

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: P941092

Luminaire Tested: **GALN-SB4C-722-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941092
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-SB4C-722-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2200K, 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: 24578 lumens
Efficiency: N/A
Efficacy: 122.5 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): 200.7
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



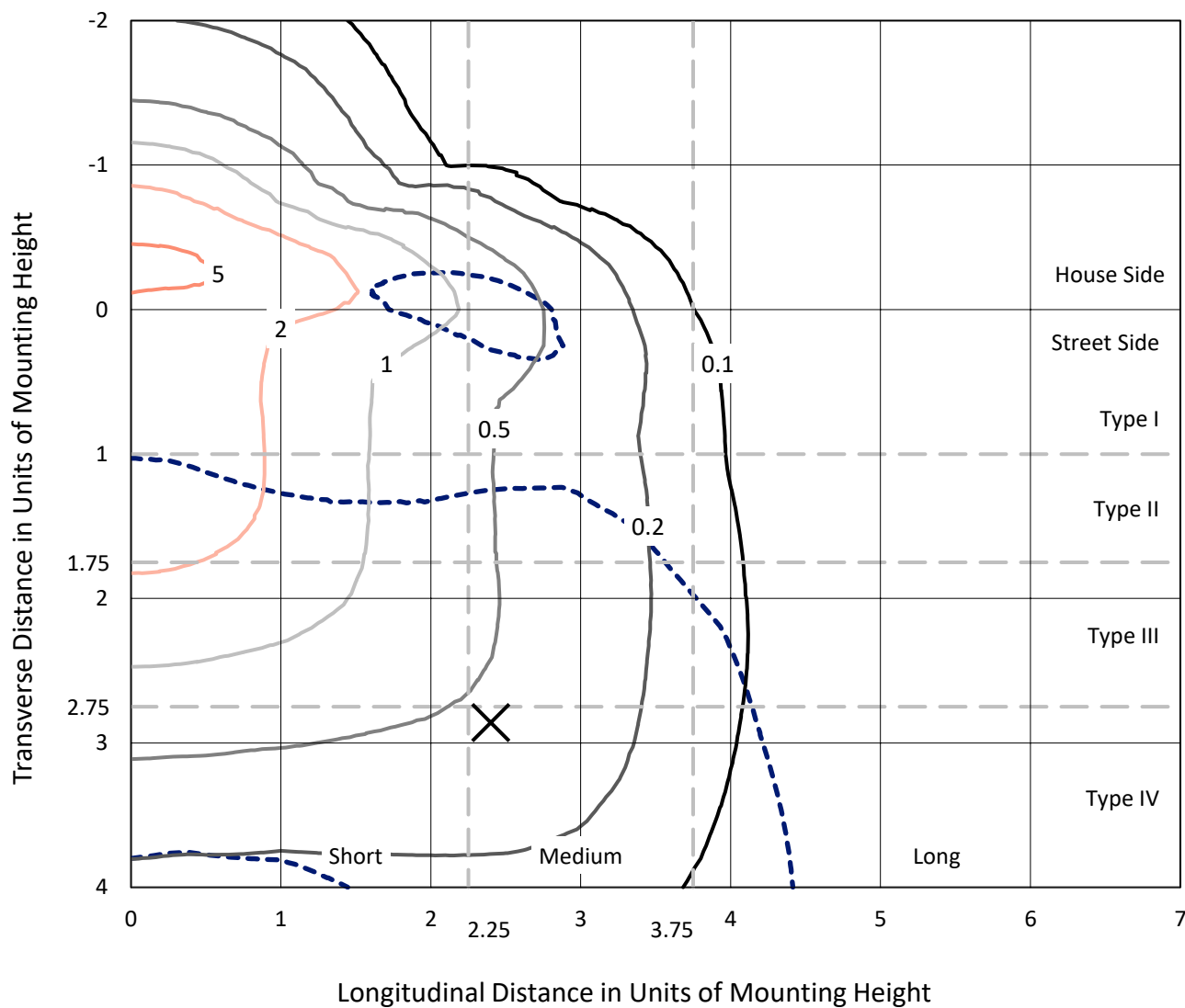
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

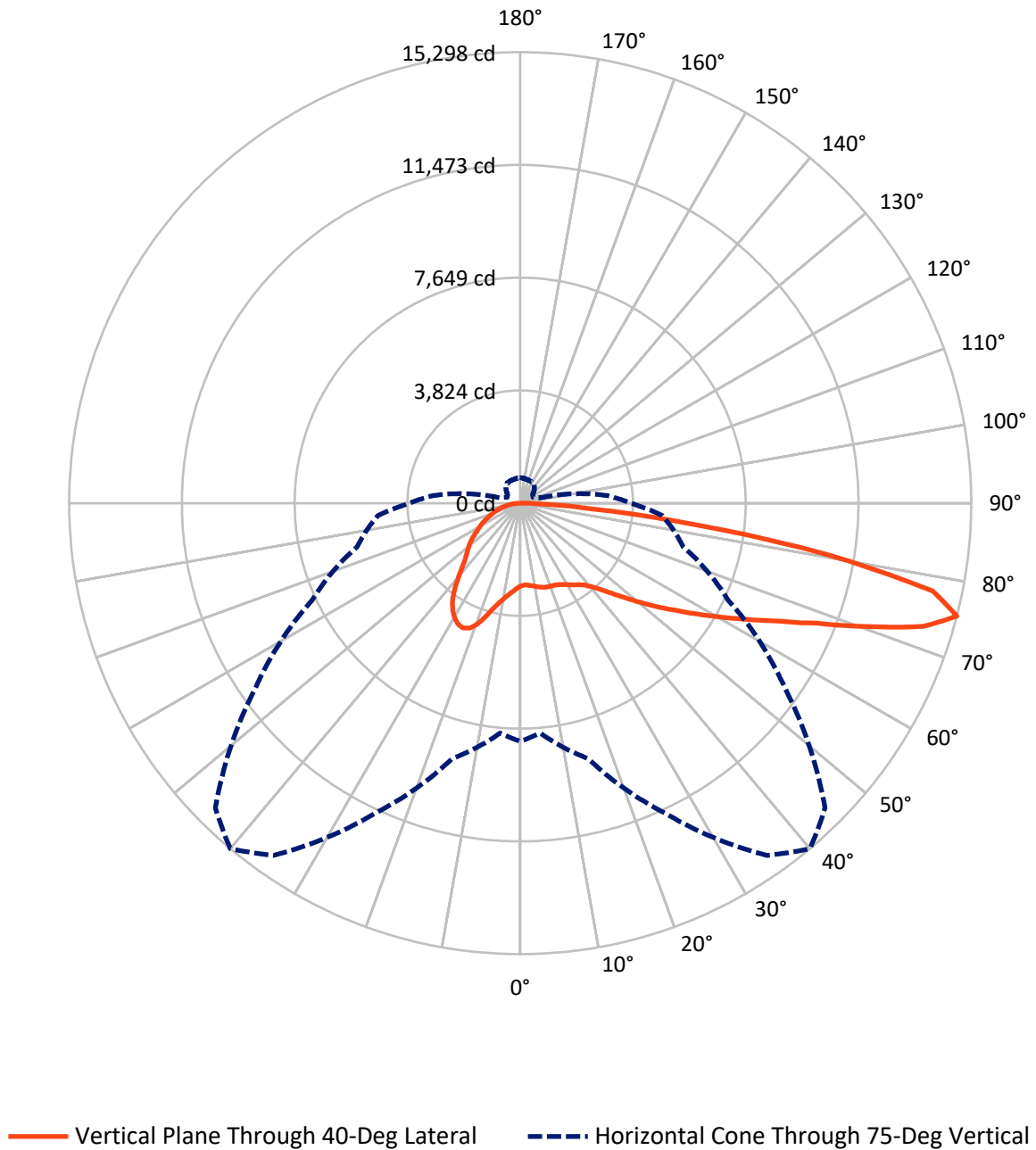
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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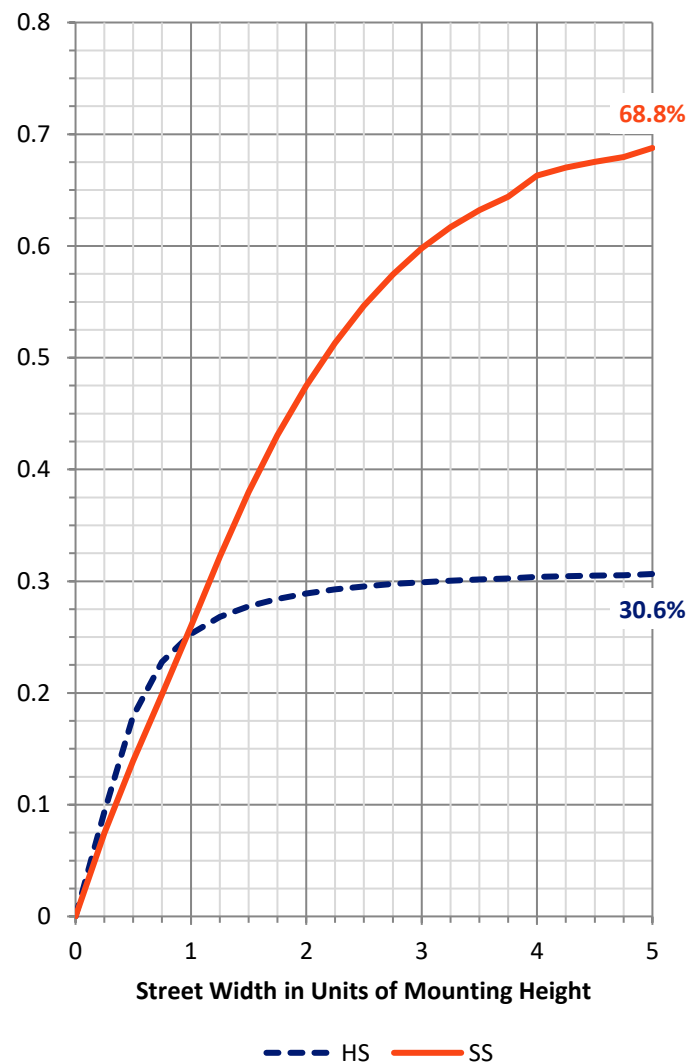
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7615.1	0.0	7615.1
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	16962.9	0.0	16962.9
	% Fixture	69.0	0.0	69.0
Total	Lumens	24578.0	0.0	24578.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.5	1.1
10°-20°	941.9	3.8
20°-30°	1719.9	7.0
30°-40°	2439.2	9.9
40°-50°	3293.7	13.4
50°-60°	4430.9	18.0
60°-70°	5623.8	22.9
70°-80°	5104.0	20.8
80°-90°	744.0	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°	24578.0	100.0
0°-180°	24578.0	100.0

Coefficient of Utilization



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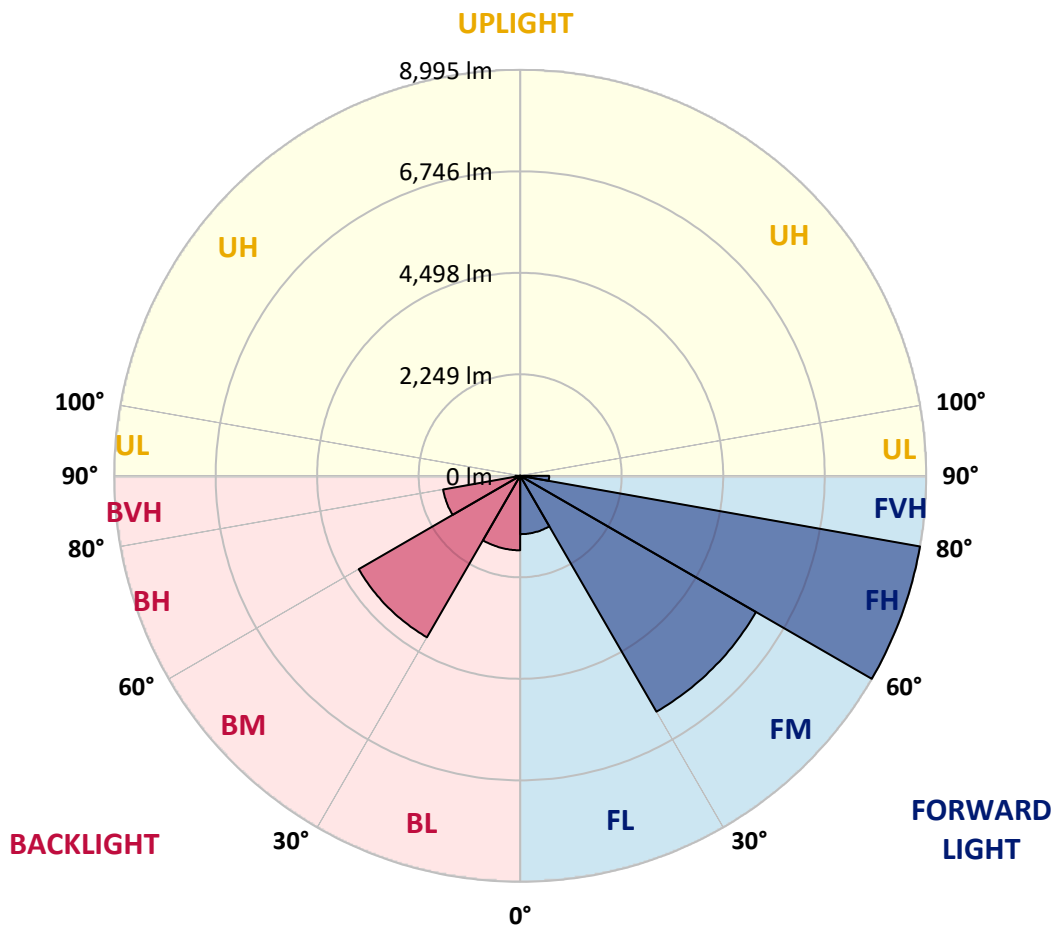
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1292.8	5.3			
FM	(30°-60°)	6033.3	24.5			
FH	(60°-80°)	8995.2	36.6			G4/12000
FVH	(80°-90°)	641.6	2.6			G4/750
BL	(0°-30°)	1649.5	6.7	B3/2500		
BM	(30°-60°)	4130.5	16.8	B3/5000		
BH	(60°-80°)	1732.7	7.0	B3/2500		G3/2500
BVH	(80°-90°)	102.4	0.4			G2/225
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°	2810.5	2810.5	2810.5	2810.5	2810.5	2810.5	2810.5	2810.5	2810.5	2810.5	2810.5
2.5°	2767.5	2783.2	2779.2	2774.0	2774.0	2775.3	2774.0	2783.2	2792.3	2801.4	2815.7
5°	2796.2	2811.8	2804.0	2797.5	2792.3	2791.0	2787.1	2785.8	2791.0	2802.7	2822.3
7.5°	2852.2	2867.9	2856.2	2844.4	2834.0	2828.8	2823.6	2815.7	2811.8	2818.3	2845.7
10°	2914.8	2930.5	2916.1	2895.3	2878.3	2871.8	2866.6	2858.8	2853.5	2857.5	2887.4
12.5°	2977.4	2993.0	2973.5	2944.8	2922.6	2918.7	2912.2	2909.6	2908.3	2907.0	2937.0
15°	3036.0	3049.1	3024.3	2990.4	2967.0	2960.4	2953.9	2957.8	2964.3	2972.2	3006.1
17.5°	3081.7	3094.7	3058.2	3013.9	2991.7	2989.1	2985.2	2998.2	3016.5	3036.0	3077.8
20°	3123.4	3136.4	3089.5	3029.5	3003.5	3003.5	3004.8	3032.1	3058.2	3086.9	3144.2
22.5°	3182.0	3192.5	3135.1	3053.0	3015.2	3017.8	3028.2	3055.6	3088.2	3127.3	3206.8
25°	3269.4	3277.2	3206.8	3097.3	3054.3	3062.1	3071.2	3084.3	3115.6	3161.2	3268.1
27.5°	3410.2	3416.7	3324.1	3175.5	3110.4	3123.4	3136.4	3127.3	3141.6	3180.7	3317.6
30°	3608.3	3612.2	3494.9	3298.1	3205.5	3212.0	3214.6	3176.8	3149.5	3180.7	3352.8
32.5°	3843.0	3841.7	3702.2	3446.7	3313.7	3307.2	3285.0	3210.7	3146.9	3174.2	3384.1
35°	4206.7	4192.3	4012.4	3655.2	3436.2	3395.8	3343.7	3248.5	3159.9	3167.7	3411.5
37.5°	4808.9	4764.6	4515.6	3996.8	3618.7	3515.8	3438.9	3309.8	3188.6	3165.1	3444.1
40°	5488.1	5432.0	5158.3	4464.8	3892.5	3726.9	3603.1	3397.1	3235.5	3176.8	3492.3
42.5°	6293.7	6214.2	5919.6	5016.2	4239.3	3999.4	3813.0	3507.9	3304.6	3214.6	3557.5
45°	7283.1	7177.5	6760.4	5638.0	4676.0	4356.6	4107.6	3676.1	3410.2	3287.6	3655.2
47.5°	8283.0	8309.0	7715.9	6349.8	5200.0	4797.2	4476.5	3929.0	3564.0	3405.0	3813.0
50°	9345.4	9363.6	8666.2	7138.4	5794.4	5295.2	4891.0	4211.9	3777.8	3571.8	4048.9
52.5°	10174.5	10177.1	9529.2	7963.6	6413.6	5842.7	5338.2	4535.2	4025.5	3793.4	4363.1
55°	10693.3	10686.8	10134.1	8744.4	7125.4	6417.5	5833.5	4902.8	4327.9	4054.1	4758.1
57.5°	11070.0	11050.5	10551.2	9415.8	7884.1	7096.7	6394.1	5319.9	4685.1	4364.4	5278.2
60°	11213.4	11201.7	10834.1	9995.9	8681.9	7847.6	7040.7	5786.6	5090.5	4730.7	5947.0
62.5°	11268.2	11290.3	11111.7	10557.7	9535.7	8679.3	7751.1	6344.5	5546.7	5145.2	6652.2
65°	11461.1	11501.5	11465.0	11292.9	10500.4	9653.0	8693.6	7008.1	6044.7	5589.8	7388.7
67.5°	11843.1	11883.5	11899.1	12172.9	11678.8	10866.7	9869.4	7834.5	6627.4	6051.2	7942.7
70°	11833.9	11822.2	12098.6	12872.9	13154.5	12547.0	11454.6	8851.3	7322.2	6434.5	8013.1
72.5°	10771.5	10677.7	11330.8	12865.1	14382.4	14301.6	13390.4	10162.7	7921.9	6481.4	6953.3
75°	8080.9	7830.6	8984.3	11594.1	14587.1	15297.6	14621.0	10976.2	7779.8	5726.6	4838.9
77.5°	3455.8	3204.2	4563.8	8582.8	13055.4	14300.3	13492.1	9576.1	6210.3	3786.9	2376.4
80°	904.7	903.4	1379.2	3891.2	8878.7	10560.3	9264.6	6184.2	3548.4	1353.1	655.7
82.5°	374.1	365.0	507.1	1513.5	4338.3	5926.1	4836.3	2758.4	1281.4	366.3	217.7
85°	139.5	138.2	246.4	522.7	1530.4	2444.2	1769.0	705.2	319.4	178.6	97.8
87.5°	39.1	37.8	53.4	181.2	372.8	565.8	302.4	116.0	89.9	70.4	28.7
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°	2810.5	2810.5	2810.5	2810.5	2810.5	2810.5	2810.5	2810.5	2810.5	2810.5	2810.5
2.5°	2819.7	2826.2	2837.9	2847.0	2858.8	2871.8	2890.0	2901.8	2913.5	2921.3	2916.1
5°	2831.4	2845.7	2875.7	2905.7	2940.9	2973.5	3011.3	3038.7	3060.8	3067.3	3069.9
7.5°	2857.5	2880.9	2931.8	2982.6	3038.7	3092.1	3146.9	3193.8	3231.6	3245.9	3247.2
10°	2903.1	2934.4	3006.1	3077.8	3152.1	3234.2	3304.6	3372.4	3425.8	3448.0	3449.3
12.5°	2960.4	2999.5	3093.4	3192.5	3295.5	3408.9	3500.1	3583.6	3650.0	3680.0	3680.0
15°	3034.7	3085.6	3205.5	3338.5	3489.7	3647.4	3763.4	3856.0	3930.3	3966.8	3964.2
17.5°	3115.6	3183.4	3334.6	3535.3	3751.7	3959.0	4094.6	4162.3	4239.3	4274.5	4273.1
20°	3193.8	3277.2	3493.6	3785.6	4073.7	4294.0	4403.5	4421.8	4427.0	4430.9	4441.3
22.5°	3274.6	3386.7	3693.1	4101.1	4410.0	4562.5	4578.2	4500.0	4390.5	4339.6	4354.0
25°	3363.2	3511.9	3953.8	4449.1	4699.4	4717.7	4597.7	4407.4	4200.1	4105.0	4119.3
27.5°	3449.3	3656.6	4266.6	4781.5	4908.0	4747.7	4489.5	4219.7	3969.4	3869.0	3880.8
30°	3535.3	3822.1	4612.1	5072.2	5003.2	4673.3	4318.8	4017.6	3766.1	3660.5	3672.2
32.5°	3622.7	4015.0	5009.7	5282.1	4986.2	4515.6	4106.3	3790.8	3569.2	3458.4	3472.7
35°	3721.7	4252.3	5386.4	5396.8	4872.8	4283.6	3826.0	3519.7	3326.7	3238.1	3257.7
37.5°	3850.8	4553.4	5718.8	5425.5	4674.7	3943.3	3478.0	3199.0	3040.0	2999.5	3028.2
40°	4011.1	4915.8	5973.0	5379.9	4381.3	3530.1	3097.3	2874.4	2784.5	2793.6	2824.9
42.5°	4219.7	5321.2	6151.6	5262.6	3973.3	3103.8	2763.6	2664.5	2707.5	2744.0	2777.9
45°	4490.8	5742.3	6262.4	5063.1	3511.9	2742.7	2566.8	2590.2	2622.8	2626.7	2652.8
47.5°	4837.6	6168.6	6335.4	4762.0	3041.3	2488.5	2441.6	2446.8	2440.3	2412.9	2433.8
50°	5270.4	6583.1	6400.6	4363.1	2641.1	2329.5	2266.9	2248.7	2158.7	2070.1	2081.8
52.5°	5763.1	6963.7	6428.0	3867.7	2329.5	2196.5	2094.9	1980.1	1812.0	1784.6	1793.7
55°	6310.7	7315.7	6357.6	3259.0	2067.5	2025.8	1871.9	1733.8	1715.5	1692.1	1696.0
57.5°	6965.0	7695.1	6214.2	2579.8	1798.9	1826.3	1676.4	1692.1	1659.5	1623.0	1616.4
60°	7680.7	8087.4	5962.6	1960.6	1521.3	1577.3	1625.6	1624.3	1615.1	1585.2	1574.7
62.5°	8324.7	8345.5	5467.2	1501.7	1277.5	1384.4	1516.1	1514.8	1506.9	1490.0	1483.5
65°	8707.9	8306.4	4640.8	1182.4	1076.8	1225.4	1367.5	1377.9	1379.2	1377.9	1377.9
67.5°	8640.2	7848.9	3506.6	941.2	911.2	1063.7	1220.2	1234.5	1244.9	1247.5	1250.1
70°	7873.6	6843.8	2286.5	750.9	763.9	921.6	1080.7	1095.0	1104.1	1114.6	1119.8
72.5°	6137.3	5031.8	1308.8	607.5	634.8	799.1	942.5	959.4	964.7	984.2	992.0
75°	3740.0	2959.1	706.5	478.4	521.4	683.1	805.6	825.2	834.3	857.8	860.4
77.5°	1778.1	1281.4	402.8	372.8	419.8	557.9	680.5	702.6	677.9	690.9	680.5
80°	601.0	475.8	254.2	284.2	320.7	435.4	544.9	567.1	514.9	512.3	507.1
82.5°	209.9	192.9	161.6	189.0	207.3	311.6	411.9	440.6	383.3	382.0	363.7
85°	82.1	78.2	89.9	103.0	123.8	191.6	271.1	285.5	235.9	190.3	187.7
87.5°	16.9	18.3	22.2	23.5	37.8	66.5	97.8	119.9	95.2	80.8	74.3
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)