

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: P941442

Luminaire Tested: **GALN-SB5A-727-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941442
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-SB5A-727-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20834 lumens
Efficiency: N/A
Efficacy: 147.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 141.7
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

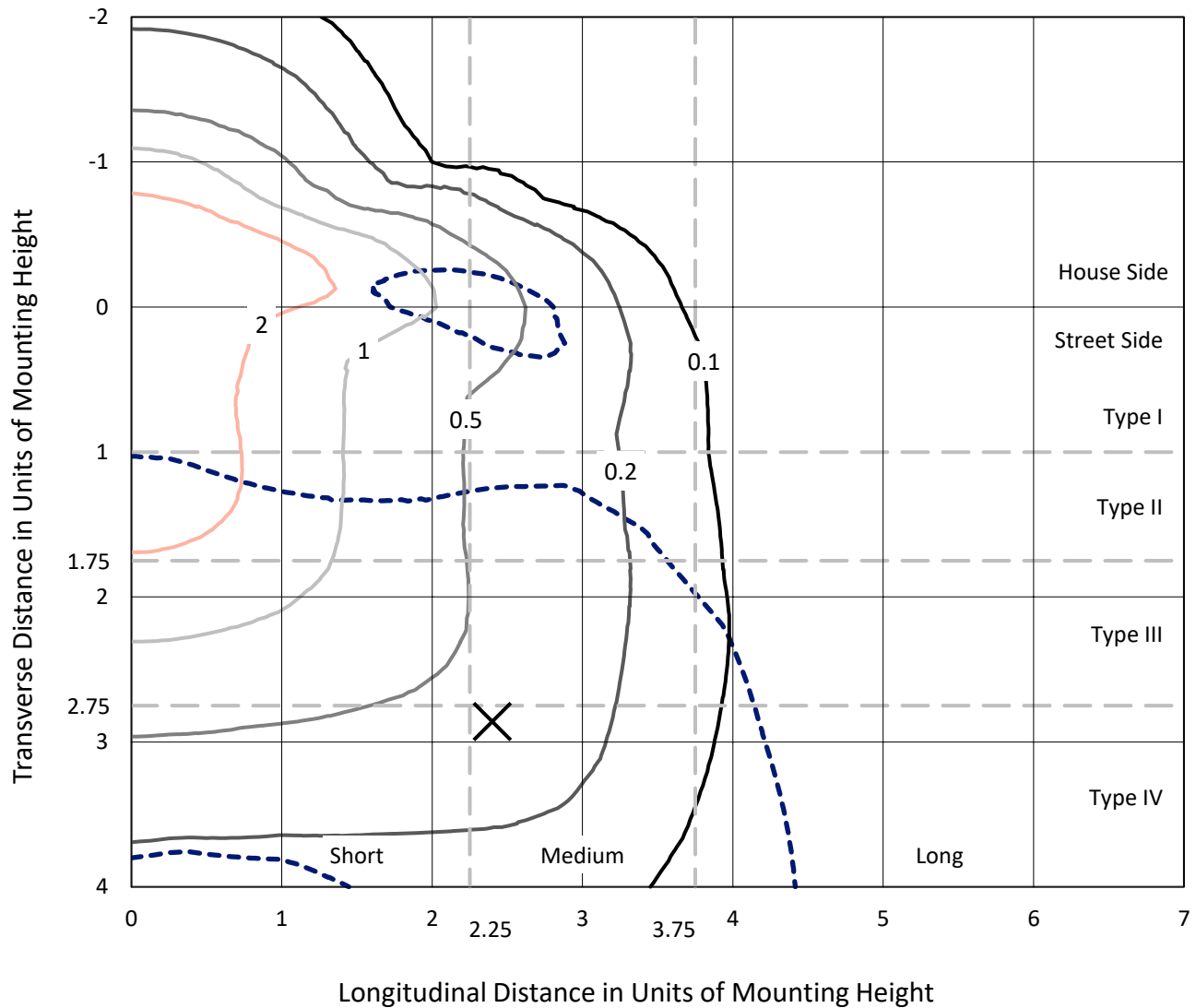


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

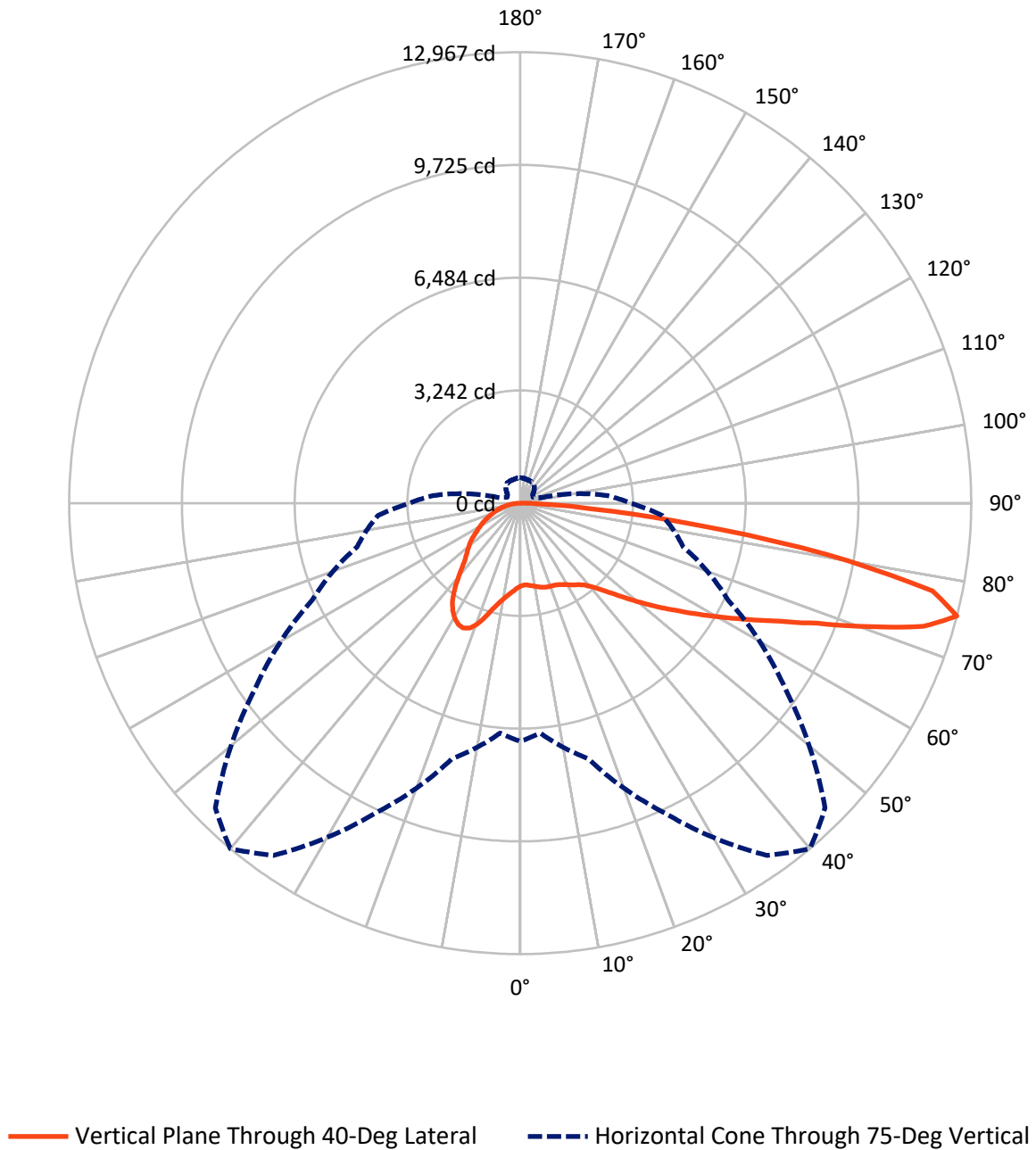


Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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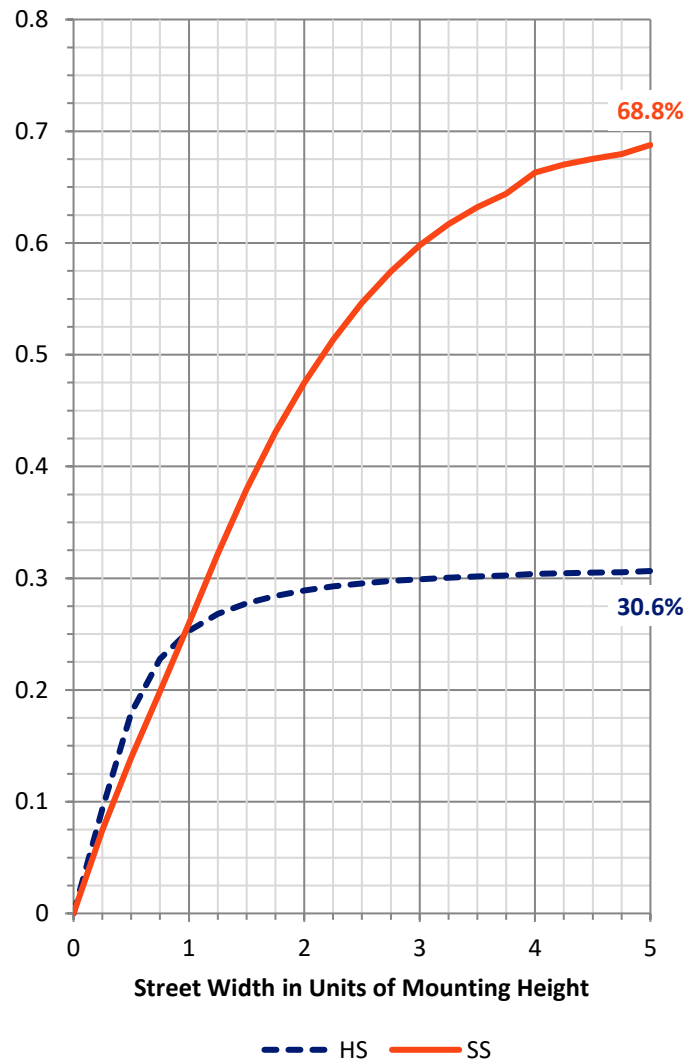
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6455.1	0.0	6455.1
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	14378.9	0.0	14378.9
	% Fixture	69.0	0.0	69.0
Total	Lumens	20834.0	0.0	20834.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.8	1.1
10°-20°	798.4	3.8
20°-30°	1457.9	7.0
30°-40°	2067.7	9.9
40°-50°	2792.0	13.4
50°-60°	3755.9	18.0
60°-70°	4767.2	22.9
70°-80°	4326.5	20.8
80°-90°	630.7	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°	20834.0	100.0
0°-180°	20834.0	100.0

Coefficient of Utilization



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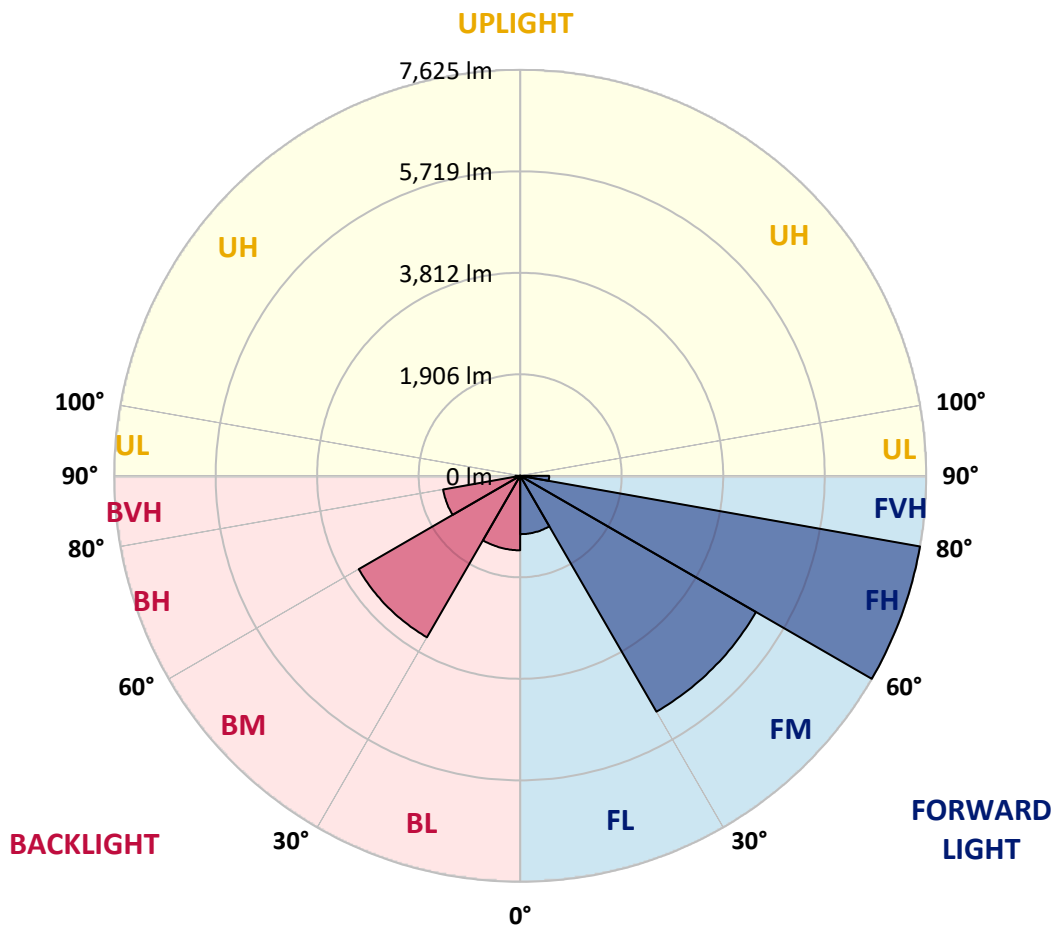
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1095.9	5.3			
FM	(30°-60°)	5114.3	24.5			
FH	(60°-80°)	7624.9	36.6			G4/12000
FVH	(80°-90°)	543.8	2.6			G4/750
BL	(0°-30°)	1398.2	6.7	B3/2500		
BM	(30°-60°)	3501.3	16.8	B3/5000		
BH	(60°-80°)	1468.7	7.0	B3/2500		G3/2500
BVH	(80°-90°)	86.8	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°	2382.4	2382.4	2382.4	2382.4	2382.4	2382.4	2382.4	2382.4	2382.4	2382.4	2382.4
2.5°	2345.9	2359.2	2355.9	2351.5	2351.5	2352.6	2351.5	2359.2	2366.9	2374.7	2386.8
5°	2370.2	2383.5	2376.9	2371.3	2366.9	2365.8	2362.5	2361.4	2365.8	2375.8	2392.3
7.5°	2417.8	2431.0	2421.1	2411.1	2402.3	2397.9	2393.4	2386.8	2383.5	2389.0	2412.2
10°	2470.8	2484.1	2471.9	2454.2	2439.9	2434.3	2429.9	2423.3	2418.9	2422.2	2447.6
12.5°	2523.8	2537.1	2520.5	2496.2	2477.4	2474.1	2468.6	2466.4	2465.3	2464.2	2489.6
15°	2573.6	2584.6	2563.6	2534.9	2515.0	2509.5	2503.9	2507.3	2512.8	2519.4	2548.1
17.5°	2612.2	2623.3	2592.3	2554.8	2536.0	2533.8	2530.5	2541.5	2557.0	2573.6	2608.9
20°	2647.6	2658.6	2618.9	2568.0	2545.9	2545.9	2547.0	2570.2	2592.3	2616.7	2665.3
22.5°	2697.3	2706.2	2657.5	2587.9	2555.9	2558.1	2566.9	2590.1	2617.8	2650.9	2718.3
25°	2771.4	2778.0	2718.3	2625.5	2589.0	2595.7	2603.4	2614.4	2641.0	2679.6	2770.3
27.5°	2890.7	2896.2	2817.8	2691.8	2636.5	2647.6	2658.6	2650.9	2663.1	2696.2	2812.2
30°	3058.7	3062.0	2962.5	2795.7	2717.2	2722.7	2724.9	2692.9	2669.7	2696.2	2842.1
32.5°	3257.6	3256.5	3138.2	2921.6	2808.9	2803.4	2784.6	2721.6	2667.5	2690.7	2868.6
35°	3565.9	3553.7	3401.2	3098.4	2912.8	2878.5	2834.3	2753.7	2678.5	2685.2	2891.8
37.5°	4076.4	4038.8	3827.7	3388.0	3067.5	2980.2	2915.0	2805.6	2702.8	2683.0	2919.4
40°	4652.1	4604.6	4372.5	3784.6	3299.6	3159.2	3054.2	2879.6	2742.6	2692.9	2960.3
42.5°	5335.0	5267.6	5017.8	4252.1	3593.5	3390.2	3232.1	2973.6	2801.2	2724.9	3015.6
45°	6173.7	6084.2	5730.6	4779.2	3963.7	3692.9	3481.9	3116.1	2890.7	2786.8	3098.4
47.5°	7021.2	7043.3	6540.5	5382.5	4407.9	4066.4	3794.6	3330.5	3021.1	2886.3	3232.1
50°	7921.8	7937.3	7346.1	6051.0	4911.8	4488.5	4146.0	3570.3	3202.3	3027.7	3432.2
52.5°	8624.6	8626.8	8077.6	6750.5	5436.6	4952.6	4525.0	3844.3	3412.3	3215.6	3698.5
55°	9064.4	9058.8	8590.3	7412.4	6040.0	5440.0	4944.9	4155.9	3668.6	3436.6	4033.3
57.5°	9383.7	9367.1	8943.9	7981.5	6683.1	6015.7	5420.1	4509.5	3971.4	3699.6	4474.2
60°	9505.3	9495.3	9183.7	8473.2	7359.3	6652.1	5968.1	4905.1	4315.1	4010.1	5041.0
62.5°	9551.7	9570.5	9419.1	8949.5	8083.1	7357.1	6570.4	5378.1	4701.8	4361.5	5638.9
65°	9715.2	9749.5	9718.5	9572.7	8900.8	8182.6	7369.3	5940.5	5123.9	4738.3	6263.2
67.5°	10039.0	10073.2	10086.5	10318.6	9899.8	9211.3	8366.0	6641.1	5617.9	5129.4	6732.8
70°	10031.3	10021.3	10255.6	10911.9	11150.6	10635.7	9709.7	7503.0	6206.8	5454.3	6792.5
72.5°	9130.7	9051.1	9604.7	10905.3	12191.5	12123.0	11350.6	8614.6	6715.1	5494.1	5894.1
75°	6849.9	6637.8	7615.7	9827.9	12365.0	12967.3	12393.8	9304.2	6594.7	4854.3	4101.8
77.5°	2929.4	2716.1	3868.6	7275.4	11066.6	12121.9	11436.8	8117.4	5264.3	3210.0	2014.4
80°	766.9	765.8	1169.1	3298.4	7526.2	8951.7	7853.3	5242.2	3007.8	1147.0	555.8
82.5°	317.1	309.4	429.8	1282.9	3677.5	5023.4	4099.6	2338.2	1086.2	310.5	184.5
85°	118.2	117.1	208.8	443.1	1297.3	2071.9	1499.5	597.8	270.7	151.4	82.9
87.5°	33.2	32.0	45.3	153.6	316.0	479.6	256.4	98.3	76.2	59.7	24.3
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°	2382.4	2382.4	2382.4	2382.4	2382.4	2382.4	2382.4	2382.4	2382.4	2382.4	2382.4
2.5°	2390.1	2395.7	2405.6	2413.3	2423.3	2434.3	2449.8	2459.7	2469.7	2476.3	2471.9
5°	2400.1	2412.2	2437.6	2463.1	2492.9	2520.5	2552.6	2575.8	2594.6	2600.1	2602.3
7.5°	2422.2	2442.1	2485.2	2528.3	2575.8	2621.1	2667.5	2707.3	2739.3	2751.5	2752.6
10°	2460.9	2487.4	2548.1	2608.9	2671.9	2741.5	2801.2	2858.7	2904.0	2922.7	2923.8
12.5°	2509.5	2542.6	2622.2	2706.2	2793.5	2889.6	2966.9	3037.7	3094.0	3119.4	3119.4
15°	2572.5	2615.6	2717.2	2829.9	2958.1	3091.8	3190.2	3268.6	3331.6	3362.5	3360.3
17.5°	2641.0	2698.4	2826.6	2996.8	3180.2	3355.9	3470.8	3528.3	3593.5	3623.3	3622.2
20°	2707.3	2778.0	2961.4	3208.9	3453.1	3639.9	3732.7	3748.2	3752.6	3755.9	3764.8
22.5°	2775.8	2870.8	3130.5	3476.4	3738.2	3867.5	3880.8	3814.5	3721.7	3678.6	3690.7
25°	2850.9	2976.9	3351.5	3771.4	3983.6	3999.0	3897.4	3736.0	3560.3	3479.7	3491.8
27.5°	2923.8	3099.5	3616.7	4053.2	4160.4	4024.4	3805.6	3576.9	3364.7	3279.7	3289.6
30°	2996.8	3239.9	3909.5	4299.6	4241.0	3961.5	3660.9	3405.6	3192.4	3102.9	3112.8
32.5°	3070.8	3403.4	4246.5	4477.5	4226.7	3827.7	3480.8	3213.4	3025.5	2931.6	2943.7
35°	3154.8	3604.5	4565.9	4574.7	4130.5	3631.1	3243.2	2983.5	2820.0	2744.8	2761.4
37.5°	3264.2	3859.8	4847.7	4599.0	3962.6	3342.6	2948.2	2711.7	2576.9	2542.6	2566.9
40°	3400.1	4167.0	5063.1	4560.4	3713.9	2992.4	2625.5	2436.5	2360.3	2368.0	2394.6
42.5°	3576.9	4510.6	5214.5	4460.9	3368.1	2631.0	2342.6	2258.6	2295.1	2326.0	2354.8
45°	3806.8	4867.6	5308.5	4291.8	2976.9	2324.9	2175.8	2195.6	2223.3	2226.6	2248.7
47.5°	4100.7	5228.9	5370.3	4036.6	2578.0	2109.5	2069.7	2074.1	2068.6	2045.4	2063.0
50°	4467.5	5580.3	5425.6	3698.5	2238.7	1974.6	1921.6	1906.1	1829.9	1754.8	1764.7
52.5°	4885.2	5902.9	5448.8	3278.6	1974.6	1861.9	1775.7	1678.5	1536.0	1512.8	1520.5
55°	5349.3	6201.3	5389.1	2762.5	1752.5	1717.2	1586.8	1469.7	1454.2	1434.3	1437.6
57.5°	5904.1	6522.9	5267.6	2186.8	1524.9	1548.1	1421.0	1434.3	1406.7	1375.7	1370.2
60°	6510.7	6855.5	5054.3	1661.9	1289.5	1337.1	1377.9	1376.8	1369.1	1343.7	1334.8
62.5°	7056.6	7074.3	4634.4	1273.0	1082.9	1173.5	1285.1	1284.0	1277.4	1263.0	1257.5
65°	7381.4	7041.1	3933.8	1002.2	912.7	1038.7	1159.2	1168.0	1169.1	1168.0	1168.0
67.5°	7324.0	6653.2	2972.5	797.8	772.4	901.7	1034.3	1046.4	1055.3	1057.5	1059.7
70°	6674.2	5801.3	1938.2	636.5	647.5	781.2	916.1	928.2	935.9	944.8	949.2
72.5°	5202.4	4265.3	1109.4	514.9	538.1	677.4	798.9	813.3	817.7	834.3	840.9
75°	3170.3	2508.4	598.9	405.5	442.0	579.0	682.9	699.5	707.2	727.1	729.3
77.5°	1507.2	1086.2	341.4	316.0	355.8	472.9	576.8	595.6	574.6	585.7	576.8
80°	509.4	403.3	215.5	240.9	271.8	369.1	461.9	480.7	436.5	434.3	429.8
82.5°	177.9	163.5	137.0	160.2	175.7	264.1	349.2	373.5	324.9	323.8	308.3
85°	69.6	66.3	76.2	87.3	105.0	162.4	229.8	242.0	200.0	161.3	159.1
87.5°	14.4	15.5	18.8	19.9	32.0	56.4	82.9	101.7	80.7	68.5	63.0
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)