

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: P651895

Luminaire Tested: **GALN-SA5A-840-U-SL3-HSS**

Issue Date: 1/4/2021

### Test Information

Test Method: LM-79-08  
Report Number: P651895  
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-840-U-SL3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 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: 15932.8 lumens  
Efficiency: N/A  
Efficacy: 103.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G3

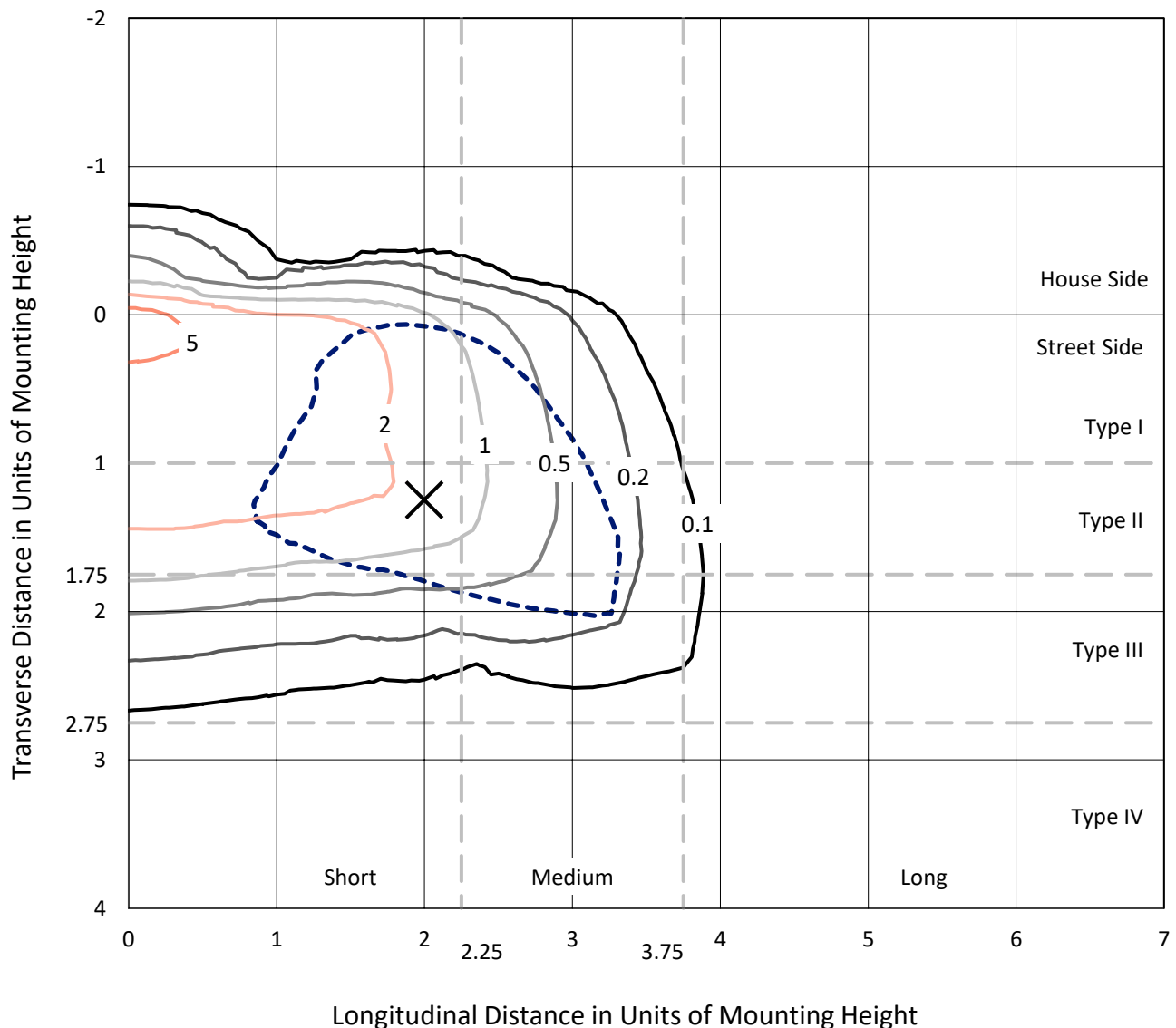
Input Watts (W): 154  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

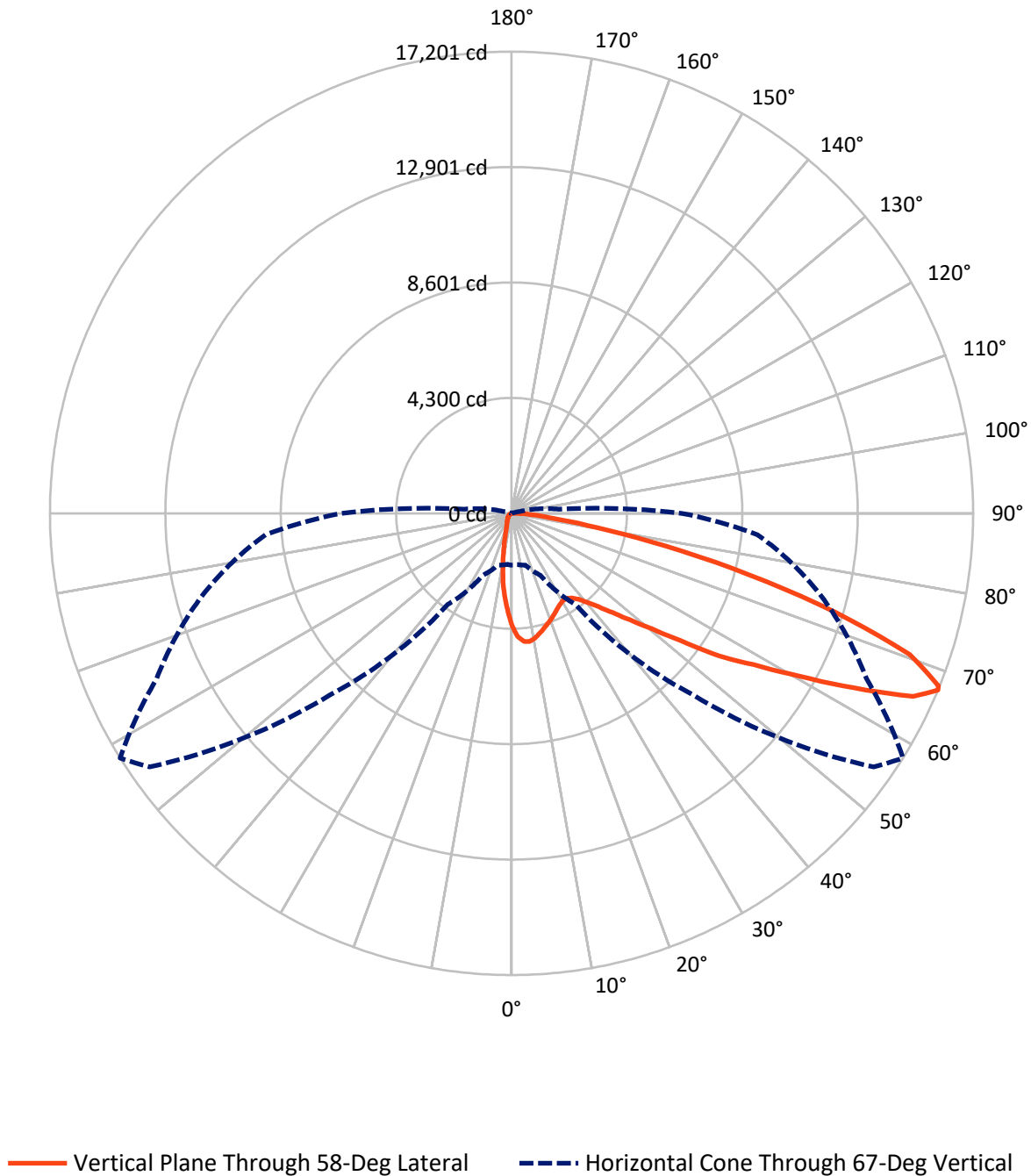
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc  
 Type III - Short - N/A

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## Luminous Intensity Polar Plot



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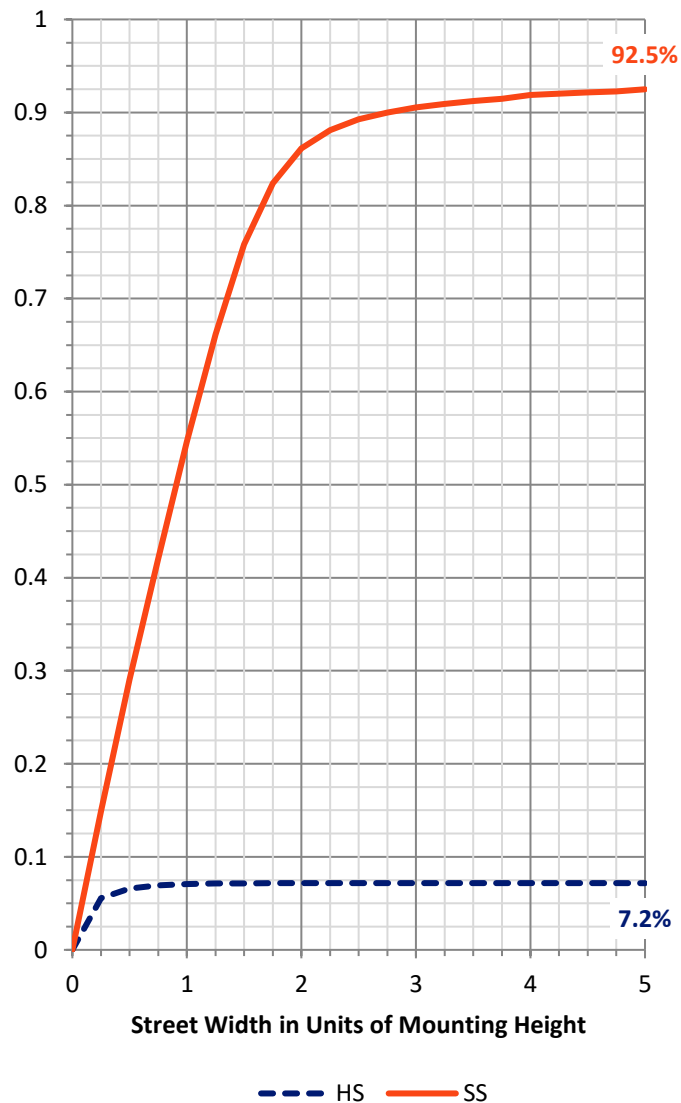
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1149.8	0.0	1149.8
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	14783.0	0.0	14783.0
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	15932.8	0.0	15932.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	342.7	2.2
10°-20°	740.2	4.6
20°-30°	1003.1	6.3
30°-40°	1391.2	8.7
40°-50°	2218.8	13.9
50°-60°	3835.4	24.1
60°-70°	4381.2	27.5
70°-80°	1826.5	11.5
80°-90°	193.7	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°	15932.8	100.0
0°-180°	15932.8	100.0

**Coefficient of Utilization**



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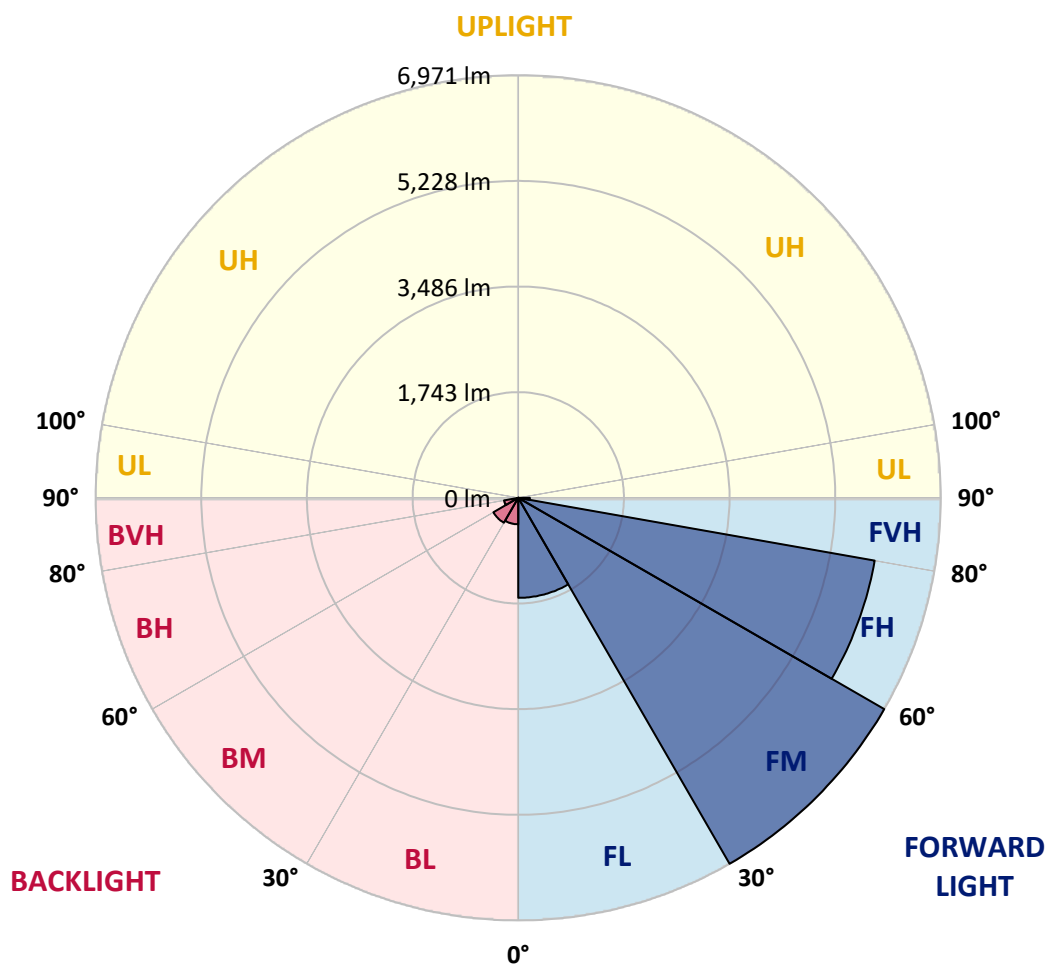
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1649.4	10.4			
FM	(30°-60°)	6971.2	43.8			
FH	(60°-80°)	5970.0	37.5			G3/7500
FVH	(80°-90°)	192.3	1.2			G2/225
BL	(0°-30°)	436.6	2.7	B1/500		
BM	(30°-60°)	474.1	3.0	B1/1000		
BH	(60°-80°)	237.7	1.5	B1/500		G1/500
BVH	(80°-90°)	1.4	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: 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°	4223.6	4223.6	4223.6	4223.6	4223.6	4223.6	4223.6	4223.6	4223.6	4223.6	4223.6
2.5°	4901.9	4909.3	4881.6	4859.2	4801.8	4740.0	4658.0	4614.4	4539.8	4411.0	4268.3
5°	5016.8	5026.4	5022.1	5016.8	4994.4	4934.8	4830.5	4792.2	4682.5	4472.8	4215.1
7.5°	4761.3	4796.4	4800.7	4842.2	4881.6	4887.0	4847.5	4818.8	4717.7	4471.7	4120.3
10°	4422.7	4446.1	4480.2	4528.1	4622.9	4701.7	4740.0	4735.8	4677.2	4438.7	4009.6
12.5°	4081.0	4093.7	4145.9	4227.9	4343.9	4478.1	4580.3	4600.5	4601.6	4399.3	3917.0
15°	3787.1	3781.8	3822.3	3917.0	4079.9	4248.1	4431.2	4463.2	4514.3	4361.0	3830.8
17.5°	3535.8	3563.5	3569.9	3674.2	3824.4	4042.6	4275.8	4332.2	4434.4	4328.0	3759.4
20°	3380.4	3395.3	3409.2	3467.7	3602.9	3832.9	4129.9	4207.7	4359.9	4298.2	3679.5
22.5°	3334.6	3344.2	3332.5	3350.5	3446.4	3650.8	3971.3	4074.6	4288.6	4270.4	3614.6
25°	3369.7	3379.3	3351.6	3330.4	3363.3	3502.8	3818.0	3943.6	4231.1	4265.1	3565.7
27.5°	3454.9	3473.0	3434.7	3396.4	3377.2	3423.0	3697.7	3843.5	4191.7	4290.7	3543.3
30°	3588.0	3598.6	3569.9	3523.0	3479.4	3433.6	3634.9	3774.3	4181.0	4350.3	3541.2
32.5°	3732.8	3755.1	3739.2	3708.3	3651.9	3543.3	3653.0	3776.4	4206.6	4436.5	3567.8
35°	3911.7	3937.2	3952.1	3945.7	3873.3	3738.2	3767.9	3872.3	4274.7	4595.2	3640.2
37.5°	4087.3	4109.7	4193.8	4222.6	4158.7	4030.9	3991.6	4060.8	4424.8	4802.8	3771.1
40°	4288.6	4318.4	4436.5	4546.2	4515.3	4381.2	4308.8	4366.3	4654.9	5115.8	4019.2
42.5°	4481.3	4534.5	4714.5	4908.2	4937.0	4786.8	4739.0	4758.1	4995.5	5566.2	4365.2
45°	4754.9	4805.0	5037.1	5300.1	5435.2	5318.1	5269.1	5265.9	5462.9	6199.7	4926.3
47.5°	5149.9	5194.6	5468.3	5728.1	5968.7	5984.6	5892.0	5923.9	6050.7	6940.7	5614.1
50°	5634.4	5739.7	5919.7	6190.1	6511.6	6771.4	6800.2	6757.6	6866.2	7798.8	6440.3
52.5°	6338.1	6378.6	6543.6	6766.1	7143.0	7583.8	7925.6	7867.0	7832.9	8616.5	7275.0
55°	6863.0	6917.3	7173.9	7479.4	8032.1	8613.4	9354.4	9374.6	8944.5	9402.3	8091.7
57.5°	6704.4	6787.4	7176.0	7790.4	9005.2	10067.7	10619.2	10633.0	9972.9	10165.7	9013.7
60°	5889.9	5929.2	6486.1	7305.9	9088.2	11643.5	12413.2	12301.4	11019.5	11019.5	9828.2
62.5°	4176.7	4238.6	4689.9	5896.3	8207.7	12190.7	14561.7	14330.7	12461.1	11836.1	10313.7
65°	2669.2	2609.5	2908.8	3722.2	6114.5	11382.6	16432.4	16446.3	13817.5	12163.0	10048.5
67°	1933.5	1910.1	1996.3	2544.6	4145.9	9568.4	16471.8	17201.1	14596.9	11956.5	9201.0
67.5°	1768.5	1786.5	1849.4	2295.5	3766.8	8707.0	16292.9	17156.4	14772.6	11831.9	8894.4
70°	1340.5	1309.6	1377.7	1623.6	2258.2	5492.7	14015.6	15735.0	14554.3	10595.8	7106.8
72.5°	985.9	982.7	1077.5	1327.7	1738.6	2925.8	10521.2	12616.6	11890.5	8068.2	4474.9
75°	665.4	695.3	846.5	1109.4	1575.8	1897.3	7172.8	9153.1	8254.5	4581.3	1829.2
77.5°	379.0	381.1	545.1	891.1	1415.0	1526.8	4250.2	5831.3	4369.5	1523.6	543.0
80°	164.0	180.0	270.5	647.3	1173.3	1352.2	2437.0	3204.7	1767.4	322.6	175.7
82.5°	60.7	71.3	119.3	398.2	856.0	1113.7	1472.5	1529.9	599.4	114.0	109.7
85°	0.0	2.1	43.6	186.3	446.1	497.2	983.8	907.1	265.1	54.3	71.3
87.5°	0.0	0.0	0.0	19.2	58.5	185.3	305.5	340.7	63.9	19.2	17.1
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°	4223.6	4223.6	4223.6	4223.6	4223.6	4223.6	4223.6	4223.6	4223.6	4223.6	4223.6
2.5°	4191.7	4122.5	3948.9	3775.4	3646.6	3539.0	3377.2	3288.8	3242.0	3172.8	3177.0
5°	4086.3	3945.7	3640.2	3324.0	3068.5	2819.3	2521.1	2400.9	2299.7	2242.3	2203.9
7.5°	3929.7	3722.2	3269.6	2848.0	2455.2	2019.7	1692.8	1474.6	1327.7	1273.4	1221.2
10°	3758.3	3482.6	2893.8	2309.3	1764.2	1314.9	1038.0	837.9	766.6	700.6	706.9
12.5°	3599.7	3264.3	2548.9	1822.8	1236.1	835.8	651.6	569.6	546.1	538.7	538.7
15°	3469.8	3055.7	2178.4	1370.2	847.5	600.5	521.7	499.3	490.8	488.7	488.7
17.5°	3331.5	2857.6	1844.1	1012.5	616.5	502.5	475.9	461.0	457.8	455.7	455.7
20°	3207.9	2658.6	1526.8	753.8	498.3	452.5	435.5	425.9	422.7	420.6	421.6
22.5°	3090.8	2481.8	1228.6	569.6	438.7	412.0	395.0	385.4	379.0	373.7	374.7
25°	2986.5	2311.4	988.0	466.3	395.0	371.6	354.6	340.7	326.9	320.5	319.4
27.5°	2913.0	2162.4	769.8	399.2	355.6	330.1	308.7	291.7	273.7	264.1	261.9
30°	2852.3	2011.2	609.0	352.4	316.2	291.7	265.1	240.6	221.4	211.8	207.6
32.5°	2812.9	1867.4	480.2	314.1	283.2	253.4	223.6	199.1	177.8	168.2	166.1
35°	2806.5	1747.2	392.8	282.2	253.4	221.4	190.6	164.0	145.8	136.2	134.1
37.5°	2852.3	1654.5	329.0	256.6	228.9	193.8	159.7	135.2	119.3	111.8	110.8
40°	2974.8	1596.0	285.4	235.3	206.5	168.2	136.2	115.0	99.0	91.6	91.6
42.5°	3207.9	1598.1	256.6	215.0	184.2	143.7	116.1	95.8	82.0	75.6	73.5
45°	3572.1	1670.5	232.1	194.9	162.9	124.6	99.0	78.8	64.9	59.6	59.6
47.5°	4059.7	1814.2	210.8	174.6	143.7	106.5	84.1	63.9	52.1	46.8	46.8
50°	4697.4	2045.2	192.7	157.6	127.7	91.6	68.1	52.1	40.5	36.2	35.2
52.5°	5363.9	2330.6	171.4	142.6	109.7	77.7	55.3	40.5	30.9	27.7	26.6
55°	6099.6	2609.5	151.2	127.7	89.4	64.9	43.6	32.0	22.4	19.2	19.2
57.5°	6841.7	2883.2	126.7	106.5	70.3	47.9	34.1	23.5	14.9	11.7	11.7
60°	7469.8	2971.6	107.6	86.2	53.2	34.1	24.5	14.9	8.5	5.3	5.3
62.5°	7556.1	2673.5	90.5	66.0	38.3	23.5	12.8	8.5	3.2	2.1	2.1
65°	7087.6	2172.0	75.6	50.0	25.6	11.7	5.3	3.2	1.1	0.0	0.0
67°	6350.9	1761.0	61.7	37.3	18.1	7.5	3.2	1.1	0.0	0.0	0.0
67.5°	6162.4	1679.1	59.6	35.2	16.0	6.4	2.1	1.1	0.0	0.0	0.0
70°	4835.8	1257.4	42.6	21.3	9.6	4.3	0.0	0.0	0.0	0.0	0.0
72.5°	3005.6	711.2	30.9	12.8	6.4	2.1	0.0	0.0	0.0	0.0	0.0
75°	1136.0	249.1	21.3	8.5	4.3	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	353.5	94.8	12.8	6.4	2.1	0.0	0.0	0.0	0.0	0.0	0.0
80°	119.3	36.2	8.5	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	73.5	14.9	5.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	45.8	6.4	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.5	2.1	1.1	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)