

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: P646838

Luminaire Tested: **GALN-SA3C-835-U-SL4**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P646838  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3C-835-U-SL4  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16085.2 lumens  
Efficiency: N/A  
Efficacy: 100.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

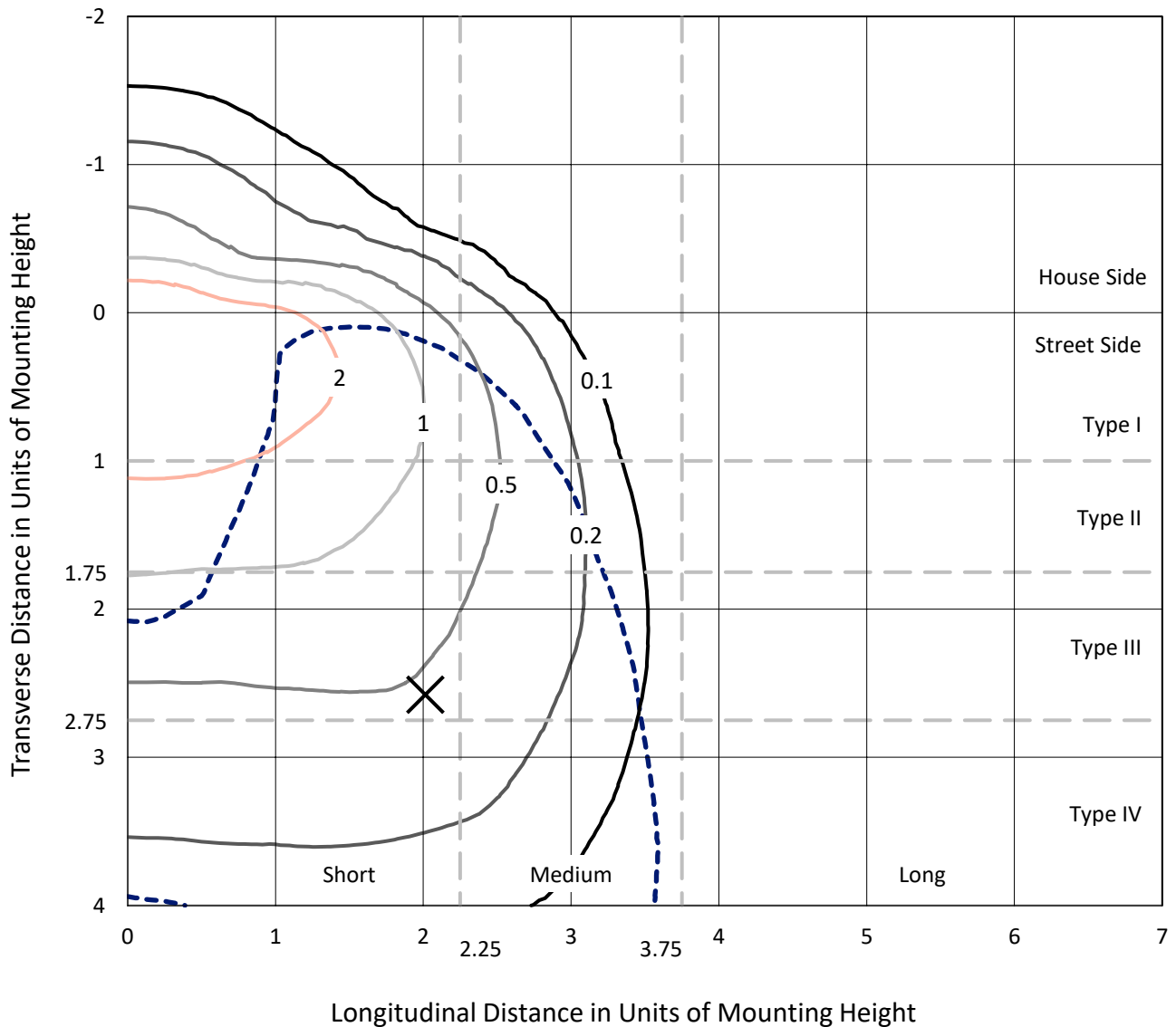
Input Watts (W): 160  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

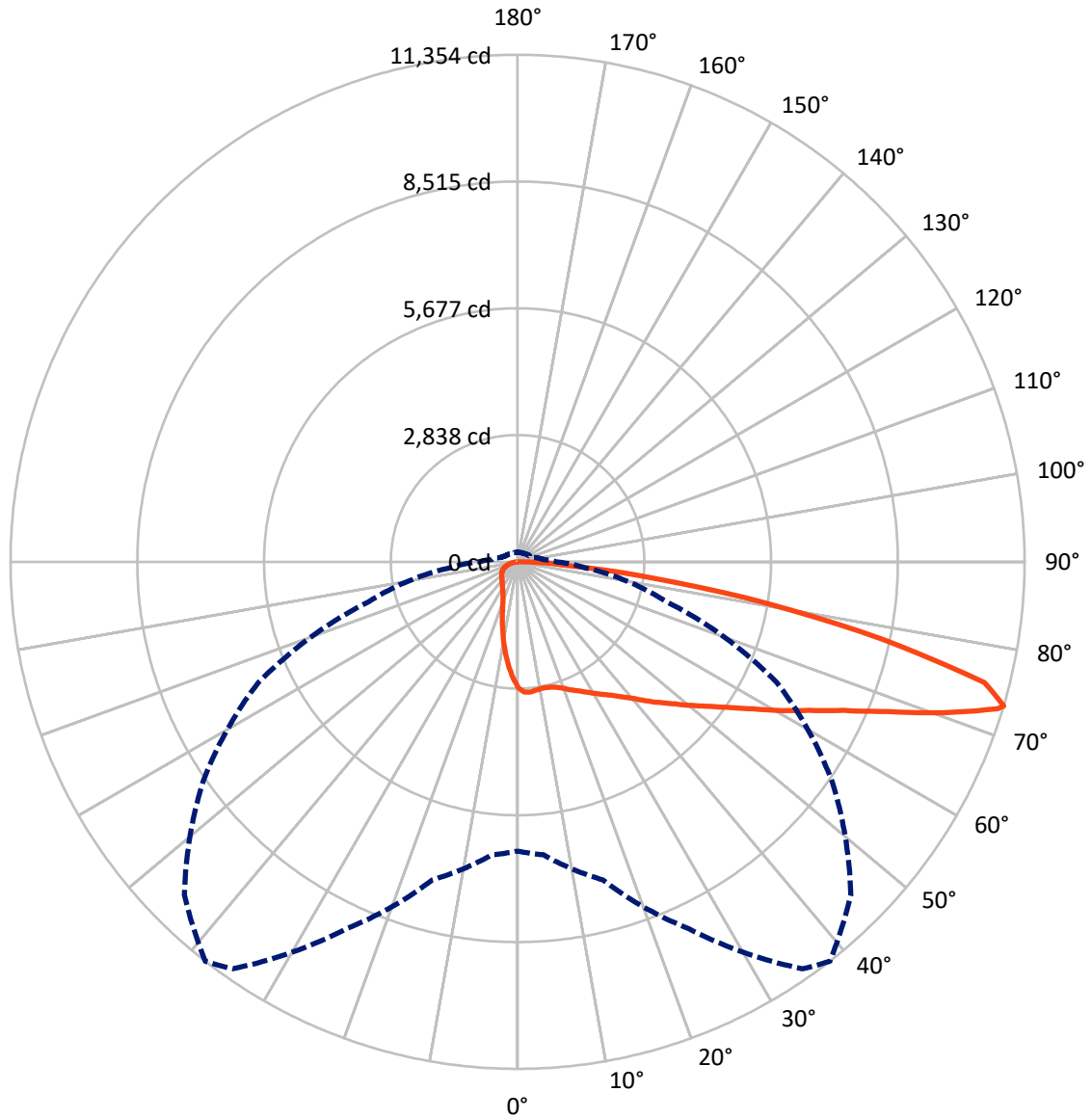
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral      - - - Horizontal Cone Through 73-Deg Vertical



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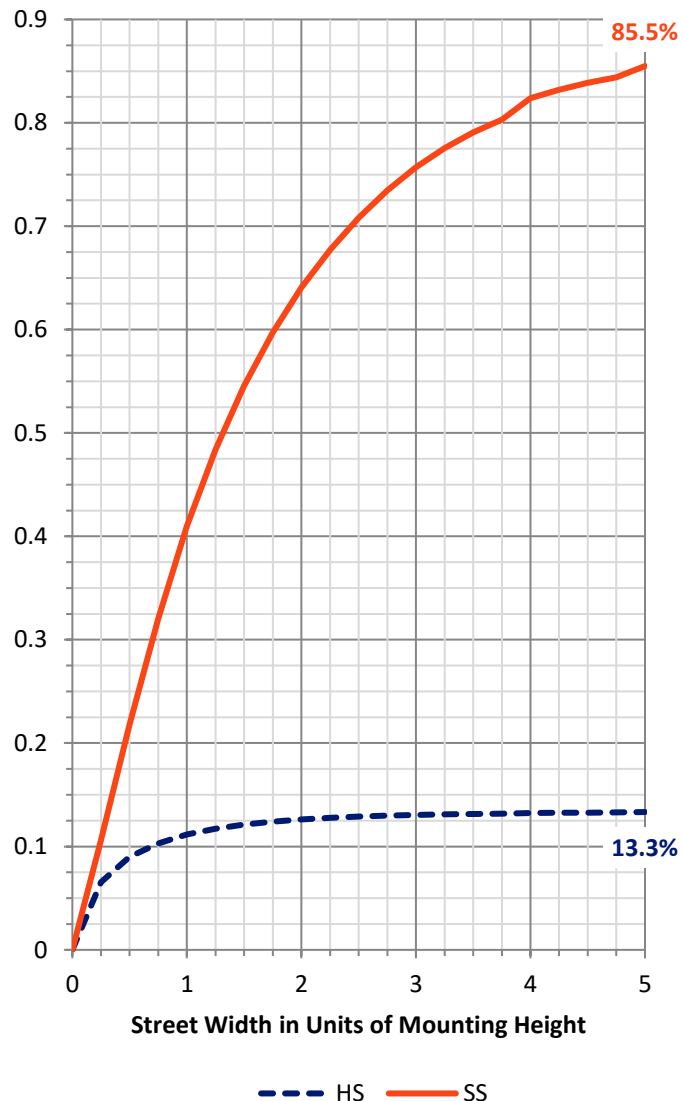
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2162.3	0.0	2162.3
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	13922.8	0.0	13922.8
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	16085.2	0.0	16085.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	246.7	1.5
10°-20°	632.5	3.9
20°-30°	985.0	6.1
30°-40°	1444.7	9.0
40°-50°	2143.1	13.3
50°-60°	3036.4	18.9
60°-70°	3851.7	23.9
70°-80°	3206.3	19.9
80°-90°	538.7	3.3
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°	16085.2	100.0
0°-180°	16085.2	100.0

**Coefficient of Utilization**



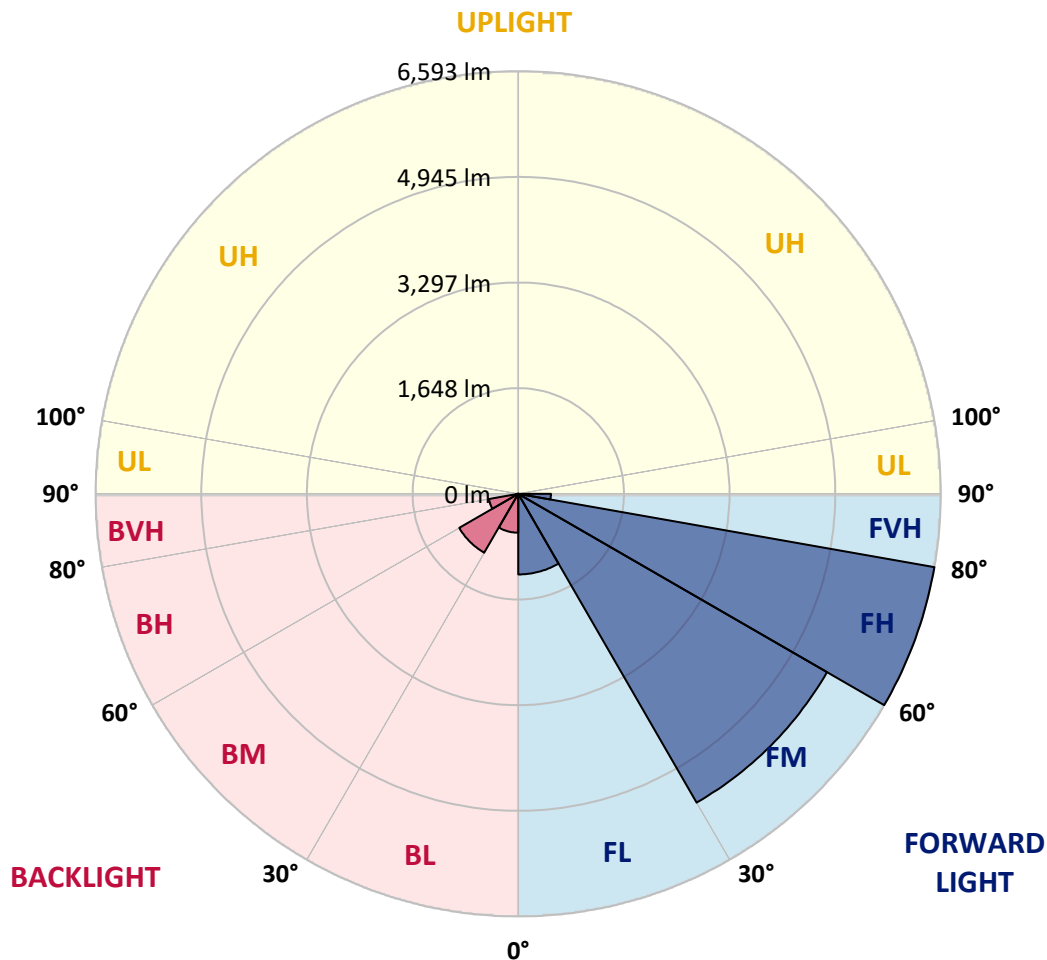
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1257.4	7.8			
FM (30°-60°)	5562.7	34.6			
FH (60°-80°)	6593.2	41.0			G3/7500
FVH (80°-90°)	509.5	3.2			G4/750
BL (0°-30°)	606.8	3.8	B2/1000		
BM (30°-60°)	1061.6	6.6	B2/2500		
BH (60°-80°)	464.8	2.9	B1/500		G1/500
BVH (80°-90°)	29.2	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	2825.9	2825.9	2825.9	2825.9	2825.9	2825.9	2825.9	2825.9	2825.9	2825.9	2825.9
2.5°	2939.5	2953.9	2946.7	2936.7	2930.4	2924.0	2914.9	2888.6	2867.7	2845.0	2809.6
5°	2961.2	2970.3	2964.0	2951.3	2936.7	2930.4	2913.1	2878.5	2845.0	2806.8	2754.1
7.5°	2948.5	2952.1	2944.9	2929.4	2916.8	2904.9	2885.0	2846.8	2805.9	2759.6	2690.5
10°	2903.1	2916.8	2916.8	2904.0	2891.3	2885.0	2864.9	2828.6	2791.4	2738.7	2657.0
12.5°	2865.9	2880.4	2892.2	2888.6	2887.6	2887.6	2872.2	2845.0	2801.3	2751.4	2654.2
15°	2840.4	2857.7	2883.1	2897.6	2906.7	2909.5	2903.1	2879.5	2835.0	2776.8	2665.1
17.5°	2835.0	2855.8	2902.2	2934.0	2957.6	2956.7	2954.9	2922.2	2873.1	2813.2	2678.7
20°	2859.5	2886.8	2951.3	3001.2	3035.7	3029.3	3019.4	2976.7	2919.4	2852.2	2691.5
22.5°	2933.0	2961.2	3032.1	3086.6	3120.2	3120.2	3090.2	3033.9	2973.1	2897.6	2708.7
25°	3038.4	3069.4	3144.8	3200.1	3215.5	3203.8	3173.8	3105.7	3035.7	2963.0	2745.0
27.5°	3167.5	3204.7	3274.6	3320.9	3316.4	3307.3	3276.5	3189.2	3119.3	3053.0	2806.8
30°	3328.2	3355.5	3428.1	3439.0	3422.6	3420.8	3377.2	3290.1	3224.6	3173.8	2894.9
32.5°	3479.9	3504.4	3562.6	3567.1	3538.1	3541.7	3500.8	3420.8	3383.7	3365.5	3043.0
35°	3640.7	3653.4	3703.4	3697.9	3678.8	3676.1	3659.7	3583.5	3595.3	3628.0	3252.8
37.5°	3775.2	3800.5	3828.7	3833.3	3832.3	3841.4	3852.4	3816.0	3884.1	3986.8	3528.0
40°	3898.6	3920.5	3962.2	3976.8	4012.2	4030.3	4067.6	4068.5	4225.7	4394.6	3866.8
42.5°	3982.3	4019.5	4097.6	4123.9	4210.2	4264.7	4320.1	4379.2	4607.2	4824.3	4266.6
45°	4054.9	4103.9	4233.8	4315.6	4432.8	4499.1	4616.3	4739.8	5067.7	5352.0	4672.6
47.5°	4164.8	4208.4	4357.4	4501.8	4679.0	4755.2	4930.6	5114.9	5543.7	5855.3	5061.4
50°	4317.4	4343.8	4495.4	4730.7	4956.9	5055.0	5286.7	5552.8	6052.4	6352.1	5402.9
52.5°	4512.7	4523.6	4644.4	4957.8	5255.7	5377.5	5684.5	5995.1	6497.5	6783.6	5673.6
55°	4743.4	4725.2	4819.8	5198.5	5597.3	5756.2	6085.9	6443.0	6998.0	7132.4	5870.7
57.5°	4971.4	4943.2	5018.6	5491.0	6018.8	6210.4	6594.7	6904.4	7444.8	7458.5	6008.7
60°	5213.1	5192.2	5282.1	5834.4	6535.6	6762.7	7117.9	7383.1	7877.2	7685.6	6030.6
62.5°	5461.0	5427.4	5555.5	6220.4	7117.9	7324.0	7668.3	7891.8	8301.4	7770.1	5820.7
65°	5701.7	5686.3	5884.3	6679.1	7781.0	8015.3	8349.6	8501.3	8641.2	7642.9	5300.3
67.5°	5957.9	5988.8	6304.9	7291.4	8645.7	8940.1	9300.6	9158.0	8738.4	7040.7	4463.6
70°	6348.5	6368.5	6857.2	8093.5	9760.3	10115.4	10289.9	9391.5	8269.7	5897.0	3355.5
72.5°	6516.5	6604.7	7350.4	8935.5	11026.5	11243.6	10622.3	8871.0	6889.0	4005.8	1763.1
73°	6479.3	6584.6	7373.1	9063.5	11125.5	11353.5	10551.5	8603.1	6403.9	3449.9	1511.5
75°	6015.2	6145.0	7077.9	8956.3	10933.0	10796.7	9412.4	7332.2	4327.4	1568.7	688.6
77.5°	4746.2	4783.4	5608.2	7232.3	8609.4	8356.9	7044.3	4582.7	1767.6	583.2	390.6
80°	2380.8	2518.0	3161.0	4143.0	5757.2	5674.5	4446.4	2167.3	736.6	342.5	258.9
82.5°	1145.5	1242.6	1539.7	2020.2	3181.1	3105.7	2201.9	1184.5	467.8	199.8	152.6
85°	737.6	810.2	980.1	963.8	1308.0	1249.0	989.2	896.5	277.0	104.5	106.3
87.5°	486.9	533.2	639.5	511.4	476.0	430.6	436.9	505.0	54.5	39.9	14.6
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°	2825.9	2825.9	2825.9	2825.9	2825.9	2825.9	2825.9	2825.9	2825.9	2825.9	2825.9
2.5°	2795.0	2783.2	2744.1	2706.0	2669.6	2635.1	2612.4	2582.5	2562.4	2567.9	2576.1
5°	2725.1	2698.7	2629.7	2562.4	2498.9	2423.5	2362.6	2313.6	2276.3	2262.7	2260.0
7.5°	2651.5	2607.0	2507.9	2392.6	2284.5	2191.0	2082.9	2029.3	1966.6	1944.8	1937.5
10°	2607.0	2547.0	2408.0	2247.3	2084.7	1929.3	1812.2	1716.8	1630.5	1614.2	1605.9
12.5°	2594.2	2515.2	2328.1	2121.0	1904.8	1714.1	1540.6	1415.2	1331.6	1312.5	1284.4
15°	2587.0	2488.9	2253.6	1993.8	1719.5	1487.0	1304.4	1158.1	1081.9	1031.0	1031.9
17.5°	2580.6	2458.9	2170.1	1854.8	1559.7	1291.7	1090.0	958.3	888.4	861.1	858.4
20°	2571.5	2423.5	2073.8	1708.6	1377.1	1113.7	931.1	833.0	785.7	763.0	762.1
22.5°	2567.9	2389.0	1979.3	1559.7	1215.4	976.5	825.7	756.7	726.7	711.3	711.3
25°	2577.0	2364.4	1880.3	1417.9	1071.8	859.3	753.0	705.8	688.6	680.3	677.6
27.5°	2605.2	2353.5	1782.2	1276.2	940.1	779.4	704.0	671.3	658.6	652.2	653.1
30°	2658.8	2352.6	1685.9	1136.4	842.0	718.5	664.9	642.2	632.2	628.6	627.7
32.5°	2745.0	2372.6	1591.4	1021.0	759.4	667.7	628.6	612.2	607.7	604.9	604.1
35°	2891.3	2428.9	1497.9	915.6	695.8	622.3	594.1	585.9	579.5	582.2	583.2
37.5°	3088.4	2526.1	1408.9	833.0	647.6	588.6	565.0	557.7	554.1	556.8	559.5
40°	3352.7	2666.0	1334.4	766.6	613.2	560.5	539.6	533.2	529.5	534.1	535.0
42.5°	3644.3	2827.7	1272.6	714.9	585.0	536.8	516.9	509.6	506.8	509.6	510.5
45°	3944.0	3015.7	1240.8	677.6	561.3	519.6	498.7	490.5	484.1	482.3	485.1
47.5°	4239.3	3179.2	1239.9	654.9	542.3	504.2	481.5	472.3	464.2	459.6	458.7
50°	4480.0	3309.1	1261.7	645.0	525.9	486.9	464.2	455.1	444.2	435.1	436.9
52.5°	4661.7	3393.6	1271.7	640.4	516.9	468.7	446.0	437.9	425.1	413.3	413.3
55°	4778.9	3413.6	1247.2	635.9	509.6	449.6	425.1	417.8	405.1	393.3	393.3
57.5°	4818.8	3351.9	1159.1	624.9	502.3	433.3	404.2	397.8	387.9	376.1	374.3
60°	4726.2	3142.9	1004.7	592.3	487.8	416.0	381.5	378.8	375.1	365.2	364.3
62.5°	4369.2	2699.6	836.6	549.6	463.2	397.8	360.6	365.2	367.9	362.5	361.5
65°	3775.2	2191.9	714.9	490.5	430.6	372.4	337.9	349.7	357.0	357.0	355.2
67.5°	3062.1	1683.2	602.2	439.7	389.7	337.9	312.5	321.6	327.0	325.2	329.7
70°	2176.4	1140.0	490.5	381.5	337.9	298.9	279.8	279.8	276.2	274.3	274.3
72.5°	1055.5	651.3	397.8	318.8	288.0	255.3	239.8	233.4	226.2	225.3	220.7
73°	882.0	584.0	379.7	307.0	276.2	248.9	231.6	221.7	217.1	213.4	212.6
75°	536.8	443.3	317.0	258.9	235.3	214.4	199.0	189.9	185.3	182.6	181.7
77.5°	353.4	330.7	246.2	198.0	179.9	167.2	160.7	151.7	149.0	145.3	145.3
80°	263.4	252.5	176.3	139.9	129.0	118.1	116.3	114.5	107.2	102.7	100.9
82.5°	169.8	179.9	119.9	93.6	81.7	72.7	73.6	76.3	69.1	62.6	60.8
85°	120.8	129.9	72.7	42.7	34.5	30.0	33.6	30.0	30.9	24.5	20.0
87.5°	20.0	34.5	12.7	5.5	2.7	1.8	0.0	0.0	0.0	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)