

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: P652420

Luminaire Tested: **GALN-SA5B-840-U-T4FT**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652420  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5B-840-U-T4FT  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23912.2 lumens  
Efficiency: N/A  
Efficacy: 117.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4

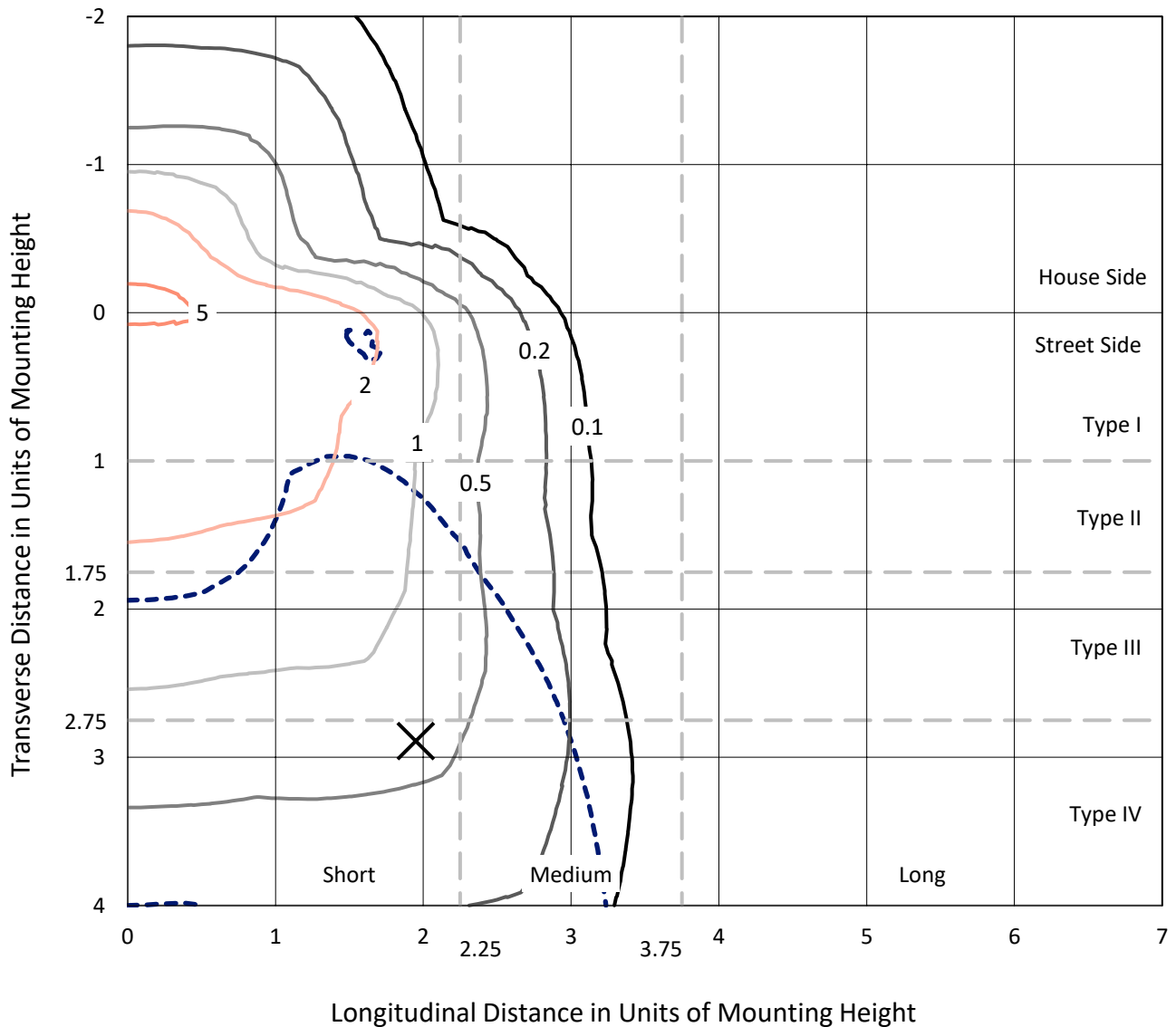
Input Watts (W): 204  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

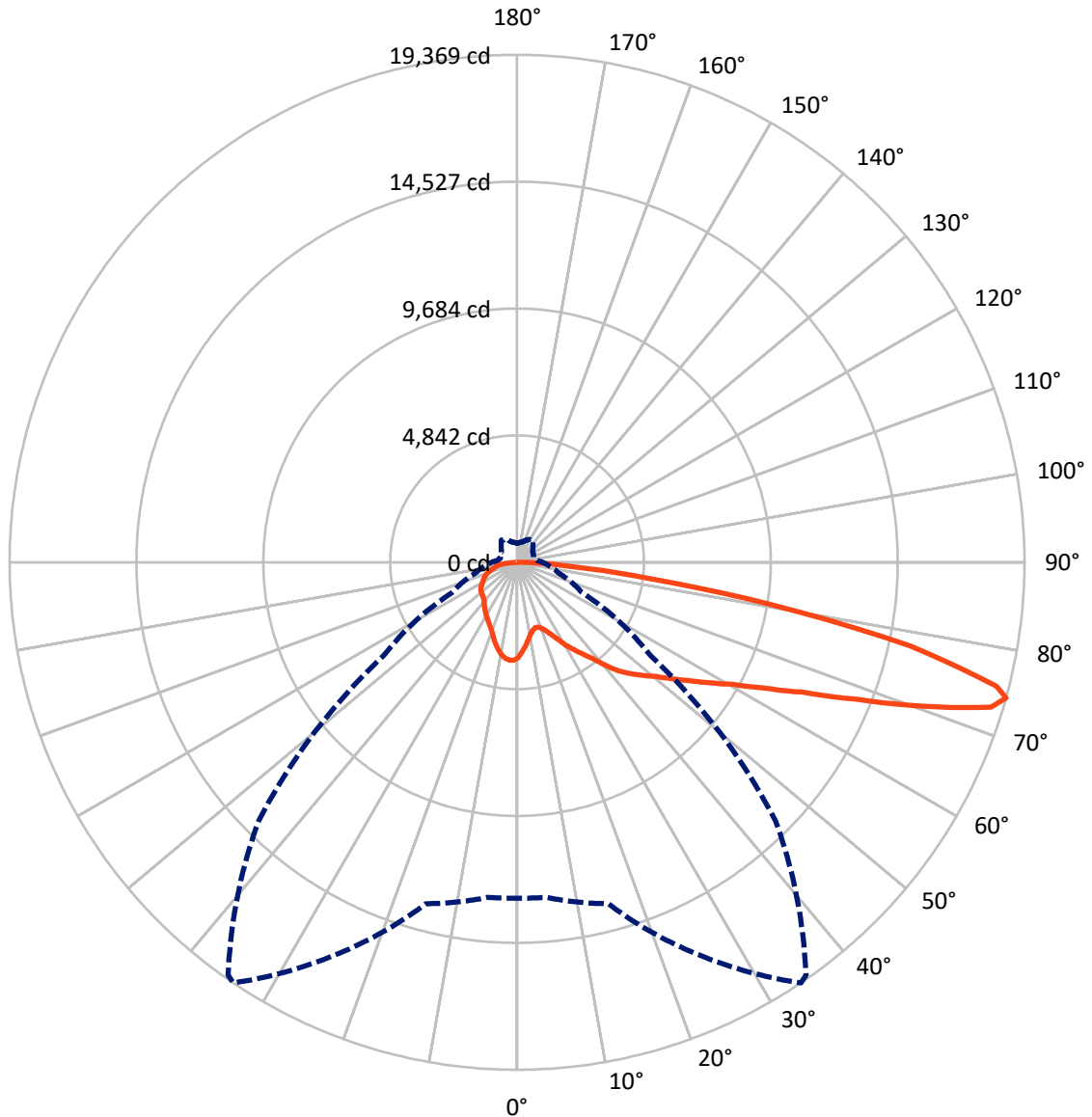
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral      - - - Horizontal Cone Through 74-Deg Vertical

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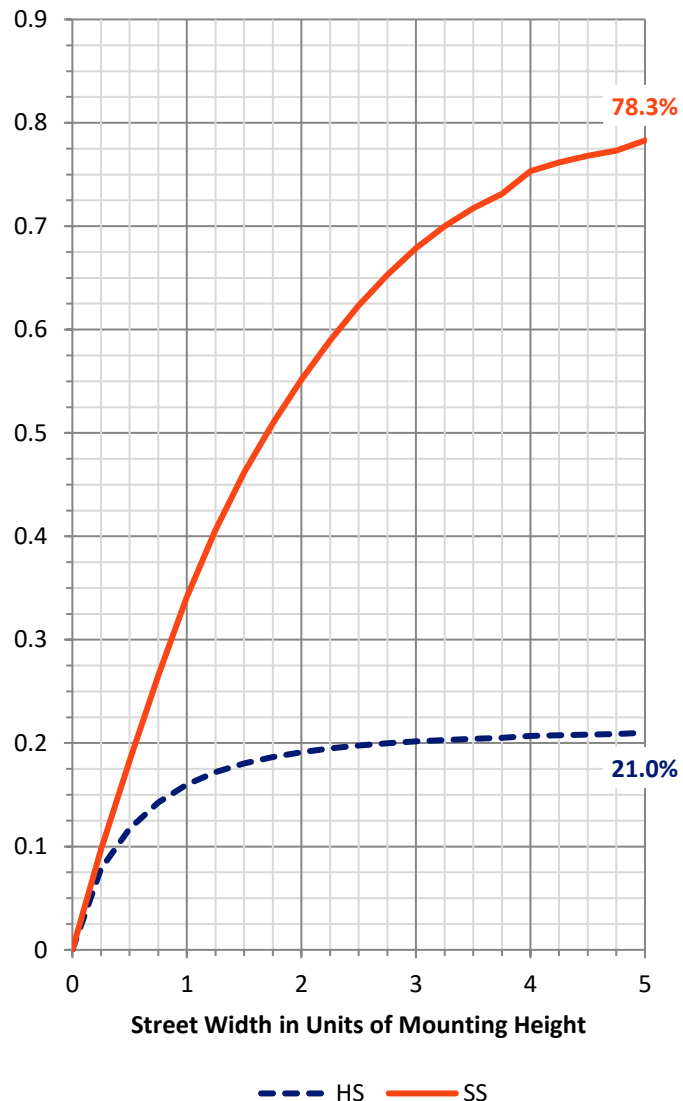
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5088.7	0.0	5088.7
	% Fixture	21.3	0.0	21.3
<b>Street Side</b>	Lumens	18823.5	0.0	18823.5
	% Fixture	78.7	0.0	78.7
<b>Total</b>	Lumens	23912.2	0.0	23912.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	332.0	1.4
10°-20°	908.9	3.8
20°-30°	1498.6	6.3
30°-40°	2244.7	9.4
40°-50°	3263.2	13.6
50°-60°	4557.9	19.1
60°-70°	5706.3	23.9
70°-80°	4718.6	19.7
80°-90°	681.8	2.9
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°	23912.2	100.0
0°-180°	23912.2	100.0

**Coefficient of Utilization**



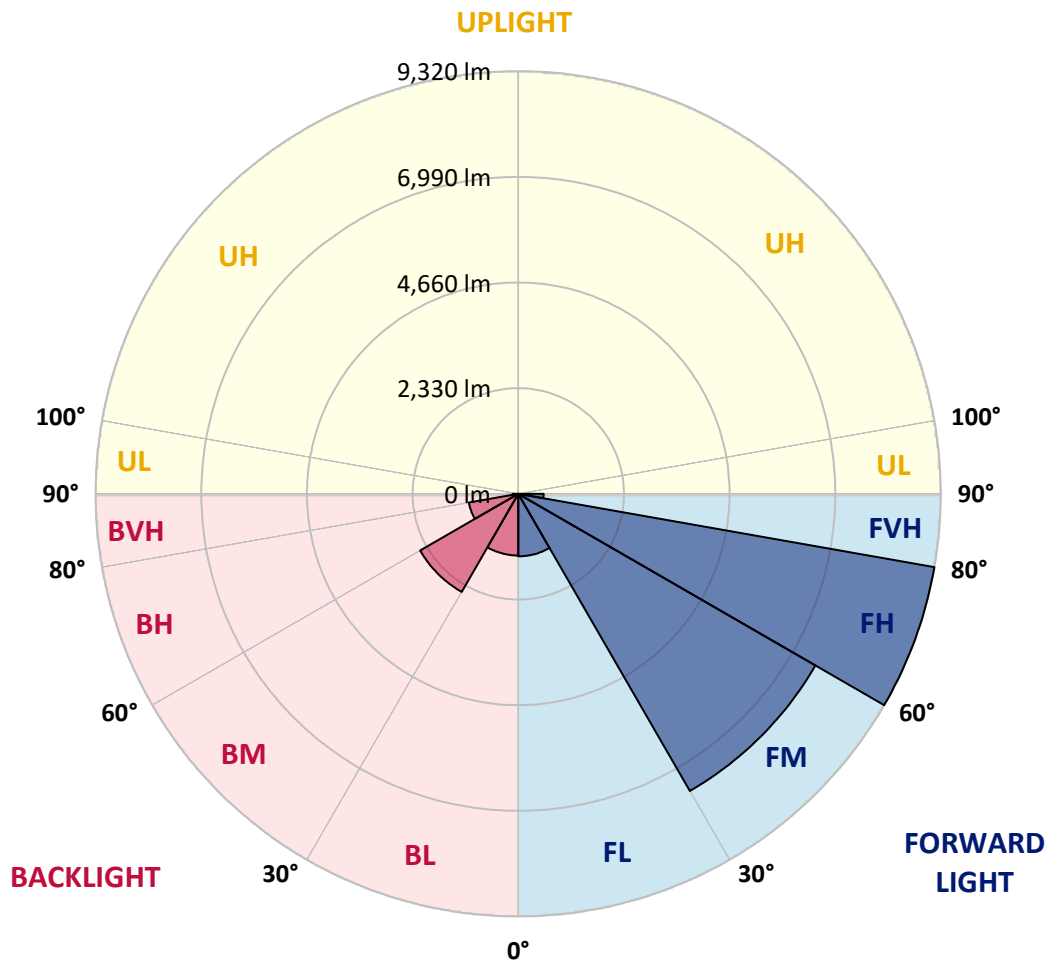
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1378.4	5.8			
FM (30°-60°)	7566.8	31.6			
FH (60°-80°)	9319.7	39.0			G4/12000
FVH (80°-90°)	558.6	2.3			G4/750
BL (0°-30°)	1361.1	5.7	B3/2500		
BM (30°-60°)	2499.1	10.5	B2/2500		
BH (60°-80°)	1105.2	4.6	B3/2500		G3/2500
BVH (80°-90°)	123.2	0.5			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 Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	3650.9	3650.9	3650.9	3650.9	3650.9	3650.9	3650.9	3650.9	3650.9	3650.9	3650.9
2.5°	3374.0	3391.2	3400.6	3433.6	3441.6	3452.2	3480.1	3517.1	3564.8	3607.2	3644.3
5°	3093.2	3119.7	3135.6	3164.8	3221.7	3227.0	3301.2	3386.0	3482.7	3572.7	3646.9
7.5°	2826.9	2856.1	2869.3	2922.3	2997.8	3009.8	3118.3	3252.1	3413.8	3550.2	3664.2
10°	2626.9	2641.5	2670.6	2710.4	2800.4	2808.4	2950.1	3128.9	3338.3	3539.6	3693.3
12.5°	2518.3	2526.2	2532.8	2575.2	2664.0	2675.9	2824.3	3027.0	3278.6	3547.6	3741.0
15°	2534.2	2536.8	2507.7	2515.6	2587.2	2604.4	2751.4	2959.4	3241.6	3567.4	3812.5
17.5°	2668.0	2658.7	2587.2	2550.1	2600.5	2608.4	2736.9	2932.9	3224.4	3604.5	3886.7
20°	2878.6	2865.4	2742.2	2660.0	2689.2	2695.8	2784.6	2952.8	3241.6	3665.5	4002.0
22.5°	3140.9	3135.6	2948.8	2849.5	2848.1	2848.1	2894.5	3024.3	3293.3	3748.9	4122.5
25°	3507.8	3480.1	3236.3	3107.7	3072.0	3069.4	3064.1	3142.2	3359.5	3837.7	4265.6
27.5°	3884.1	3836.4	3619.2	3421.8	3344.9	3335.7	3301.2	3309.2	3444.2	3938.4	4428.5
30°	4221.9	4191.4	3987.3	3768.8	3677.4	3656.2	3560.8	3517.1	3586.0	4119.9	4688.2
32.5°	4480.2	4461.7	4302.6	4104.0	3968.8	3964.9	3825.8	3790.0	3807.2	4339.7	4984.9
35°	4689.5	4696.1	4615.3	4443.1	4288.1	4265.6	4172.9	4127.8	4077.5	4657.7	5358.4
37.5°	4975.6	4990.2	4984.9	4836.5	4647.1	4652.4	4631.2	4557.0	4423.2	5012.7	5773.1
40°	5290.9	5301.5	5300.2	5243.2	5143.9	5149.2	5141.2	5056.4	4856.4	5464.5	6234.1
42.5°	5726.7	5676.4	5545.2	5602.2	5660.5	5685.7	5740.0	5659.2	5384.9	5946.6	6667.3
45°	6214.2	6118.9	5822.2	5848.7	6064.5	6112.2	6411.6	6300.4	5958.6	6500.3	7177.3
47.5°	6521.5	6427.5	6177.1	6171.8	6458.0	6504.4	7034.2	6993.2	6480.5	7097.8	7799.9
50°	6795.8	6782.5	6500.3	6568.0	6847.4	6916.3	7712.5	7674.0	7001.2	7802.5	8478.2
52.5°	7202.5	7095.2	6870.0	7009.1	7378.7	7468.8	8385.4	8272.8	7479.3	8425.2	9136.5
55°	7385.2	7360.1	7346.9	7467.4	7974.8	8039.7	9039.8	8781.6	7887.3	8952.4	9637.3
57.5°	7874.1	7827.8	7958.9	8041.1	8676.8	8776.3	9723.4	9312.7	8245.0	9371.0	9881.1
60°	8507.3	8482.2	8602.7	8751.0	9461.1	9612.1	10502.3	9765.8	8532.4	9581.7	9747.3
62.5°	9453.2	9450.5	9428.0	9745.9	10572.5	10711.6	11396.6	10207.0	8577.5	9424.0	9055.7
65°	10809.7	10761.9	10565.9	10913.0	11955.6	12118.5	12327.8	10453.3	8306.0	8614.6	7625.1
67.5°	12228.5	12225.8	12066.8	12517.2	13941.3	14109.5	13492.2	10399.0	7552.2	6978.6	5415.5
70°	13404.8	13347.8	13550.5	14750.7	16478.1	16672.8	14511.0	9759.1	6015.5	4608.7	3217.8
72.5°	13686.9	13689.6	14110.9	16472.8	18914.3	18944.7	14877.9	7909.9	4025.8	2542.1	1609.5
74°	12817.9	12840.5	13493.5	16559.0	19368.7	19230.9	13940.0	6216.9	2722.3	1659.9	1160.4
75°	11699.9	11558.1	12502.6	15985.3	18897.0	18748.7	12841.8	4988.9	2077.2	1326.0	1016.1
77.5°	6255.3	6399.7	7856.9	11929.1	15352.1	15181.2	8707.4	2392.4	1122.1	923.3	731.2
80°	2226.9	2456.1	3452.2	6242.1	9842.6	9895.6	4155.6	1096.8	789.5	680.9	516.6
82.5°	908.8	933.9	1482.3	2770.0	4998.1	5045.8	1697.0	651.8	564.3	468.9	308.6
85°	355.0	365.6	655.7	1245.3	2132.8	2271.9	586.8	344.4	347.1	269.0	157.6
87.5°	119.3	135.1	269.0	414.6	724.6	710.1	170.9	102.0	124.6	116.6	49.0
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°	3650.9	3650.9	3650.9	3650.9	3650.9	3650.9	3650.9	3650.9	3650.9	3650.9	3650.9
2.5°	3662.8	3688.0	3705.2	3723.8	3741.0	3746.3	3742.3	3754.2	3755.6	3756.9	3758.2
5°	3684.0	3718.5	3751.6	3770.1	3778.1	3771.5	3748.9	3737.0	3726.4	3718.5	3721.1
7.5°	3713.2	3762.2	3792.7	3800.6	3779.4	3748.9	3693.3	3649.6	3621.8	3603.3	3601.9
10°	3758.2	3805.9	3831.1	3808.6	3750.3	3676.1	3588.6	3506.5	3444.2	3425.7	3424.4
12.5°	3815.2	3869.5	3868.2	3801.9	3699.9	3567.4	3425.7	3330.4	3245.6	3203.2	3220.4
15°	3889.4	3930.4	3892.0	3772.8	3611.2	3429.7	3254.8	3125.0	3029.6	2984.5	2987.2
17.5°	3975.5	4011.2	3909.2	3721.1	3486.6	3253.5	3050.8	2927.6	2852.1	2819.0	2816.3
20°	4082.8	4093.4	3909.2	3631.0	3326.3	3048.2	2854.8	2768.7	2726.3	2709.0	2714.3
22.5°	4198.0	4176.8	3888.0	3503.9	3115.7	2833.6	2703.7	2665.3	2644.1	2641.5	2644.1
25°	4327.9	4268.2	3844.3	3331.6	2895.8	2648.1	2572.6	2579.2	2583.2	2583.2	2592.5
27.5°	4486.8	4367.6	3771.5	3114.4	2638.8	2475.9	2454.7	2501.0	2522.2	2526.2	2532.8
30°	4696.1	4476.2	3650.9	2842.8	2420.2	2320.9	2358.0	2420.2	2444.1	2458.7	2456.1
32.5°	4945.2	4595.4	3488.0	2571.3	2244.0	2212.3	2257.3	2320.9	2347.4	2355.3	2344.7
35°	5237.9	4730.5	3273.3	2317.0	2090.4	2109.0	2162.0	2181.8	2205.7	2205.7	2211.0
37.5°	5553.2	4839.2	3011.1	2083.7	1971.1	2038.8	2077.2	2058.6	2048.0	2034.8	2041.4
40°	5873.8	4920.0	2670.6	1853.3	1852.0	1965.8	1976.4	1923.5	1881.1	1867.9	1861.2
42.5°	6153.3	4970.3	2363.3	1674.4	1739.4	1894.4	1902.3	1817.5	1750.0	1710.2	1697.0
45°	6483.2	5028.6	2062.6	1526.1	1634.7	1837.4	1857.3	1743.3	1644.0	1560.5	1539.3
47.5°	6934.9	5161.0	1825.5	1410.9	1559.2	1801.6	1829.4	1682.4	1551.2	1442.7	1425.4
50°	7444.9	5342.5	1641.3	1332.6	1500.9	1769.8	1804.3	1620.1	1465.1	1344.6	1331.3
52.5°	7912.5	5440.6	1482.3	1262.4	1443.9	1711.5	1771.1	1575.1	1380.3	1246.5	1234.7
55°	8168.2	5281.6	1326.0	1193.5	1365.8	1636.0	1724.8	1512.8	1298.3	1194.9	1177.7
57.5°	8202.6	4953.1	1184.3	1119.4	1283.6	1543.3	1638.7	1437.4	1245.3	1159.2	1144.5
60°	7936.3	4462.9	1074.4	1058.5	1200.2	1438.6	1542.0	1371.1	1190.9	1119.4	1104.8
62.5°	7274.0	3930.4	997.5	1002.8	1115.4	1328.7	1470.4	1307.5	1139.2	1075.6	1062.4
65°	6134.8	3244.2	923.3	945.9	1039.9	1242.6	1405.6	1254.5	1087.6	1042.6	1030.6
67.5°	4261.6	2342.1	862.4	886.2	968.3	1155.1	1330.0	1197.5	1029.3	1005.5	986.9
70°	2359.3	1441.3	790.9	818.7	894.2	1057.1	1245.3	1111.5	944.5	933.9	907.4
72.5°	1240.0	918.0	710.1	740.5	793.5	931.2	1115.4	1017.4	861.1	816.0	781.5
74°	968.3	752.4	655.7	687.5	723.3	857.1	1038.6	949.8	801.5	748.5	722.0
75°	843.9	670.3	609.4	650.4	682.2	806.8	978.9	902.1	768.3	718.0	694.2
77.5°	596.1	502.1	498.1	547.1	564.3	707.4	882.3	821.3	684.9	631.9	609.4
80°	418.6	376.2	394.8	425.2	449.1	625.3	818.7	710.1	561.7	499.4	491.5
82.5°	272.9	246.4	282.2	310.0	317.9	461.0	661.0	539.2	409.3	332.5	308.6
85°	125.8	123.2	161.6	157.6	156.3	225.2	392.1	315.3	235.8	176.2	165.6
87.5°	31.8	30.4	39.8	33.1	39.8	34.5	35.7	9.3	1.3	0.0	0.0
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)