

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: P940422

Luminaire Tested: **GALN-SB3C-727-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940422
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3C-727-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20660 lumens
Efficiency: N/A
Efficacy: 138.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 149.1
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

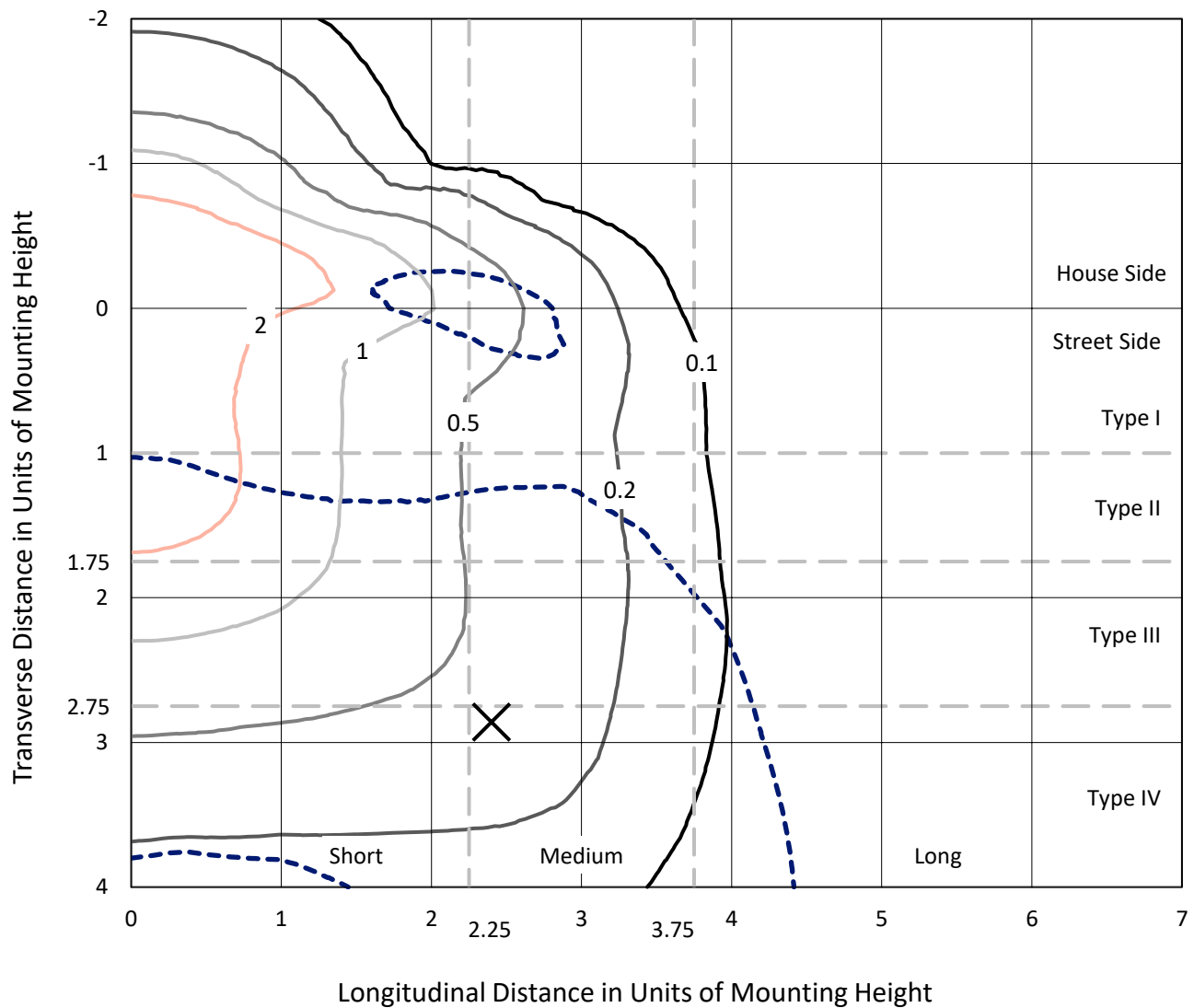


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

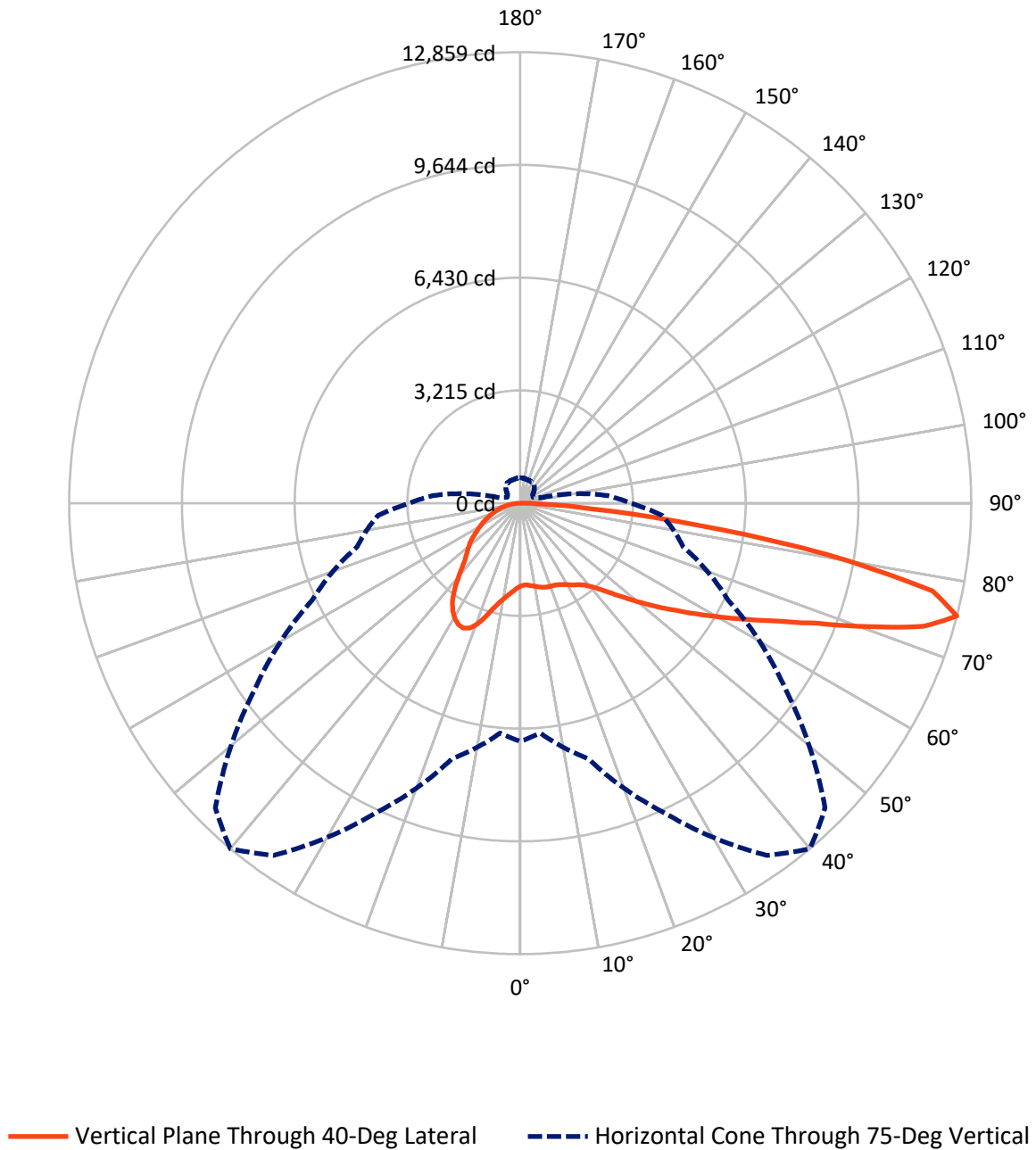


Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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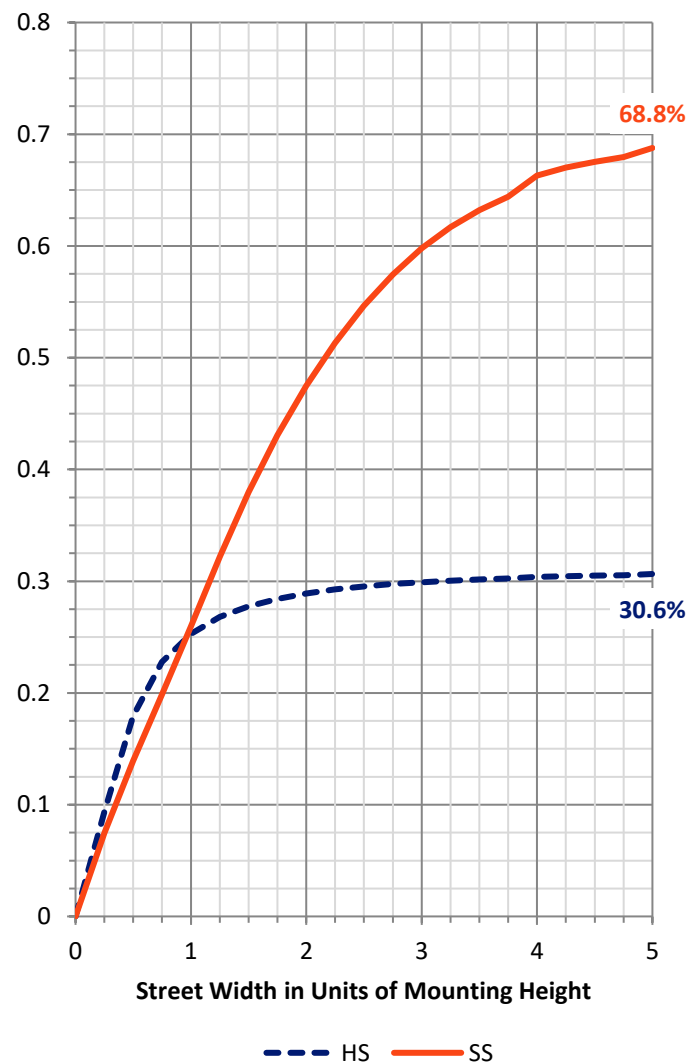
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6401.2	0.0	6401.2
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	14258.8	0.0	14258.8
	% Fixture	69.0	0.0	69.0
Total	Lumens	20660.0	0.0	20660.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.8	1.1
10°-20°	791.8	3.8
20°-30°	1445.7	7.0
30°-40°	2050.4	9.9
40°-50°	2768.7	13.4
50°-60°	3724.6	18.0
60°-70°	4727.3	22.9
70°-80°	4290.4	20.8
80°-90°	625.4	3.0
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°	20660.0	100.0
0°-180°	20660.0	100.0

Coefficient of Utilization



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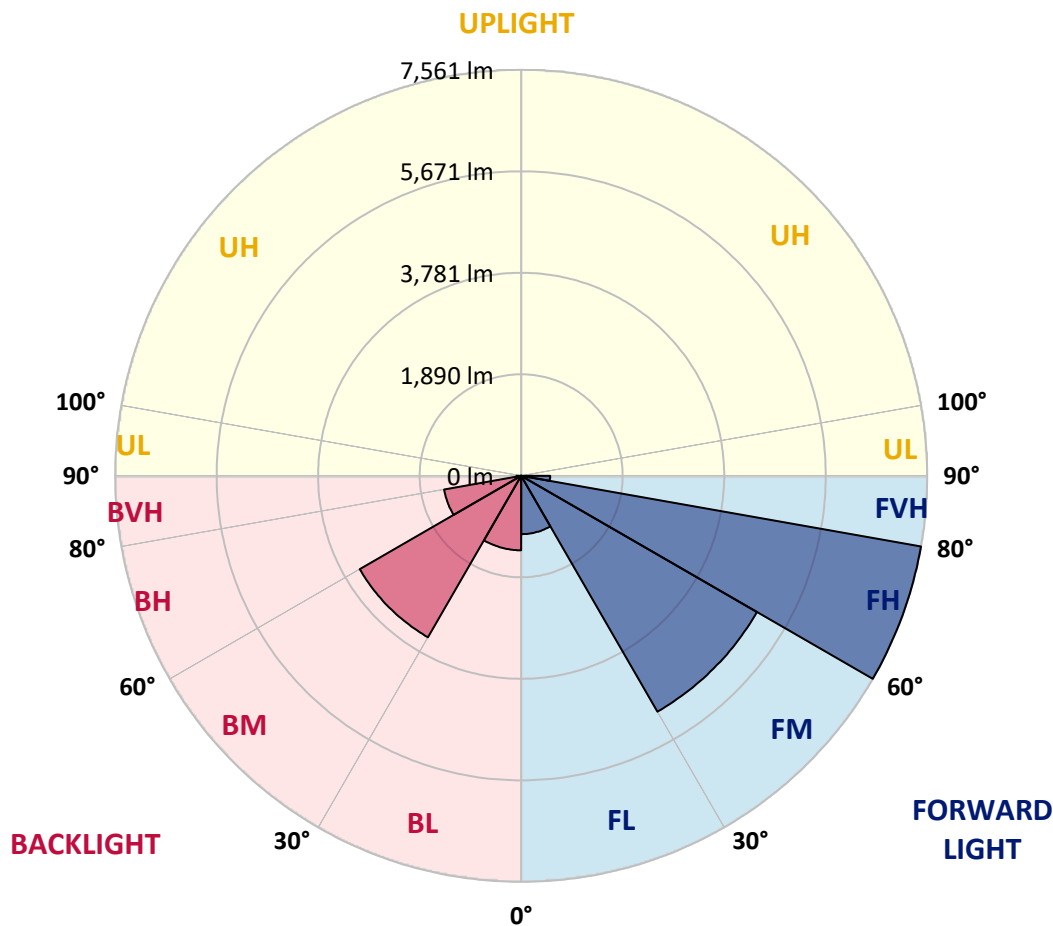
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1086.7	5.3			
FM	(30°-60°)	5071.6	24.5			
FH	(60°-80°)	7561.2	36.6			G4/12000
FVH	(80°-90°)	539.3	2.6			G4/750
BL	(0°-30°)	1386.6	6.7	B3/2500		
BM	(30°-60°)	3472.1	16.8	B3/5000		
BH	(60°-80°)	1456.5	7.0	B3/2500		G3/2500
BVH	(80°-90°)	86.1	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	2362.5	2362.5	2362.5	2362.5	2362.5	2362.5	2362.5	2362.5	2362.5	2362.5	2362.5
2.5°	2326.3	2339.5	2336.2	2331.8	2331.8	2332.9	2331.8	2339.5	2347.2	2354.8	2366.9
5°	2350.4	2363.6	2357.0	2351.5	2347.2	2346.1	2342.8	2341.7	2346.1	2355.9	2372.4
7.5°	2397.6	2410.7	2400.9	2391.0	2382.2	2377.8	2373.5	2366.9	2363.6	2369.1	2392.1
10°	2450.2	2463.3	2451.3	2433.7	2419.5	2414.0	2409.6	2403.0	2398.7	2401.9	2427.1
12.5°	2502.8	2515.9	2499.5	2475.4	2456.7	2453.4	2448.0	2445.8	2444.7	2443.6	2468.8
15°	2552.1	2563.0	2542.2	2513.7	2494.0	2488.5	2483.0	2486.3	2491.8	2498.4	2526.9
17.5°	2590.4	2601.4	2570.7	2533.4	2514.8	2512.6	2509.3	2520.3	2535.6	2552.1	2587.1
20°	2625.5	2636.4	2597.0	2546.6	2524.7	2524.7	2525.8	2548.8	2570.7	2594.8	2643.0
22.5°	2674.8	2683.6	2635.3	2566.3	2534.5	2536.7	2545.5	2568.5	2595.9	2628.8	2695.6
25°	2748.2	2754.8	2695.6	2603.6	2567.4	2574.0	2581.7	2592.6	2618.9	2657.3	2747.1
27.5°	2866.6	2872.0	2794.2	2669.3	2614.5	2625.5	2636.4	2628.8	2640.8	2673.7	2788.8
30°	3033.1	3036.4	2937.8	2772.3	2694.5	2700.0	2702.2	2670.4	2647.4	2673.7	2818.3
32.5°	3230.4	3229.3	3112.0	2897.2	2785.5	2780.0	2761.4	2698.9	2645.2	2668.2	2844.6
35°	3536.1	3524.0	3372.8	3072.6	2888.5	2854.5	2810.7	2730.7	2656.2	2662.7	2867.7
37.5°	4042.3	4005.1	3795.8	3359.7	3041.9	2955.3	2890.7	2782.2	2680.3	2660.6	2895.0
40°	4613.2	4566.1	4336.0	3753.0	3272.0	3132.8	3028.7	2855.6	2719.7	2670.4	2935.6
42.5°	5290.4	5223.6	4975.9	4216.6	3563.5	3361.8	3205.2	2948.7	2777.8	2702.2	2990.4
45°	6122.1	6033.4	5682.7	4739.2	3930.6	3662.1	3452.8	3090.1	2866.6	2763.6	3072.6
47.5°	6962.6	6984.5	6485.9	5337.5	4371.1	4032.5	3762.9	3302.7	2995.9	2862.2	3205.2
50°	7855.6	7871.0	7284.7	6000.5	4870.7	4451.1	4111.4	3540.5	3175.6	3002.4	3403.5
52.5°	8552.6	8554.7	8010.1	6694.1	5391.2	4911.3	4487.2	3812.2	3383.8	3188.7	3667.6
55°	8988.7	8983.2	8518.6	7350.5	5989.5	5394.5	4903.6	4121.2	3638.0	3407.9	3999.6
57.5°	9305.4	9288.9	8869.2	7914.8	6627.3	5965.4	5374.8	4471.9	3938.2	3668.7	4436.8
60°	9425.9	9416.0	9107.0	8402.4	7297.9	6596.6	5918.3	4864.2	4279.0	3976.6	4998.9
62.5°	9471.9	9490.5	9340.4	8874.7	8015.6	7295.7	6515.5	5333.2	4662.5	4325.0	5591.8
65°	9634.1	9668.1	9637.4	9492.7	8826.5	8114.2	7307.7	5890.9	5081.1	4698.7	6210.9
67.5°	9955.1	9989.1	10002.3	10232.4	9817.1	9134.4	8296.1	6585.6	5570.9	5086.6	6676.6
70°	9947.5	9937.6	10169.9	10820.8	11057.5	10546.9	9628.6	7440.3	6155.0	5408.8	6735.8
72.5°	9054.4	8975.5	9524.5	10814.2	12089.7	12021.8	11255.8	8542.7	6659.0	5448.2	5844.9
75°	6792.7	6582.3	7552.1	9745.9	12261.8	12859.0	12290.3	9226.5	6539.6	4813.8	4067.5
77.5°	2904.9	2693.4	3836.3	7214.6	10974.2	12020.7	11341.3	8049.6	5220.3	3183.2	1997.6
80°	760.5	759.4	1159.3	3270.9	7463.3	8876.9	7787.7	5198.4	2982.7	1137.4	551.2
82.5°	314.5	306.8	426.3	1272.2	3646.8	4981.4	4065.3	2318.7	1077.2	307.9	183.0
85°	117.2	116.2	207.1	439.4	1286.4	2054.6	1487.0	592.8	268.5	150.1	82.2
87.5°	32.9	31.8	44.9	152.3	313.4	475.6	254.2	97.5	75.6	59.2	24.1
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°	2362.5	2362.5	2362.5	2362.5	2362.5	2362.5	2362.5	2362.5	2362.5	2362.5	2362.5
2.5°	2370.2	2375.6	2385.5	2393.2	2403.0	2414.0	2429.3	2439.2	2449.1	2455.6	2451.3
5°	2380.0	2392.1	2417.3	2442.5	2472.1	2499.5	2531.2	2554.3	2572.9	2578.4	2580.6
7.5°	2401.9	2421.7	2464.4	2507.1	2554.3	2599.2	2645.2	2684.7	2716.4	2728.5	2729.6
10°	2440.3	2466.6	2526.9	2587.1	2649.6	2718.6	2777.8	2834.8	2879.7	2898.3	2899.4
12.5°	2488.5	2521.4	2600.3	2683.6	2770.1	2865.5	2942.2	3012.3	3068.2	3093.4	3093.4
15°	2551.0	2593.7	2694.5	2806.3	2933.4	3066.0	3163.5	3241.3	3303.8	3334.5	3332.3
17.5°	2618.9	2675.9	2803.0	2971.8	3153.7	3327.9	3441.8	3498.8	3563.5	3593.1	3592.0
20°	2684.7	2754.8	2936.7	3182.1	3424.3	3609.5	3701.5	3716.9	3721.3	3724.6	3733.3
22.5°	2752.6	2846.8	3104.3	3447.3	3707.0	3835.2	3848.4	3782.6	3690.6	3647.8	3659.9
25°	2827.1	2952.0	3323.5	3739.9	3950.3	3965.6	3864.8	3704.8	3530.6	3450.6	3462.7
27.5°	2899.4	3073.7	3586.5	4019.3	4125.6	3990.8	3773.9	3547.0	3336.6	3252.3	3262.1
30°	2971.8	3212.8	3876.9	4263.7	4205.6	3928.4	3630.3	3377.2	3165.7	3076.9	3086.8
32.5°	3045.2	3375.0	4211.1	4440.1	4191.4	3795.8	3451.7	3186.5	3000.2	2907.1	2919.2
35°	3128.4	3574.4	4527.8	4536.5	4096.0	3600.7	3216.1	2958.6	2796.4	2721.9	2738.4
37.5°	3236.9	3827.6	4807.2	4560.6	3929.5	3314.7	2923.5	2689.0	2555.4	2521.4	2545.5
40°	3371.7	4132.2	5020.9	4522.3	3682.9	2967.4	2603.6	2416.2	2340.6	2348.3	2374.6
42.5°	3547.0	4473.0	5171.0	4423.7	3339.9	2609.0	2323.1	2239.8	2275.9	2306.6	2335.1
45°	3775.0	4826.9	5264.1	4256.0	2952.0	2305.5	2157.6	2177.3	2204.7	2208.0	2229.9
47.5°	4066.4	5185.2	5325.5	4002.9	2556.5	2091.8	2052.4	2056.8	2051.3	2028.3	2045.8
50°	4430.2	5533.7	5380.3	3667.6	2220.0	1958.2	1905.6	1890.2	1814.6	1740.1	1750.0
52.5°	4844.4	5853.6	5403.3	3251.2	1958.2	1846.4	1760.9	1664.5	1523.1	1500.1	1507.8
55°	5304.7	6149.5	5344.1	2739.4	1737.9	1702.8	1573.5	1457.4	1442.0	1422.3	1425.6
57.5°	5854.7	6468.4	5223.6	2168.5	1512.2	1535.2	1409.2	1422.3	1394.9	1364.2	1358.8
60°	6456.3	6798.2	5012.1	1648.1	1278.8	1325.9	1366.4	1365.3	1357.7	1332.5	1323.7
62.5°	6997.6	7015.2	4595.7	1262.3	1073.9	1163.7	1274.4	1273.3	1266.7	1252.5	1247.0
65°	7319.8	6982.3	3901.0	993.9	905.1	1030.0	1149.5	1158.2	1159.3	1158.2	1158.2
67.5°	7262.8	6597.7	2947.6	791.2	765.9	894.2	1025.6	1037.7	1046.5	1048.7	1050.9
70°	6618.5	5752.8	1922.0	631.2	642.1	774.7	908.4	920.5	928.1	936.9	941.3
72.5°	5158.9	4229.7	1100.2	510.6	533.6	671.7	792.2	806.5	810.9	827.3	833.9
75°	3143.8	2487.4	593.9	402.2	438.3	574.2	677.2	693.6	701.3	721.0	723.2
77.5°	1494.6	1077.2	338.6	313.4	352.8	469.0	572.0	590.6	569.8	580.8	572.0
80°	505.2	400.0	213.7	238.9	269.6	366.0	458.0	476.7	432.8	430.6	426.3
82.5°	176.4	162.2	135.9	158.9	174.2	261.9	346.3	370.4	322.2	321.1	305.7
85°	69.0	65.7	75.6	86.6	104.1	161.1	227.9	240.0	198.3	160.0	157.8
87.5°	14.2	15.3	18.6	19.7	31.8	55.9	82.2	100.8	80.0	67.9	62.5
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)