

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: P453910

Luminaire Tested: **GALN-SA5A-727-U-SL3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P453910  
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-727-U-SL3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 2700K, 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: 15844 lumens  
Efficiency: N/A  
Efficacy: 102.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G3

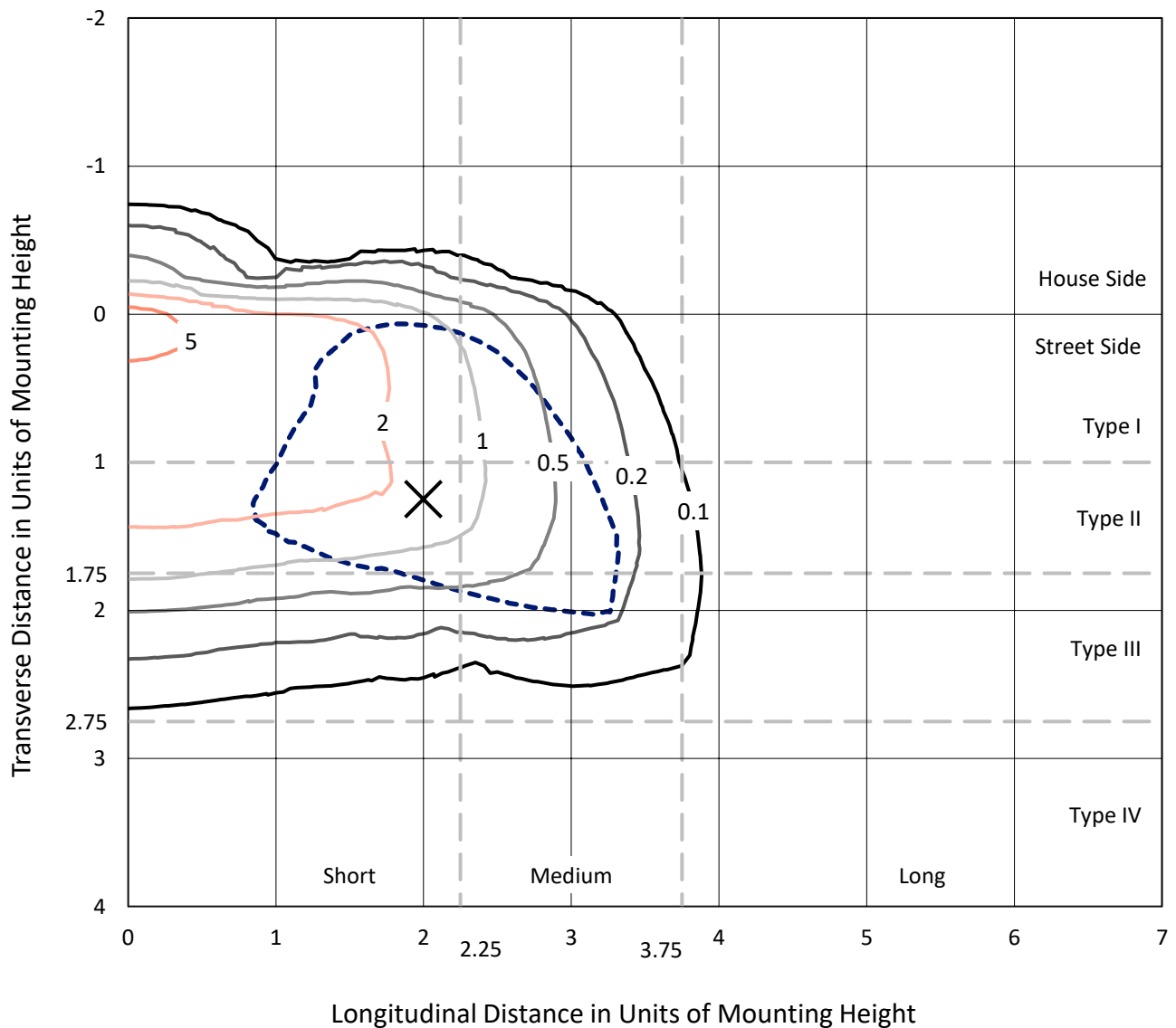
Input Watts (W): 154  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

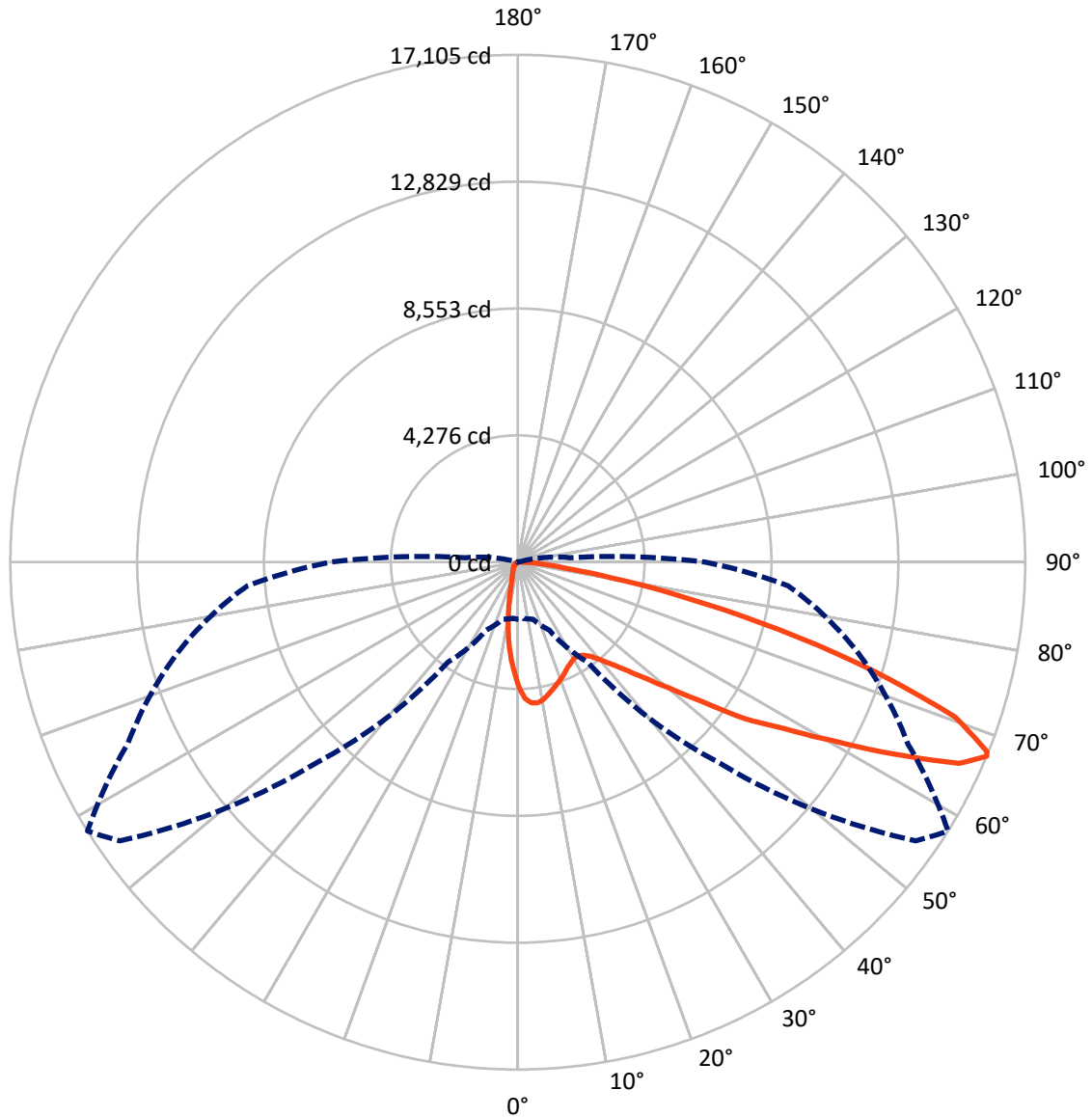
✕ Max cd  
 - - - 1/2 Max cd



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



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

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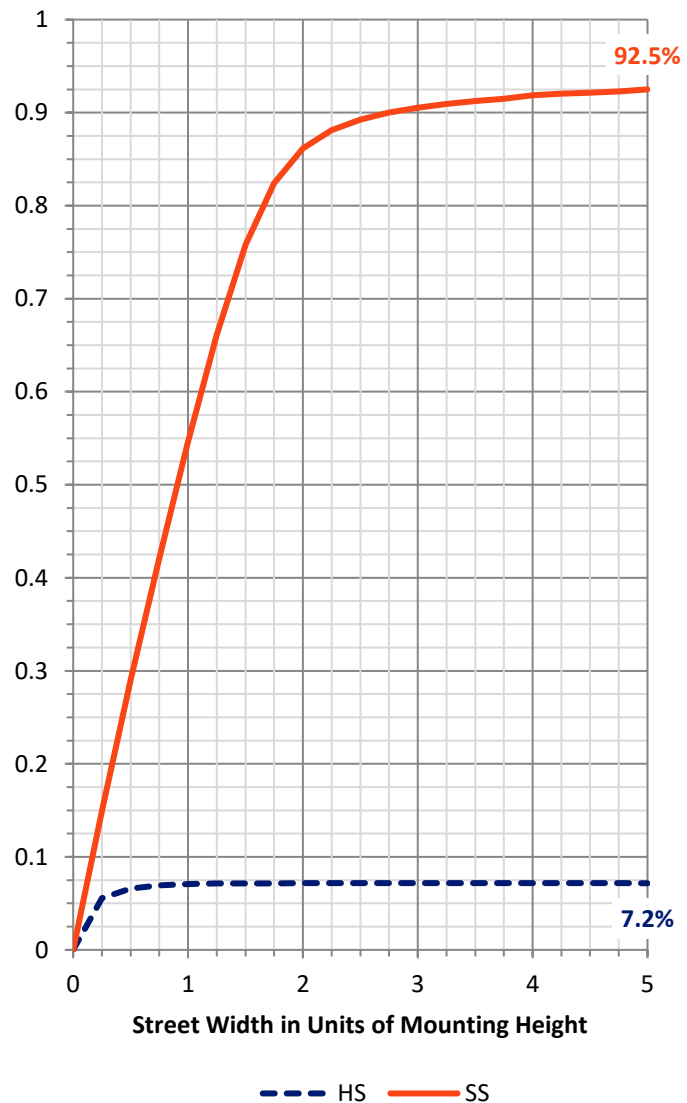
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1143.4	0.0	1143.4
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	14700.6	0.0	14700.6
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	15844.0	0.0	15844.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	340.8	2.2
10°-20°	736.1	4.6
20°-30°	997.5	6.3
30°-40°	1383.4	8.7
40°-50°	2206.4	13.9
50°-60°	3814.0	24.1
60°-70°	4356.8	27.5
70°-80°	1816.4	11.5
80°-90°	192.6	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°	15844.0	100.0
0°-180°	15844.0	100.0



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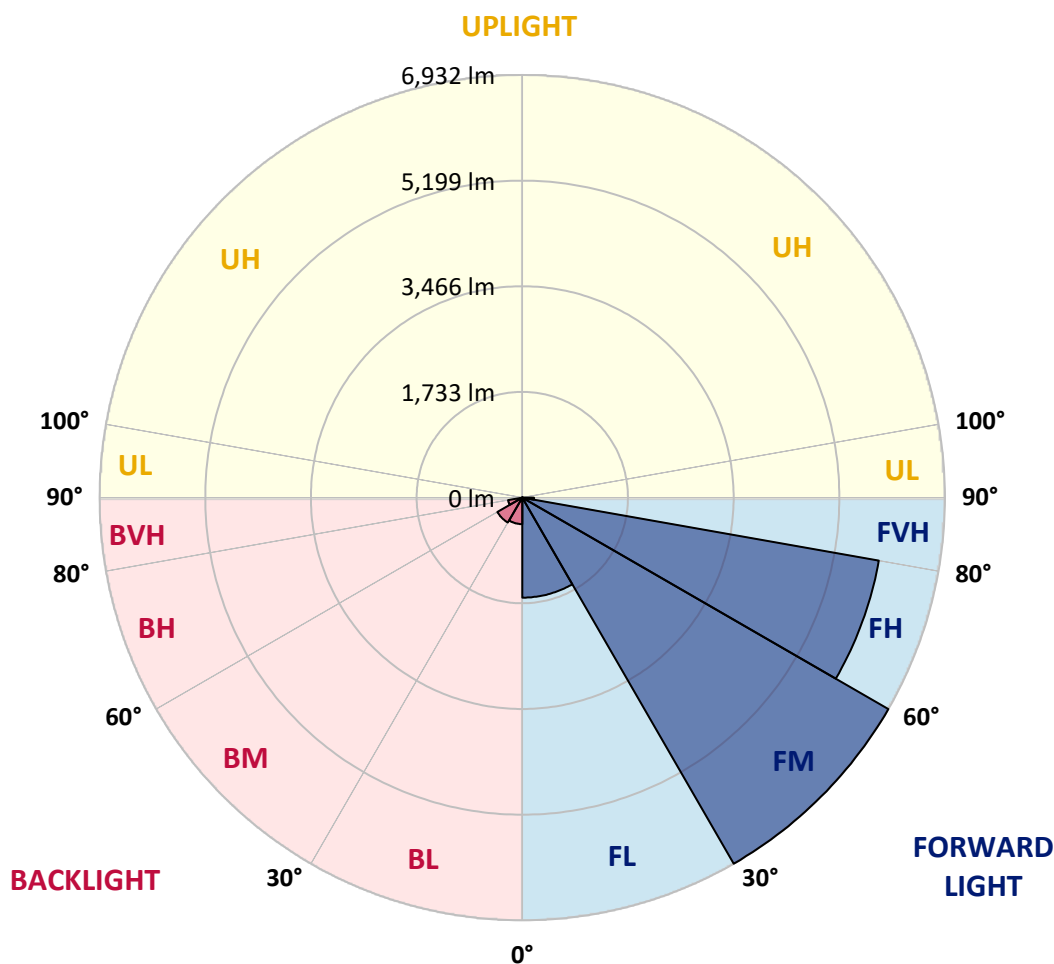
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1640.2	10.4			
FM (30°-60°)	6932.4	43.8			
FH (60°-80°)	5936.8	37.5			G3/7500
FVH (80°-90°)	191.2	1.2			G2/225
BL (0°-30°)	434.2	2.7	B1/500		
BM (30°-60°)	471.5	3.0	B1/1000		
BH (60°-80°)	236.4	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°	4200.1	4200.1	4200.1	4200.1	4200.1	4200.1	4200.1	4200.1	4200.1	4200.1	4200.1
2.5°	4874.5	4881.9	4854.4	4832.2	4775.0	4713.6	4632.1	4588.7	4514.6	4386.4	4244.6
5°	4988.9	4998.4	4994.2	4988.9	4966.6	4907.4	4803.6	4765.5	4656.4	4447.8	4191.6
7.5°	4734.8	4769.7	4773.9	4815.2	4854.4	4859.7	4820.5	4791.9	4691.4	4446.8	4097.4
10°	4398.1	4421.4	4455.3	4502.9	4597.1	4675.5	4713.6	4709.4	4651.1	4414.0	3987.3
12.5°	4058.2	4070.9	4122.8	4204.3	4319.7	4453.1	4554.8	4574.9	4576.0	4374.8	3895.2
15°	3766.0	3760.7	3800.9	3895.2	4057.2	4224.5	4406.6	4438.3	4489.1	4336.7	3809.4
17.5°	3516.1	3543.7	3550.0	3653.8	3803.1	4020.1	4252.0	4308.1	4409.7	4303.9	3738.5
20°	3361.6	3376.4	3390.1	3448.4	3582.8	3811.5	4106.9	4184.2	4335.6	4274.2	3659.1
22.5°	3316.0	3325.6	3313.9	3331.9	3427.2	3630.5	3949.2	4051.9	4264.7	4246.7	3594.5
25°	3351.0	3360.5	3333.0	3311.8	3344.6	3483.3	3796.7	3921.6	4207.5	4241.4	3545.8
27.5°	3435.7	3453.7	3415.6	3377.4	3358.4	3403.9	3677.1	3822.1	4168.3	4266.8	3523.6
30°	3568.0	3578.6	3550.0	3503.4	3460.0	3414.5	3614.6	3753.3	4157.7	4326.1	3521.4
32.5°	3712.0	3734.2	3718.4	3687.7	3631.5	3523.6	3632.6	3755.4	4183.2	4411.9	3547.9
35°	3889.9	3915.3	3930.1	3923.8	3851.8	3717.3	3746.9	3850.7	4250.9	4569.6	3619.9
37.5°	4064.6	4086.8	4170.5	4199.0	4135.5	4008.5	3969.3	4038.1	4400.2	4776.1	3750.1
40°	4264.7	4294.3	4411.9	4520.9	4490.2	4356.8	4284.8	4342.0	4628.9	5087.3	3996.8
42.5°	4456.3	4509.3	4688.2	4880.9	4909.5	4760.2	4712.5	4731.6	4967.7	5535.2	4340.9
45°	4728.4	4778.2	5009.0	5270.5	5405.0	5288.5	5239.8	5236.6	5432.5	6165.2	4898.9
47.5°	5121.2	5165.7	5437.8	5696.1	5935.4	5951.3	5859.2	5890.9	6016.9	6902.1	5582.8
50°	5603.0	5707.8	5886.7	6155.6	6475.4	6733.7	6762.3	6719.9	6827.9	7755.4	6404.4
52.5°	6302.8	6343.0	6507.1	6728.4	7103.2	7541.5	7881.4	7823.2	7789.3	8568.5	7234.5
55°	6824.8	6878.8	7133.9	7437.8	7987.3	8565.4	9302.3	9322.4	8894.6	9349.9	8046.6
57.5°	6667.0	6749.6	7136.0	7746.9	8955.0	10011.6	10560.1	10573.8	9917.4	10109.0	8963.5
60°	5857.1	5896.2	6450.0	7265.2	9037.6	11578.6	12344.1	12232.9	10958.2	10958.2	9773.4
62.5°	4153.5	4214.9	4663.8	5863.4	8162.0	12122.8	14480.7	14250.9	12391.7	11770.2	10256.2
65°	2654.3	2595.0	2892.5	3701.4	6080.5	11319.2	16340.9	16354.7	13740.6	12095.3	9992.6
67°	1922.7	1899.4	1985.2	2530.4	4122.8	9515.1	16380.1	17105.3	14515.6	11889.9	9149.8
67.5°	1758.6	1776.6	1839.1	2282.7	3745.9	8658.5	16202.2	17060.9	14690.3	11766.0	8844.9
70°	1333.0	1302.3	1370.0	1614.6	2245.6	5462.1	13937.5	15647.4	14473.2	10536.8	7067.2
72.5°	980.4	977.2	1071.5	1320.3	1729.0	2909.5	10462.7	12546.3	11824.2	8023.3	4450.0
75°	661.7	691.4	841.7	1103.2	1567.0	1886.7	7132.9	9102.2	8208.6	4555.8	1818.9
77.5°	376.9	379.0	542.1	886.2	1407.1	1518.3	4226.6	5798.8	4345.1	1515.1	540.0
80°	163.0	178.9	268.9	643.7	1166.8	1344.6	2423.5	3186.9	1757.5	320.8	174.7
82.5°	60.3	70.9	118.6	396.0	851.2	1107.5	1464.3	1521.4	596.1	113.3	109.1
85°	0.0	2.1	43.4	185.3	443.6	494.4	978.3	902.1	263.6	54.0	70.9
87.5°	0.0	0.0	0.0	19.1	58.2	184.2	303.9	338.8	63.5	19.1	16.9
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°	4200.1	4200.1	4200.1	4200.1	4200.1	4200.1	4200.1	4200.1	4200.1	4200.1	4200.1
2.5°	4168.3	4099.5	3926.9	3754.4	3626.3	3519.3	3358.4	3270.5	3223.9	3155.1	3159.3
5°	4063.5	3923.8	3619.9	3305.4	3051.3	2803.6	2507.1	2387.5	2286.9	2229.7	2191.6
7.5°	3907.9	3701.4	3251.5	2832.2	2441.5	2008.5	1683.4	1466.4	1320.3	1266.3	1214.4
10°	3737.4	3463.2	2877.7	2296.4	1754.4	1307.6	1032.3	833.2	762.3	696.7	703.0
12.5°	3579.7	3246.2	2534.7	1812.6	1229.2	831.1	648.0	566.4	543.1	535.7	535.7
15°	3450.5	3038.6	2166.2	1362.6	842.8	597.1	518.8	496.6	488.1	486.0	486.0
17.5°	3312.9	2841.7	1833.8	1006.9	613.0	499.7	473.3	458.4	455.3	453.1	453.1
20°	3190.0	2643.7	1518.3	749.6	495.5	450.0	433.0	423.5	420.3	418.2	419.3
22.5°	3073.6	2468.0	1221.8	566.4	436.2	409.7	392.8	383.3	376.9	371.6	372.7
25°	2969.8	2298.6	982.5	463.7	392.8	369.5	352.6	338.8	325.0	318.7	317.6
27.5°	2896.8	2150.3	765.5	397.0	353.6	328.2	307.0	290.1	272.1	262.6	260.5
30°	2836.4	2000.0	605.6	350.4	314.5	290.1	263.6	239.3	220.2	210.7	206.5
32.5°	2797.2	1857.1	477.5	312.3	281.6	252.0	222.3	198.0	176.8	167.3	165.2
35°	2790.9	1737.4	390.7	280.6	252.0	220.2	189.5	163.0	145.1	135.5	133.4
37.5°	2836.4	1645.3	327.2	255.2	227.6	192.7	158.8	134.5	118.6	111.2	110.1
40°	2958.2	1587.1	283.7	234.0	205.4	167.3	135.5	114.3	98.5	91.1	91.1
42.5°	3190.0	1589.2	255.2	213.9	183.2	142.9	115.4	95.3	81.5	75.2	73.1
45°	3552.1	1661.2	230.8	193.8	162.0	123.9	98.5	78.3	64.6	59.3	59.3
47.5°	4037.0	1804.1	209.6	173.6	142.9	105.9	83.6	63.5	51.9	46.6	46.6
50°	4671.2	2033.9	191.6	156.7	127.1	91.1	67.8	51.9	40.2	36.0	34.9
52.5°	5334.0	2317.6	170.5	141.9	109.1	77.3	55.1	40.2	30.7	27.5	26.5
55°	6065.6	2595.0	150.3	127.1	88.9	64.6	43.4	31.8	22.2	19.1	19.1
57.5°	6803.6	2867.1	126.0	105.9	69.9	47.6	33.9	23.3	14.8	11.6	11.6
60°	7428.3	2955.0	106.9	85.8	52.9	33.9	24.4	14.8	8.5	5.3	5.3
62.5°	7514.0	2658.5	90.0	65.6	38.1	23.3	12.7	8.5	3.2	2.1	2.1
65°	7048.2	2159.9	75.2	49.8	25.4	11.6	5.3	3.2	1.1	0.0	0.0
67°	6315.5	1751.2	61.4	37.1	18.0	7.4	3.2	1.1	0.0	0.0	0.0
67.5°	6128.1	1669.7	59.3	34.9	15.9	6.4	2.1	1.1	0.0	0.0	0.0
70°	4808.9	1250.4	42.4	21.2	9.5	4.2	0.0	0.0	0.0	0.0	0.0
72.5°	2988.9	707.3	30.7	12.7	6.4	2.1	0.0	0.0	0.0	0.0	0.0
75°	1129.7	247.7	21.2	8.5	4.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	351.5	94.2	12.7	6.4	2.1	0.0	0.0	0.0	0.0	0.0	0.0
80°	118.6	36.0	8.5	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	73.1	14.8	5.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	45.5	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)