

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: P452082

Luminaire Tested: **GALN-SA3A-730-U-SL2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452082  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3A-730-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12410 lumens  
Efficiency: N/A  
Efficacy: 133.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3

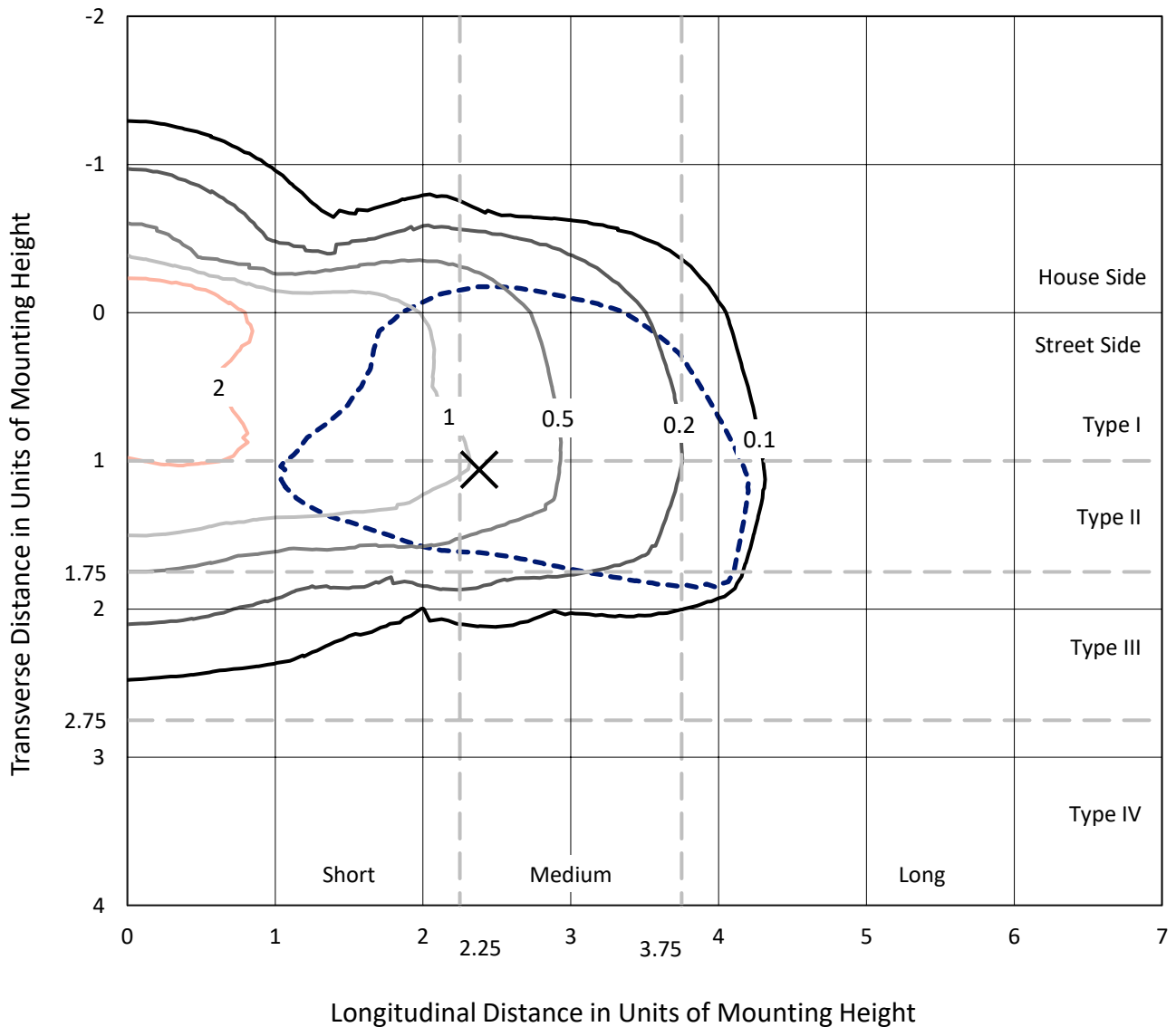
Input Watts (W): 93  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

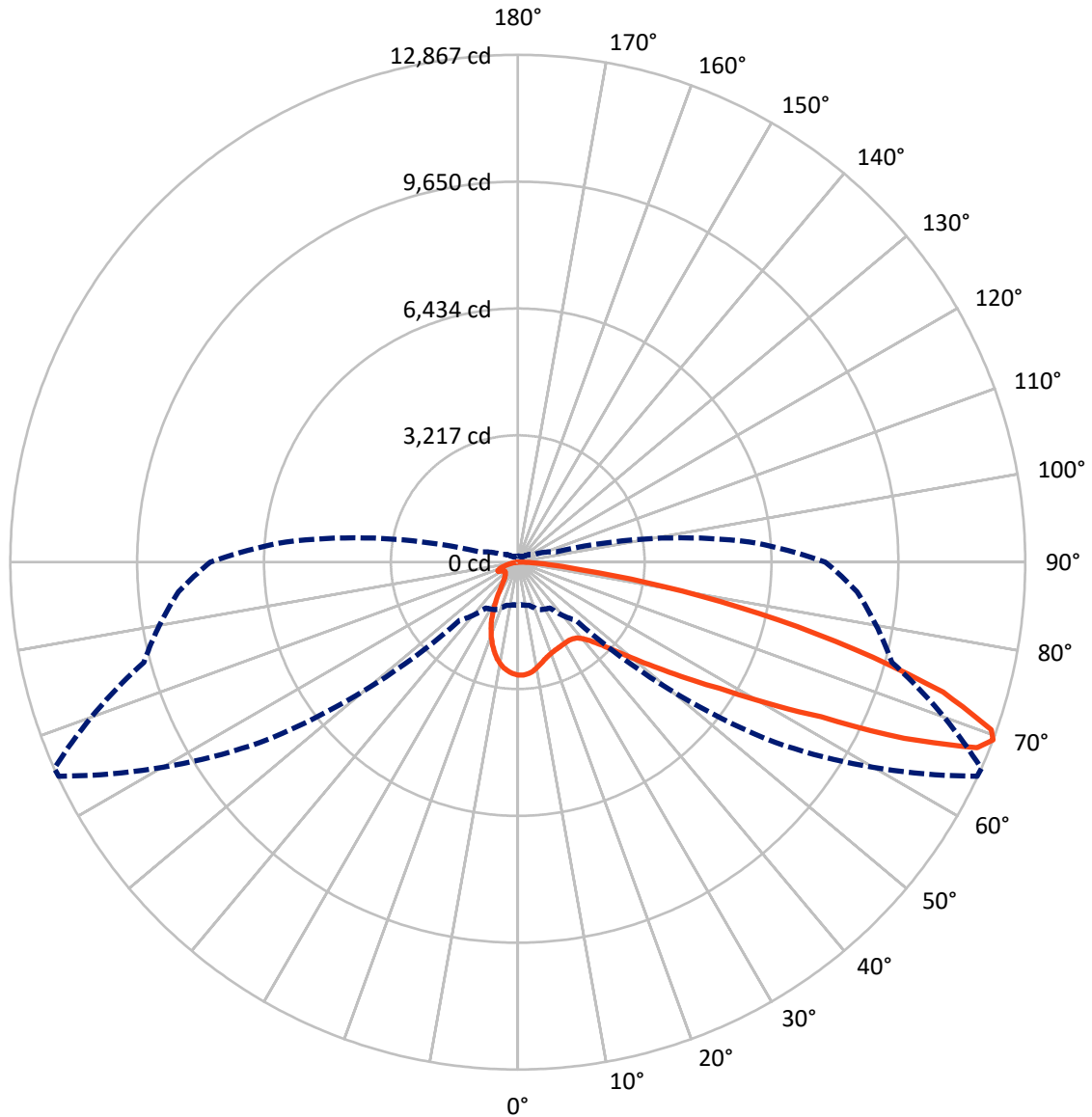
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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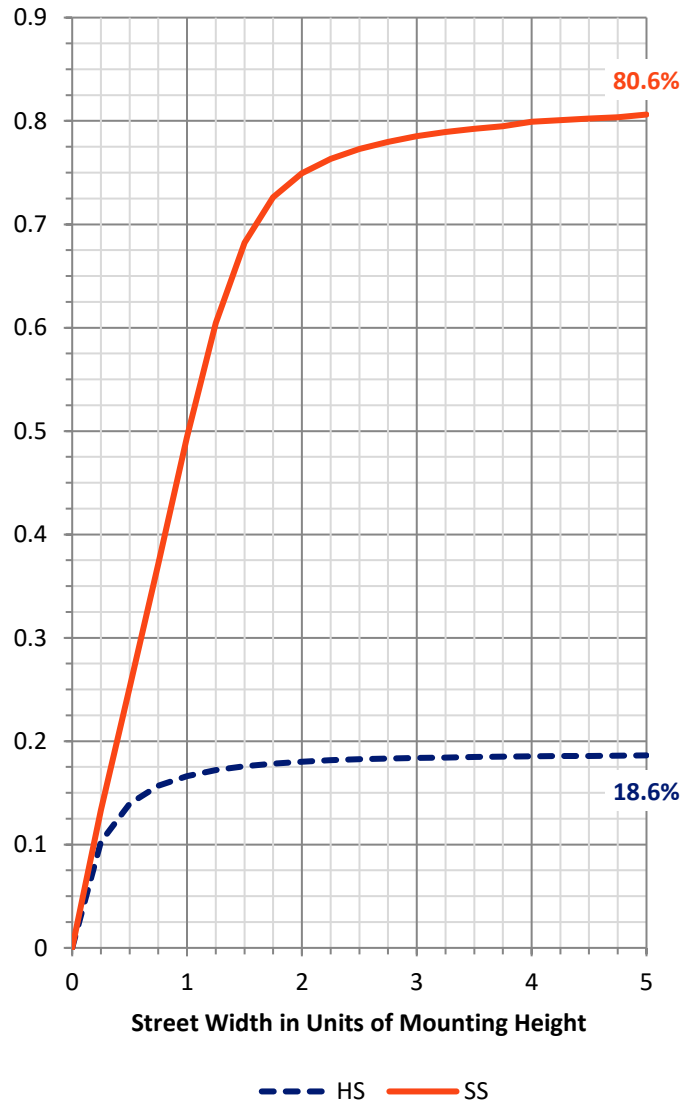
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2333.8	0.0	2333.8
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	10076.2	0.0	10076.2
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	12410.0	0.0	12410.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	248.9	2.0
10°-20°	590.3	4.8
20°-30°	803.6	6.5
30°-40°	1079.9	8.7
40°-50°	1612.4	13.0
50°-60°	2564.8	20.7
60°-70°	3154.6	25.4
70°-80°	2052.5	16.5
80°-90°	303.1	2.4
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°	12410.0	100.0
0°-180°	12410.0	100.0



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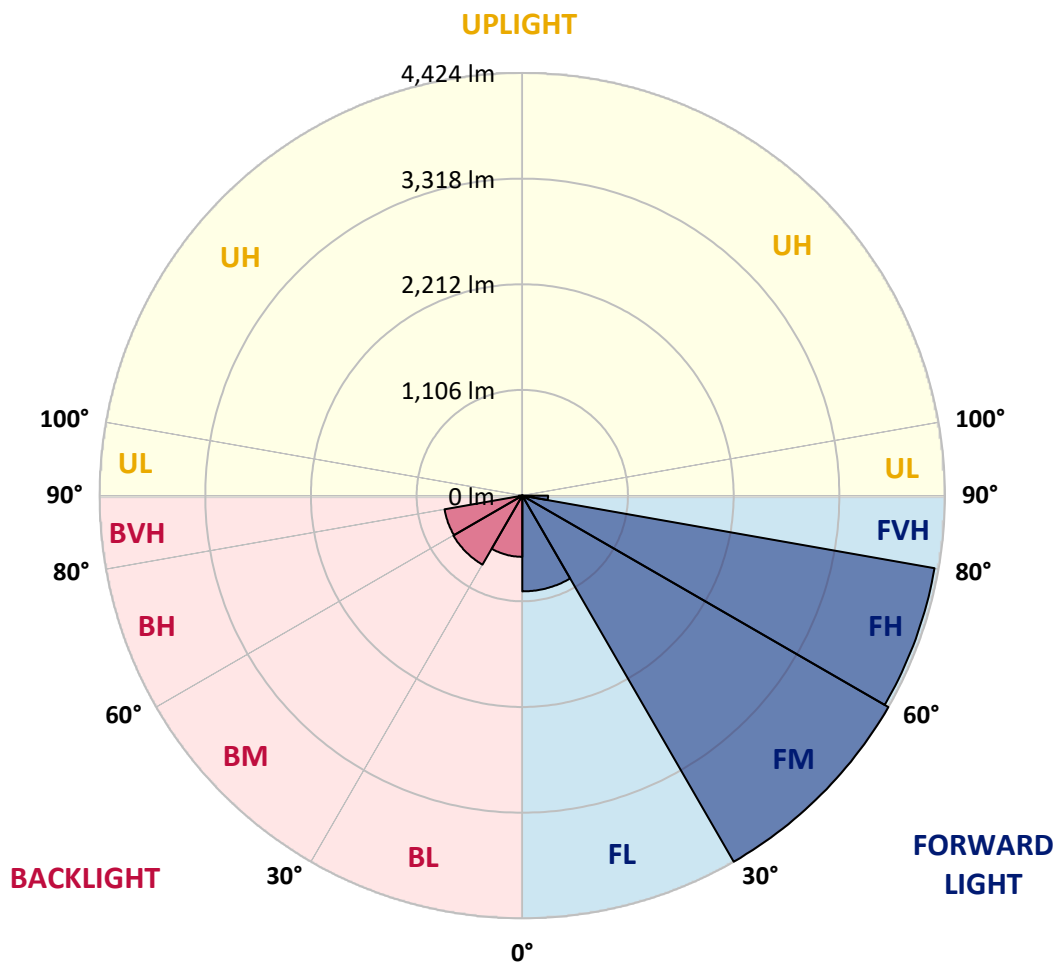
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1002.1	8.1			
FM	(30°-60°)	4423.8	35.6			
FH	(60°-80°)	4380.8	35.3			G2/5000
FVH	(80°-90°)	269.5	2.2			G3/500
BL	(0°-30°)	640.7	5.2	B2/1000		
BM	(30°-60°)	833.3	6.7	B1/1000		
BH	(60°-80°)	826.3	6.7	B2/1000		G2/1000
BVH	(80°-90°)	33.6	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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2865.8	2865.8	2865.8	2865.8	2865.8	2865.8	2865.8	2865.8	2865.8	2865.8	2865.8
2.5°	2765.5	2776.5	2788.8	2802.6	2828.7	2843.1	2853.4	2865.1	2866.5	2872.7	2867.9
5°	2561.4	2574.4	2593.0	2619.1	2658.3	2719.4	2782.7	2834.2	2840.4	2869.3	2877.5
7.5°	2390.9	2398.5	2413.6	2455.5	2511.2	2579.2	2671.3	2775.8	2790.9	2859.6	2883.7
10°	2252.1	2259.7	2277.5	2320.8	2375.8	2461.0	2562.1	2699.5	2711.9	2830.1	2885.1
12.5°	2148.3	2155.2	2174.4	2217.1	2280.3	2360.0	2471.3	2617.0	2634.9	2790.9	2872.0
15°	2069.3	2082.4	2098.2	2133.2	2199.9	2276.8	2384.7	2541.4	2555.9	2749.7	2863.1
17.5°	2035.6	2041.8	2052.8	2085.1	2133.9	2209.5	2318.1	2482.3	2499.5	2720.8	2861.0
20°	2037.0	2043.2	2045.2	2063.1	2098.2	2163.4	2270.7	2435.6	2456.2	2695.4	2864.4
22.5°	2083.7	2084.4	2076.9	2070.7	2084.4	2138.7	2237.0	2400.5	2424.6	2684.4	2867.2
25°	2155.9	2168.3	2157.3	2128.4	2103.0	2129.1	2223.9	2381.3	2404.0	2668.6	2863.8
27.5°	2272.7	2274.8	2265.8	2226.7	2160.7	2141.5	2218.4	2366.9	2386.1	2656.9	2846.6
30°	2429.4	2423.2	2415.0	2371.7	2267.9	2188.9	2230.1	2353.8	2373.7	2639.7	2826.0
32.5°	2588.2	2607.4	2599.8	2549.0	2414.3	2281.0	2267.9	2352.4	2368.9	2626.7	2803.3
35°	2756.5	2765.5	2801.2	2775.1	2637.0	2430.1	2338.7	2373.7	2386.8	2627.3	2787.5
37.5°	2888.5	2912.5	2996.4	3019.1	2889.2	2627.3	2453.5	2434.2	2439.7	2661.0	2793.7
40°	3047.9	3089.2	3197.1	3289.8	3204.6	2883.7	2648.6	2546.2	2553.1	2742.1	2834.2
42.5°	3250.0	3278.8	3423.9	3549.6	3535.9	3222.5	2885.1	2729.7	2733.2	2903.6	2947.6
45°	3486.4	3527.6	3690.5	3879.5	3911.8	3606.0	3226.6	3007.4	3005.3	3154.5	3159.3
47.5°	3788.8	3814.2	3975.7	4181.9	4312.5	4087.7	3641.0	3406.0	3384.0	3520.1	3480.9
50°	4067.1	4107.0	4229.3	4454.7	4779.8	4652.0	4186.0	3922.8	3871.3	3998.4	3932.4
52.5°	4184.0	4225.9	4329.0	4608.7	5180.5	5381.8	4878.1	4539.3	4453.4	4550.9	4526.9
55°	3981.2	4035.5	4131.7	4471.9	5356.4	6223.7	5811.3	5251.9	5189.4	5147.5	5154.3
57.5°	3436.2	3487.8	3617.7	3992.9	5146.1	6834.7	7143.9	6168.0	6034.0	5840.9	5873.9
60°	2615.7	2648.0	2715.3	3131.1	4522.8	6993.4	8657.2	7326.0	7240.8	6531.6	6554.9
62.5°	1857.6	1894.0	1940.8	2148.3	3311.1	6546.0	9842.0	8943.1	8638.7	7247.0	7224.3
65°	1508.5	1483.8	1540.1	1637.0	1942.8	5073.2	10108.7	11187.7	10768.5	8189.2	7874.5
67.5°	1240.5	1214.4	1270.0	1442.5	1477.6	2944.8	9147.9	12644.6	12560.8	9213.9	8534.9
69°	1098.2	1084.5	1133.3	1329.8	1418.5	2091.3	7969.3	12847.4	12867.3	9818.0	8636.6
70°	989.6	995.1	1042.6	1272.8	1391.7	1724.3	6811.3	12567.7	12736.7	10119.7	8526.7
72.5°	728.5	740.2	806.1	1054.2	1366.2	1463.1	4053.4	10977.4	11276.3	10137.6	7800.2
75°	509.2	503.8	562.2	793.8	1290.6	1450.1	2380.6	8489.5	8828.4	8762.4	6554.3
77.5°	333.3	342.2	389.0	560.8	1085.8	1439.1	1551.8	6023.0	6242.9	5860.1	3876.8
80°	235.0	234.4	260.5	382.8	805.5	1382.7	1270.7	3796.3	3740.7	2303.0	1149.8
82.5°	134.7	144.3	174.6	269.4	538.8	1217.1	1169.0	1815.7	1657.6	656.3	388.3
85°	74.9	78.3	103.8	162.9	314.8	916.8	1020.6	826.1	779.3	274.2	167.0
87.5°	24.1	26.1	43.3	82.5	142.9	433.0	578.0	381.4	351.9	99.0	67.4
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°	2865.8	2865.8	2865.8	2865.8	2865.8	2865.8	2865.8	2865.8	2865.8	2865.8	2865.8
2.5°	2869.9	2878.2	2856.2	2834.9	2815.6	2788.8	2764.8	2744.9	2731.1	2729.1	2722.2
5°	2879.6	2880.2	2838.3	2782.0	2727.0	2666.5	2604.0	2559.3	2517.4	2494.0	2482.3
7.5°	2886.4	2880.2	2804.6	2713.2	2607.4	2497.5	2387.5	2299.5	2231.5	2204.7	2215.0
10°	2883.7	2864.4	2753.8	2607.4	2453.5	2289.2	2131.1	2007.4	1894.0	1835.6	1837.0
12.5°	2868.6	2836.9	2678.2	2488.5	2262.4	2042.5	1800.6	1633.6	1502.3	1424.7	1400.6
15°	2855.5	2800.5	2589.5	2327.0	2045.9	1731.9	1437.0	1230.9	1120.9	1059.7	1059.0
17.5°	2841.8	2765.5	2492.6	2155.9	1797.1	1393.0	1083.8	926.4	874.9	881.0	870.7
20°	2827.3	2724.2	2391.6	1965.5	1494.1	1039.1	811.6	747.7	762.2	790.3	794.5
22.5°	2810.8	2680.3	2283.0	1755.9	1175.2	782.1	658.4	648.8	685.9	729.9	736.0
25°	2785.4	2625.3	2146.3	1536.7	906.5	630.2	576.6	583.5	619.9	657.0	661.1
27.5°	2749.7	2557.2	2008.1	1263.2	681.1	540.9	527.1	536.1	553.9	576.6	582.1
30°	2701.6	2480.3	1849.4	1026.7	545.7	496.2	490.7	495.5	505.8	515.4	518.2
32.5°	2653.5	2406.0	1689.2	786.2	486.6	466.6	461.1	461.1	461.1	462.5	463.2
35°	2608.8	2335.9	1517.4	612.3	455.6	443.3	435.7	427.5	426.1	421.3	421.3
37.5°	2584.0	2272.0	1334.6	512.7	433.0	424.0	413.7	400.0	392.4	393.1	391.7
40°	2588.9	2230.1	1168.3	456.3	414.4	404.8	389.0	373.2	368.4	368.4	367.0
42.5°	2643.1	2216.4	1008.9	426.8	396.5	385.5	365.6	351.2	348.4	347.7	349.1
45°	2768.2	2250.0	865.9	407.5	381.4	364.9	345.0	331.9	329.2	329.2	328.5
47.5°	3012.2	2359.3	763.5	395.2	370.4	349.1	328.5	315.4	310.6	309.3	309.3
50°	3391.6	2596.4	687.2	384.2	356.7	334.7	313.4	298.3	290.7	290.0	289.3
52.5°	3918.7	2966.2	657.7	375.9	341.6	319.6	296.2	281.8	272.1	270.1	268.7
55°	4535.1	3482.3	698.2	369.7	325.8	302.4	278.3	263.2	254.3	250.2	249.5
57.5°	5249.2	4102.2	852.2	361.5	311.3	283.8	260.5	245.3	235.7	230.9	229.5
60°	5890.4	4739.2	1120.9	356.7	299.0	263.9	239.8	226.1	217.2	212.4	211.7
62.5°	6594.8	5346.8	1441.8	369.7	293.5	244.7	220.6	208.2	200.7	195.9	195.9
65°	7347.3	5955.0	1654.2	413.7	301.7	229.5	200.0	189.7	182.8	179.4	178.7
67.5°	7854.5	6165.3	1362.8	459.1	322.3	213.0	180.1	171.8	167.7	164.3	164.3
69°	7799.5	5899.3	1005.4	470.8	328.5	204.8	169.1	162.9	157.4	156.0	154.6
70°	7625.7	5596.2	842.6	463.2	323.7	197.2	162.2	154.6	149.8	148.4	147.8
72.5°	6792.0	4853.3	627.5	402.7	275.6	171.1	143.6	136.8	132.6	130.6	130.6
75°	5643.0	3966.8	490.0	320.3	215.8	144.3	123.0	117.5	114.1	112.7	112.0
77.5°	3162.7	2215.0	351.9	250.8	163.6	116.8	103.1	98.3	94.8	93.5	93.5
80°	881.0	633.0	206.9	165.6	111.3	88.7	81.8	78.3	73.5	70.1	72.2
82.5°	331.9	274.2	118.2	99.7	70.8	59.1	57.0	54.3	52.2	47.4	47.4
85°	161.5	133.3	75.6	52.9	39.2	30.9	29.6	28.2	26.8	23.4	24.1
87.5°	55.7	59.1	33.0	19.2	11.7	7.6	6.2	3.4	3.4	3.4	3.4
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)