577.9	553.1	543.7	541.3	541.3
17.5°	3690.1	3165.3	2042.6	1121.5	682.8	556.6	527.2	510.6	507.1	504.7	504.7
20°	3553.3	2944.7	1691.1	835.0	551.9	501.2	482.3	471.7	468.2	465.8	467.0
22.5°	3423.5	2749.0	1360.9	630.9	485.9	456.4	437.5	426.9	419.8	413.9	415.1
25°	3308.0	2560.3	1094.4	516.5	437.5	411.6	392.7	377.4	362.0	355.0	353.8
27.5°	3226.6	2395.2	852.6	442.2	393.9	365.6	342.0	323.1	303.1	292.5	290.1
30°	3159.4	2227.7	674.6	390.4	350.3	323.1	293.6	266.5	245.3	234.7	230.0
32.5°	3115.7	2068.5	531.9	347.9	313.7	280.7	247.7	220.5	196.9	186.3	184.0
35°	3108.7	1935.2	435.2	312.5	280.7	245.3	211.1	181.6	161.6	151.0	148.6
37.5°	3159.4	1832.6	364.4	284.2	253.6	214.6	176.9	149.8	132.1	123.8	122.6
40°	3295.0	1767.8	316.1	260.6	228.8	186.3	151.0	127.4	109.7	101.4	101.4
42.5°	3553.3	1770.1	284.2	238.2	204.0	159.2	128.5	106.1	90.8	83.7	81.4
45°	3956.6	1850.3	257.1	215.8	180.4	138.0	109.7	87.3	71.9	66.0	66.0
47.5°	4496.7	2009.5	233.5	193.4	159.2	117.9	93.2	70.8	57.8	51.9	51.9
50°	5203.1	2265.5	213.5	174.5	141.5	101.4	75.5	57.8	44.8	40.1	38.9
52.5°	5941.4	2581.5	189.9	158.0	121.5	86.1	61.3	44.8	34.2	30.7	29.5
55°	6756.3	2890.5	167.5	141.5	99.1	71.9	48.4	35.4	24.8	21.2	21.2
57.5°	7578.2	3193.6	140.3	117.9	77.8	53.1	37.7	25.9	16.5	13.0	13.0
60°	8274.0	3291.5	119.1	95.5	59.0	37.7	27.1	16.5	9.4	5.9	5.9
62.5°	8369.6	2961.2	100.2	73.1	42.5	25.9	14.2	9.4	3.5	2.4	2.4
65°	7850.7	2405.8	83.7	55.4	28.3	13.0	5.9	3.5	1.2	0.0	0.0
67°	7034.6	1950.6	68.4	41.3	20.0	8.3	3.5	1.2	0.0	0.0	0.0
67.5°	6825.8	1859.8	66.0	38.9	17.7	7.1	2.4	1.2	0.0	0.0	0.0
70°	5356.4	1392.8	47.2	23.6	10.6	4.7	0.0	0.0	0.0	0.0	0.0
72.5°	3329.2	787.8	34.2	14.2	7.1	2.4	0.0	0.0	0.0	0.0	0.0
75°	1258.3	276.0	23.6	9.4	4.7	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	391.5	105.0	14.2	7.1	2.4	0.0	0.0	0.0	0.0	0.0	0.0
80°	132.1	40.1	9.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	81.4	16.5	5.9	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	50.7	7.1	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.4	2.4	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)