

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: P652495

Luminaire Tested: **GALN-SA7B-840-U-SL2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652495  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7B-840-U-SL2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28250.9 lumens  
Efficiency: N/A  
Efficacy: 98.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

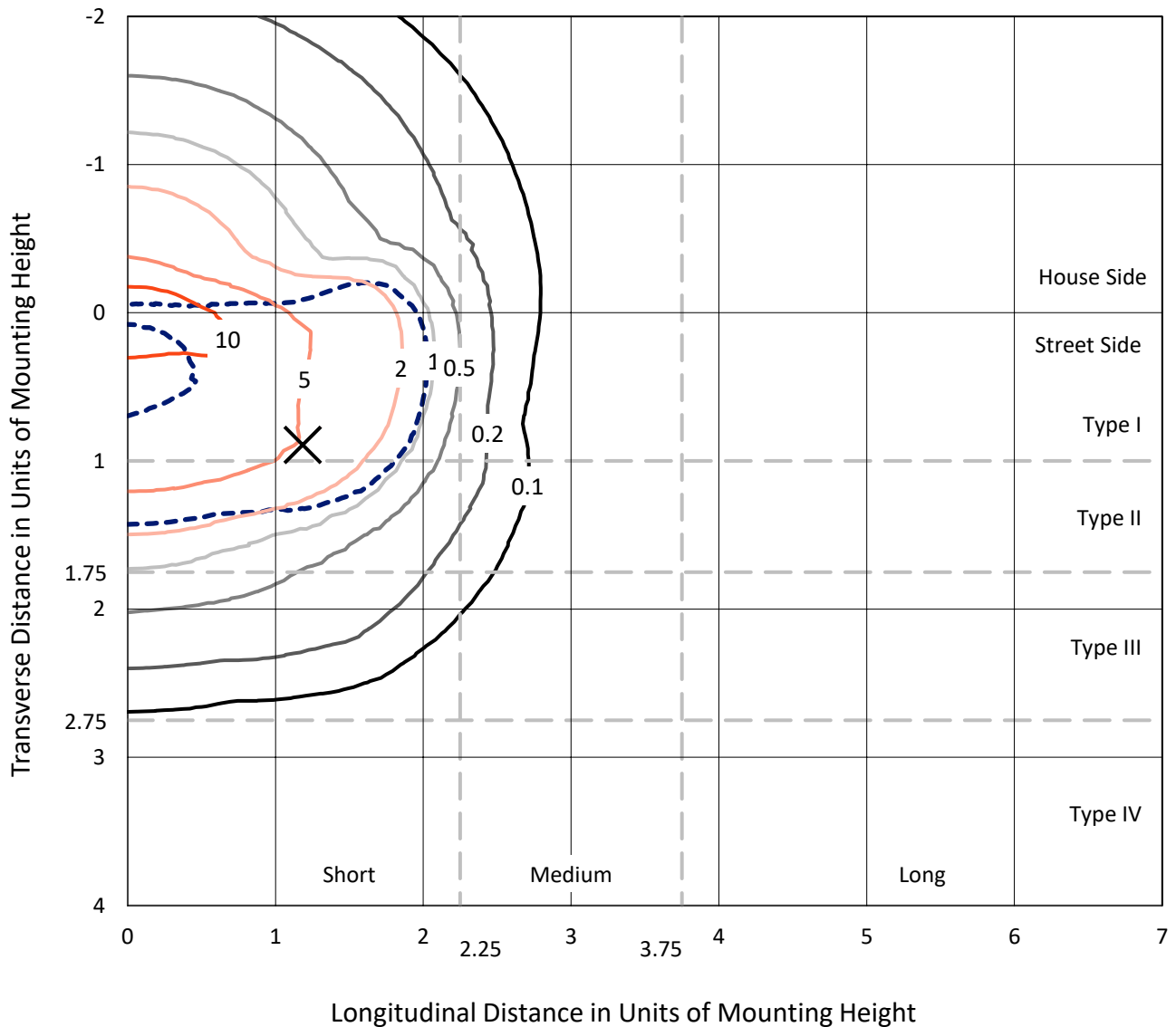
Input Watts (W): 286  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

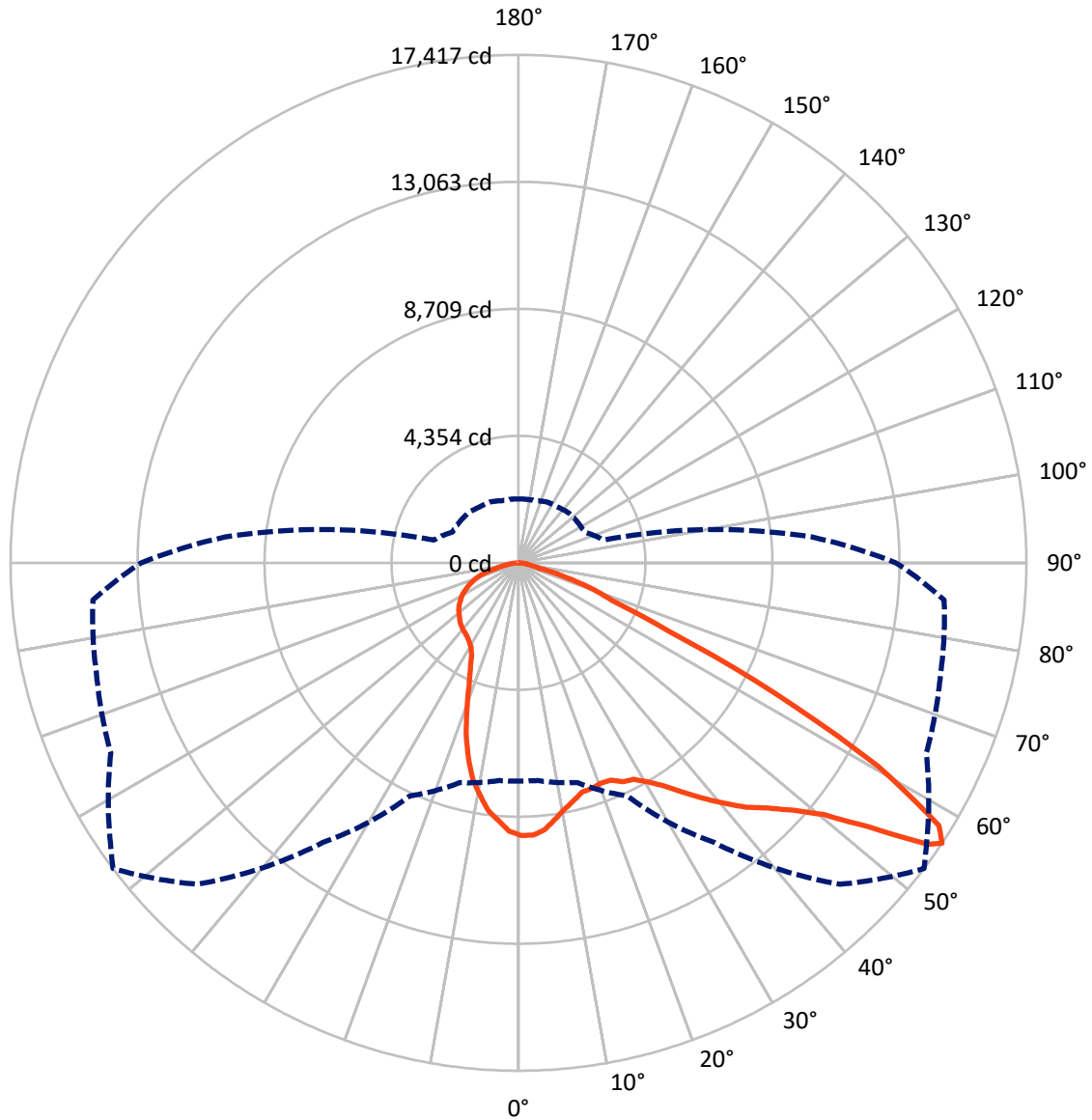
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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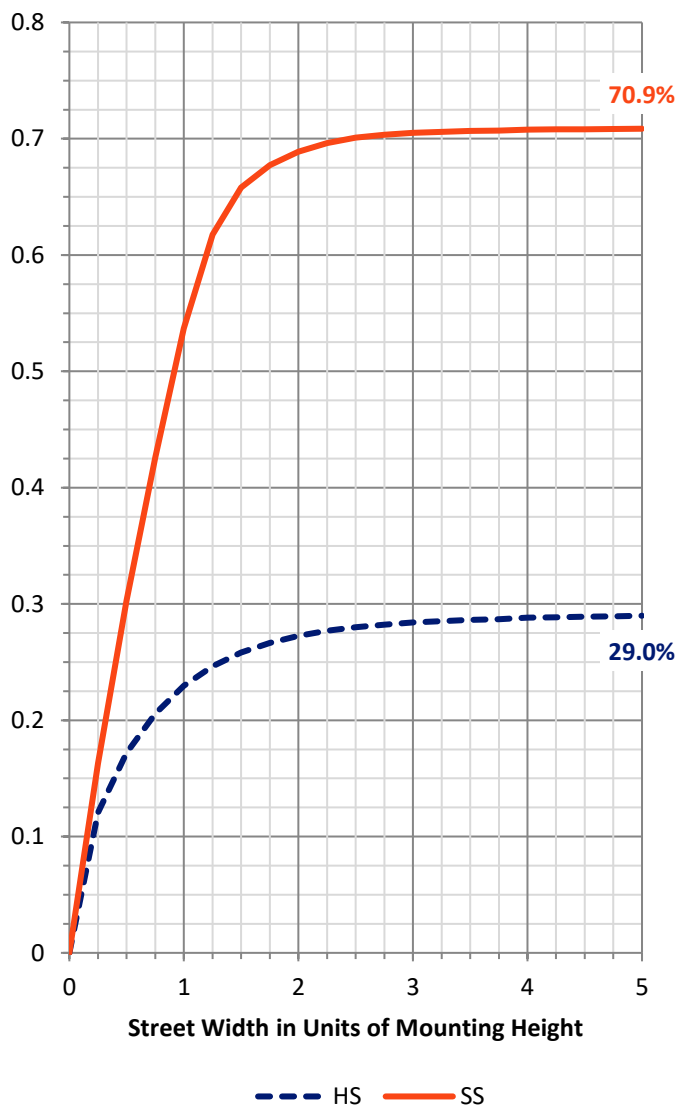
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8244.2	0.0	8244.2
	% Fixture	29.2	0.0	29.2
<b>Street Side</b>	Lumens	20006.6	0.0	20006.6
	% Fixture	70.8	0.0	70.8
<b>Total</b>	Lumens	28250.9	0.0	28250.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	827.4	2.9
10°-20°	2066.6	7.3
20°-30°	3047.3	10.8
30°-40°	4354.0	15.4
40°-50°	5992.8	21.2
50°-60°	7081.8	25.1
60°-70°	3774.1	13.4
70°-80°	957.5	3.4
80°-90°	149.3	0.5
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°	28250.9	100.0
0°-180°	28250.9	100.0

**Coefficient of Utilization**

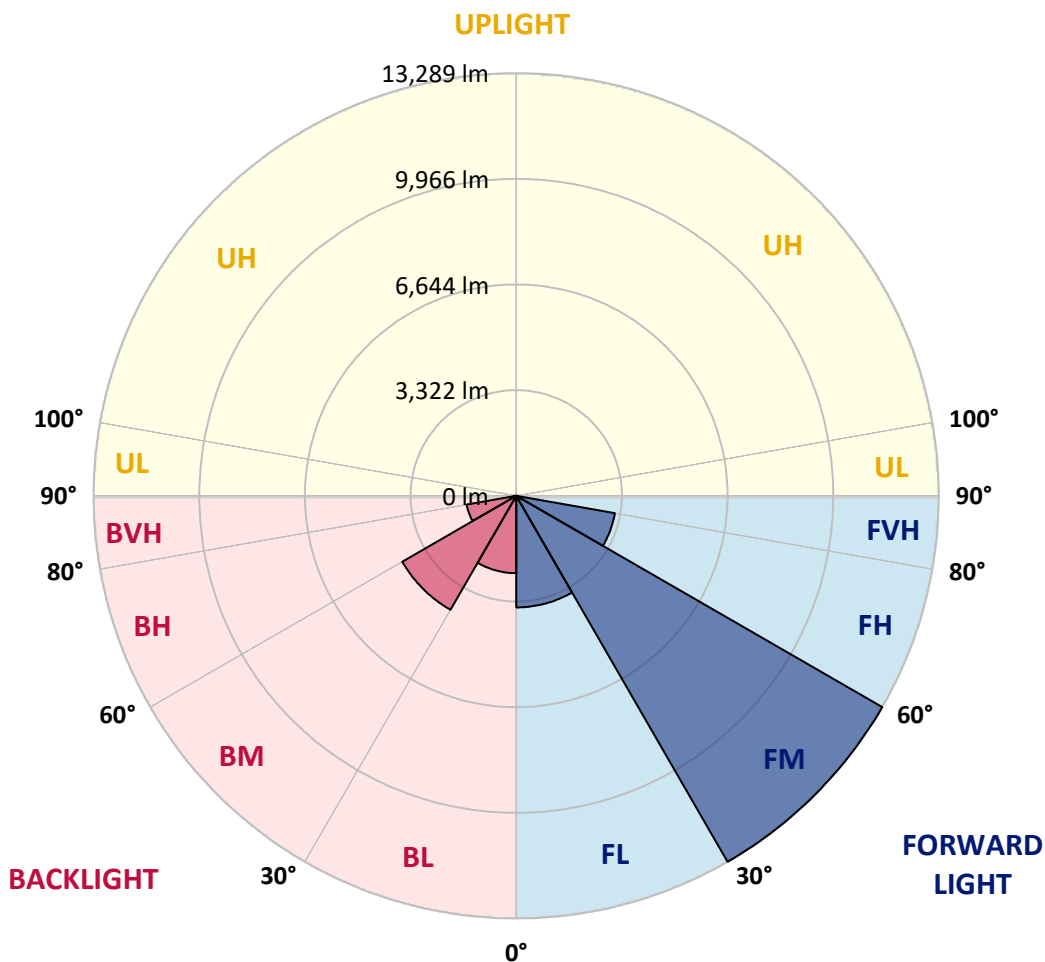


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3509.8	12.4			
FM (30°-60°)	13288.7	47.0			
FH (60°-80°)	3148.2	11.1			G2/5000
FVH (80°-90°)	60.0	0.2			G1/100
BL (0°-30°)	2431.6	8.6	B3/2500		
BM (30°-60°)	4140.0	14.7	B3/5000		
BH (60°-80°)	1583.4	5.6	B3/2500		G3/2500
BVH (80°-90°)	89.3	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	9346.5	9346.5	9346.5	9346.5	9346.5	9346.5	9346.5	9346.5	9346.5	9346.5	9346.5
2.5°	9230.6	9150.8	9197.9	9179.8	9328.4	9371.9	9350.2	9368.2	9451.6	9411.7	9328.4
5°	8625.3	8737.7	8759.4	8813.8	8900.7	9071.1	9205.2	9241.4	9281.3	9466.1	9448.0
7.5°	8074.4	8150.6	8110.7	8270.1	8458.6	8734.0	8897.1	8926.1	9292.1	9393.6	9469.7
10°	7726.5	7650.4	7831.6	7875.1	8088.9	8404.3	8600.0	8719.6	9052.9	9455.2	9502.4
12.5°	7404.0	7378.6	7487.3	7610.5	7849.7	8175.9	8375.3	8422.4	8937.0	9361.0	9582.1
15°	7164.8	7135.8	7244.5	7335.1	7614.2	7904.1	8157.8	8291.9	8810.1	9306.7	9513.2
17.5°	6976.3	6972.7	7034.4	7197.4	7483.7	7726.5	8136.1	8143.3	8744.9	9390.0	9571.2
20°	6965.5	6961.9	6972.7	7154.0	7414.8	7712.1	8067.2	8132.5	8744.9	9332.0	9574.8
22.5°	7056.1	6998.1	7063.3	7179.3	7367.7	7737.5	8092.6	8237.5	8955.1	9618.3	9737.9
25°	7201.1	7215.5	7251.8	7291.6	7400.4	7795.4	8317.2	8436.8	9201.5	9864.8	9962.6
27.5°	7465.6	7458.3	7472.9	7494.6	7588.8	7849.7	8407.9	8715.9	9716.2	10303.3	10205.4
30°	7853.3	7828.0	7886.0	7962.1	7875.1	8023.7	8708.6	8940.6	10194.5	10745.4	10477.2
32.5°	8204.9	8299.2	8407.9	8440.4	8335.4	8364.4	9107.3	9342.8	10593.2	11289.0	10810.6
35°	8643.5	8719.6	8864.5	8966.0	8947.8	8860.9	9650.9	9962.6	11169.4	11687.6	11162.2
37.5°	9071.1	9161.7	9400.9	9701.7	9534.9	9495.1	10230.8	10488.1	11347.0	11901.5	11419.4
40°	9759.6	9756.0	10169.2	10325.0	10473.6	10404.8	10832.4	10919.4	11441.2	11854.4	11426.8
42.5°	10567.8	10517.0	10937.5	11180.3	11372.3	11379.6	11459.4	11430.4	11484.7	11615.1	11350.6
45°	11336.1	11444.8	11868.9	12303.7	12495.8	12517.6	11988.5	11934.1	11560.8	11546.3	11205.7
47.5°	12274.7	12300.1	12648.1	13220.6	13666.4	13514.2	12673.4	12553.8	11894.3	12006.5	11448.4
50°	12329.1	12517.6	12829.2	13503.3	14873.3	14833.4	13561.3	13336.6	12430.6	12658.9	12126.2
52.5°	11191.2	11147.7	11517.3	12619.0	14782.6	16145.3	15032.7	14496.3	13583.1	13409.1	13224.3
55°	8527.5	8628.9	8955.1	10067.7	12836.5	16163.4	17036.8	16598.3	14815.2	14518.1	14304.2
56°	7480.1	7494.6	7802.6	8817.4	11713.0	15587.2	17417.4	17062.2	15427.7	14974.7	14648.5
57.5°	6200.8	6117.4	6276.9	6831.4	9886.5	14369.5	17000.6	17348.5	16145.3	15467.6	15014.5
60°	4881.7	4863.5	4798.2	4899.8	6247.9	10825.1	14152.0	14934.8	16072.8	15003.7	14380.3
62.5°	3986.5	3895.8	4026.4	4171.3	4341.7	6715.4	9944.5	10404.8	12760.4	11977.6	10803.4
65°	3091.3	3047.9	3210.9	3682.1	3783.6	4265.6	5664.5	6019.6	7534.4	7400.4	6516.1
67.5°	2127.3	2134.5	2275.9	2993.5	3508.1	3464.6	3468.3	3653.1	3932.1	2921.0	2544.1
70°	1348.1	1344.5	1420.6	1928.0	2823.2	2852.2	2707.2	2652.9	2515.1	1522.1	1612.7
72.5°	866.1	840.7	880.6	1065.5	1460.5	1688.8	1739.5	1772.2	1456.9	1196.0	1297.4
75°	489.2	463.9	449.3	496.5	576.3	666.8	732.1	753.8	844.4	906.0	960.4
77.5°	148.6	134.1	163.1	217.5	286.3	384.2	467.5	482.0	569.0	641.4	695.8
80°	65.3	72.5	101.5	145.0	202.9	271.8	329.8	351.5	409.5	463.9	478.4
82.5°	39.9	43.5	68.9	97.8	141.4	192.1	235.6	242.8	300.8	344.3	355.2
85°	14.5	18.1	36.2	57.9	90.6	123.2	123.2	134.1	123.2	123.2	134.1
87.5°	0.0	0.0	3.6	7.2	7.2	10.8	14.5	14.5	18.1	21.8	25.4
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°	9346.5	9346.5	9346.5	9346.5	9346.5	9346.5	9346.5	9346.5	9346.5	9346.5	9346.5
2.5°	9371.9	9353.8	9324.8	9219.6	9208.8	9176.2	8995.0	8966.0	8995.0	8908.0	8915.3
5°	9353.8	9408.1	9190.7	9085.6	8889.9	8748.5	8585.4	8502.1	8353.5	8259.3	8364.4
7.5°	9433.5	9411.7	9139.9	8911.6	8618.1	8259.3	7973.0	7809.9	7549.0	7476.5	7530.8
10°	9404.5	9288.5	8969.6	8668.8	8114.3	7799.0	7335.1	6885.8	6639.3	6512.5	6494.4
12.5°	9364.6	9332.0	8799.3	8281.0	7697.5	7034.4	6382.0	5958.0	5555.7	5381.7	5407.1
15°	9411.7	9136.3	8480.3	7824.4	7048.8	6179.1	5476.0	4928.8	4649.7	4537.4	4537.4
17.5°	9390.0	9042.1	8328.2	7313.4	6331.3	5302.0	4530.1	4200.3	4084.3	4084.3	4116.9
20°	9400.9	9103.7	8020.1	6802.4	5483.2	4464.9	3903.2	3783.6	3834.3	3852.4	3870.5
22.5°	9462.5	8900.7	7719.3	6240.6	4696.8	3819.8	3544.3	3548.0	3638.6	3736.4	3718.3
25°	9538.5	8821.0	7353.3	5682.6	4095.2	3504.4	3417.5	3406.6	3475.5	3526.2	3533.5
27.5°	9473.4	8683.3	6980.0	4986.7	3602.3	3294.3	3276.2	3283.4	3305.1	3406.6	3374.0
30°	9687.1	8723.2	6512.5	4403.2	3330.5	3225.4	3203.7	3192.8	3225.4	3254.4	3229.0
32.5°	9951.7	8581.8	6164.5	3841.5	3196.5	3174.7	3131.2	3116.7	3134.8	3105.8	3120.4
35°	10067.7	8556.4	5711.6	3439.3	3091.3	3073.2	3047.9	3044.3	3047.9	3022.5	3000.8
37.5°	10133.0	8676.0	5193.3	3254.4	3026.1	3044.3	2986.2	2979.0	2913.7	2928.3	2939.1
40°	10245.3	8491.2	4772.9	3076.9	2986.2	2950.0	2899.3	2888.4	2844.9	2819.5	2844.9
42.5°	10082.2	8436.8	4359.7	3000.8	2928.3	2888.4	2852.2	2790.5	2776.1	2754.3	2739.8
45°	9951.7	8125.2	3990.1	2906.5	2859.4	2837.6	2768.8	2703.6	2649.2	2670.9	2638.3
47.5°	10049.6	8016.5	3624.1	2826.8	2765.2	2739.8	2670.9	2620.2	2565.8	2540.5	2533.3
50°	10441.0	8219.4	3316.1	2768.8	2685.5	2670.9	2580.4	2522.3	2471.6	2453.5	2460.8
52.5°	11376.0	8773.9	3105.8	2649.2	2609.4	2544.1	2493.4	2420.9	2388.3	2330.2	2366.5
55°	12561.1	9676.3	3051.5	2536.9	2515.1	2457.1	2388.3	2333.9	2272.3	2225.2	2214.4
56°	12941.6	10107.6	3008.0	2493.4	2457.1	2424.5	2333.9	2301.3	2203.4	2192.6	2185.3
57.5°	13249.6	10488.1	3015.2	2410.1	2373.8	2344.8	2290.4	2210.7	2145.5	2105.6	2123.7
60°	12553.8	9817.7	2877.5	2283.1	2275.9	2221.6	2145.5	2109.2	2029.5	1982.4	1971.5
62.5°	9332.0	6664.7	2333.9	2120.1	2116.5	2058.5	1971.5	1931.6	1917.1	1851.9	1851.9
65°	5374.5	4178.6	2018.7	1986.0	1957.0	1899.0	1812.0	1779.4	1743.1	1721.4	1703.3
67.5°	2294.1	2167.2	1833.8	1830.2	1797.6	1725.1	1638.1	1587.4	1540.2	1496.7	1518.5
70°	1663.4	1688.8	1656.2	1638.1	1598.2	1507.6	1431.6	1369.9	1297.4	1268.4	1290.2
72.5°	1319.2	1373.5	1420.6	1424.2	1377.1	1272.0	1188.7	1105.3	1025.6	985.7	1003.9
75°	1000.3	1036.4	1083.6	1094.5	1025.6	953.1	873.4	786.4	724.9	677.7	684.9
77.5°	721.2	713.9	757.4	750.2	717.5	666.8	594.3	514.6	445.7	402.3	405.9
80°	492.9	503.8	529.2	525.5	485.6	453.0	398.6	333.5	282.7	246.4	239.2
82.5°	344.3	362.4	384.2	366.0	333.5	300.8	261.0	213.8	173.9	145.0	137.8
85°	123.2	141.4	163.1	173.9	184.9	177.6	148.6	119.6	87.0	72.5	68.9
87.5°	25.4	29.0	32.6	32.6	32.6	29.0	25.4	25.4	21.8	10.8	10.8
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)