

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: P451867

Luminaire Tested: **GALN-SA2D-730-U-T3R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451867  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2D-730-U-T3R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14498 lumens  
Efficiency: N/A  
Efficacy: 116.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B2 - U0 - G3

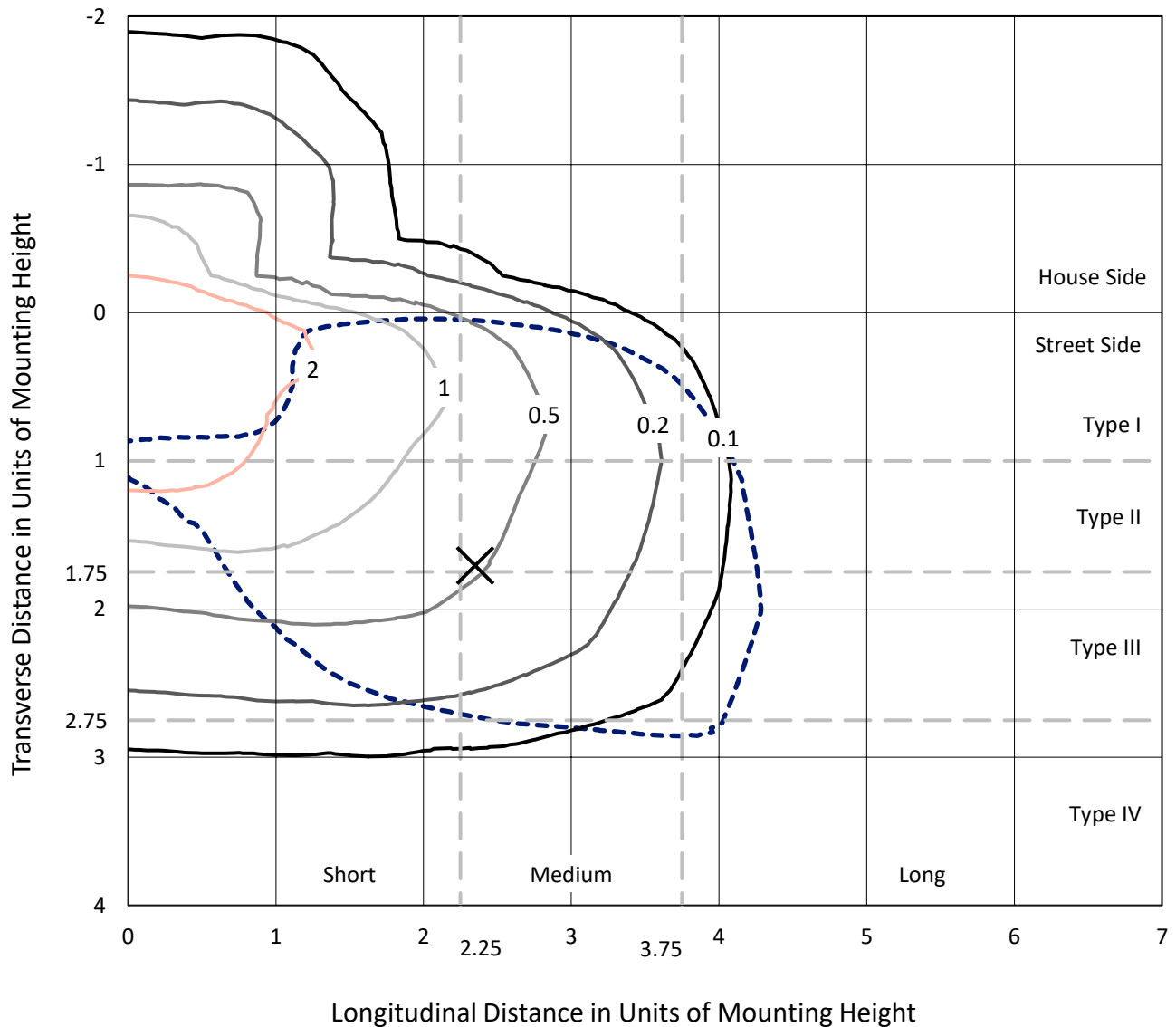
Input Watts (W): 125  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

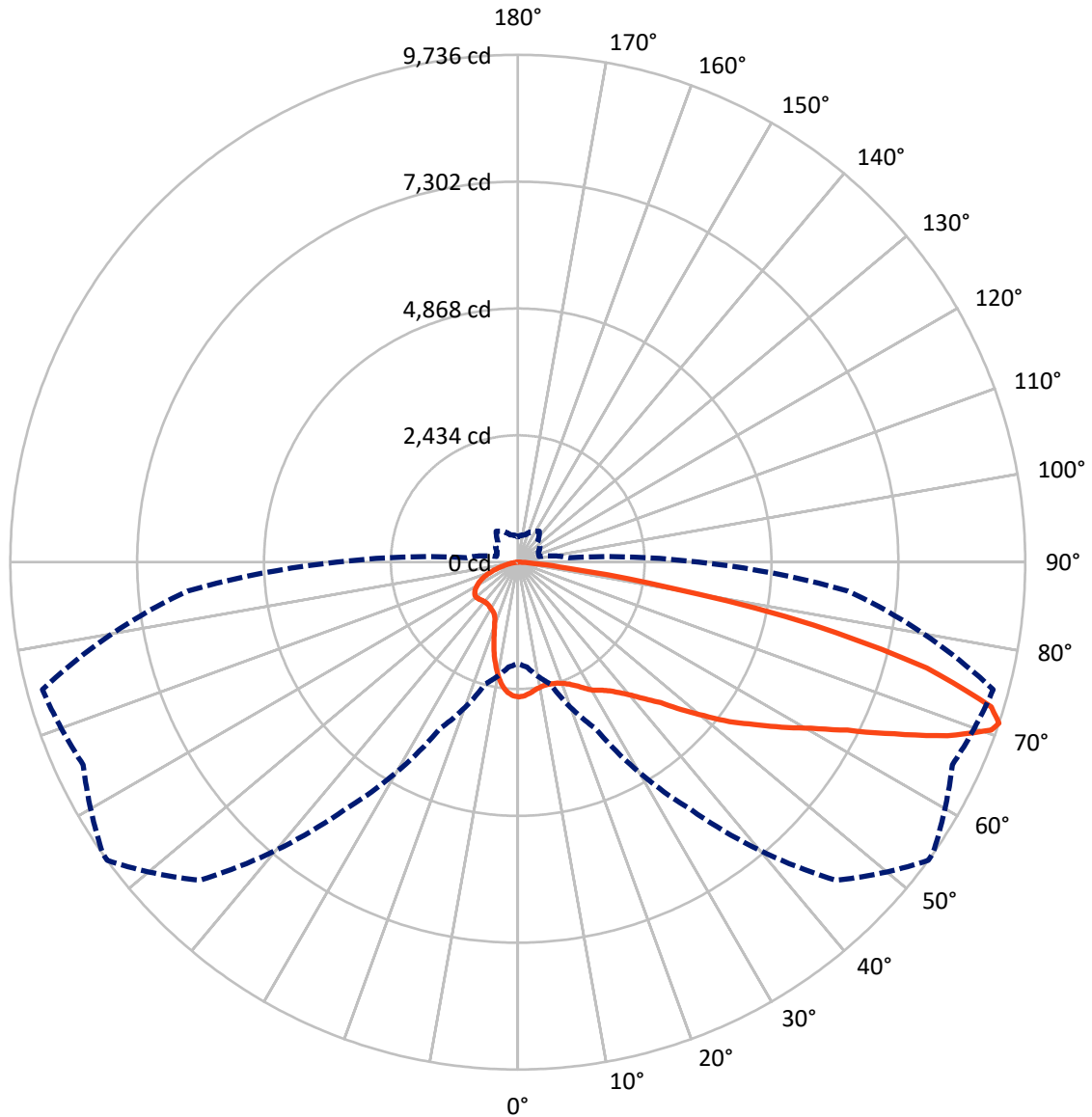
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral    - - - Horizontal Cone Through 71-Deg Vertical

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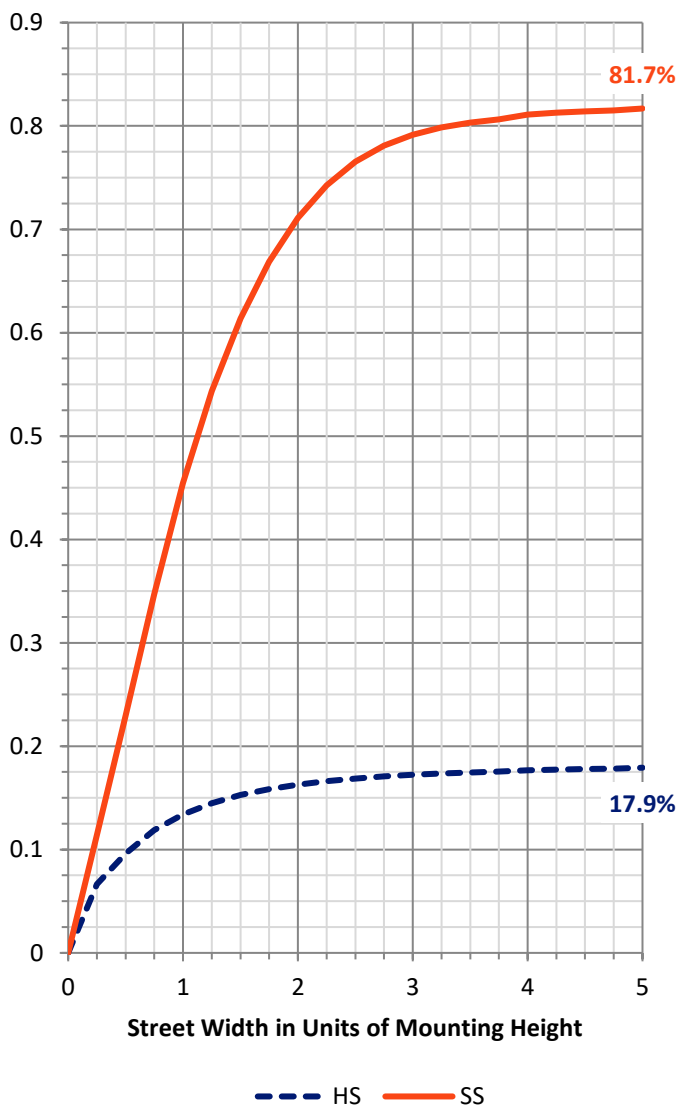
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2617.5	0.0	2617.5
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	11880.5	0.0	11880.5
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	14498.0	0.0	14498.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	230.5	1.6
10°-20°	608.7	4.2
20°-30°	1013.5	7.0
30°-40°	1498.6	10.3
40°-50°	2110.8	14.6
50°-60°	2826.4	19.5
60°-70°	3562.5	24.6
70°-80°	2433.2	16.8
80°-90°	214.0	1.5
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°	14498.0	100.0
0°-180°	14498.0	100.0

**Coefficient of Utilization**



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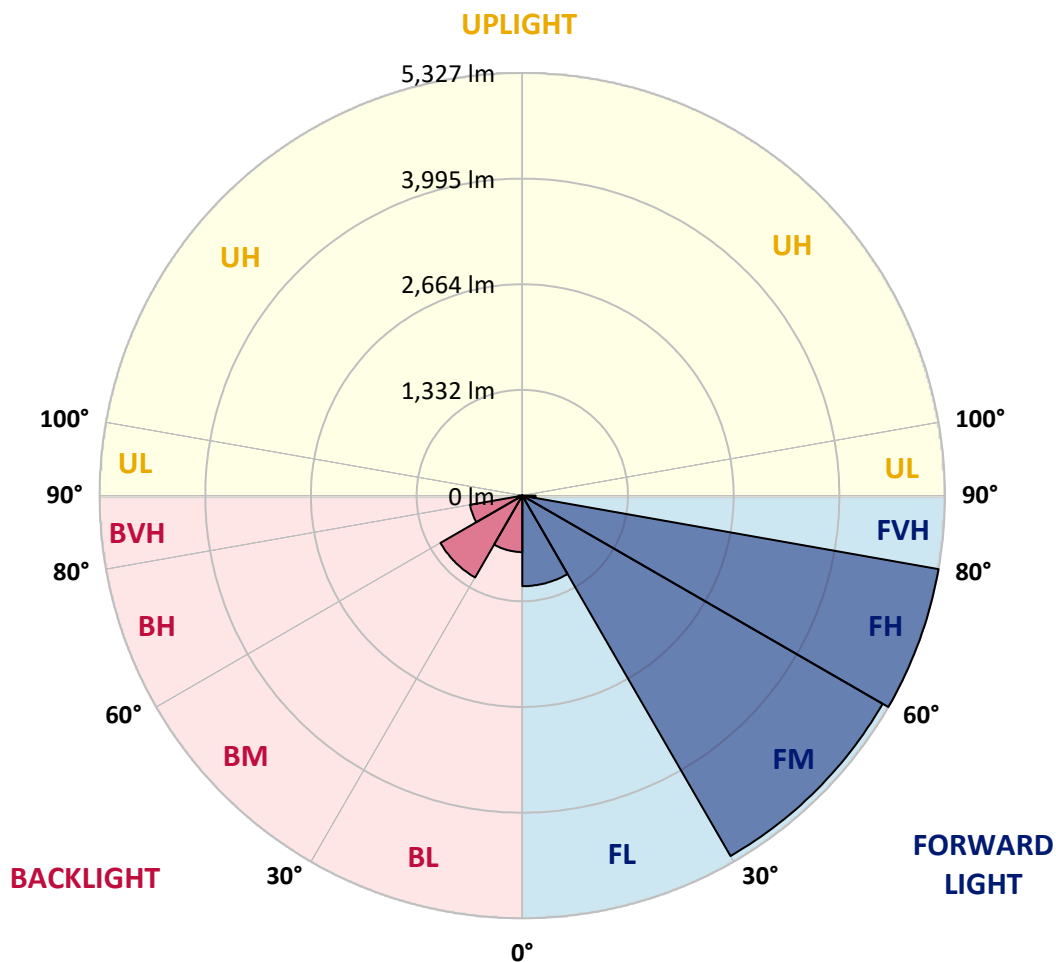
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1141.2	7.9			
FM	(30°-60°)	5244.9	36.2			
FH	(60°-80°)	5327.1	36.7			G3/7500
FVH	(80°-90°)	167.3	1.2			G2/225
BL	(0°-30°)	711.4	4.9	B2/1000		
BM	(30°-60°)	1190.9	8.2	B2/2500		
BH	(60°-80°)	668.5	4.6	B2/1000		G2/1000
BVH	(80°-90°)	46.7	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2586.7	2586.7	2586.7	2586.7	2586.7	2586.7	2586.7	2586.7	2586.7	2586.7	2586.7
2.5°	2498.9	2510.7	2513.8	2521.7	2538.1	2551.4	2564.7	2563.2	2582.0	2589.8	2596.8
5°	2387.7	2390.9	2402.6	2418.3	2447.3	2484.1	2520.1	2520.9	2567.1	2603.9	2621.9
7.5°	2306.3	2316.5	2324.3	2340.8	2371.3	2411.2	2468.4	2473.1	2555.3	2628.2	2666.5
10°	2253.0	2264.8	2273.4	2293.8	2324.3	2368.9	2430.8	2439.4	2546.7	2666.5	2733.9
12.5°	2204.5	2216.2	2224.1	2250.7	2290.6	2345.5	2415.2	2425.3	2549.9	2711.2	2807.5
15°	2234.3	2243.6	2240.5	2248.3	2275.0	2337.6	2421.4	2431.6	2561.6	2754.2	2880.3
17.5°	2366.6	2374.4	2348.6	2318.8	2306.3	2352.5	2441.0	2452.0	2585.1	2798.9	2954.7
20°	2561.6	2582.7	2526.4	2459.8	2399.5	2405.8	2481.7	2493.5	2618.0	2843.5	3030.7
22.5°	2815.3	2831.0	2762.1	2652.4	2541.2	2484.1	2542.8	2549.9	2667.3	2901.5	3113.7
25°	3113.7	3123.1	3027.6	2886.6	2726.1	2618.0	2626.6	2639.1	2748.8	2967.3	3187.3
27.5°	3403.5	3433.2	3322.8	3150.5	2939.1	2758.9	2741.7	2749.5	2837.3	3004.1	3238.2
30°	3747.2	3744.9	3628.2	3428.5	3157.6	2912.4	2850.6	2849.0	2885.0	3022.1	3275.0
32.5°	4021.3	4053.4	3939.1	3721.4	3407.4	3071.4	2925.8	2922.6	2921.8	3053.4	3329.8
35°	4333.0	4337.7	4232.8	4013.5	3677.5	3271.1	3030.7	3015.0	2997.0	3120.7	3404.2
37.5°	4611.8	4633.7	4537.4	4291.5	3943.0	3478.6	3174.8	3164.6	3109.8	3237.4	3523.3
40°	4829.5	4846.0	4788.0	4553.9	4204.6	3702.6	3358.0	3339.2	3272.7	3428.5	3682.2
42.5°	4900.8	4934.5	4957.2	4842.1	4505.3	3968.1	3583.6	3560.1	3509.2	3718.3	3865.5
45°	4906.3	4959.5	5079.3	5084.8	4807.6	4286.0	3846.7	3830.3	3826.3	4089.5	4123.1
47.5°	4864.8	4918.8	5120.1	5228.9	5077.0	4607.1	4226.5	4200.7	4203.0	4548.4	4412.1
50°	4764.5	4828.7	5073.1	5321.3	5287.7	4940.7	4627.5	4618.9	4667.4	5072.3	4712.1
52.5°	4575.8	4653.3	5024.5	5379.3	5444.3	5228.1	5083.3	5059.0	5181.9	5640.8	5040.2
55°	4053.4	4170.1	4846.8	5411.4	5593.1	5503.0	5493.6	5537.5	5700.4	6261.1	5401.2
57.5°	3780.9	3868.6	4460.7	5416.9	5781.0	5822.5	5972.9	5983.8	6268.9	6919.7	5809.2
60°	3632.1	3709.7	4249.2	5380.8	6043.4	6218.0	6463.1	6502.3	6824.1	7633.1	6232.1
62.5°	3502.1	3568.7	4122.4	5256.3	6339.4	6804.6	7098.2	7117.0	7454.6	8420.9	6649.5
65°	3195.9	3271.9	3867.1	5131.8	6594.7	7537.6	7940.9	7918.9	8125.7	9100.7	6911.1
67.5°	2783.2	2879.5	3390.1	4701.9	6720.8	8338.7	8890.0	8862.6	8788.2	9546.3	6986.2
70°	2256.2	2307.9	2780.1	3958.7	6217.2	8759.2	9639.5	9610.5	9198.6	9605.0	6630.7
71°	1941.4	2022.0	2420.6	3516.2	5798.2	8630.8	9735.8	9728.0	9199.4	9442.9	6362.9
72.5°	1515.3	1564.7	1917.1	2724.5	4928.2	7900.9	9497.7	9527.5	8999.7	8992.6	5810.8
75°	958.5	980.5	1202.9	1603.8	2704.1	5595.4	8107.7	8188.3	7991.0	7360.6	4321.3
77.5°	556.8	585.0	720.5	945.2	1168.4	3037.0	5801.4	5889.1	5552.3	4052.7	1769.1
80°	324.2	355.5	474.6	549.0	536.4	1126.9	2953.9	3103.5	2404.2	1023.5	496.5
82.5°	180.1	201.3	333.6	334.4	285.8	368.1	929.6	972.6	686.0	412.7	202.8
85°	130.8	148.0	215.4	195.0	137.0	158.2	323.4	339.1	277.2	173.9	65.8
87.5°	46.2	65.8	118.3	94.0	37.6	32.9	93.2	76.0	70.5	48.6	14.9
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°	2586.7	2586.7	2586.7	2586.7	2586.7	2586.7	2586.7	2586.7	2586.7	2586.7	2586.7
2.5°	2600.8	2602.3	2594.5	2580.4	2566.3	2548.3	2527.9	2512.3	2505.2	2504.4	2503.6
5°	2628.9	2632.9	2603.1	2559.2	2510.7	2451.2	2400.3	2342.3	2327.4	2304.0	2311.0
7.5°	2674.4	2672.0	2613.3	2520.1	2406.5	2280.5	2174.0	2112.1	2047.9	2029.9	2030.6
10°	2739.4	2724.5	2613.3	2440.2	2250.7	2063.5	1914.7	1820.8	1769.9	1727.6	1711.9
12.5°	2808.3	2770.7	2588.2	2328.2	2050.2	1820.8	1661.0	1534.1	1501.2	1466.8	1467.6
15°	2874.1	2811.4	2538.9	2170.8	1834.1	1561.5	1406.5	1330.5	1320.3	1324.3	1323.5
17.5°	2933.6	2840.4	2463.7	1995.4	1581.9	1339.1	1256.9	1262.4	1289.8	1309.4	1311.7
20°	2993.9	2857.6	2351.7	1760.5	1343.8	1204.4	1207.6	1250.6	1292.2	1318.8	1322.7
22.5°	3051.1	2865.4	2220.2	1533.4	1171.6	1147.3	1193.5	1239.7	1280.4	1306.3	1310.2
25°	3088.6	2847.4	2033.8	1296.1	1087.0	1126.9	1175.5	1214.6	1249.1	1275.7	1282.0
27.5°	3098.8	2789.5	1802.8	1104.2	1047.8	1107.3	1152.0	1181.0	1207.6	1232.6	1237.3
30°	3093.3	2704.1	1549.0	991.4	1025.1	1084.6	1119.1	1140.2	1172.3	1191.9	1195.8
32.5°	3084.7	2604.7	1284.3	931.1	1006.3	1063.5	1083.8	1102.6	1101.9	1094.0	1099.5
35°	3087.9	2485.6	1069.7	895.1	989.9	1047.8	1065.0	1041.6	974.2	971.1	967.9
37.5°	3104.3	2368.2	913.9	870.1	981.3	1045.5	1054.9	946.8	887.3	859.9	852.8
40°	3146.6	2231.1	811.3	851.3	980.5	1063.5	1008.7	899.0	784.7	731.4	727.5
42.5°	3203.0	2096.4	748.7	839.5	989.9	1090.9	989.9	831.7	707.2	675.8	671.1
45°	3286.8	1942.1	714.2	834.0	1004.0	1101.1	983.6	782.3	675.8	650.8	650.8
47.5°	3381.5	1794.9	695.4	830.1	1022.0	1094.0	928.0	766.7	661.0	664.1	679.0
50°	3475.5	1667.3	681.3	821.5	1037.6	1090.1	905.3	765.9	664.9	704.8	731.4
52.5°	3584.4	1577.2	664.1	807.4	1037.6	1065.0	898.2	781.6	675.8	687.6	699.3
55°	3715.9	1549.0	642.2	776.9	1018.8	1002.4	894.3	804.3	683.7	656.3	661.0
57.5°	3889.8	1594.4	621.0	738.5	975.8	937.4	892.8	810.5	665.7	642.9	638.2
60°	4091.8	1684.5	614.8	699.3	917.0	881.8	883.4	792.5	640.6	617.1	621.0
62.5°	4233.6	1738.5	610.8	669.6	852.8	820.7	860.7	770.6	629.6	609.3	613.2
65°	4233.6	1672.8	574.8	624.1	769.8	747.1	833.2	743.2	615.5	592.0	588.1
67.5°	4073.0	1480.9	520.0	556.0	678.2	663.3	794.9	710.3	594.4	576.4	567.0
70°	3654.8	1123.0	451.1	476.1	562.3	575.6	745.5	665.7	559.2	537.2	523.1
71°	3470.8	978.1	422.1	435.4	517.6	537.2	722.0	646.9	543.5	512.2	487.1
72.5°	3116.0	823.8	378.2	383.7	442.5	477.7	672.7	610.8	513.7	469.1	440.9
75°	2367.4	601.4	304.6	301.5	327.3	379.0	569.3	544.3	450.3	390.0	373.6
77.5°	1022.8	327.3	227.9	230.2	222.4	287.4	447.9	467.5	386.1	317.2	302.3
80°	310.1	188.7	155.8	159.0	148.8	192.6	315.6	366.5	310.1	246.7	226.3
82.5°	159.0	112.8	106.5	104.9	94.8	108.9	191.1	250.6	221.6	154.3	136.3
85°	68.9	60.3	52.5	50.9	44.6	39.2	68.1	125.3	117.5	86.1	82.2
87.5°	17.2	15.7	10.2	9.4	5.5	0.8	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)