

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: P940942

Luminaire Tested: **GALN-SB4B-730-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940942
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-SB4B-730-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22371 lumens
Efficiency: N/A
Efficacy: 152.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

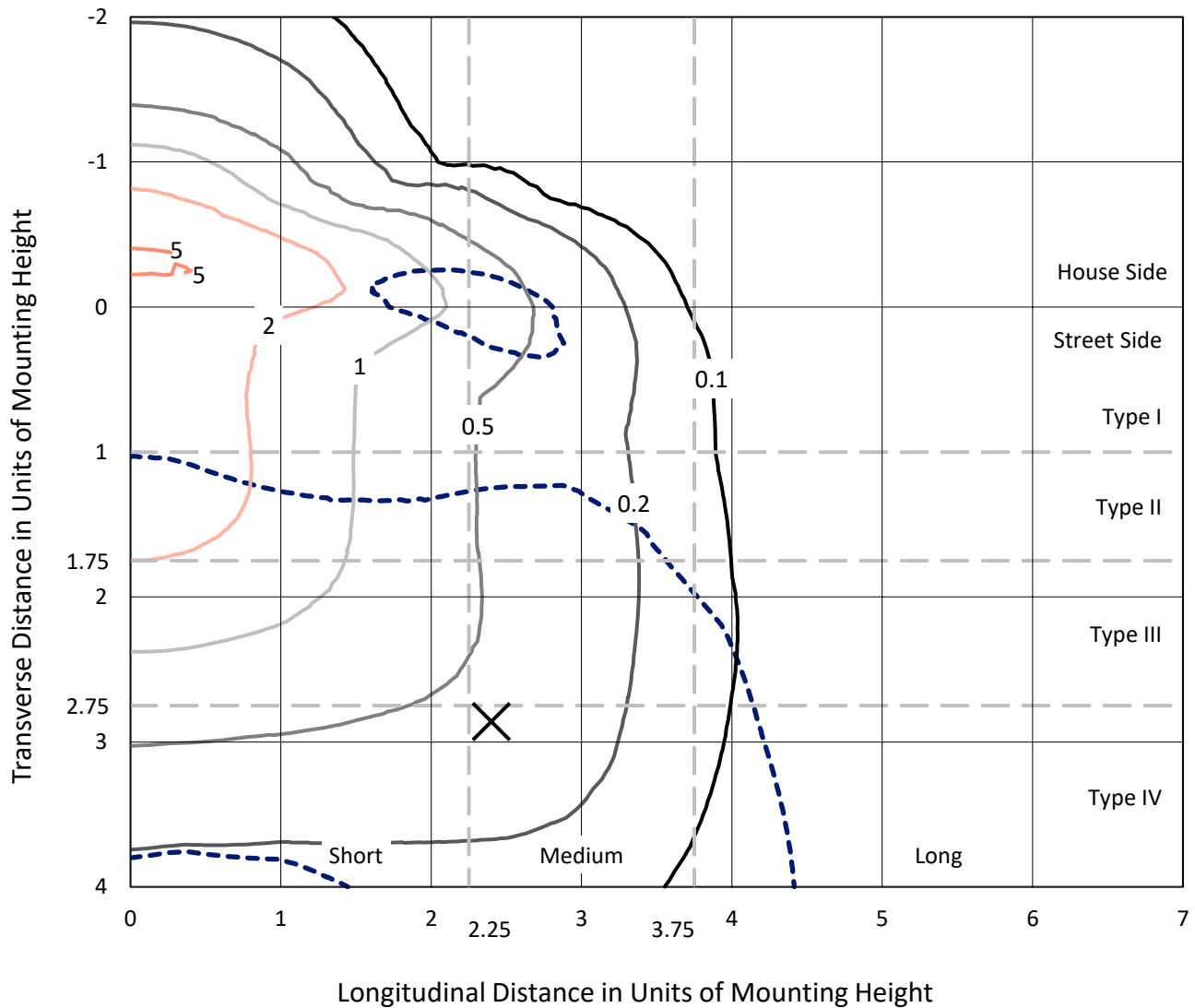
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

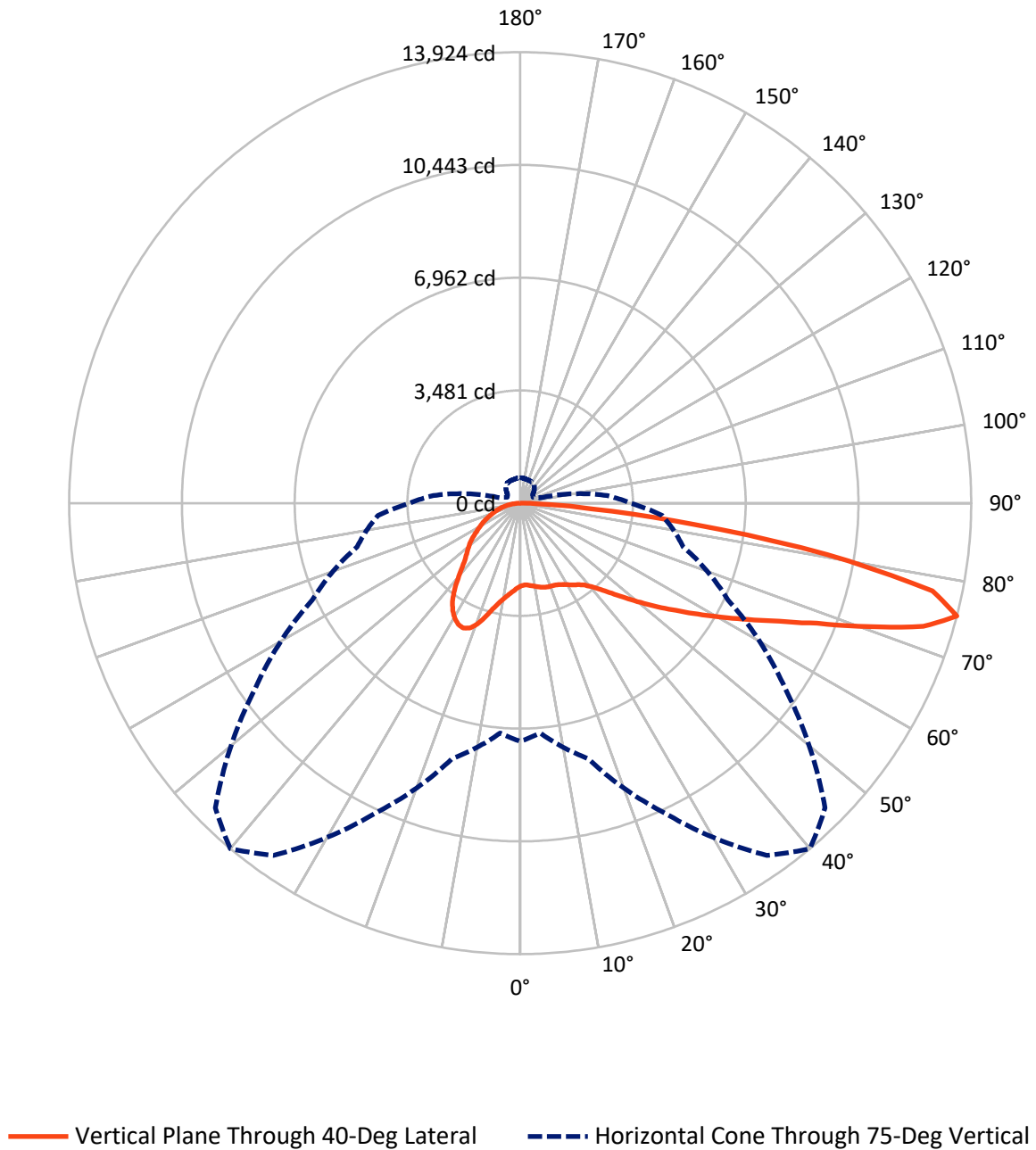
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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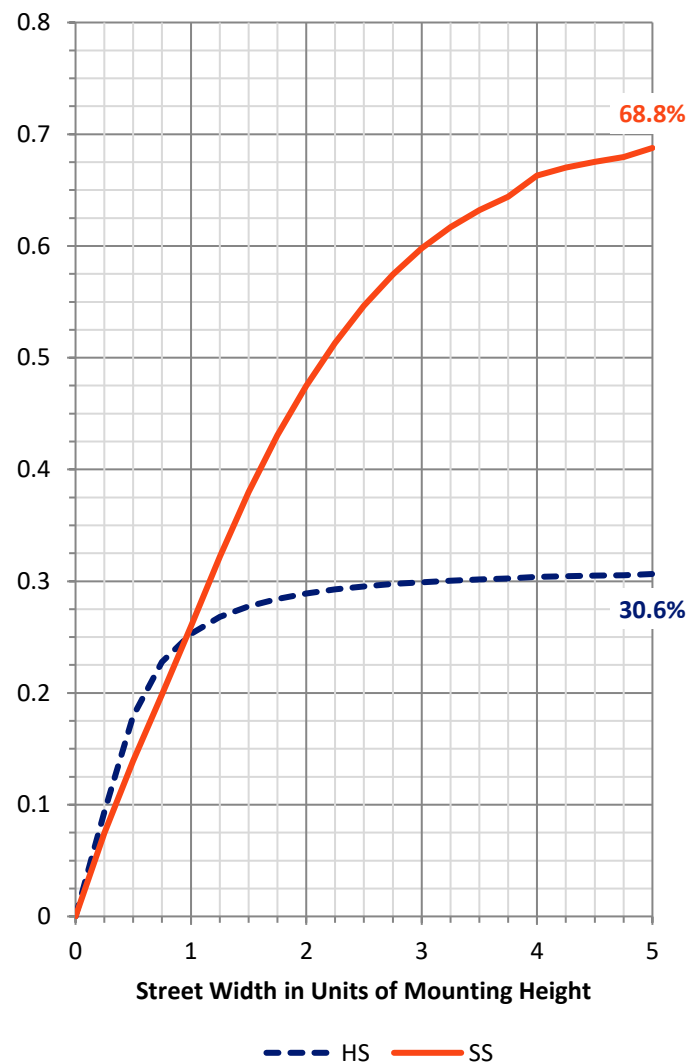
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6931.3	0.0	6931.3
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	15439.7	0.0	15439.7
	% Fixture	69.0	0.0	69.0
Total	Lumens	22371.0	0.0	22371.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.4	1.1
10°-20°	857.3	3.8
20°-30°	1565.4	7.0
30°-40°	2220.2	9.9
40°-50°	2997.9	13.4
50°-60°	4033.0	18.0
60°-70°	5118.8	22.9
70°-80°	4645.7	20.8
80°-90°	677.2	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°	22371.0	100.0
0°-180°	22371.0	100.0

Coefficient of Utilization



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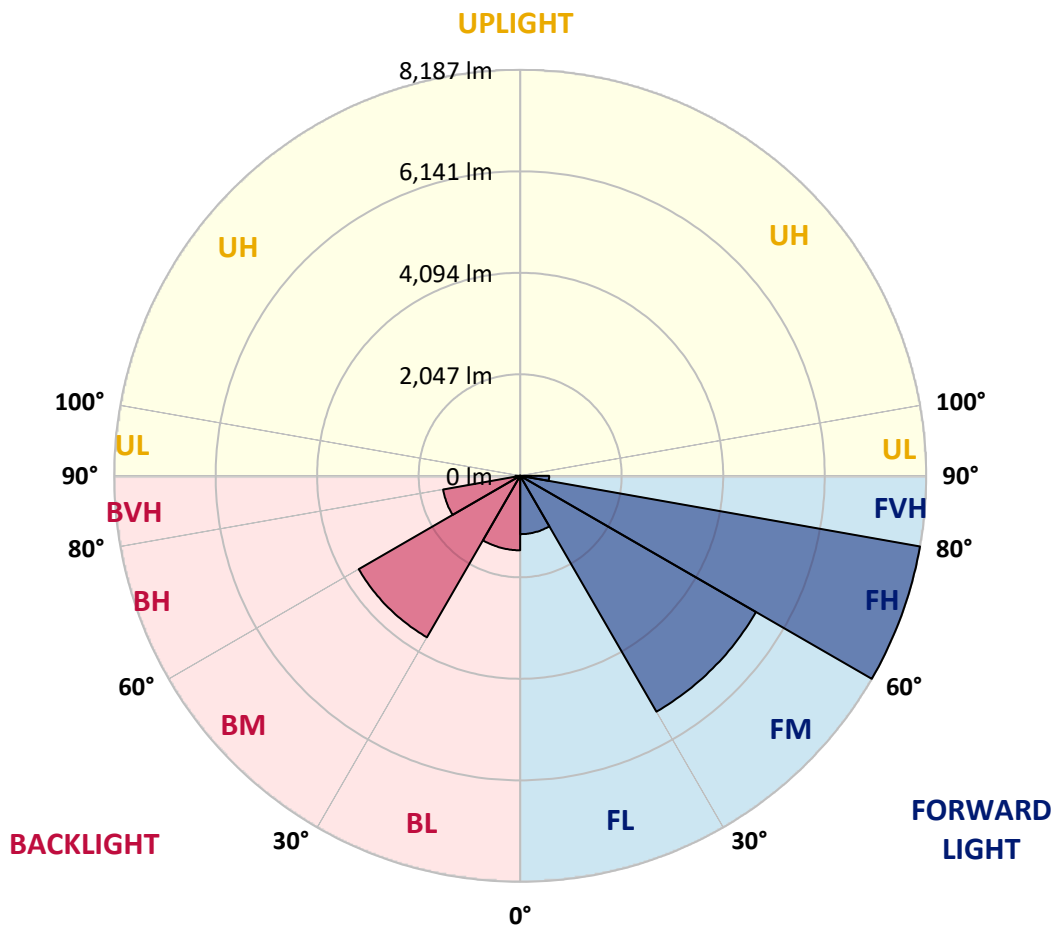
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1176.7	5.3			
FM	(30°-60°)	5491.6	24.5			
FH	(60°-80°)	8187.4	36.6			G4/12000
FVH	(80°-90°)	584.0	2.6			G4/750
BL	(0°-30°)	1501.4	6.7	B3/2500		
BM	(30°-60°)	3759.6	16.8	B3/5000		
BH	(60°-80°)	1577.1	7.0	B3/2500		G3/2500
BVH	(80°-90°)	93.2	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°	2558.2	2558.2	2558.2	2558.2	2558.2	2558.2	2558.2	2558.2	2558.2	2558.2	2558.2
2.5°	2519.0	2533.2	2529.7	2524.9	2524.9	2526.1	2524.9	2533.2	2541.5	2549.8	2562.9
5°	2545.1	2559.3	2552.2	2546.3	2541.5	2540.4	2536.8	2535.6	2540.4	2551.0	2568.8
7.5°	2596.1	2610.4	2599.7	2589.0	2579.5	2574.8	2570.0	2562.9	2559.3	2565.3	2590.2
10°	2653.1	2667.3	2654.3	2635.3	2619.9	2613.9	2609.2	2602.1	2597.3	2600.9	2628.2
12.5°	2710.0	2724.3	2706.5	2680.4	2660.2	2656.6	2650.7	2648.3	2647.1	2646.0	2673.2
15°	2763.4	2775.3	2752.7	2721.9	2700.5	2694.6	2688.7	2692.2	2698.2	2705.3	2736.1
17.5°	2805.0	2816.8	2783.6	2743.3	2723.1	2720.7	2717.1	2729.0	2745.6	2763.4	2801.4
20°	2842.9	2854.8	2812.1	2757.5	2733.8	2733.8	2734.9	2759.9	2783.6	2809.7	2861.9
22.5°	2896.3	2905.8	2853.6	2778.8	2744.4	2746.8	2756.3	2781.2	2810.9	2846.5	2918.9
25°	2975.8	2982.9	2918.9	2819.2	2780.0	2787.2	2795.5	2807.3	2835.8	2877.3	2974.6
27.5°	3104.0	3109.9	3025.6	2890.4	2831.1	2842.9	2854.8	2846.5	2859.5	2895.1	3019.7
30°	3284.3	3287.9	3181.1	3001.9	2917.7	2923.6	2926.0	2891.6	2866.7	2895.1	3051.7
32.5°	3497.9	3496.7	3369.7	3137.2	3016.2	3010.2	2990.0	2922.4	2864.3	2889.2	3080.2
35°	3828.9	3815.9	3652.1	3327.0	3127.7	3090.9	3043.4	2956.8	2876.1	2883.3	3105.1
37.5°	4377.1	4336.8	4110.1	3637.9	3293.8	3200.1	3130.1	3012.6	2902.2	2880.9	3134.8
40°	4995.3	4944.3	4695.1	4063.9	3543.0	3392.3	3279.6	3092.1	2945.0	2891.6	3178.7
42.5°	5728.6	5656.2	5388.0	4565.8	3858.6	3640.3	3470.6	3192.9	3007.8	2926.0	3238.0
45°	6629.1	6533.0	6153.3	5131.7	4256.1	3965.4	3738.7	3346.0	3104.0	2992.4	3327.0
47.5°	7539.2	7562.9	7023.1	5779.6	4733.1	4366.4	4074.5	3576.2	3244.0	3099.2	3470.6
50°	8506.2	8522.8	7888.0	6497.4	5274.1	4819.7	4451.9	3833.7	3438.6	3251.1	3685.4
52.5°	9260.8	9263.2	8673.5	7248.5	5837.7	5318.0	4858.8	4127.9	3664.0	3452.8	3971.3
55°	9733.1	9727.2	9224.1	7959.2	6485.6	5841.3	5309.7	4462.5	3939.3	3690.1	4330.8
57.5°	10076.0	10058.2	9603.8	8570.3	7176.1	6459.5	5819.9	4842.2	4264.4	3972.5	4804.3
60°	10206.5	10195.8	9861.2	9098.3	7902.3	7142.9	6408.4	5267.0	4633.4	4305.9	5412.9
62.5°	10256.3	10276.5	10114.0	9609.7	8679.4	7899.9	7055.1	5774.8	5048.7	4683.2	6054.9
65°	10432.0	10468.7	10435.5	10278.9	9557.5	8786.2	7913.0	6378.8	5501.9	5087.8	6725.2
67.5°	10779.6	10816.4	10830.6	11079.8	10630.1	9890.9	8983.2	7131.0	6032.3	5507.9	7229.5
70°	10771.3	10760.6	11012.2	11717.0	11973.3	11420.3	10426.0	8056.5	6664.7	5856.7	7293.6
72.5°	9804.3	9718.8	10313.3	11709.8	13091.0	13017.4	12188.0	9250.2	7210.5	5899.4	6328.9
75°	7355.3	7127.5	8177.5	10553.0	13277.2	13923.9	13308.1	9990.6	7081.2	5212.4	4404.4
77.5°	3145.5	2916.5	4154.0	7812.1	11883.1	13016.2	12280.6	8716.2	5652.6	3446.9	2163.0
80°	823.5	822.3	1255.3	3541.8	8081.4	9612.1	8432.7	5628.9	3229.7	1231.6	596.8
82.5°	340.5	332.2	461.6	1377.6	3948.8	5394.0	4402.0	2510.7	1166.4	333.4	198.2
85°	127.0	125.8	224.3	475.8	1393.0	2224.7	1610.1	641.9	290.7	162.6	89.0
87.5°	35.6	34.4	48.6	164.9	339.3	515.0	275.3	105.6	81.9	64.1	26.1
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°	2558.2	2558.2	2558.2	2558.2	2558.2	2558.2	2558.2	2558.2	2558.2	2558.2	2558.2
2.5°	2566.5	2572.4	2583.1	2591.4	2602.1	2613.9	2630.5	2641.2	2651.9	2659.0	2654.3
5°	2577.1	2590.2	2617.5	2644.8	2676.8	2706.5	2740.9	2765.8	2786.0	2791.9	2794.3
7.5°	2600.9	2622.2	2668.5	2714.8	2765.8	2814.4	2864.3	2907.0	2941.4	2954.5	2955.6
10°	2642.4	2670.9	2736.1	2801.4	2869.0	2943.8	3007.8	3069.5	3118.2	3138.4	3139.6
12.5°	2694.6	2730.2	2815.6	2905.8	2999.5	3102.8	3185.8	3261.8	3322.3	3349.6	3349.6
15°	2762.2	2808.5	2917.7	3038.7	3176.3	3319.9	3425.5	3509.7	3577.4	3610.6	3608.2
17.5°	2835.8	2897.5	3035.1	3217.9	3414.8	3603.5	3726.9	3788.6	3858.6	3890.6	3889.4
20°	2907.0	2982.9	3179.9	3445.7	3707.9	3908.4	4008.1	4024.7	4029.4	4033.0	4042.5
22.5°	2980.6	3082.6	3361.4	3732.8	4014.0	4152.8	4167.1	4095.9	3996.2	3950.0	3963.0
25°	3061.2	3196.5	3598.7	4049.6	4277.4	4294.0	4184.9	4011.7	3823.0	3736.4	3749.4
27.5°	3139.6	3328.2	3883.5	4352.2	4467.3	4321.3	4086.4	3840.8	3613.0	3521.6	3532.3
30°	3217.9	3478.9	4197.9	4616.8	4553.9	4253.7	3931.0	3656.9	3427.9	3331.8	3342.4
32.5°	3297.4	3654.5	4559.8	4807.8	4538.5	4110.1	3737.6	3450.4	3248.7	3147.9	3160.9
35°	3387.5	3870.5	4902.7	4912.2	4435.2	3898.9	3482.5	3203.6	3028.0	2947.3	2965.1
37.5°	3505.0	4144.5	5205.3	4938.3	4254.9	3589.2	3165.7	2911.7	2767.0	2730.2	2756.3
40°	3650.9	4474.4	5436.7	4896.8	3987.9	3213.1	2819.2	2616.3	2534.4	2542.7	2571.2
42.5°	3840.8	4843.4	5599.2	4790.0	3616.5	2825.1	2515.4	2425.3	2464.4	2497.6	2528.5
45°	4087.6	5226.7	5700.1	4608.5	3196.5	2496.5	2336.3	2357.6	2387.3	2390.9	2414.6
47.5°	4403.2	5614.6	5766.5	4334.4	2768.2	2265.1	2222.4	2227.1	2221.2	2196.3	2215.2
50°	4797.1	5992.0	5825.9	3971.3	2403.9	2120.3	2063.4	2046.8	1964.9	1884.2	1894.9
52.5°	5245.6	6338.4	5850.8	3520.4	2120.3	1999.3	1906.7	1802.3	1649.3	1624.4	1632.7
55°	5744.0	6658.8	5786.7	2966.3	1881.8	1843.9	1703.9	1578.1	1561.5	1540.1	1543.7
57.5°	6339.6	7004.1	5656.2	2348.1	1637.4	1662.3	1525.9	1540.1	1510.4	1477.2	1471.3
60°	6991.0	7361.2	5427.2	1784.5	1384.7	1435.7	1479.6	1478.4	1470.1	1442.8	1433.3
62.5°	7577.2	7596.2	4976.3	1366.9	1162.8	1260.1	1379.9	1378.7	1371.6	1356.2	1350.3
65°	7926.0	7560.6	4224.0	1076.2	980.1	1115.3	1244.7	1254.2	1255.3	1254.2	1254.2
67.5°	7864.3	7144.1	3191.8	856.7	829.4	968.2	1110.6	1123.6	1133.1	1135.5	1137.9
70°	7166.6	6229.3	2081.2	683.4	695.3	838.9	983.6	996.7	1005.0	1014.5	1019.2
72.5°	5586.2	4580.0	1191.3	552.9	577.8	727.3	857.9	873.3	878.0	895.8	902.9
75°	3404.1	2693.4	643.1	435.5	474.6	621.7	733.3	751.1	759.4	780.7	783.1
77.5°	1618.4	1166.4	366.6	339.3	382.1	507.8	619.4	639.5	617.0	628.9	619.4
80°	547.0	433.1	231.4	258.7	291.9	396.3	496.0	516.1	468.7	466.3	461.6
82.5°	191.0	175.6	147.1	172.0	188.7	283.6	374.9	401.0	348.8	347.7	331.0
85°	74.8	71.2	81.9	93.7	112.7	174.4	246.8	259.8	214.8	173.2	170.9
87.5°	15.4	16.6	20.2	21.4	34.4	60.5	89.0	109.2	86.6	73.6	67.6
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)