

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: P452342

Luminaire Tested: **GALN-SA3B-740-U-SL2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452342  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3B-740-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13902 lumens  
Efficiency: N/A  
Efficacy: 114.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

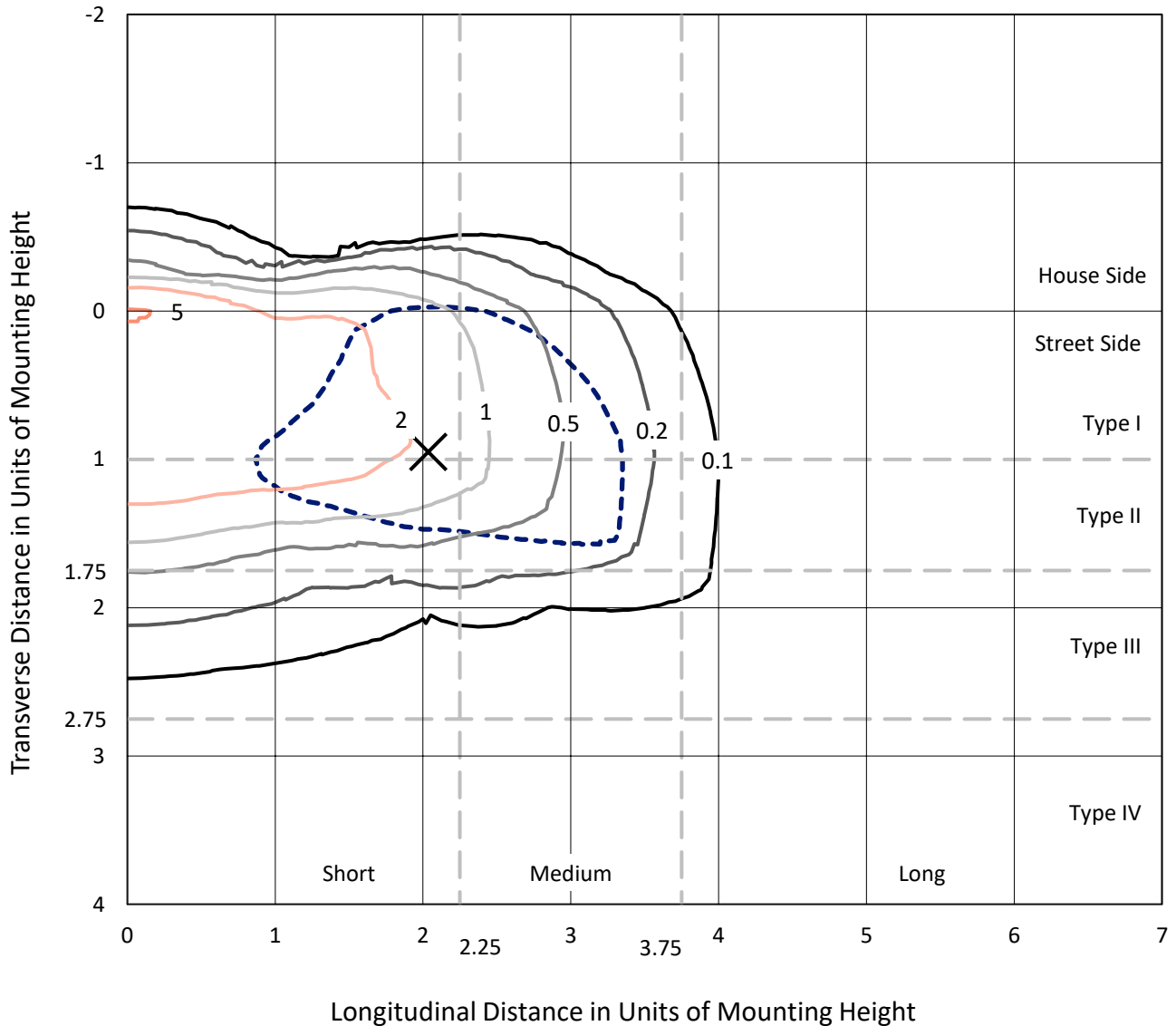
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

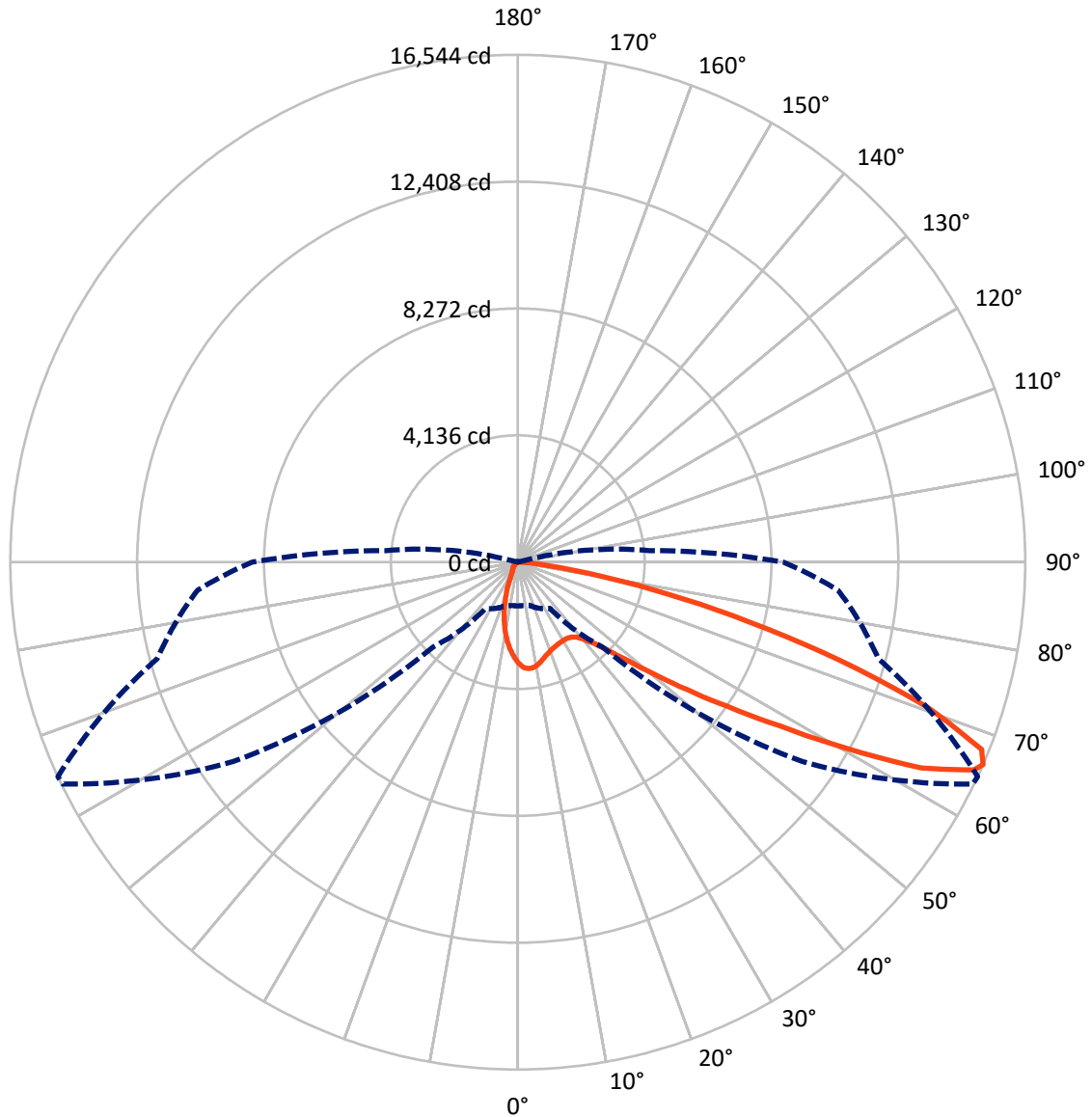
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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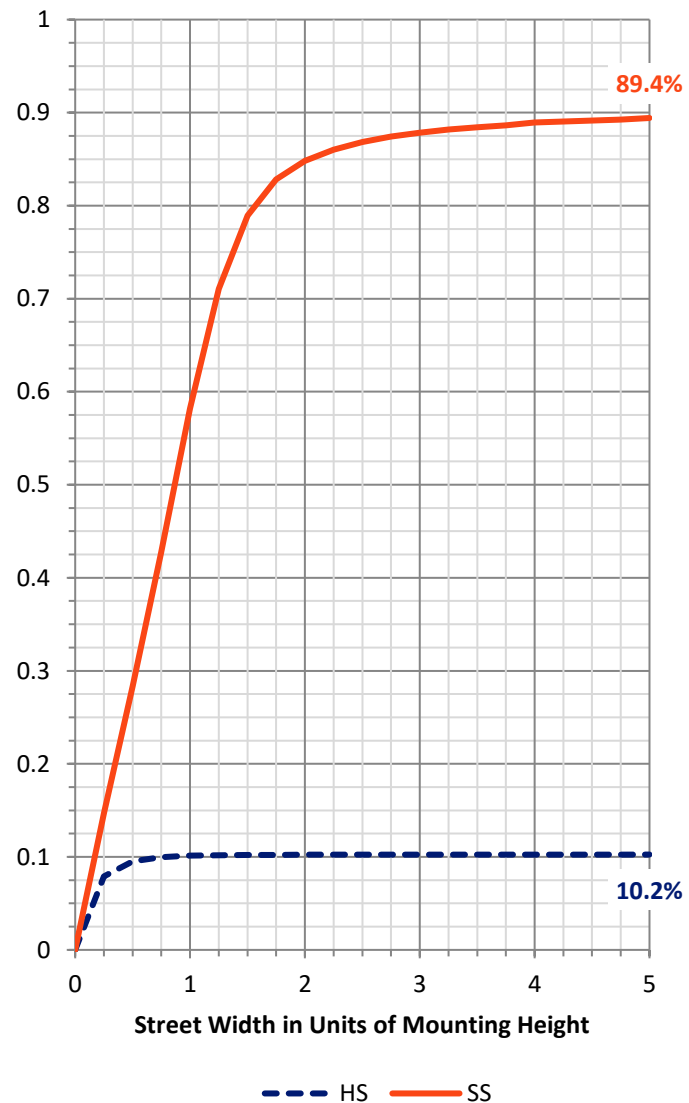
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1437.7	0.0	1437.7
	% Fixture	10.3	0.0	10.3
<b>Street Side</b>	Lumens	12464.3	0.0	12464.3
	% Fixture	89.7	0.0	89.7
<b>Total</b>	Lumens	13902.0	0.0	13902.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	269.6	1.9
10°-20°	587.5	4.2
20°-30°	841.5	6.1
30°-40°	1229.1	8.8
40°-50°	2061.0	14.8
50°-60°	3439.5	24.7
60°-70°	3651.0	26.3
70°-80°	1653.5	11.9
80°-90°	169.2	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°	13902.0	100.0
0°-180°	13902.0	100.0



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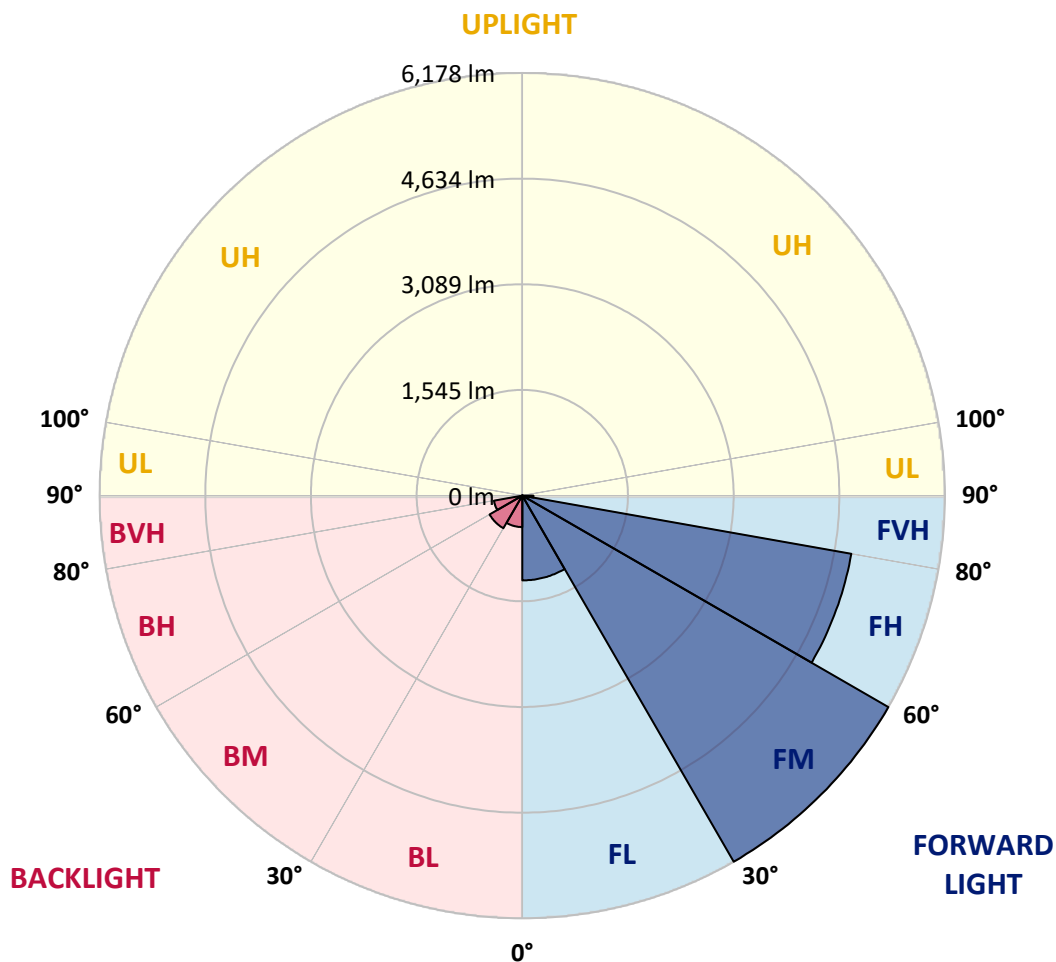
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1238.7	8.9			
FM (30°-60°)	6178.4	44.4			
FH (60°-80°)	4883.5	35.1			G2/5000
FVH (80°-90°)	163.8	1.2			G2/225
BL (0°-30°)	459.9	3.3	B1/500		
BM (30°-60°)	551.4	4.0	B1/1000		
BH (60°-80°)	421.0	3.0	B1/500		G1/500
BVH (80°-90°)	5.4	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-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	3296.7	3296.7	3296.7	3296.7	3296.7	3296.7	3296.7	3296.7	3296.7	3296.7	3296.7
2.5°	3474.1	3477.9	3482.6	3489.2	3493.9	3479.8	3460.1	3437.5	3432.8	3384.9	3326.7
5°	3288.2	3293.9	3335.2	3357.7	3408.4	3454.4	3483.5	3487.3	3485.4	3440.3	3347.4
7.5°	3023.4	3039.4	3079.8	3119.2	3214.0	3301.4	3404.7	3477.0	3481.7	3469.4	3354.0
10°	2808.4	2818.7	2839.4	2917.3	2996.2	3129.5	3274.1	3410.3	3421.6	3470.4	3348.3
12.5°	2640.3	2655.4	2680.7	2740.8	2835.6	2961.5	3125.8	3308.9	3332.4	3452.5	3332.4
15°	2523.0	2530.5	2555.8	2615.0	2707.0	2823.4	2989.6	3202.8	3223.4	3429.1	3329.5
17.5°	2467.6	2476.0	2493.9	2540.8	2616.9	2724.9	2887.3	3117.3	3143.6	3414.0	3339.9
20°	2482.6	2490.1	2491.1	2515.5	2567.1	2658.2	2812.2	3037.5	3071.3	3404.7	3356.8
22.5°	2568.0	2569.0	2557.7	2546.5	2564.3	2630.0	2766.2	2986.8	3021.6	3402.8	3376.5
25°	2695.7	2698.6	2679.8	2640.3	2604.7	2638.5	2755.8	2954.0	2984.9	3398.1	3388.7
27.5°	2872.3	2871.3	2865.7	2800.0	2698.6	2676.0	2764.3	2936.1	2962.4	3384.9	3393.4
30°	3119.2	3111.7	3099.5	3025.3	2870.4	2767.1	2800.0	2924.9	2949.3	3366.2	3381.2
32.5°	3362.4	3390.6	3388.7	3318.3	3124.8	2929.5	2874.1	2939.9	2957.7	3354.0	3363.3
35°	3646.0	3645.0	3717.3	3691.0	3464.8	3137.1	3000.9	2989.6	3003.7	3362.4	3354.9
37.5°	3908.9	3933.3	4046.0	4073.2	3866.6	3430.0	3180.2	3096.7	3101.4	3419.7	3375.5
40°	4236.6	4283.5	4451.6	4542.7	4360.5	3864.7	3445.0	3292.9	3293.9	3560.5	3453.5
42.5°	4659.1	4733.3	4890.1	5042.2	4944.5	4379.3	3842.2	3603.7	3601.8	3808.4	3631.9
45°	5172.7	5224.4	5402.8	5644.1	5582.1	5097.6	4420.6	4085.4	4061.0	4215.0	3948.3
47.5°	5615.9	5686.3	5867.5	6142.7	6424.3	5974.6	5111.7	4747.4	4731.4	4861.9	4491.0
50°	5809.3	5871.3	6061.9	6447.8	7130.4	7125.7	6140.8	5713.6	5686.3	5756.7	5330.5
52.5°	5597.1	5655.3	5847.8	6328.6	7462.8	8528.5	7631.8	6925.7	6892.9	6802.7	6333.3
55°	4870.4	4918.3	5202.8	5754.9	7335.1	9463.7	9686.3	8423.4	8295.7	7945.5	7468.5
57.5°	3877.9	3853.5	4030.0	4671.3	6585.8	9777.4	11795.2	10289.1	10060.9	8933.2	8429.0
60°	2687.3	2762.4	2833.8	3256.3	4952.1	9233.7	13106.9	12634.6	12334.1	9905.1	9349.2
62.5°	1975.6	2025.3	2072.3	2267.6	3113.6	7372.7	13338.8	15044.0	14777.3	10937.0	10227.1
65°	1562.4	1566.2	1585.0	1777.4	2051.6	4794.3	12224.3	16402.6	16334.1	11930.4	10583.0
66°	1423.5	1424.4	1453.5	1660.1	1841.3	3904.2	11331.3	16505.9	16543.5	12168.9	10478.8
67.5°	1244.1	1240.4	1282.6	1492.0	1677.0	2815.0	9733.2	16087.1	16309.7	12352.0	10104.1
70°	964.3	959.6	1011.3	1251.6	1544.6	1877.9	6469.4	13813.0	14171.7	11977.3	8939.8
72.5°	642.2	646.0	734.3	987.8	1474.2	1653.5	3892.0	10507.9	11014.9	9891.0	7032.8
75°	374.6	381.2	481.7	734.3	1279.8	1576.5	2202.8	7492.9	7816.8	6830.0	4381.2
77.5°	196.2	199.1	269.5	484.5	981.2	1463.8	1467.6	4786.8	4938.9	3319.2	1734.3
80°	104.2	101.4	144.6	292.0	675.1	1285.4	1190.6	2534.2	2634.7	985.9	438.5
82.5°	39.4	43.2	77.0	191.5	399.1	923.0	1025.3	1120.2	1085.4	216.9	184.0
85°	7.5	9.4	32.9	113.6	200.9	385.9	755.9	549.3	508.9	81.7	106.1
87.5°	0.9	1.9	9.4	27.2	29.1	130.5	223.5	152.1	131.5	30.0	44.1
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°	3296.7	3296.7	3296.7	3296.7	3296.7	3296.7	3296.7	3296.7	3296.7	3296.7	3296.7
2.5°	3298.6	3273.2	3188.7	3105.1	3019.7	2942.7	2890.1	2804.7	2783.1	2752.1	2734.2
5°	3292.0	3232.8	3070.4	2892.9	2727.7	2549.3	2413.1	2281.7	2211.2	2175.6	2162.4
7.5°	3273.2	3179.3	2925.8	2647.9	2383.1	2116.4	1884.5	1708.0	1594.3	1516.4	1463.8
10°	3235.6	3106.1	2757.7	2375.6	1975.6	1623.5	1329.6	1106.1	933.3	878.9	880.7
12.5°	3197.1	3024.4	2569.9	2073.2	1577.4	1133.3	821.6	645.1	562.4	535.2	529.6
15°	3161.5	2946.4	2385.9	1780.3	1174.6	734.3	529.6	467.6	445.1	440.4	439.4
17.5°	3142.7	2874.1	2189.6	1445.1	819.7	498.6	424.4	407.5	400.9	396.2	394.4
20°	3126.7	2811.2	2001.9	1131.4	560.6	408.4	380.3	364.3	353.0	348.4	345.5
22.5°	3115.5	2746.4	1807.5	876.0	429.1	362.4	337.1	316.4	300.5	294.8	291.1
25°	3098.6	2675.1	1611.2	640.4	361.5	322.1	293.0	268.5	247.9	237.6	235.7
27.5°	3074.1	2594.3	1396.2	474.2	323.0	286.4	250.7	220.7	200.0	188.7	189.7
30°	3034.7	2509.8	1181.2	376.5	292.0	249.8	211.3	182.2	162.4	154.0	153.0
32.5°	2987.8	2407.5	984.0	323.0	263.8	216.9	176.5	151.2	136.1	129.6	128.6
35°	2943.6	2304.2	783.1	290.1	234.7	186.9	148.4	126.8	115.5	109.9	110.8
37.5°	2919.2	2212.2	610.3	263.8	211.3	160.6	127.7	108.9	98.6	93.9	93.0
40°	2935.2	2137.1	485.4	240.4	185.0	138.0	109.9	93.9	83.6	77.0	77.0
42.5°	3010.3	2104.2	391.5	217.8	160.6	119.2	95.8	80.8	69.5	62.9	63.8
45°	3239.4	2138.9	327.7	197.2	138.0	103.3	82.6	66.7	56.3	51.6	50.7
47.5°	3619.7	2269.5	283.6	175.6	118.3	88.3	69.5	55.4	45.1	41.3	40.4
50°	4284.5	2538.9	250.7	154.0	100.5	75.1	57.3	44.1	35.7	31.9	31.9
52.5°	5199.0	3126.7	227.2	129.6	84.5	63.8	46.9	35.7	28.2	25.4	24.4
55°	6154.9	3746.4	215.0	108.9	70.4	52.6	37.6	28.2	21.6	18.8	17.8
57.5°	7074.1	4232.8	200.9	88.3	56.3	40.4	29.1	21.6	15.0	13.1	12.2
60°	7955.8	4626.2	170.9	70.4	44.1	29.1	21.6	15.0	10.3	8.5	8.5
62.5°	8744.5	4855.3	134.3	56.3	33.8	20.7	14.1	11.3	7.5	5.6	5.6
65°	8836.5	4557.7	101.4	43.2	24.4	13.1	8.5	8.5	5.6	3.8	3.8
66°	8651.5	4305.1	89.2	39.4	21.6	11.3	7.5	6.6	4.7	2.8	2.8
67.5°	8238.4	3874.1	77.0	33.8	17.8	8.5	5.6	5.6	3.8	1.9	1.9
70°	7118.2	3164.3	61.0	25.4	13.1	6.6	3.8	3.8	2.8	1.9	1.9
72.5°	5425.3	2362.4	49.8	18.8	9.4	4.7	2.8	2.8	2.8	1.9	1.9
75°	3272.3	1272.3	38.5	14.1	8.5	3.8	1.9	2.8	3.8	2.8	1.9
77.5°	1205.6	432.9	30.0	11.3	6.6	3.8	1.9	1.9	3.8	2.8	2.8
80°	295.8	112.7	21.6	9.4	6.6	3.8	1.9	1.9	3.8	3.8	3.8
82.5°	137.1	47.9	15.0	8.5	6.6	3.8	1.9	1.9	2.8	3.8	3.8
85°	78.9	22.5	12.2	9.4	6.6	3.8	1.9	1.9	2.8	3.8	3.8
87.5°	31.9	11.3	11.3	9.4	7.5	4.7	1.9	1.9	1.9	2.8	2.8
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)