

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: P451647

Luminaire Tested: **GALN-SA2C-740-U-SL2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451647  
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-SA2C-740-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 4000K, 1050mA 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: 14112 lumens  
Efficiency: N/A  
Efficacy: 130.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3

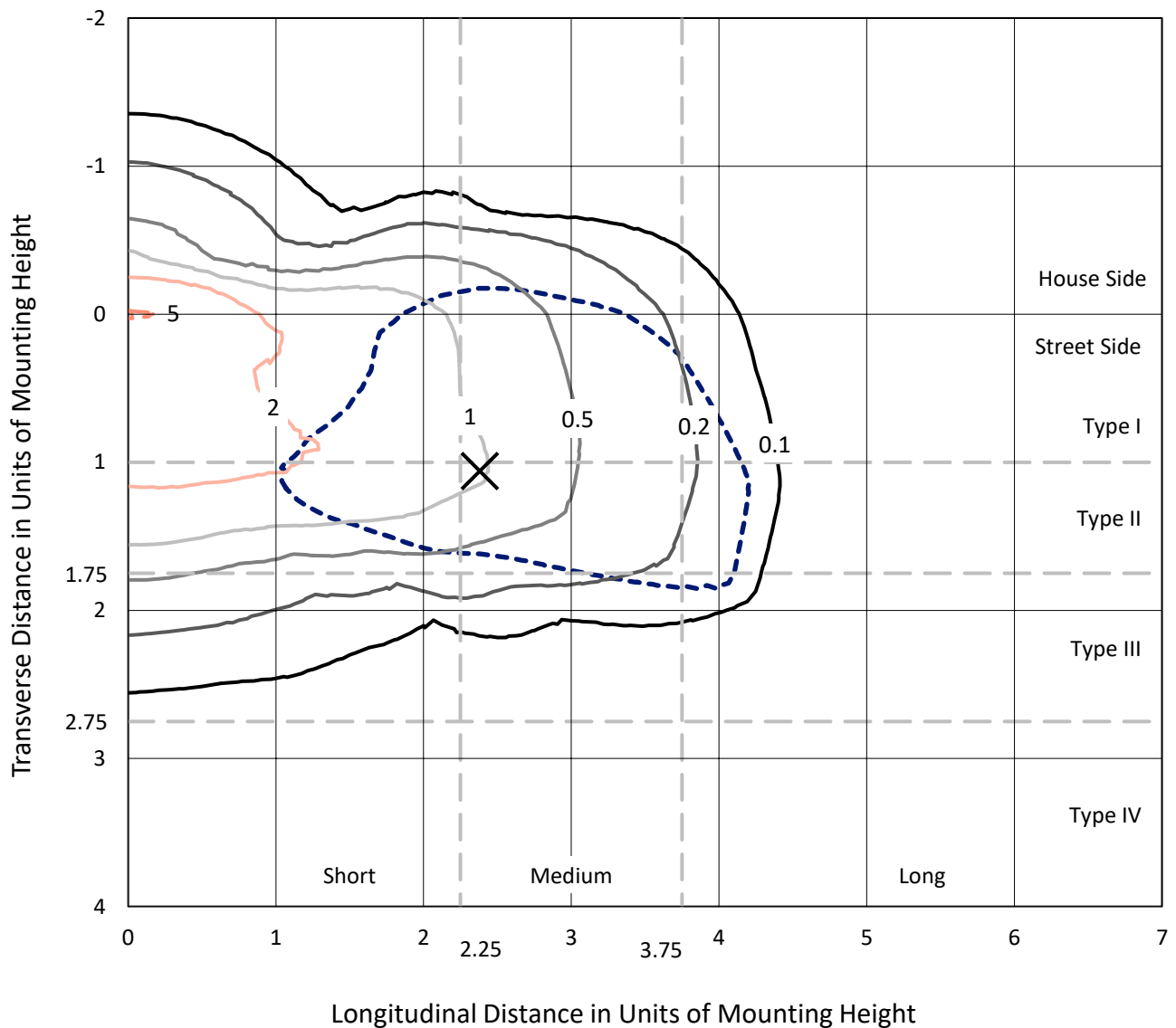
Input Watts (W): 108  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

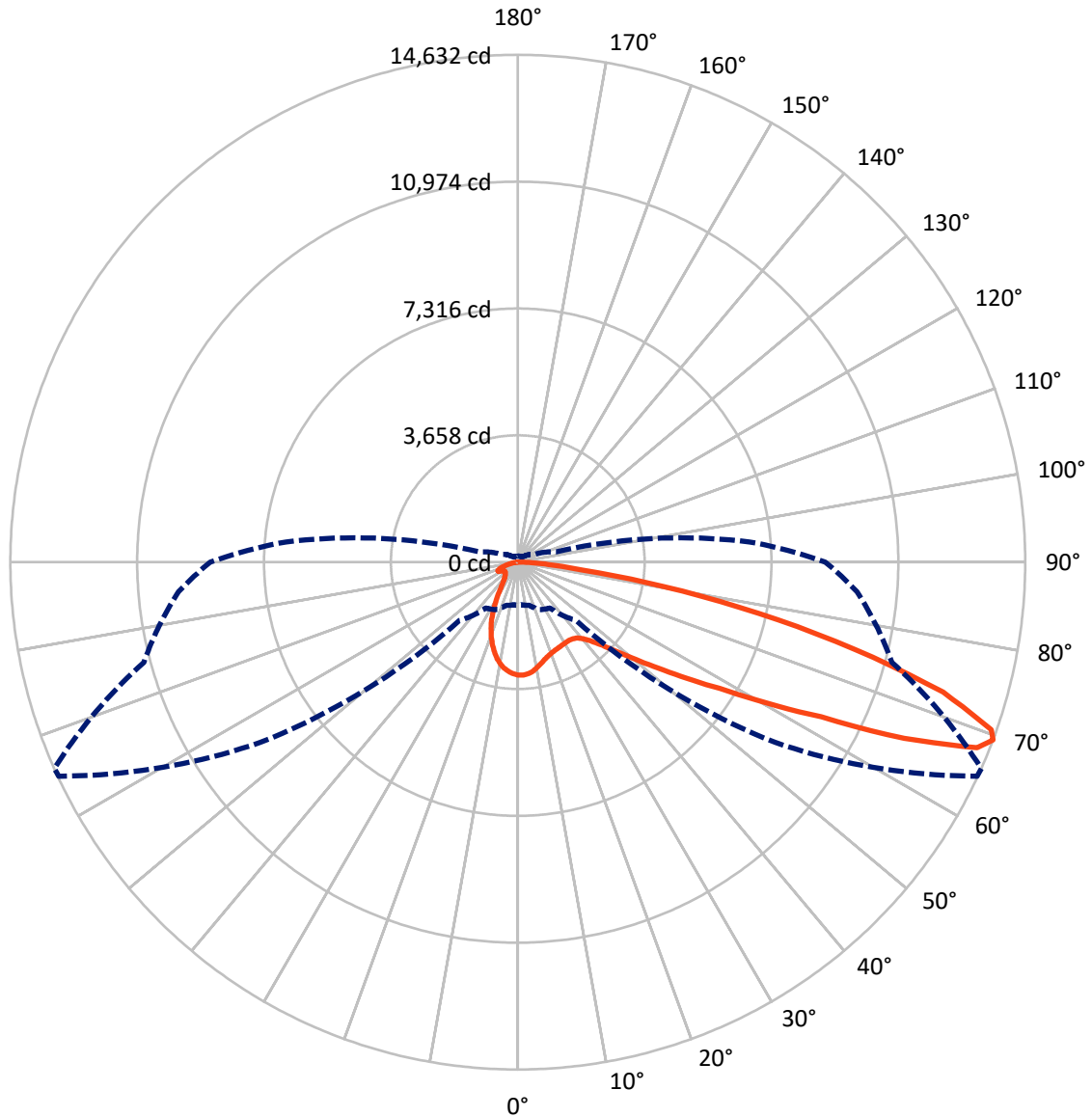
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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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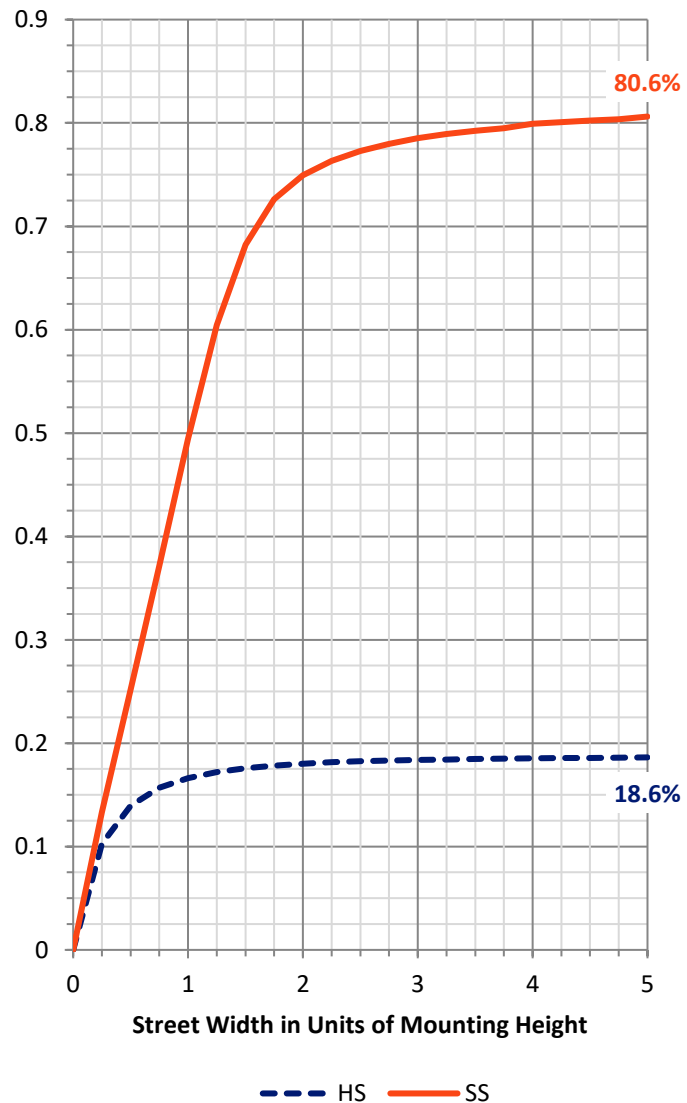
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2653.9	0.0	2653.9
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	11458.1	0.0	11458.1
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	14112.0	0.0	14112.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	283.0	2.0
10°-20°	671.2	4.8
20°-30°	913.8	6.5
30°-40°	1228.0	8.7
40°-50°	1833.5	13.0
50°-60°	2916.6	20.7
60°-70°	3587.2	25.4
70°-80°	2334.0	16.5
80°-90°	344.7	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°	14112.0	100.0
0°-180°	14112.0	100.0



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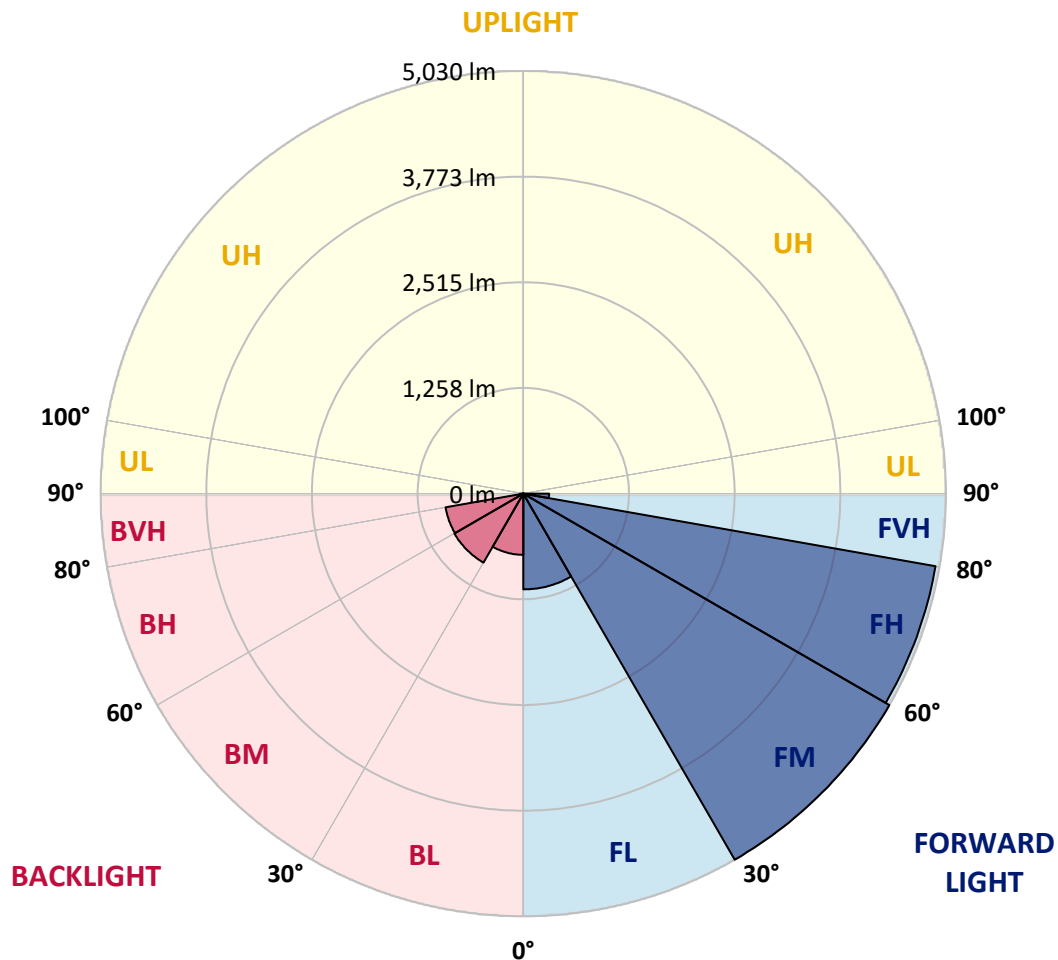
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1139.5	8.1			
FM	(30°-60°)	5030.5	35.6			
FH	(60°-80°)	4981.6	35.3			G2/5000
FVH	(80°-90°)	306.4	2.2			G3/500
BL	(0°-30°)	728.5	5.2	B2/1000		
BM	(30°-60°)	947.6	6.7	B1/1000		
BH	(60°-80°)	939.6	6.7	B2/1000		G2/1000
BVH	(80°-90°)	38.2	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°	3258.9	3258.9	3258.9	3258.9	3258.9	3258.9	3258.9	3258.9	3258.9	3258.9	3258.9
2.5°	3144.8	3157.3	3171.3	3187.0	3216.7	3233.1	3244.8	3258.1	3259.6	3266.7	3261.2
5°	2912.6	2927.5	2948.6	2978.3	3022.8	3092.4	3164.3	3222.9	3229.9	3262.8	3272.1
7.5°	2718.8	2727.4	2744.6	2792.3	2855.6	2933.0	3037.7	3156.5	3173.7	3251.8	3279.2
10°	2561.0	2569.6	2589.9	2639.1	2701.6	2798.5	2913.4	3069.7	3083.8	3218.2	3280.7
12.5°	2443.0	2450.8	2472.7	2521.1	2593.0	2683.7	2810.3	2976.0	2996.3	3173.7	3265.9
15°	2353.1	2367.9	2385.9	2425.8	2501.6	2589.1	2711.8	2890.0	2906.4	3126.8	3255.7
17.5°	2314.8	2321.8	2334.3	2371.1	2426.6	2512.5	2636.0	2822.8	2842.3	3094.0	3253.4
20°	2316.4	2323.4	2325.7	2346.1	2385.9	2460.2	2582.1	2769.6	2793.1	3065.0	3257.3
22.5°	2369.5	2370.3	2361.7	2354.7	2370.3	2432.0	2543.8	2729.8	2757.1	3052.5	3260.4
25°	2451.6	2465.6	2453.1	2420.3	2391.4	2421.1	2528.9	2707.9	2733.7	3034.6	3256.5
27.5°	2584.4	2586.8	2576.6	2532.1	2457.0	2435.2	2522.7	2691.5	2713.4	3021.3	3237.0
30°	2762.6	2755.6	2746.2	2697.0	2578.9	2489.1	2536.0	2676.6	2699.3	3001.7	3213.5
32.5°	2943.1	2965.0	2956.4	2898.6	2745.4	2593.8	2578.9	2675.1	2693.8	2986.9	3187.7
35°	3134.6	3144.8	3185.4	3155.7	2998.6	2763.4	2659.4	2699.3	2714.1	2987.7	3169.8
37.5°	3284.6	3312.0	3407.3	3433.1	3285.4	2987.7	2790.0	2768.1	2774.3	3026.0	3176.8
40°	3466.0	3512.8	3635.5	3741.0	3644.1	3279.2	3011.9	2895.5	2903.3	3118.2	3222.9
42.5°	3695.7	3728.5	3893.4	4036.4	4020.8	3664.5	3280.7	3104.1	3108.0	3301.8	3351.9
45°	3964.5	4011.4	4196.7	4411.6	4448.3	4100.5	3669.1	3419.8	3417.5	3587.1	3592.6
47.5°	4308.4	4337.3	4521.0	4755.4	4903.9	4648.4	4140.4	3873.1	3848.1	4002.8	3958.3
50°	4624.9	4670.2	4809.3	5065.7	5435.3	5290.0	4760.1	4460.8	4402.2	4546.8	4471.7
52.5°	4757.8	4805.4	4922.7	5240.7	5890.9	6119.9	5547.1	5161.8	5064.1	5175.1	5147.7
55°	4527.2	4589.0	4698.4	5085.2	6091.0	7077.3	6608.4	5972.2	5901.1	5853.4	5861.2
57.5°	3907.5	3966.1	4113.8	4540.5	5851.9	7772.0	8123.7	7014.0	6861.6	6642.0	6679.5
60°	2974.4	3011.1	3087.7	3560.5	5143.0	7952.5	9844.5	8330.8	8233.9	7427.4	7453.9
62.5°	2112.4	2153.8	2207.0	2443.0	3765.3	7443.8	11191.9	10169.7	9823.4	8240.9	8215.1
65°	1715.4	1687.3	1751.3	1861.5	2209.3	5769.0	11495.1	12722.0	12245.3	9312.3	8954.4
67.5°	1410.6	1380.9	1444.2	1640.4	1680.2	3348.7	10402.5	14378.8	14283.5	10477.6	9705.4
69°	1248.8	1233.2	1288.7	1512.2	1613.0	2378.1	9062.3	14609.4	14632.0	11164.5	9821.1
70°	1125.4	1131.6	1185.5	1447.3	1582.5	1960.8	7745.4	14291.3	14483.5	11507.6	9696.1
72.5°	828.4	841.7	916.7	1198.8	1553.6	1663.8	4609.3	12482.9	12822.8	11527.9	8870.0
75°	579.1	572.8	639.3	902.6	1467.7	1649.0	2707.1	9653.9	10039.1	9964.1	7453.2
77.5°	379.0	389.2	442.3	637.7	1234.8	1636.5	1764.6	6849.1	7099.1	6663.8	4408.4
80°	267.3	266.5	296.2	435.3	915.9	1572.4	1445.0	4317.0	4253.7	2618.8	1307.4
82.5°	153.2	164.1	198.5	306.3	612.7	1384.0	1329.3	2064.7	1885.0	746.3	441.5
85°	85.2	89.1	118.0	185.2	357.9	1042.5	1160.5	939.4	886.2	311.8	189.9
87.5°	27.4	29.7	49.2	93.8	162.6	492.3	657.2	433.7	400.1	112.5	76.6
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°	3258.9	3258.9	3258.9	3258.9	3258.9	3258.9	3258.9	3258.9	3258.9	3258.9	3258.9
2.5°	3263.5	3272.9	3247.9	3223.7	3201.8	3171.3	3144.0	3121.3	3105.7	3103.3	3095.5
5°	3274.5	3275.3	3227.6	3163.5	3101.0	3032.2	2961.1	2910.3	2862.6	2836.1	2822.8
7.5°	3282.3	3275.3	3189.3	3085.4	2965.0	2840.0	2714.9	2614.9	2537.5	2507.1	2518.8
10°	3279.2	3257.3	3131.5	2965.0	2790.0	2603.2	2423.4	2282.8	2153.8	2087.4	2088.9
12.5°	3262.0	3226.0	3045.5	2829.8	2572.7	2322.6	2047.5	1857.6	1708.4	1620.0	1592.7
15°	3247.1	3184.6	2944.7	2646.2	2326.5	1969.4	1634.1	1399.7	1274.6	1205.1	1204.3
17.5°	3231.5	3144.8	2834.5	2451.6	2043.6	1584.1	1232.4	1053.5	994.8	1001.9	990.2
20°	3215.1	3097.9	2719.6	2235.1	1699.0	1181.6	923.0	850.3	866.7	898.7	903.4
22.5°	3196.3	3047.8	2596.1	1996.7	1336.4	889.3	748.7	737.7	779.9	830.0	837.0
25°	3167.4	2985.3	2440.6	1747.4	1030.8	716.6	655.7	663.5	704.9	747.1	751.8
27.5°	3126.8	2908.0	2283.5	1436.4	774.5	615.0	599.4	609.6	629.9	655.7	661.9
30°	3072.1	2820.4	2103.0	1167.6	620.5	564.2	558.0	563.5	575.2	586.1	589.3
32.5°	3017.4	2736.0	1920.9	894.0	553.3	530.6	524.4	524.4	524.4	525.9	526.7
35°	2966.6	2656.3	1725.6	696.3	518.1	504.1	495.5	486.1	484.5	479.1	479.1
37.5°	2938.4	2583.6	1517.7	583.0	492.3	482.2	470.5	454.8	446.2	447.0	445.5
40°	2943.9	2536.0	1328.5	518.9	471.2	460.3	442.3	424.4	418.9	418.9	417.3
42.5°	3005.6	2520.3	1147.2	485.3	450.9	438.4	415.8	399.3	396.2	395.4	397.0
45°	3147.9	2558.6	984.7	463.4	433.7	415.0	392.3	377.5	374.3	374.3	373.6
47.5°	3425.3	2682.9	868.2	449.4	421.2	397.0	373.6	358.7	353.2	351.7	351.7
50°	3856.7	2952.5	781.5	436.9	405.6	380.6	356.4	339.2	330.6	329.8	329.0
52.5°	4456.1	3373.0	747.9	427.5	388.4	363.4	336.8	320.4	309.5	307.1	305.6
55°	5157.1	3959.9	794.0	420.4	370.4	343.9	316.5	299.3	289.2	284.5	283.7
57.5°	5969.1	4664.8	969.1	411.1	354.0	322.8	296.2	279.0	268.1	262.6	261.0
60°	6698.2	5389.2	1274.6	405.6	340.0	300.1	272.7	257.1	247.0	241.5	240.7
62.5°	7499.3	6080.1	1639.6	420.4	333.7	278.2	250.9	236.8	228.2	222.7	222.7
65°	8355.0	6771.7	1881.1	470.5	343.1	261.0	227.4	215.7	207.9	204.0	203.2
67.5°	8931.8	7010.8	1549.7	522.0	366.5	242.3	204.8	195.4	190.7	186.8	186.8
69°	8869.2	6708.4	1143.3	535.3	373.6	232.9	192.2	185.2	179.0	177.4	175.8
70°	8671.5	6363.8	958.1	526.7	368.1	224.3	184.4	175.8	170.4	168.8	168.0
72.5°	7723.6	5518.9	713.5	458.0	313.4	194.6	163.3	155.5	150.8	148.5	148.5
75°	6416.9	4510.8	557.2	364.2	245.4	164.1	139.9	133.6	129.7	128.2	127.4
77.5°	3596.5	2518.8	400.1	285.2	186.0	132.9	117.2	111.8	107.8	106.3	106.3
80°	1001.9	719.8	235.2	188.3	126.6	100.8	93.0	89.1	83.6	79.7	82.1
82.5°	377.5	311.8	134.4	113.3	80.5	67.2	64.9	61.7	59.4	53.9	53.9
85°	183.7	151.6	86.0	60.2	44.5	35.2	33.6	32.0	30.5	26.6	27.4
87.5°	63.3	67.2	37.5	21.9	13.3	8.6	7.0	3.9	3.9	3.9	3.9
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)