

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: P456069

Luminaire Tested: **GALN-SA7B-740-U-T3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456069  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA7B-740-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 29098 lumens  
Efficiency: N/A  
Efficacy: 101.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

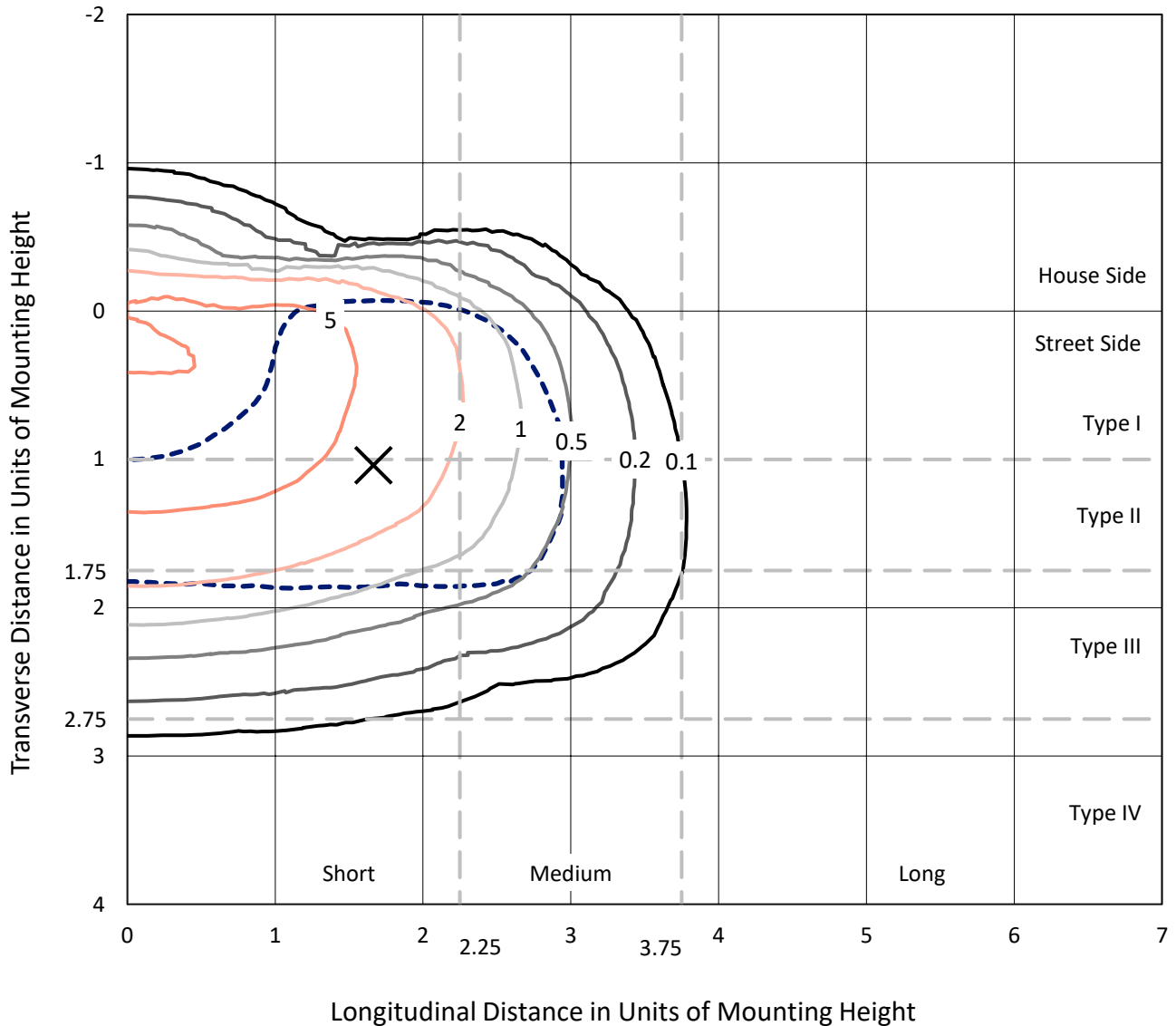
Input Watts (W): 286  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P456069  
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### Iso-Footcandle Lines of Horizontal Illumination

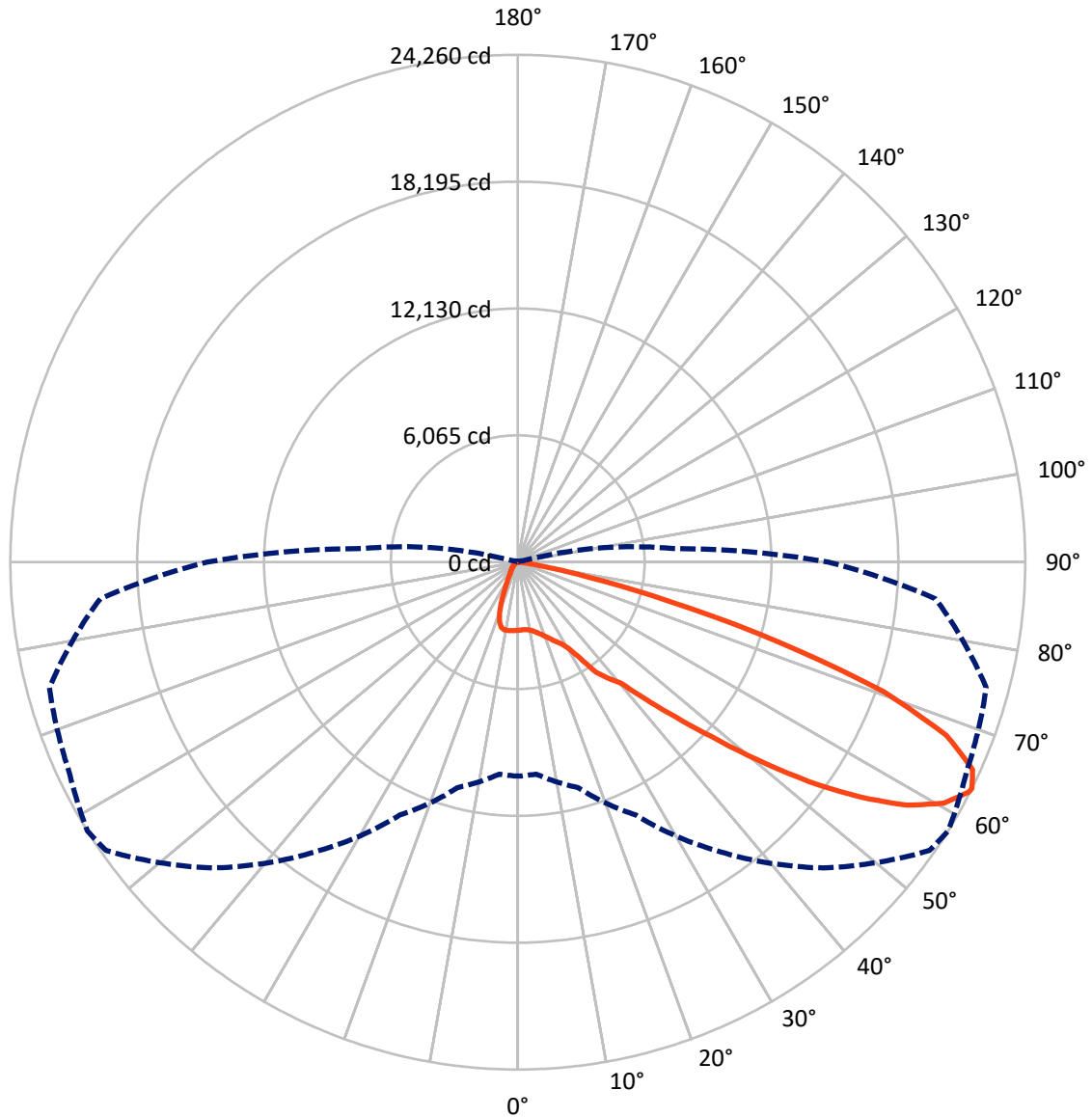
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 63-Deg Vertical

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 CATALOG NUMBER: GALN-SA7B-740-U-T3-HSS

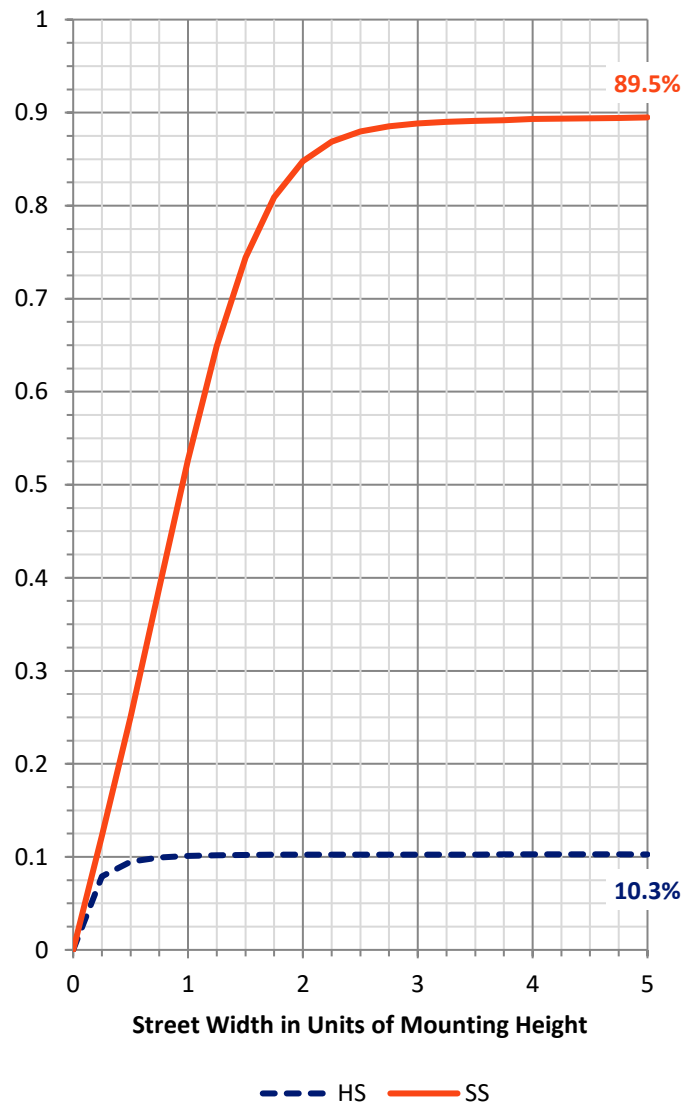
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3012.9	0.0	3012.9
	% Fixture	10.4	0.0	10.4
<b>Street Side</b>	Lumens	26085.1	0.0	26085.1
	% Fixture	89.6	0.0	89.6
<b>Total</b>	Lumens	29098.0	0.0	29098.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	305.0	1.0
10°-20°	830.6	2.9
20°-30°	1441.5	5.0
30°-40°	2649.0	9.1
40°-50°	4986.7	17.1
50°-60°	8529.3	29.3
60°-70°	8166.8	28.1
70°-80°	2082.6	7.2
80°-90°	106.5	0.4
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°	29098.0	100.0
0°-180°	29098.0	100.0



REPORT NUMBER: P456069

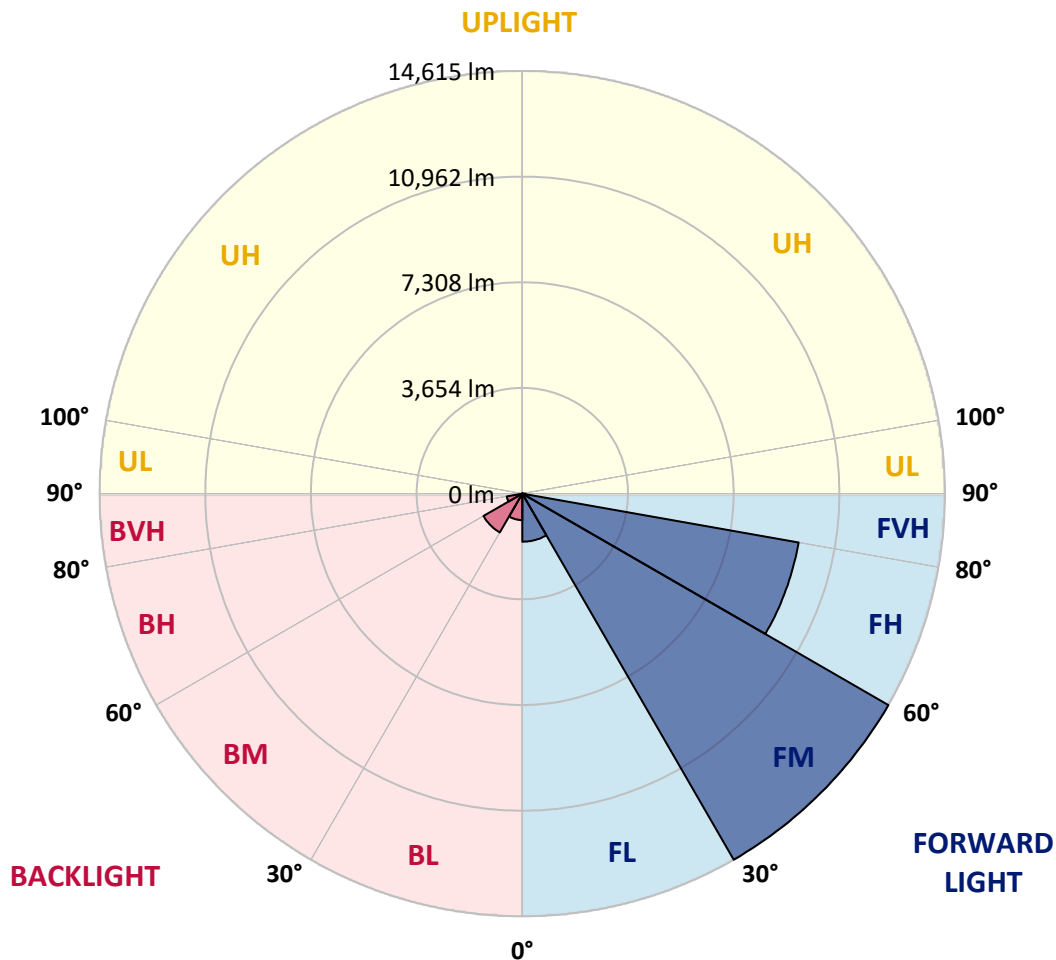
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1663.4	5.7			
FM (30°-60°)	14615.3	50.2			
FH (60°-80°)	9704.0	33.3			G4/12000
FVH (80°-90°)	102.4	0.4			G2/225
BL (0°-30°)	913.7	3.1	B2/1000		
BM (30°-60°)	1549.7	5.3	B2/2500		
BH (60°-80°)	545.4	1.9	B2/1000		G2/1000
BVH (80°-90°)	4.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

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

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3257.6	3257.6	3257.6	3257.6	3257.6	3257.6	3257.6	3257.6	3257.6	3257.6	3257.6
2.5°	3176.6	3187.5	3198.5	3202.9	3218.2	3233.5	3244.5	3242.3	3259.8	3268.6	3268.6
5°	3049.5	3049.5	3078.0	3104.3	3148.1	3191.9	3233.5	3242.3	3275.2	3305.8	3316.8
7.5°	2942.2	2948.7	2970.6	3018.8	3078.0	3154.7	3237.9	3257.6	3314.6	3382.5	3411.0
10°	2891.8	2896.2	2924.6	2975.0	3049.5	3154.7	3270.8	3308.0	3395.7	3503.0	3542.4
12.5°	2880.8	2887.4	2915.9	2972.8	3058.3	3185.3	3343.1	3382.5	3509.6	3647.6	3706.7
15°	2900.5	2904.9	2933.4	2994.7	3088.9	3240.1	3439.5	3494.2	3645.4	3805.3	3882.0
17.5°	2970.6	2966.3	2986.0	3036.4	3141.5	3308.0	3555.6	3621.3	3798.7	4017.8	4068.2
20°	3268.6	3240.1	3222.6	3178.8	3220.4	3404.4	3695.8	3792.2	4011.2	4234.7	4269.8
22.5°	3910.5	3846.9	3722.1	3551.2	3419.7	3535.9	3864.5	3976.2	4258.8	4477.9	4477.9
25°	4727.6	4646.6	4521.7	4149.3	3827.2	3752.7	4055.1	4195.3	4528.3	4749.5	4677.2
27.5°	5750.7	5687.2	5444.0	5010.2	4517.3	4131.7	4276.3	4405.6	4767.1	5034.3	4883.2
30°	6583.2	6552.5	6353.2	5965.4	5422.1	4859.1	4688.2	4773.6	5084.7	5393.6	5238.1
32.5°	7286.4	7286.4	7082.7	6721.2	6212.9	5713.5	5387.0	5448.4	5746.3	6103.4	5814.2
35°	8059.7	8033.5	7869.1	7525.2	6955.6	6515.3	6381.6	6464.9	6734.3	6999.4	6287.4
37.5°	8872.5	8863.7	8692.9	8359.9	7895.4	7341.2	7027.9	7049.8	7187.8	7349.9	6841.7
40°	9755.4	9768.5	9545.1	9339.1	8901.0	8333.6	7733.3	7595.3	7724.6	8182.4	7864.8
42.5°	10798.2	10767.5	10671.1	10390.7	10038.0	9698.4	8977.7	8927.3	9041.2	9531.9	9188.0
45°	12009.6	12053.5	11887.0	11731.4	11494.8	11212.2	10609.8	10522.1	10647.0	11409.4	10920.8
47.5°	13223.3	13181.7	13289.0	13260.6	13387.6	13177.3	12645.0	12465.3	12765.5	13488.4	12769.8
50°	14147.8	14193.8	14417.3	14743.7	15289.2	15407.5	14897.0	14835.7	14969.3	15433.8	14423.8
52.5°	14748.1	14901.4	15251.9	16091.0	17074.6	17839.2	17451.5	17418.6	17363.8	17488.7	16005.6
55°	15140.2	15295.8	15753.6	16989.2	18682.6	19924.8	19944.5	19804.3	19442.8	19353.0	17484.3
57.5°	14899.2	14929.9	15582.7	17234.6	19574.3	21412.3	22056.4	21916.2	21248.0	20908.4	18790.0
60°	13392.0	13455.5	14364.7	16305.7	19186.5	21898.7	23456.3	23392.7	22661.0	22277.7	19806.5
62.5°	10721.5	10905.5	11841.0	14005.4	17383.5	21079.3	24023.7	24203.3	23633.7	23105.8	20126.3
63°	10230.8	10171.6	11159.6	13335.0	16906.0	20674.0	24032.4	24260.3	23677.5	23184.6	20038.7
65°	7573.4	7750.8	8392.7	10515.6	14068.9	18787.8	23491.3	23894.4	23515.4	22836.3	19068.2
67.5°	4252.2	4243.5	4953.3	6881.1	9847.4	14737.1	21241.4	22093.6	22014.8	20492.2	15806.2
70°	2081.2	2114.1	2405.4	3566.5	5711.3	10167.2	17650.8	18570.9	18599.4	16095.4	10929.6
72.5°	942.0	957.4	1165.5	1737.3	2935.6	5413.3	12163.0	13041.5	12879.4	10257.1	6035.5
75°	497.3	530.2	641.9	874.1	1415.2	2232.4	6616.0	7466.0	7126.5	4686.0	2221.4
77.5°	368.0	379.0	436.0	556.4	758.0	869.7	2854.5	3395.7	3181.0	1695.6	736.1
80°	269.5	278.2	324.2	394.3	477.6	442.5	1075.7	1233.4	1106.3	576.2	225.6
82.5°	164.3	166.5	236.6	293.6	300.1	247.6	354.9	381.2	398.7	324.2	122.7
85°	59.2	74.5	159.9	212.5	177.5	124.9	149.0	164.3	179.6	205.9	72.3
87.5°	6.6	8.8	76.7	103.0	50.4	46.0	54.8	61.3	65.7	76.7	35.1
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°	3257.6	3257.6	3257.6	3257.6	3257.6	3257.6	3257.6	3257.6	3257.6	3257.6	3257.6
2.5°	3277.4	3286.1	3279.5	3268.6	3266.4	3259.8	3246.7	3246.7	3246.7	3251.1	3246.7
5°	3325.5	3332.1	3316.8	3294.9	3270.8	3240.1	3207.2	3187.5	3185.3	3181.0	3170.0
7.5°	3417.6	3426.3	3391.3	3338.7	3273.0	3198.5	3128.4	3062.7	3032.0	3007.9	3007.9
10°	3551.2	3560.0	3489.9	3395.7	3264.2	3113.0	2946.5	2795.4	2677.1	2622.3	2609.2
12.5°	3711.1	3715.5	3599.4	3435.1	3218.2	2926.8	2571.9	2241.1	2011.1	1905.9	1895.0
15°	3886.4	3855.7	3702.4	3450.4	3086.8	2543.5	1930.0	1524.8	1286.0	1215.9	1242.2
17.5°	4063.8	4006.9	3781.2	3426.3	2791.0	1930.0	1296.9	1040.6	966.1	946.4	946.4
20°	4230.3	4151.5	3838.2	3321.2	2278.4	1329.8	961.7	900.4	887.3	874.1	876.3
22.5°	4396.8	4276.3	3888.6	3086.8	1697.8	950.8	861.0	841.2	823.7	806.2	804.0
25°	4558.9	4392.4	3908.3	2653.0	1156.7	817.1	786.5	760.2	725.1	705.4	701.0
27.5°	4727.6	4532.6	3895.1	2105.3	843.4	731.7	701.0	663.8	622.2	587.1	587.1
30°	5051.9	4799.9	3849.1	1513.8	709.8	644.1	604.6	545.5	499.5	464.4	462.2
32.5°	5494.4	5148.2	3691.4	1064.7	630.9	567.4	508.3	442.5	394.3	368.0	368.0
35°	5888.7	5498.8	3395.7	784.3	567.4	492.9	420.6	357.1	319.8	302.3	295.8
37.5°	6489.0	6011.4	2988.2	637.5	506.1	427.2	352.7	293.6	262.9	249.7	249.7
40°	7389.4	6637.9	2488.7	558.6	446.9	363.7	293.6	247.6	223.5	208.1	208.1
42.5°	8506.7	7404.7	1982.6	501.7	392.1	313.3	245.4	210.3	188.4	177.5	175.3
45°	9913.1	8213.1	1526.9	449.1	348.3	267.3	208.1	177.5	155.5	149.0	151.2
47.5°	11380.9	8925.1	1183.0	403.1	302.3	225.6	177.5	153.4	138.0	129.3	129.3
50°	12634.0	9415.8	898.2	350.5	267.3	190.6	155.5	138.0	124.9	120.5	118.3
52.5°	13681.2	9558.2	687.9	304.5	234.4	164.3	138.0	124.9	113.9	107.3	107.3
55°	14572.8	9433.3	538.9	256.3	197.2	142.4	122.7	111.7	98.6	92.0	89.8
57.5°	15094.2	9032.4	411.9	212.5	159.9	118.3	107.3	94.2	78.9	67.9	67.9
60°	15357.1	8449.7	315.5	175.3	122.7	94.2	87.6	70.1	54.8	46.0	43.8
62.5°	15041.6	7676.4	238.8	138.0	92.0	70.1	59.2	50.4	35.1	26.3	26.3
63°	14846.7	7452.9	230.0	131.4	85.4	65.7	54.8	46.0	30.7	24.1	21.9
65°	13534.4	6478.0	188.4	105.2	67.9	46.0	37.2	32.9	21.9	11.0	8.8
67.5°	10747.8	4955.5	149.0	78.9	48.2	32.9	21.9	19.7	6.6	0.0	0.0
70°	7266.7	3200.7	116.1	57.0	32.9	19.7	11.0	8.8	2.2	0.0	0.0
72.5°	3790.0	1640.9	89.8	41.6	19.7	13.1	6.6	2.2	0.0	0.0	0.0
75°	1340.7	558.6	65.7	26.3	13.1	6.6	2.2	0.0	0.0	0.0	0.0
77.5°	405.3	208.1	41.6	19.7	8.8	4.4	0.0	0.0	0.0	0.0	0.0
80°	142.4	76.7	24.1	13.1	6.6	2.2	0.0	0.0	0.0	0.0	0.0
82.5°	70.1	37.2	15.3	11.0	6.6	2.2	0.0	0.0	0.0	0.0	0.0
85°	39.4	24.1	13.1	11.0	6.6	4.4	0.0	0.0	0.0	0.0	0.0
87.5°	28.5	17.5	13.1	11.0	8.8	4.4	2.2	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)