

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: P454986

Luminaire Tested: **GALN-SA6A-827-U-SL4**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454986  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA6A-827-U-SL4  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19513 lumens  
Efficiency: N/A  
Efficacy: 107.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

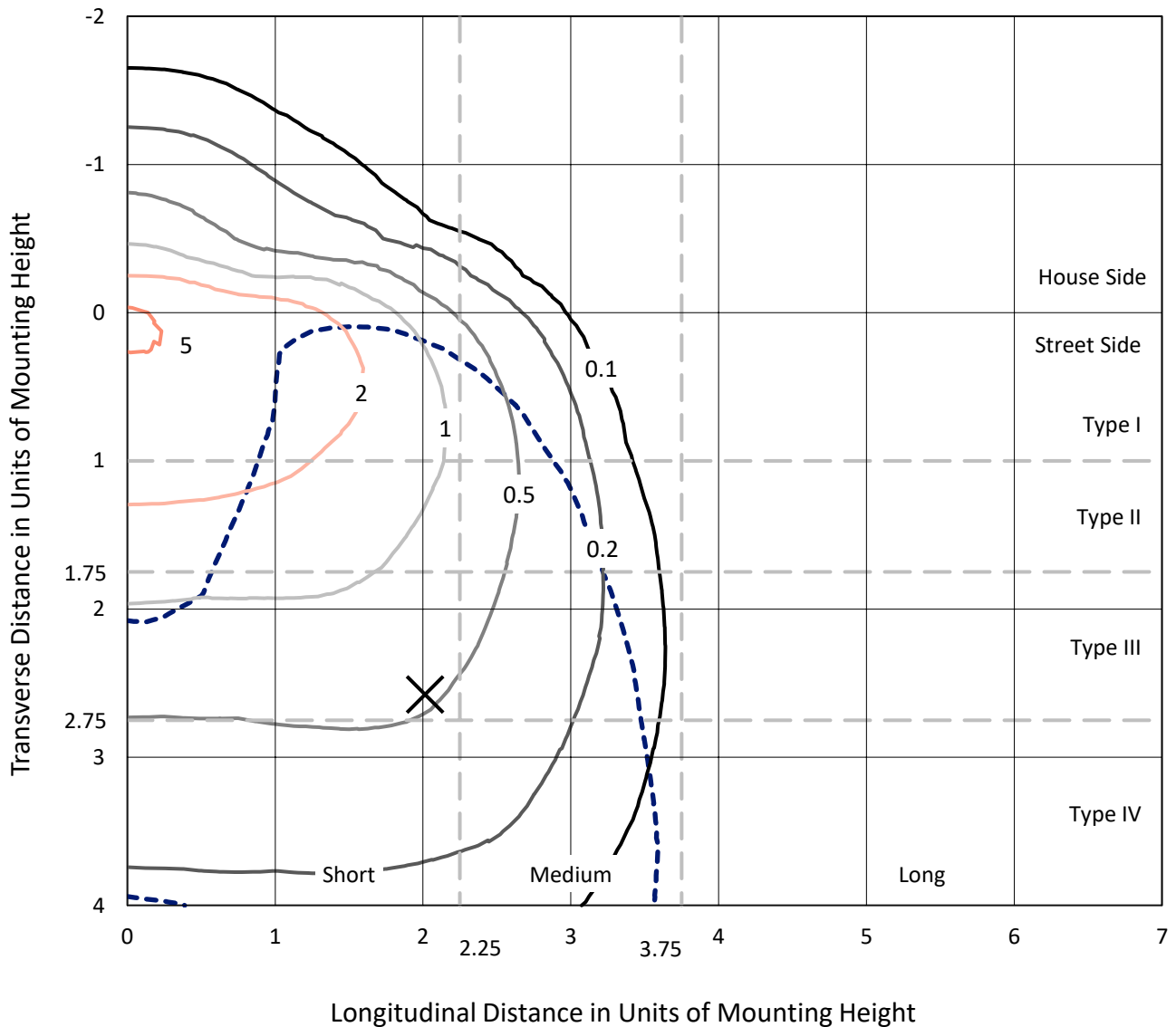
Input Watts (W): 182  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

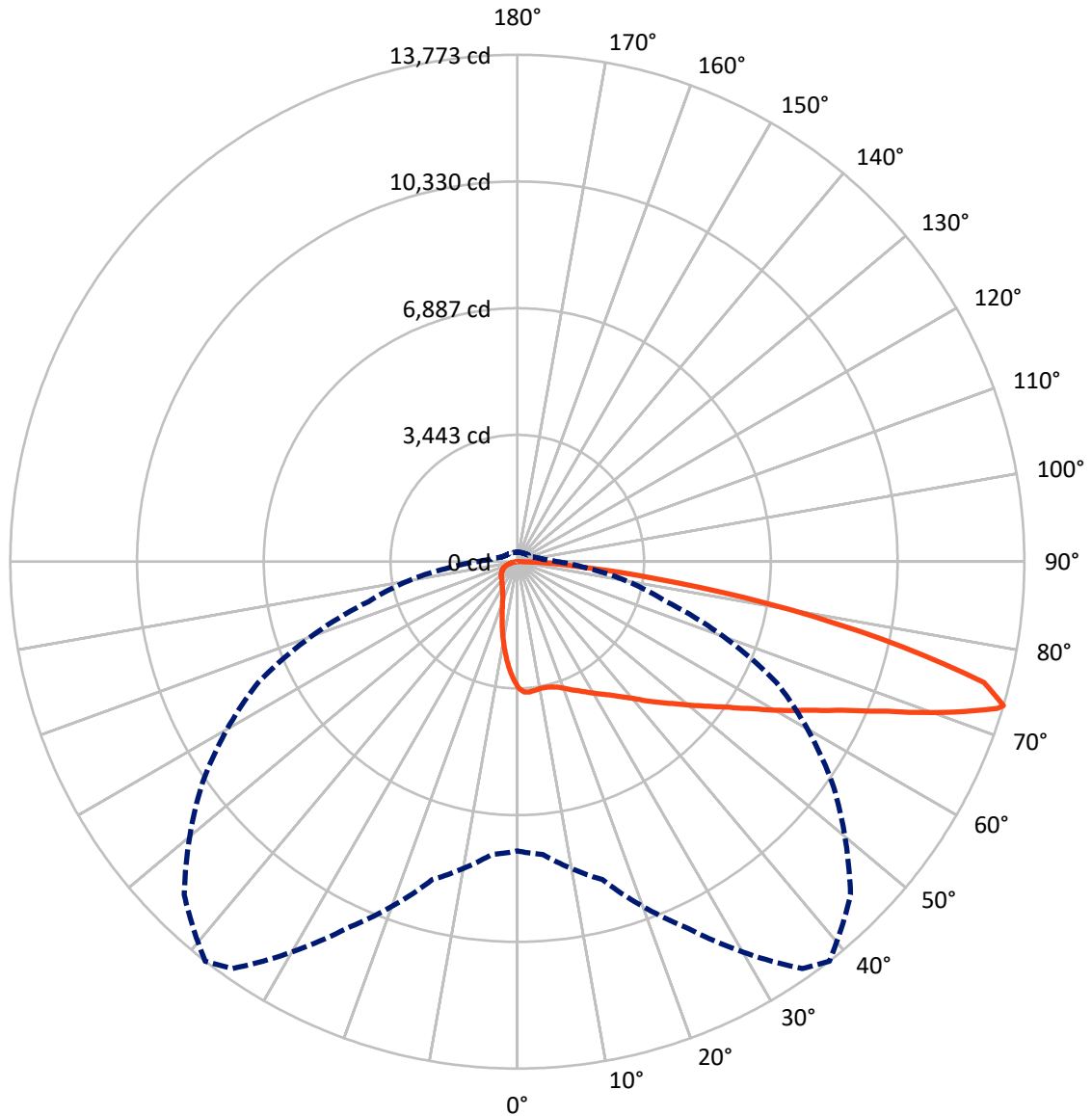
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral    - - - Horizontal Cone Through 73-Deg Vertical

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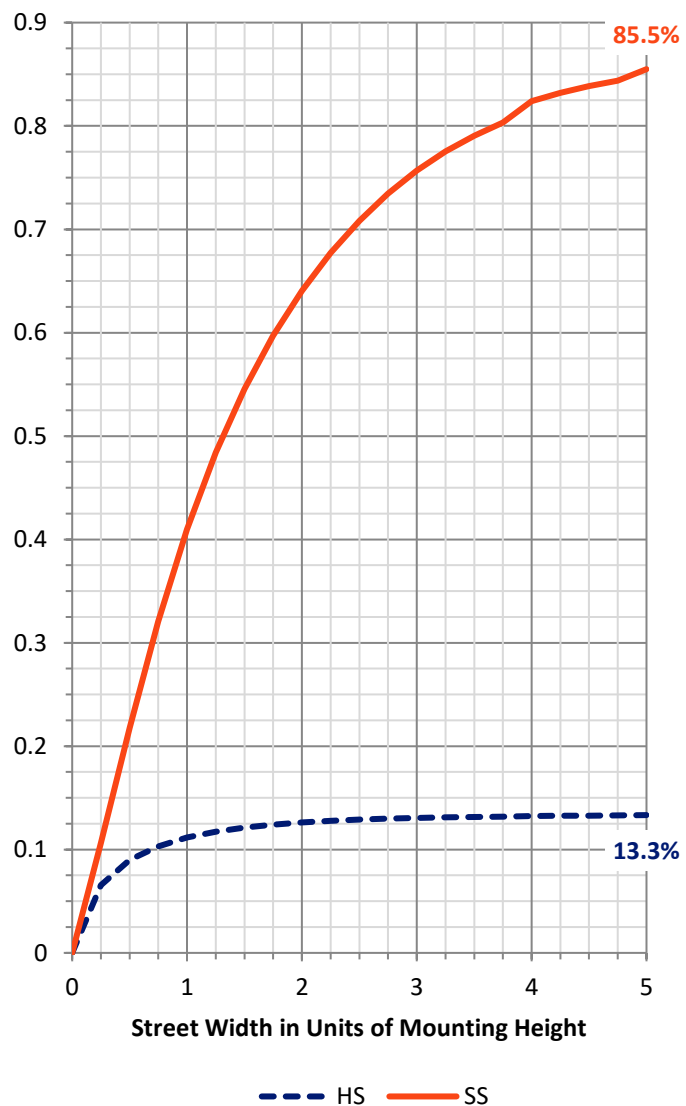
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2623.1	0.0	2623.1
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	16889.9	0.0	16889.9
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	19513.0	0.0	19513.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	299.2	1.5
10°-20°	767.3	3.9
20°-30°	1194.9	6.1
30°-40°	1752.6	9.0
40°-50°	2599.8	13.3
50°-60°	3683.5	18.9
60°-70°	4672.6	23.9
70°-80°	3889.6	19.9
80°-90°	653.5	3.3
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°	19513.0	100.0
0°-180°	19513.0	100.0

**Coefficient of Utilization**



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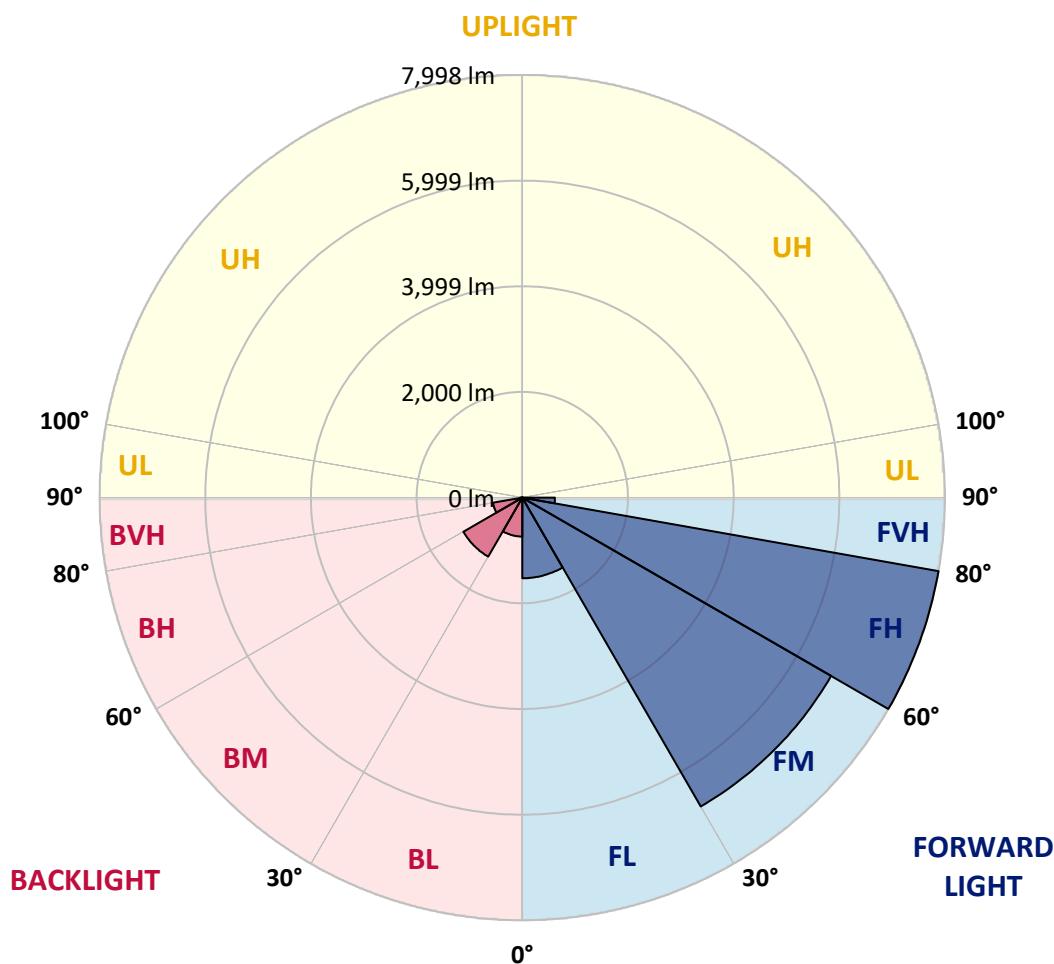
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1525.4	7.8			
FM	(30°-60°)	6748.1	34.6			
FH	(60°-80°)	7998.3	41.0			G4/12000
FVH	(80°-90°)	618.1	3.2			G4/750
BL	(0°-30°)	736.1	3.8	B2/1000		
BM	(30°-60°)	1287.8	6.6	B2/2500		
BH	(60°-80°)	563.8	2.9	B2/1000		G2/1000
BVH	(80°-90°)	35.4	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	3428.1	3428.1	3428.1	3428.1	3428.1	3428.1	3428.1	3428.1	3428.1	3428.1	3428.1
2.5°	3565.8	3583.5	3574.7	3562.5	3554.8	3547.1	3536.1	3504.1	3478.8	3451.2	3408.3
5°	3592.3	3603.3	3595.6	3580.2	3562.5	3554.8	3533.9	3492.0	3451.2	3405.0	3341.1
7.5°	3576.9	3581.3	3572.5	3553.7	3538.3	3524.0	3499.7	3453.4	3403.9	3347.7	3263.9
10°	3521.8	3538.3	3538.3	3522.9	3507.4	3499.7	3475.5	3431.4	3386.2	3322.3	3223.1
12.5°	3476.6	3494.2	3508.5	3504.1	3503.0	3503.0	3484.3	3451.2	3398.4	3337.7	3219.8
15°	3445.7	3466.7	3497.5	3515.2	3526.2	3529.5	3521.8	3493.1	3439.1	3368.6	3233.1
17.5°	3439.1	3464.5	3520.7	3559.2	3587.9	3586.8	3584.6	3544.9	3485.4	3412.7	3249.6
20°	3468.9	3501.9	3580.2	3640.8	3682.6	3674.9	3662.8	3611.0	3541.6	3460.1	3265.0
22.5°	3558.1	3592.3	3678.2	3744.4	3785.1	3785.1	3748.8	3680.4	3606.6	3515.2	3286.0
25°	3686.0	3723.4	3814.9	3882.1	3900.8	3886.5	3850.1	3767.5	3682.6	3594.5	3330.0
27.5°	3842.4	3887.6	3972.5	4028.7	4023.1	4012.1	3974.7	3868.9	3784.0	3703.6	3405.0
30°	4037.5	4070.5	4158.7	4171.9	4152.1	4149.9	4097.0	3991.2	3911.9	3850.1	3511.9
32.5°	4221.5	4251.2	4321.8	4327.3	4292.0	4296.4	4246.8	4149.9	4104.7	4082.6	3691.5
35°	4416.5	4432.0	4492.6	4486.0	4462.8	4459.5	4439.7	4347.1	4361.4	4401.1	3946.0
37.5°	4579.6	4610.5	4644.6	4650.1	4649.0	4660.1	4673.3	4629.2	4711.9	4836.4	4279.9
40°	4729.5	4755.9	4806.6	4824.2	4867.2	4889.3	4934.4	4935.5	5126.2	5331.1	4690.9
42.5°	4830.9	4876.0	4970.8	5002.8	5107.4	5173.6	5240.8	5312.4	5589.0	5852.3	5175.8
45°	4919.0	4978.5	5136.1	5235.3	5377.4	5457.9	5600.0	5749.9	6147.7	6492.6	5668.3
47.5°	5052.3	5105.2	5286.0	5461.2	5676.0	5768.6	5981.3	6205.0	6725.1	7103.0	6140.0
50°	5237.5	5269.4	5453.5	5738.9	6013.2	6132.2	6413.2	6736.1	7342.2	7705.8	6554.3
52.5°	5474.4	5487.6	5634.2	6014.3	6375.8	6523.4	6895.9	7272.7	7882.1	8229.2	6882.7
55°	5754.3	5732.2	5846.8	6306.3	6790.1	6982.9	7382.9	7816.0	8489.3	8652.4	7121.8
57.5°	6030.9	5996.7	6088.2	6661.2	7301.4	7533.9	8000.0	8375.8	9031.4	9047.9	7289.3
60°	6324.0	6298.6	6407.7	7077.7	7928.4	8203.9	8634.7	8956.5	9555.9	9323.4	7315.7
62.5°	6624.8	6584.0	6739.4	7546.0	8634.7	8884.9	9302.5	9573.6	10070.5	9425.9	7061.2
65°	6916.8	6898.1	7138.3	8102.5	9439.1	9723.4	10128.9	10313.0	10482.7	9271.6	6429.8
67.5°	7227.6	7265.0	7648.5	8845.2	10488.2	10845.2	11282.7	11109.7	10600.6	8541.1	5414.9
70°	7701.4	7725.6	8318.5	9818.2	11840.2	12271.1	12482.7	11392.9	10032.0	7153.7	4070.5
72.5°	7905.2	8012.1	8916.8	10839.7	13376.3	13639.7	12886.0	10761.4	8357.0	4859.5	2138.8
73°	7860.1	7987.9	8944.4	10995.1	13496.4	13773.0	12800.0	10436.4	7768.6	4185.1	1833.6
75°	7297.0	7454.6	8586.2	10865.0	13262.8	13097.5	11418.2	8894.8	5249.6	1903.0	835.3
77.5°	5757.6	5802.8	6803.3	8773.6	10444.1	10137.8	8545.5	5559.2	2144.4	707.4	473.8
80°	2888.2	3054.5	3834.7	5025.9	6984.0	6883.8	5393.9	2629.2	893.7	415.4	314.0
82.5°	1389.5	1507.4	1867.8	2450.7	3859.0	3767.5	2671.1	1436.9	567.5	242.4	185.1
85°	894.8	982.9	1189.0	1169.1	1586.8	1515.2	1200.0	1087.6	336.1	126.7	128.9
87.5°	590.6	646.8	775.8	620.4	577.4	522.3	530.0	612.7	66.1	48.5	17.6
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°	3428.1	3428.1	3428.1	3428.1	3428.1	3428.1	3428.1	3428.1	3428.1	3428.1	3428.1
2.5°	3390.6	3376.3	3328.9	3282.6	3238.6	3196.7	3169.1	3132.8	3108.5	3115.2	3125.1
5°	3305.8	3273.8	3190.1	3108.5	3031.4	2939.9	2866.1	2806.6	2761.4	2744.9	2741.6
7.5°	3216.5	3162.5	3042.4	2902.5	2771.4	2657.9	2526.7	2461.7	2385.7	2359.2	2350.4
10°	3162.5	3089.8	2921.2	2726.2	2528.9	2340.5	2198.3	2082.6	1978.0	1958.1	1948.2
12.5°	3147.1	3051.2	2824.2	2573.0	2310.7	2079.3	1868.9	1716.8	1615.4	1592.3	1558.1
15°	3138.3	3019.3	2733.9	2418.7	2086.0	1803.9	1582.4	1405.0	1312.4	1250.7	1251.8
17.5°	3130.6	2982.9	2632.5	2250.1	1892.0	1566.9	1322.3	1162.5	1077.7	1044.6	1041.3
20°	3119.6	2939.9	2515.7	2072.7	1670.5	1351.0	1129.5	1010.5	953.2	925.6	924.5
22.5°	3115.2	2898.1	2401.1	1892.0	1474.4	1184.6	1001.7	917.9	881.5	862.8	862.8
25°	3126.2	2868.3	2281.0	1720.1	1300.3	1042.4	913.5	856.2	835.3	825.3	822.0
27.5°	3160.3	2855.1	2162.0	1548.2	1140.5	945.5	854.0	814.3	798.9	791.2	792.3
30°	3225.3	2854.0	2045.2	1378.5	1021.5	871.6	806.6	779.1	766.9	762.5	761.4
32.5°	3330.0	2878.2	1930.6	1238.6	921.2	809.9	762.5	742.7	737.2	733.9	732.8
35°	3507.4	2946.6	1817.1	1110.7	844.1	754.8	720.7	710.7	703.0	706.3	707.4
37.5°	3746.6	3064.5	1709.1	1010.5	785.7	714.1	685.4	676.6	672.2	675.5	678.8
40°	4067.2	3234.2	1618.7	930.0	743.8	679.9	654.5	646.8	642.4	647.9	649.0
42.5°	4420.9	3430.3	1543.8	867.2	709.6	651.2	627.0	618.2	614.9	618.2	619.3
45°	4784.6	3658.4	1505.2	822.0	681.0	630.3	605.0	595.0	587.3	585.1	588.4
47.5°	5142.7	3856.8	1504.1	794.5	657.9	611.6	584.0	573.0	563.1	557.6	556.5
50°	5434.7	4014.3	1530.6	782.4	638.0	590.6	563.1	552.1	538.8	527.8	530.0
52.5°	5655.1	4116.8	1542.7	776.9	627.0	568.6	541.0	531.1	515.7	501.4	501.4
55°	5797.3	4141.1	1512.9	771.4	618.2	545.5	515.7	506.9	491.5	477.1	477.1
57.5°	5845.7	4066.1	1406.1	758.1	609.4	525.6	490.4	482.6	470.5	456.2	454.0
60°	5733.3	3812.7	1218.7	718.5	591.7	504.7	462.8	459.5	455.1	443.0	441.9
62.5°	5300.3	3274.9	1014.9	666.7	562.0	482.6	437.5	443.0	446.3	439.7	438.6
65°	4579.6	2659.0	867.2	595.0	522.3	451.8	409.9	424.2	433.1	433.1	430.9
67.5°	3714.6	2041.9	730.6	533.3	472.7	409.9	379.1	390.1	396.7	394.5	400.0
70°	2640.2	1382.9	595.0	462.8	409.9	362.5	339.4	339.4	335.0	332.8	332.8
72.5°	1280.4	790.1	482.6	386.8	349.3	309.6	290.9	283.2	274.4	273.3	267.8
73°	1070.0	708.5	460.6	372.5	335.0	301.9	281.0	268.9	263.4	259.0	257.9
75°	651.2	537.7	384.6	314.0	285.4	260.1	241.3	230.3	224.8	221.5	220.4
77.5°	428.7	401.1	298.6	240.2	218.2	202.8	195.0	184.0	180.7	176.3	176.3
80°	319.6	306.3	213.8	169.7	156.5	143.3	141.0	138.8	130.0	124.5	122.3
82.5°	206.1	218.2	145.5	113.5	99.2	88.2	89.3	92.6	83.7	76.0	73.8
85°	146.6	157.6	88.2	51.8	41.9	36.4	40.8	36.4	37.5	29.8	24.2
87.5°	24.2	41.9	15.4	6.6	3.3	2.2	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)