

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: P452679

Luminaire Tested: **GALN-SA3C-827-U-T3R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452679  
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-SA3C-827-U-T3R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15788 lumens  
Efficiency: N/A  
Efficacy: 98.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B2 - U0 - G3

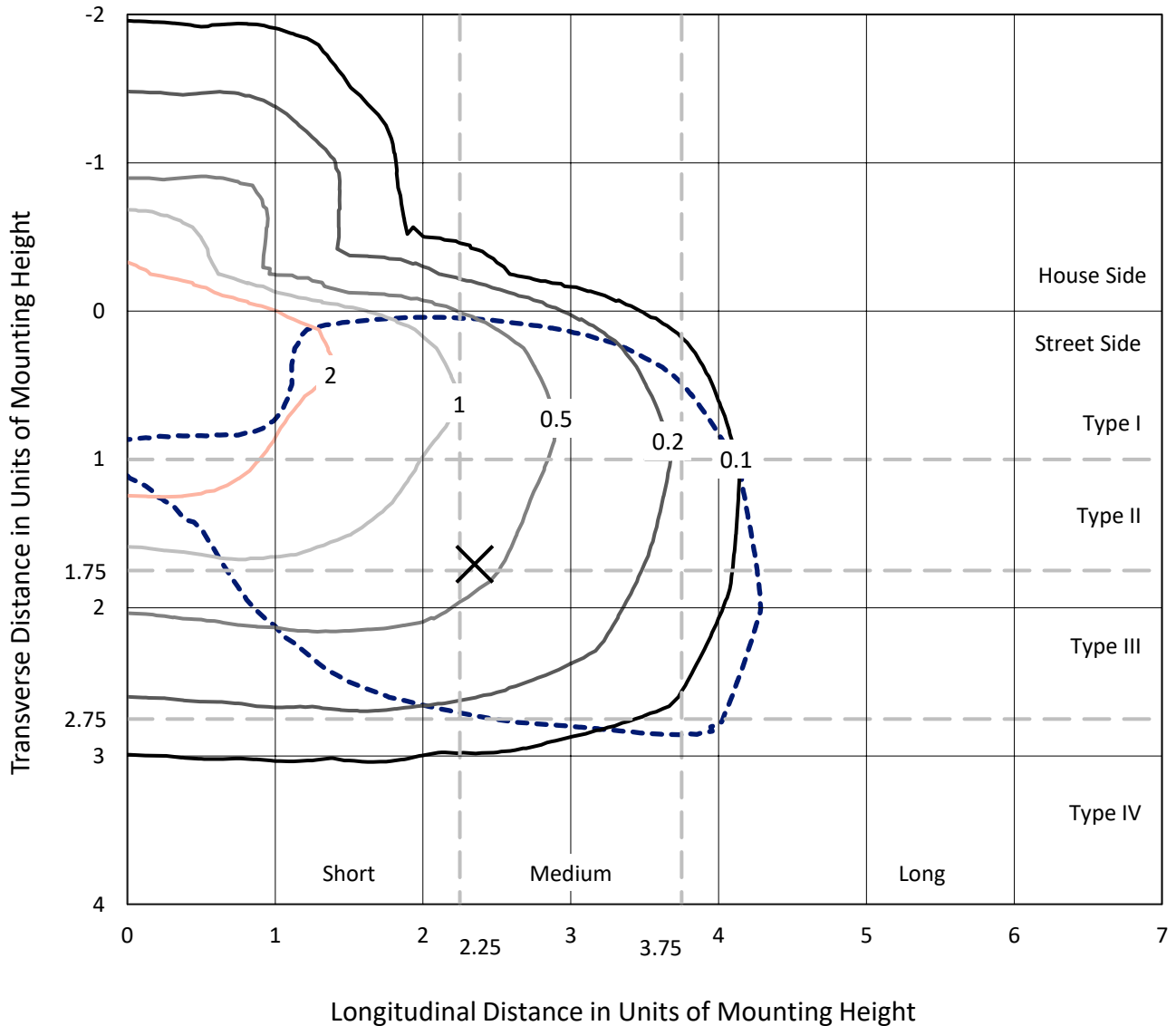
Input Watts (W): 160  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

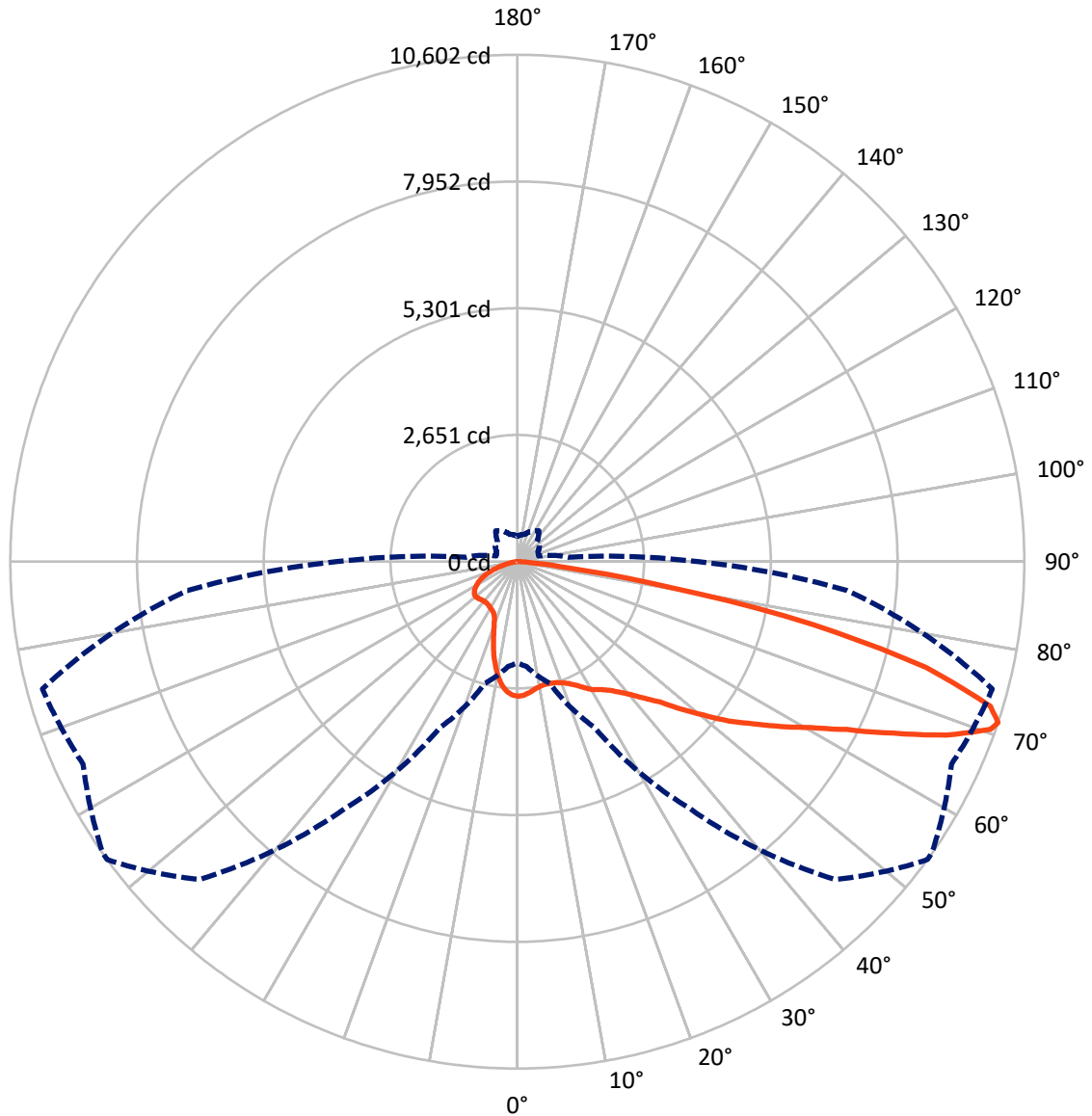
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 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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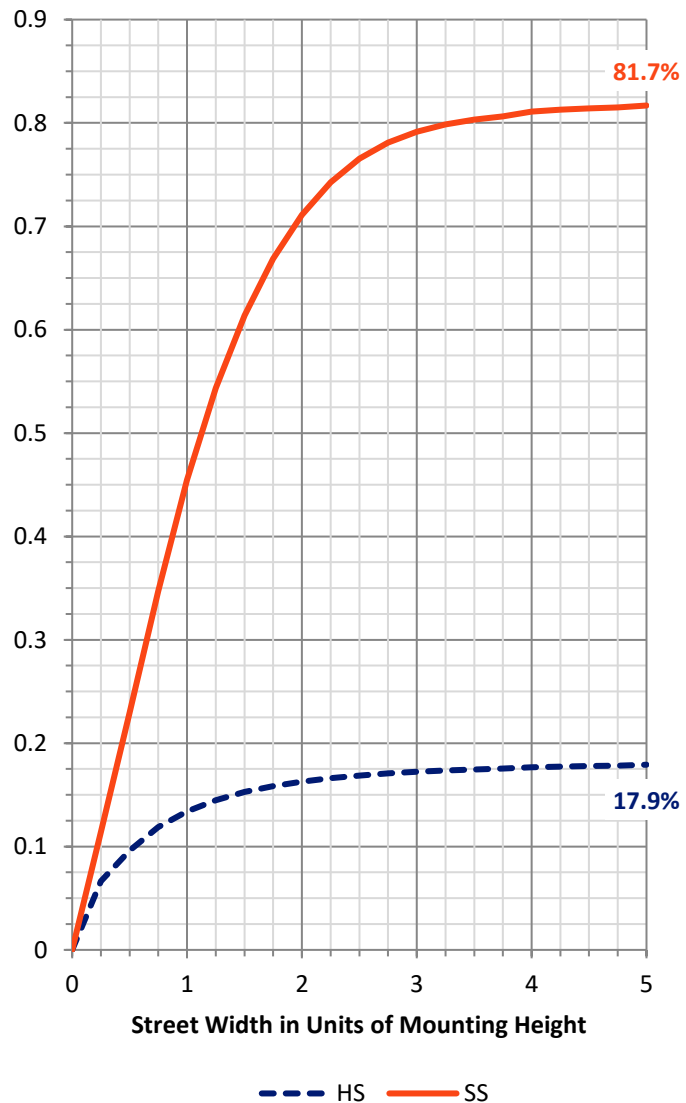
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2850.4	0.0	2850.4
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	12937.6	0.0	12937.6
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	15788.0	0.0	15788.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	251.0	1.6
10°-20°	662.8	4.2
20°-30°	1103.6	7.0
30°-40°	1631.9	10.3
40°-50°	2298.6	14.6
50°-60°	3077.9	19.5
60°-70°	3879.5	24.6
70°-80°	2649.7	16.8
80°-90°	233.0	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°	15788.0	100.0
0°-180°	15788.0	100.0



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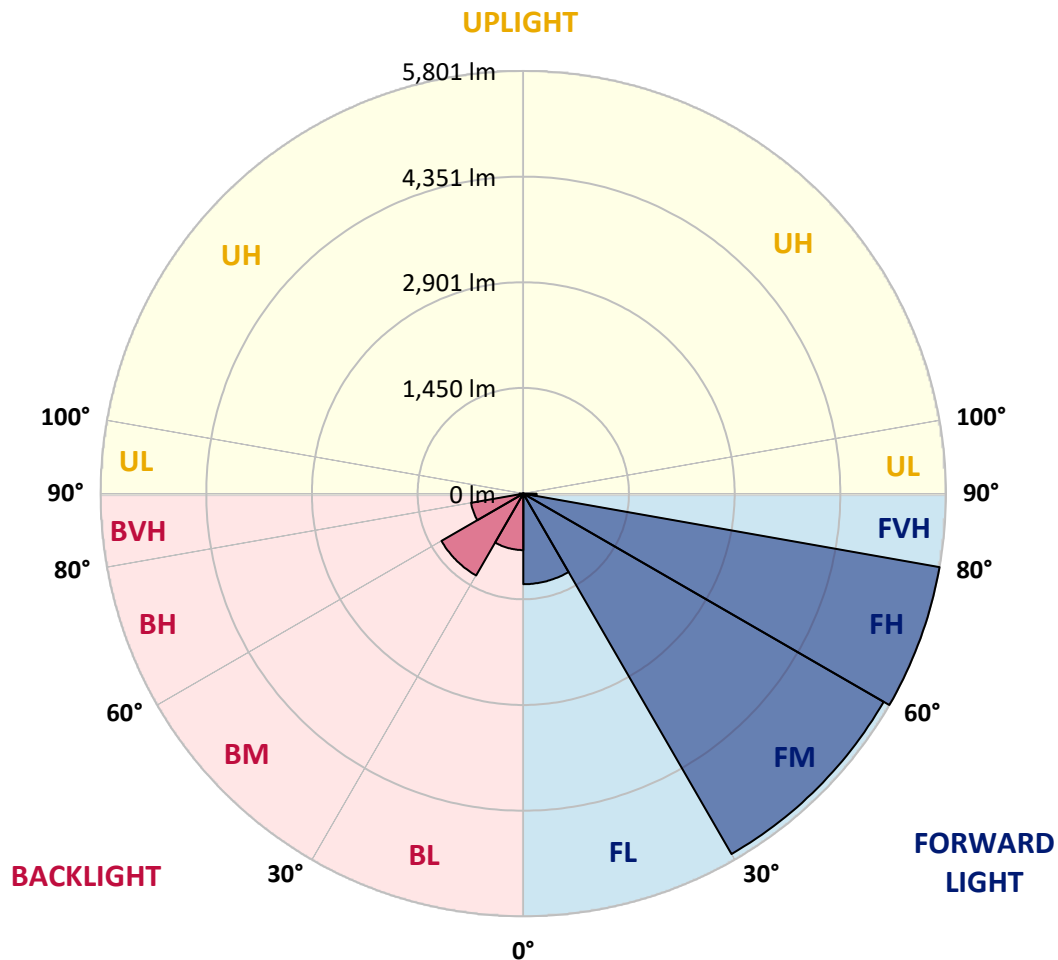
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1242.8	7.9			
FM	(30°-60°)	5711.5	36.2			
FH	(60°-80°)	5801.1	36.7			G3/7500
FVH	(80°-90°)	182.1	1.2			G2/225
BL	(0°-30°)	774.7	4.9	B2/1000		
BM	(30°-60°)	1296.9	8.2	B2/2500		
BH	(60°-80°)	728.0	4.6	B2/1000		G2/1000
BVH	(80°-90°)	50.9	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°	2816.8	2816.8	2816.8	2816.8	2816.8	2816.8	2816.8	2816.8	2816.8	2816.8	2816.8
2.5°	2721.3	2734.1	2737.5	2746.0	2763.9	2778.4	2792.9	2791.2	2811.7	2820.2	2827.9
5°	2600.2	2603.6	2616.4	2633.5	2665.0	2705.1	2744.3	2745.2	2795.5	2835.6	2855.2
7.5°	2511.5	2522.6	2531.1	2549.0	2582.3	2625.8	2688.0	2693.2	2782.7	2862.0	2903.8
10°	2453.5	2466.3	2475.7	2497.9	2531.1	2579.7	2647.1	2656.5	2773.3	2903.8	2977.1
12.5°	2400.6	2413.4	2422.0	2451.0	2494.5	2554.1	2630.0	2641.1	2776.7	2952.4	3057.3
15°	2433.1	2443.3	2439.9	2448.4	2477.4	2545.6	2636.9	2648.0	2789.5	2999.3	3136.6
17.5°	2577.2	2585.7	2557.6	2525.2	2511.5	2561.8	2658.2	2670.1	2815.1	3047.9	3217.6
20°	2789.5	2812.5	2751.1	2678.7	2613.0	2619.8	2702.5	2715.3	2850.9	3096.5	3300.4
22.5°	3065.8	3082.9	3007.8	2888.4	2767.4	2705.1	2769.1	2776.7	2904.7	3159.6	3390.8
25°	3390.8	3401.0	3296.9	3143.4	2968.6	2850.9	2860.3	2874.0	2993.3	3231.3	3470.9
27.5°	3706.3	3738.7	3618.4	3430.8	3200.6	3004.4	2985.7	2994.2	3089.7	3271.4	3526.3
30°	4080.7	4078.1	3951.0	3733.6	3438.5	3171.6	3104.2	3102.5	3141.7	3291.0	3566.4
32.5°	4379.2	4414.1	4289.6	4052.5	3710.6	3344.7	3186.1	3182.7	3181.8	3325.1	3626.1
35°	4718.6	4723.7	4609.4	4370.6	4004.8	3562.2	3300.4	3283.3	3263.7	3398.4	3707.1
37.5°	5022.2	5046.0	4941.1	4673.4	4293.9	3788.2	3457.3	3446.2	3386.5	3525.5	3836.8
40°	5259.2	5277.2	5214.0	4959.1	4578.7	4032.1	3656.8	3636.4	3563.9	3733.6	4009.9
42.5°	5336.9	5373.5	5398.3	5272.9	4906.2	4321.2	3902.4	3876.8	3821.4	4049.1	4209.4
45°	5342.8	5400.8	5531.3	5537.3	5235.4	4667.4	4189.0	4171.1	4166.8	4453.3	4490.0
47.5°	5297.6	5356.5	5575.6	5694.2	5528.7	5017.0	4602.6	4574.4	4577.0	4953.1	4804.7
50°	5188.5	5258.4	5524.5	5794.8	5758.1	5380.3	5039.2	5029.8	5082.7	5523.6	5131.3
52.5°	4982.9	5067.4	5471.6	5857.9	5928.7	5693.3	5535.6	5509.1	5643.0	6142.8	5488.6
55°	4414.1	4541.2	5278.0	5892.9	6090.7	5992.7	5982.4	6030.2	6207.6	6818.2	5881.8
57.5°	4117.3	4212.9	4857.6	5898.8	6295.4	6340.6	6504.3	6516.3	6826.7	7535.4	6326.1
60°	3955.3	4039.7	4627.3	5859.6	6581.1	6771.3	7038.2	7080.8	7431.3	8312.3	6786.6
62.5°	3813.7	3886.2	4489.2	5724.0	6903.5	7410.0	7729.8	7750.3	8117.8	9170.2	7241.2
65°	3480.3	3563.0	4211.1	5588.4	7181.5	8208.2	8647.4	8623.6	8848.7	9910.4	7526.0
67.5°	3030.9	3135.8	3691.8	5120.2	7318.8	9080.7	9681.0	9651.2	9570.2	10395.7	7607.9
70°	2456.9	2513.2	3027.5	4310.9	6770.4	9538.6	10497.2	10465.6	10017.0	10459.6	7220.7
71°	2114.1	2201.9	2636.0	3829.1	6314.2	9398.8	10602.1	10593.5	10017.9	10283.1	6929.0
72.5°	1650.2	1703.9	2087.7	2966.9	5366.7	8603.9	10342.8	10375.2	9800.4	9792.8	6327.8
75°	1043.8	1067.7	1309.9	1746.5	2944.7	6093.3	8829.1	8916.9	8702.0	8015.5	4705.8
77.5°	606.3	637.0	784.6	1029.3	1272.4	3307.2	6317.6	6413.1	6046.4	4413.3	1926.5
80°	353.1	387.2	516.8	597.8	584.2	1227.2	3216.8	3379.7	2618.1	1114.6	540.7
82.5°	196.1	219.2	363.3	364.1	311.3	400.8	1012.3	1059.2	747.1	449.4	220.9
85°	142.4	161.2	234.5	212.3	149.2	172.3	352.2	369.3	301.9	189.3	71.6
87.5°	50.3	71.6	128.8	102.3	40.9	35.8	101.5	82.7	76.8	52.9	16.2
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°	2816.8	2816.8	2816.8	2816.8	2816.8	2816.8	2816.8	2816.8	2816.8	2816.8	2816.8
2.5°	2832.2	2833.9	2825.3	2810.0	2794.6	2775.0	2752.9	2735.8	2728.1	2727.3	2726.4
5°	2862.9	2867.1	2834.7	2787.0	2734.1	2669.3	2613.8	2550.7	2534.5	2509.0	2516.6
7.5°	2912.3	2909.8	2845.8	2744.3	2620.7	2483.4	2367.4	2300.0	2230.1	2210.5	2211.3
10°	2983.1	2966.9	2845.8	2657.3	2451.0	2247.1	2085.1	1982.8	1927.3	1881.3	1864.2
12.5°	3058.2	3017.2	2818.5	2535.4	2232.6	1982.8	1808.8	1670.6	1634.8	1597.3	1598.2
15°	3129.8	3061.6	2764.8	2364.0	1997.3	1700.5	1531.6	1448.9	1437.8	1442.1	1441.2
17.5°	3194.6	3093.1	2682.9	2172.9	1722.7	1458.3	1368.8	1374.7	1404.6	1425.9	1428.4
20°	3260.3	3111.9	2561.0	1917.1	1463.4	1311.6	1315.0	1361.9	1407.1	1436.1	1440.4
22.5°	3322.5	3120.4	2417.7	1669.8	1275.8	1249.4	1299.7	1350.0	1394.3	1422.5	1426.7
25°	3363.5	3100.8	2214.7	1411.4	1183.7	1227.2	1280.1	1322.7	1360.2	1389.2	1396.0
27.5°	3374.5	3037.7	1963.2	1202.5	1141.1	1205.9	1254.5	1286.0	1315.0	1342.3	1347.4
30°	3368.6	2944.7	1686.8	1079.7	1116.3	1181.1	1218.7	1241.7	1276.6	1298.0	1302.2
32.5°	3359.2	2836.4	1398.6	1014.0	1095.9	1158.1	1180.3	1200.7	1199.9	1191.4	1197.3
35°	3362.6	2706.8	1164.9	974.8	1077.9	1141.1	1159.8	1134.2	1060.9	1057.5	1054.1
37.5°	3380.5	2578.9	995.2	947.5	1068.6	1138.5	1148.7	1031.0	966.2	936.4	928.7
40°	3426.6	2429.6	883.5	927.0	1067.7	1158.1	1098.4	979.0	854.5	796.5	792.3
42.5°	3488.0	2283.0	815.3	914.2	1077.9	1188.0	1077.9	905.7	770.1	736.0	730.9
45°	3579.2	2115.0	777.8	908.2	1093.3	1199.0	1071.1	852.0	736.0	708.7	708.7
47.5°	3682.4	1954.6	757.3	904.0	1112.9	1191.4	1010.6	834.9	719.8	723.2	739.4
50°	3784.7	1815.6	741.9	894.6	1130.0	1187.1	985.8	834.0	724.0	767.5	796.5
52.5°	3903.3	1717.5	723.2	879.2	1130.0	1159.8	978.2	851.1	736.0	748.8	761.6
55°	4046.6	1686.8	699.3	846.0	1109.5	1091.6	973.9	875.8	744.5	714.7	719.8
57.5°	4235.9	1736.3	676.3	804.2	1062.6	1020.8	972.2	882.7	724.9	700.2	695.0
60°	4455.9	1834.4	669.5	761.6	998.6	960.3	962.0	863.0	697.6	672.0	676.3
62.5°	4610.3	1893.2	665.2	729.1	928.7	893.7	937.2	839.2	685.7	663.5	667.7
65°	4610.3	1821.6	626.0	679.7	838.3	813.6	907.4	809.3	670.3	644.7	640.5
67.5°	4435.4	1612.7	566.3	605.5	738.5	722.3	865.6	773.5	647.3	627.7	617.4
70°	3980.0	1222.9	491.2	518.5	612.3	626.8	811.9	724.9	608.9	585.0	569.7
71°	3779.6	1065.2	459.7	474.2	563.7	585.0	786.3	704.4	591.8	557.7	530.4
72.5°	3393.3	897.2	411.9	417.9	481.8	520.2	732.6	665.2	559.4	510.8	480.1
75°	2578.0	655.0	331.7	328.3	356.5	412.8	620.0	592.7	490.4	424.7	406.8
77.5°	1113.8	356.5	248.2	250.7	242.2	313.0	487.8	509.1	420.4	345.4	329.2
80°	337.7	205.5	169.7	173.1	162.0	209.8	343.7	399.1	337.7	268.6	246.5
82.5°	173.1	122.8	116.0	114.3	103.2	118.5	208.1	272.9	241.3	168.0	148.4
85°	75.0	65.7	57.1	55.4	48.6	42.6	74.2	136.4	127.9	93.8	89.5
87.5°	18.8	17.1	11.1	10.2	6.0	0.9	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)