

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: P451878

Luminaire Tested: **GALN-SA2D-740-U-SL2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451878  
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-SA2D-740-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 4000K, 1200mA 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: 12732 lumens  
Efficiency: N/A  
Efficacy: 101.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

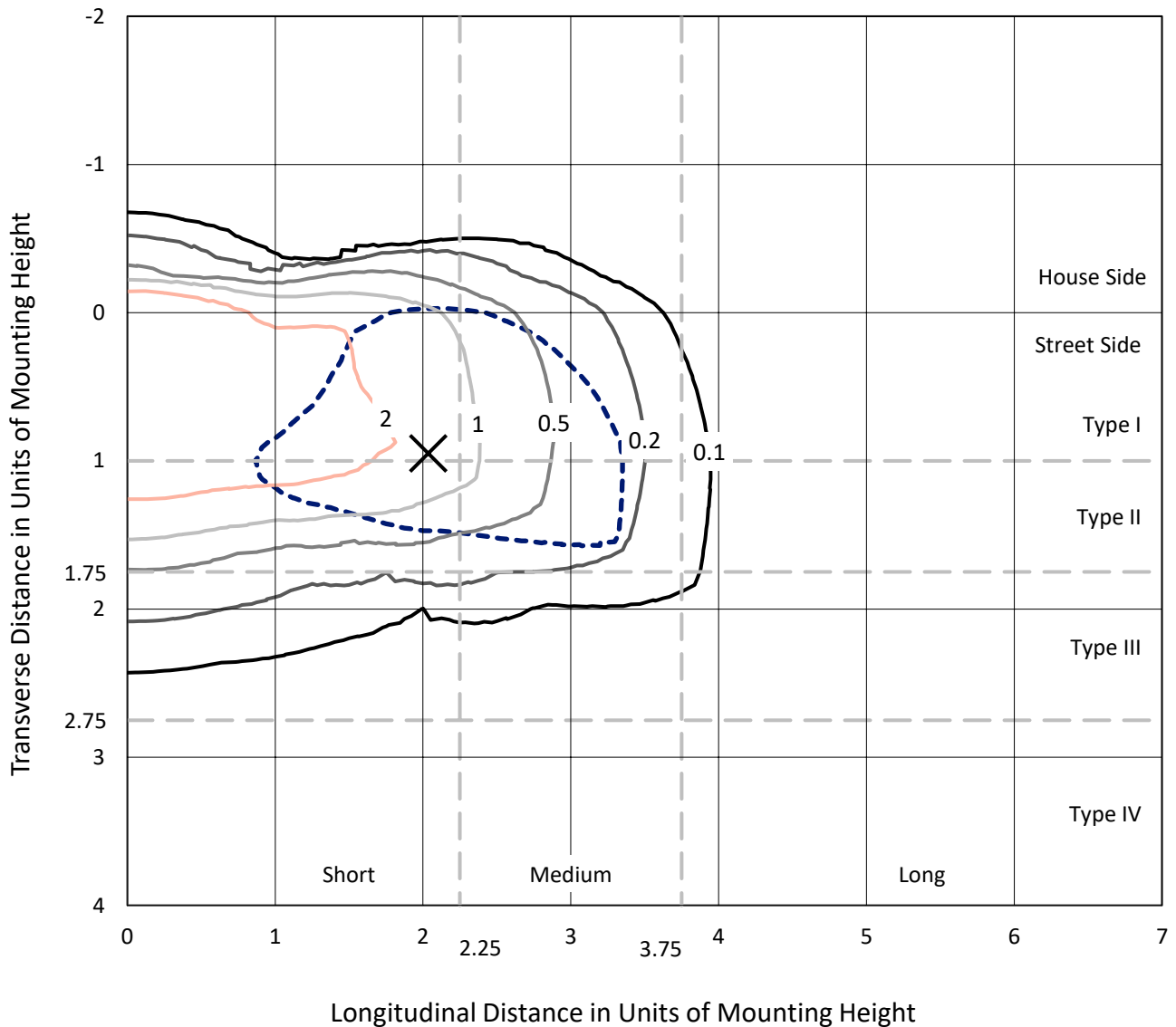
Input Watts (W): 125  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

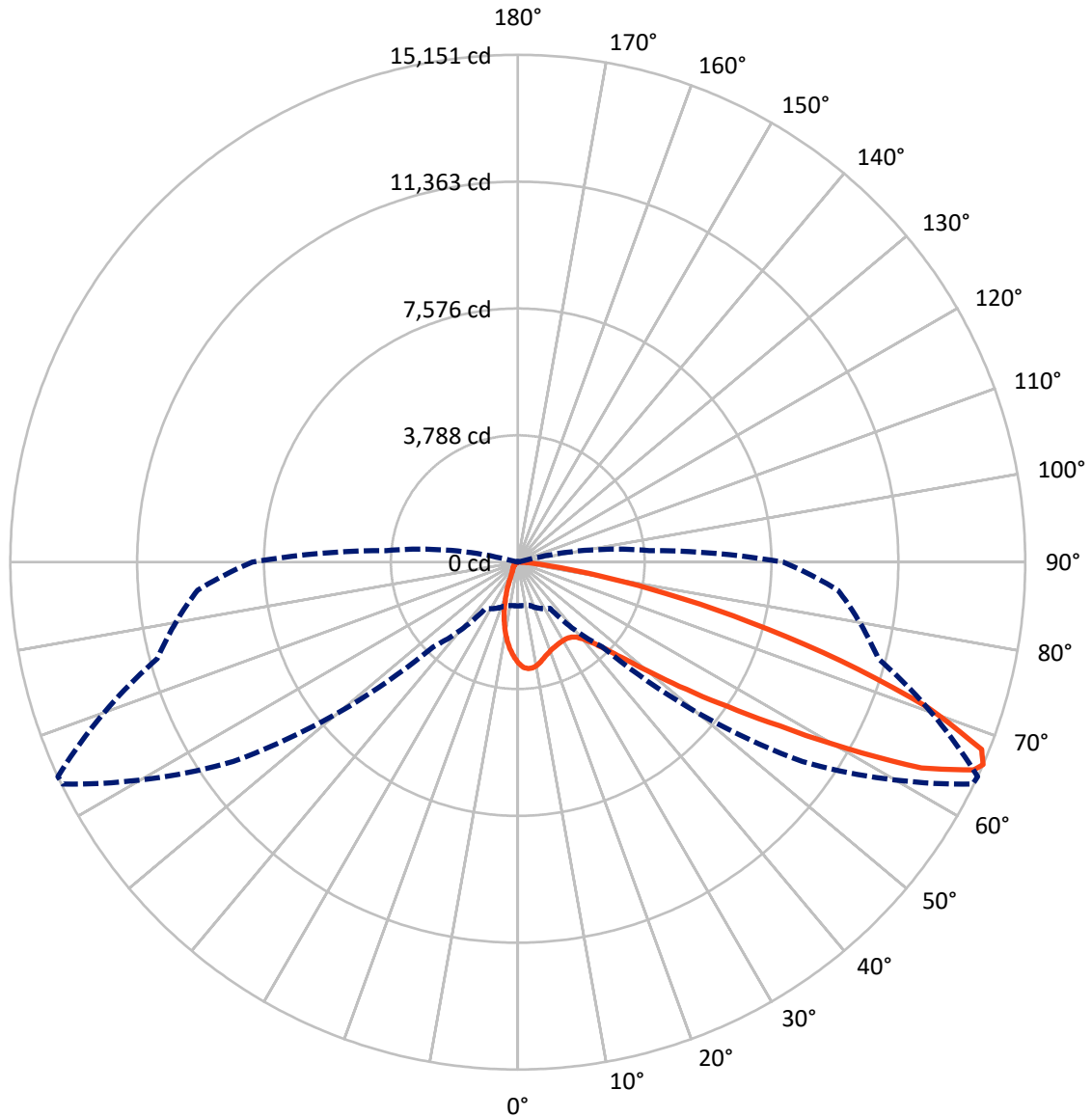
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 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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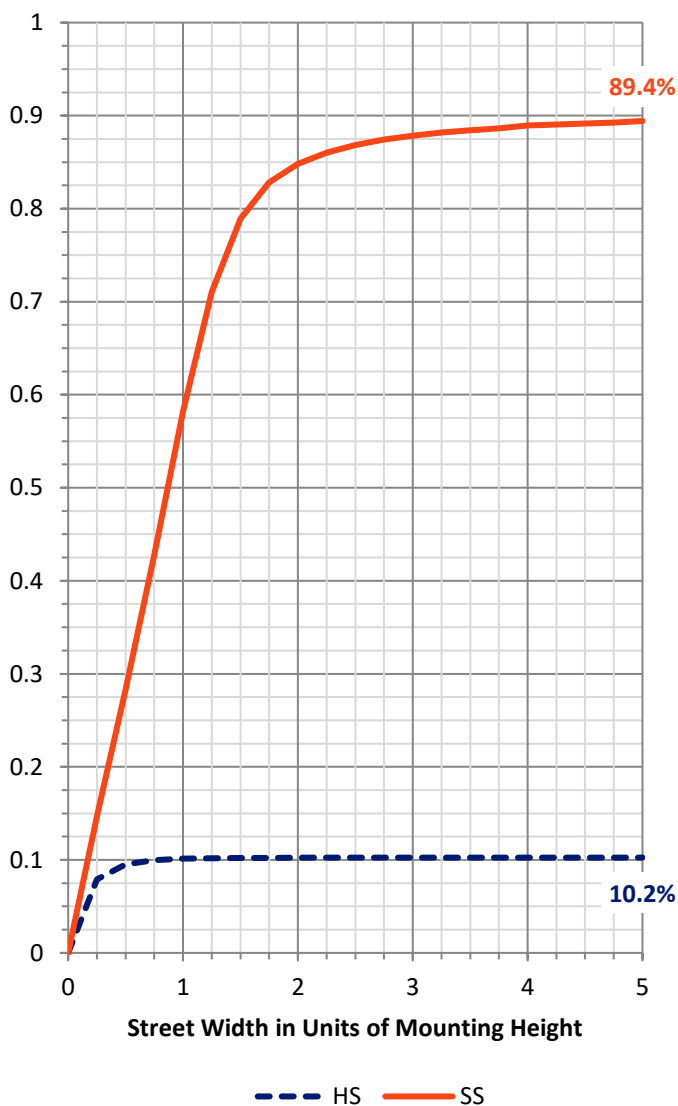
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1316.7	0.0	1316.7
	% Fixture	10.3	0.0	10.3
<b>Street Side</b>	Lumens	11415.3	0.0	11415.3
	% Fixture	89.7	0.0	89.7
<b>Total</b>	Lumens	12732.0	0.0	12732.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	246.9	1.9
10°-20°	538.0	4.2
20°-30°	770.7	6.1
30°-40°	1125.7	8.8
40°-50°	1887.6	14.8
50°-60°	3150.1	24.7
60°-70°	3343.7	26.3
70°-80°	1514.3	11.9
80°-90°	154.9	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°	12732.0	100.0
0°-180°	12732.0	100.0



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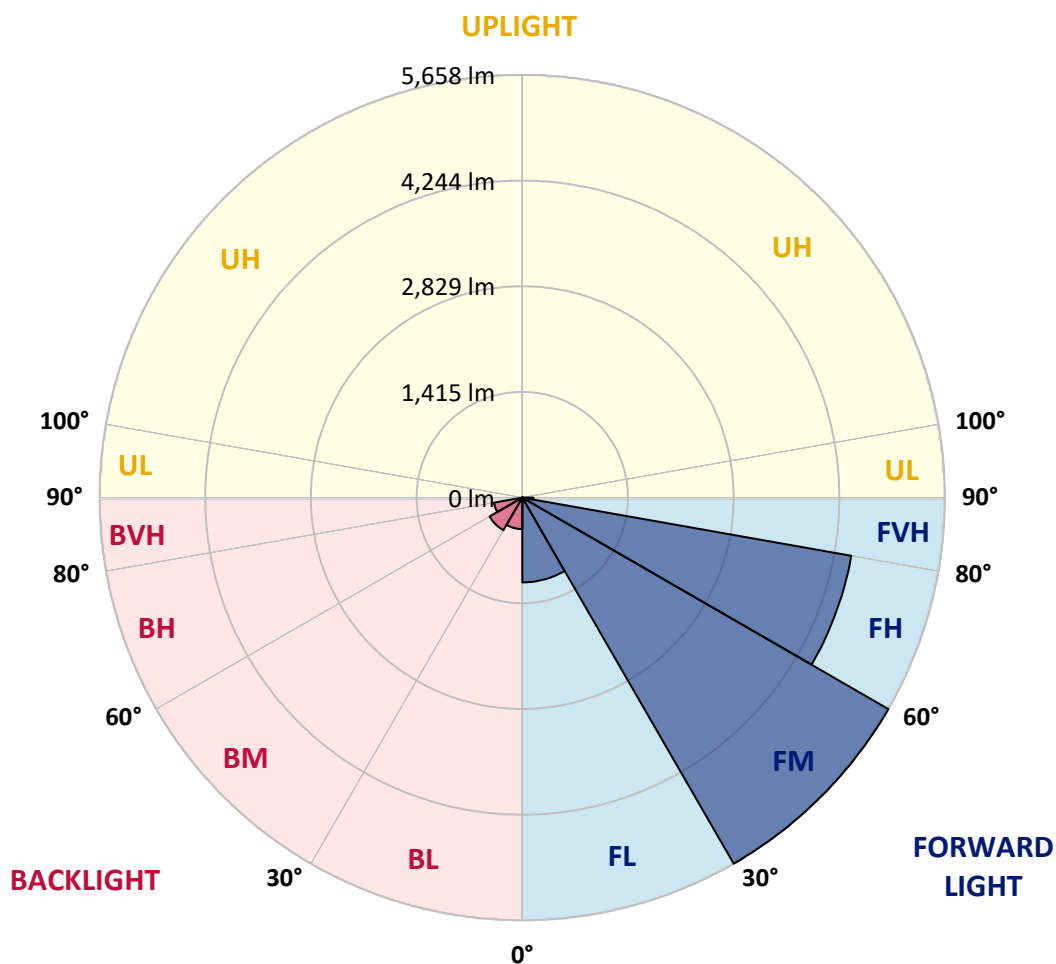
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1134.5	8.9			
FM (30°-60°)	5658.4	44.4			
FH (60°-80°)	4472.5	35.1			G2/5000
FVH (80°-90°)	150.0	1.2			G2/225
BL (0°-30°)	421.2	3.3	B1/500		
BM (30°-60°)	505.0	4.0	B1/1000		
BH (60°-80°)	385.6	3.0	B1/500		G1/500
BVH (80°-90°)	4.9	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°	3019.2	3019.2	3019.2	3019.2	3019.2	3019.2	3019.2	3019.2	3019.2	3019.2	3019.2
2.5°	3181.8	3185.2	3189.5	3195.5	3199.8	3186.9	3168.9	3148.2	3143.9	3100.1	3046.7
5°	3011.5	3016.6	3054.5	3075.1	3121.6	3163.7	3190.4	3193.8	3192.1	3150.8	3065.7
7.5°	2769.0	2783.6	2820.6	2856.7	2943.6	3023.5	3118.1	3184.3	3188.6	3177.5	3071.7
10°	2572.1	2581.5	2600.4	2671.8	2744.0	2866.2	2998.6	3123.3	3133.6	3178.3	3066.5
12.5°	2418.1	2431.9	2455.1	2510.1	2597.0	2712.2	2862.7	3030.4	3051.9	3162.0	3051.9
15°	2310.6	2317.5	2340.7	2394.9	2479.2	2585.8	2738.0	2933.2	2952.2	3140.5	3049.3
17.5°	2259.9	2267.6	2284.0	2327.0	2396.6	2495.5	2644.3	2855.0	2879.1	3126.7	3058.8
20°	2273.7	2280.5	2281.4	2303.8	2351.1	2434.5	2575.5	2781.9	2812.8	3118.1	3074.3
22.5°	2351.9	2352.8	2342.5	2332.1	2348.5	2408.7	2533.4	2735.4	2767.3	3116.4	3092.3
25°	2468.9	2471.4	2454.3	2418.1	2385.5	2416.4	2523.9	2705.4	2733.7	3112.1	3103.5
27.5°	2630.5	2629.7	2624.5	2564.3	2471.4	2450.8	2531.6	2689.0	2713.1	3100.1	3107.8
30°	2856.7	2849.8	2838.6	2770.7	2628.8	2534.2	2564.3	2678.7	2701.1	3082.9	3096.6
32.5°	3079.4	3105.2	3103.5	3039.0	2861.9	2683.0	2632.3	2692.5	2708.8	3071.7	3080.3
35°	3339.1	3338.3	3404.5	3380.4	3173.2	2873.0	2748.3	2738.0	2750.9	3079.4	3072.5
37.5°	3579.9	3602.3	3705.5	3730.4	3541.2	3141.3	2912.6	2836.1	2840.4	3131.9	3091.5
40°	3880.0	3923.0	4076.9	4160.4	3993.5	3539.5	3155.1	3015.8	3016.6	3260.9	3162.8
42.5°	4267.0	4334.9	4478.5	4617.8	4528.4	4010.7	3518.8	3300.4	3298.7	3487.9	3326.2
45°	4737.4	4784.7	4948.1	5169.1	5112.3	4668.6	4048.6	3741.6	3719.2	3860.2	3616.0
47.5°	5143.3	5207.8	5373.7	5625.7	5883.7	5471.8	4681.5	4347.8	4333.2	4452.7	4113.1
50°	5320.4	5377.2	5551.7	5905.2	6530.3	6526.0	5624.0	5232.7	5207.8	5272.3	4881.8
52.5°	5126.1	5179.4	5355.7	5796.0	6834.8	7810.8	6989.5	6342.9	6312.8	6230.2	5800.3
55°	4460.5	4504.3	4764.9	5270.5	6717.8	8667.3	8871.1	7714.5	7597.5	7276.8	6839.9
57.5°	3551.5	3529.2	3690.8	4278.2	6031.6	8954.5	10802.5	9423.2	9214.2	8181.4	7719.6
60°	2461.1	2529.9	2595.3	2982.2	4535.3	8456.6	12003.8	11571.3	11296.1	9071.4	8562.4
62.5°	1809.3	1854.9	1897.9	2076.7	2851.5	6752.2	12216.2	13777.9	13533.6	10016.5	9366.4
65°	1430.9	1434.4	1451.6	1627.9	1879.0	4390.8	11195.5	15022.2	14959.4	10926.3	9692.3
66°	1303.7	1304.5	1331.2	1520.4	1686.3	3575.6	10377.7	15116.8	15151.2	11144.7	9596.9
67.5°	1139.4	1136.0	1174.7	1366.4	1535.8	2578.1	8914.1	14733.2	14937.0	11312.4	9253.7
70°	883.2	878.9	926.1	1146.3	1414.6	1719.9	5924.9	12650.5	12979.0	10969.3	8187.4
72.5°	588.2	591.6	672.5	904.7	1350.1	1514.3	3564.4	9623.5	10087.9	9058.5	6440.9
75°	343.1	349.1	441.1	672.5	1172.1	1443.8	2017.4	6862.3	7158.9	6255.2	4012.5
77.5°	179.7	182.3	246.8	443.7	898.6	1340.6	1344.1	4383.9	4523.3	3039.9	1588.3
80°	95.5	92.9	132.4	267.4	618.3	1177.2	1090.4	2321.0	2413.0	902.9	401.6
82.5°	36.1	39.6	70.5	175.4	365.5	845.3	939.0	1025.9	994.1	198.6	168.5
85°	6.9	8.6	30.1	104.1	184.0	353.4	692.2	503.1	466.1	74.8	97.2
87.5°	0.9	1.7	8.6	24.9	26.7	119.5	204.7	139.3	120.4	27.5	40.4
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°	3019.2	3019.2	3019.2	3019.2	3019.2	3019.2	3019.2	3019.2	3019.2	3019.2	3019.2
2.5°	3020.9	2997.7	2920.3	2843.8	2765.5	2695.0	2646.9	2568.6	2548.8	2520.5	2504.1
5°	3014.9	2960.8	2812.0	2649.5	2498.1	2334.7	2210.0	2089.6	2025.1	1992.5	1980.4
7.5°	2997.7	2911.7	2679.6	2425.0	2182.5	1938.3	1725.9	1564.2	1460.2	1388.8	1340.6
10°	2963.3	2844.7	2525.6	2175.6	1809.3	1486.8	1217.7	1013.0	854.8	804.9	806.6
12.5°	2928.1	2769.8	2353.6	1898.7	1444.7	1037.9	752.4	590.8	515.1	490.2	485.0
15°	2895.4	2698.5	2185.1	1630.4	1075.8	672.5	485.0	428.2	407.6	403.3	402.4
17.5°	2878.2	2632.3	2005.4	1323.4	750.7	456.6	388.7	373.2	367.2	362.9	361.2
20°	2863.6	2574.6	1833.4	1036.2	513.4	374.1	348.3	333.7	323.3	319.0	316.5
22.5°	2853.3	2515.3	1655.4	802.3	393.0	331.9	308.7	289.8	275.2	270.0	266.6
25°	2837.8	2450.0	1475.6	586.5	331.1	295.0	268.3	245.9	227.0	217.6	215.8
27.5°	2815.4	2376.0	1278.7	434.3	295.8	262.3	229.6	202.1	183.2	172.8	173.7
30°	2779.3	2298.6	1081.8	344.8	267.4	228.7	193.5	166.8	148.8	141.0	140.2
32.5°	2736.3	2204.9	901.2	295.8	241.6	198.6	161.7	138.4	124.7	118.7	117.8
35°	2695.9	2110.3	717.2	265.7	215.0	171.1	135.9	116.1	105.8	100.6	101.5
37.5°	2673.5	2026.0	559.0	241.6	193.5	147.0	117.0	99.8	90.3	86.0	85.1
40°	2688.2	1957.2	444.6	220.1	169.4	126.4	100.6	86.0	76.5	70.5	70.5
42.5°	2756.9	1927.1	358.6	199.5	147.0	109.2	87.7	74.0	63.6	57.6	58.5
45°	2966.8	1958.9	300.1	180.6	126.4	94.6	75.7	61.1	51.6	47.3	46.4
47.5°	3315.0	2078.5	259.7	160.8	108.4	80.8	63.6	50.7	41.3	37.8	37.0
50°	3923.9	2325.3	229.6	141.0	92.0	68.8	52.5	40.4	32.7	29.2	29.2
52.5°	4761.5	2863.6	208.1	118.7	77.4	58.5	43.0	32.7	25.8	23.2	22.4
55°	5636.9	3431.1	196.9	99.8	64.5	48.2	34.4	25.8	19.8	17.2	16.3
57.5°	6478.7	3876.6	184.0	80.8	51.6	37.0	26.7	19.8	13.8	12.0	11.2
60°	7286.2	4236.9	156.5	64.5	40.4	26.7	19.8	13.8	9.5	7.7	7.7
62.5°	8008.6	4446.7	123.0	51.6	31.0	18.9	12.9	10.3	6.9	5.2	5.2
65°	8092.8	4174.1	92.9	39.6	22.4	12.0	7.7	7.7	5.2	3.4	3.4
66°	7923.4	3942.8	81.7	36.1	19.8	10.3	6.9	6.0	4.3	2.6	2.6
67.5°	7545.1	3548.1	70.5	31.0	16.3	7.7	5.2	5.2	3.4	1.7	1.7
70°	6519.2	2898.0	55.9	23.2	12.0	6.0	3.4	3.4	2.6	1.7	1.7
72.5°	4968.7	2163.6	45.6	17.2	8.6	4.3	2.6	2.6	2.6	1.7	1.7
75°	2996.9	1165.2	35.3	12.9	7.7	3.4	1.7	2.6	3.4	2.6	1.7
77.5°	1104.2	396.4	27.5	10.3	6.0	3.4	1.7	1.7	3.4	2.6	2.6
80°	270.9	103.2	19.8	8.6	6.0	3.4	1.7	1.7	3.4	3.4	3.4
82.5°	125.6	43.9	13.8	7.7	6.0	3.4	1.7	1.7	2.6	3.4	3.4
85°	72.2	20.6	11.2	8.6	6.0	3.4	1.7	1.7	2.6	3.4	3.4
87.5°	29.2	10.3	10.3	8.6	6.9	4.3	1.7	1.7	1.7	2.6	2.6
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)