

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: P647435

Luminaire Tested: **GALN-SA5D-835-U-SL2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647435  
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-SA5D-835-U-SL2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 3500K, 1200mA 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: 25710.6 lumens  
Efficiency: N/A  
Efficacy: 83.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

Input Watts (W): 309  
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

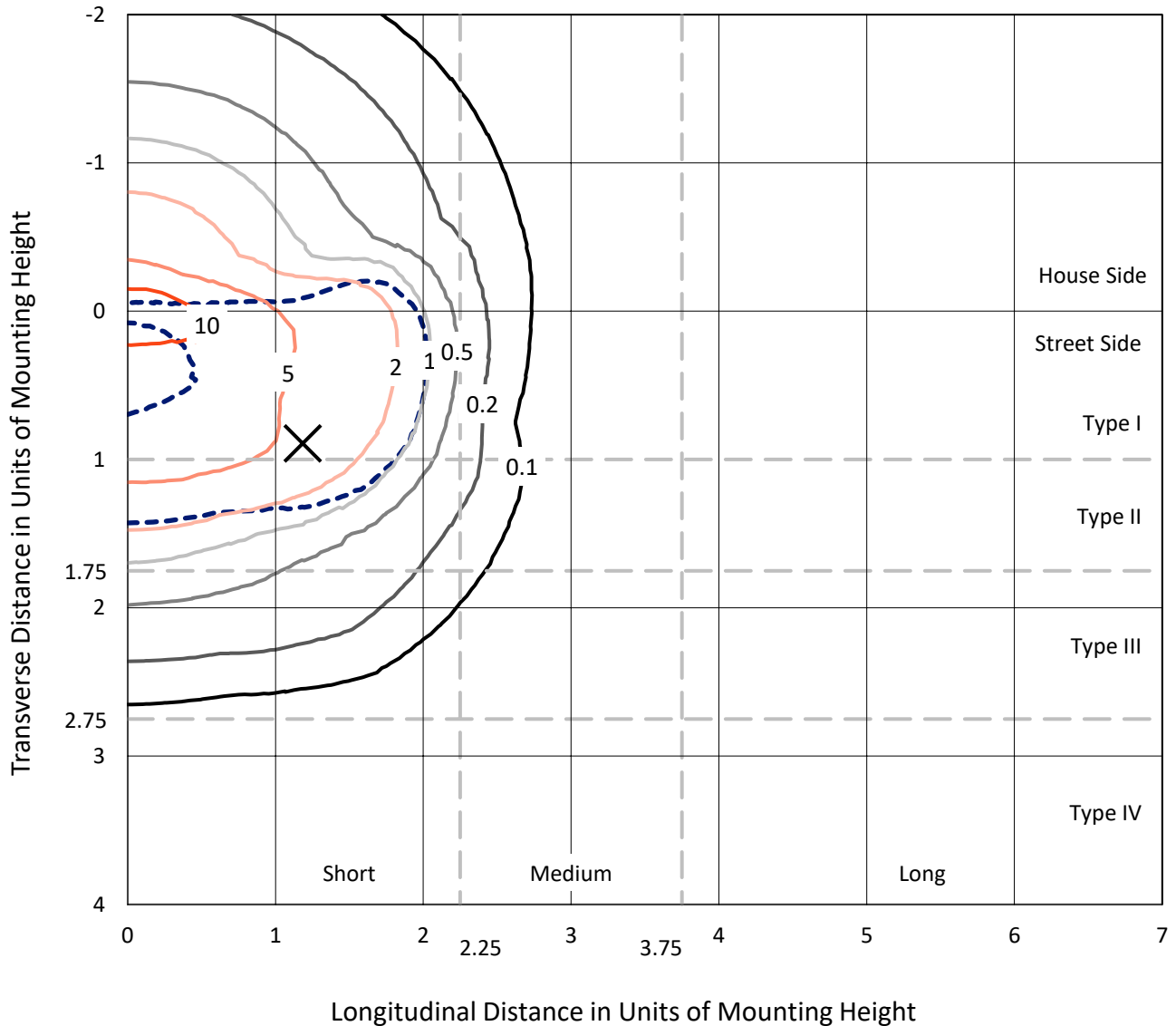




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### Iso-Footcandle Lines of Horizontal Illumination

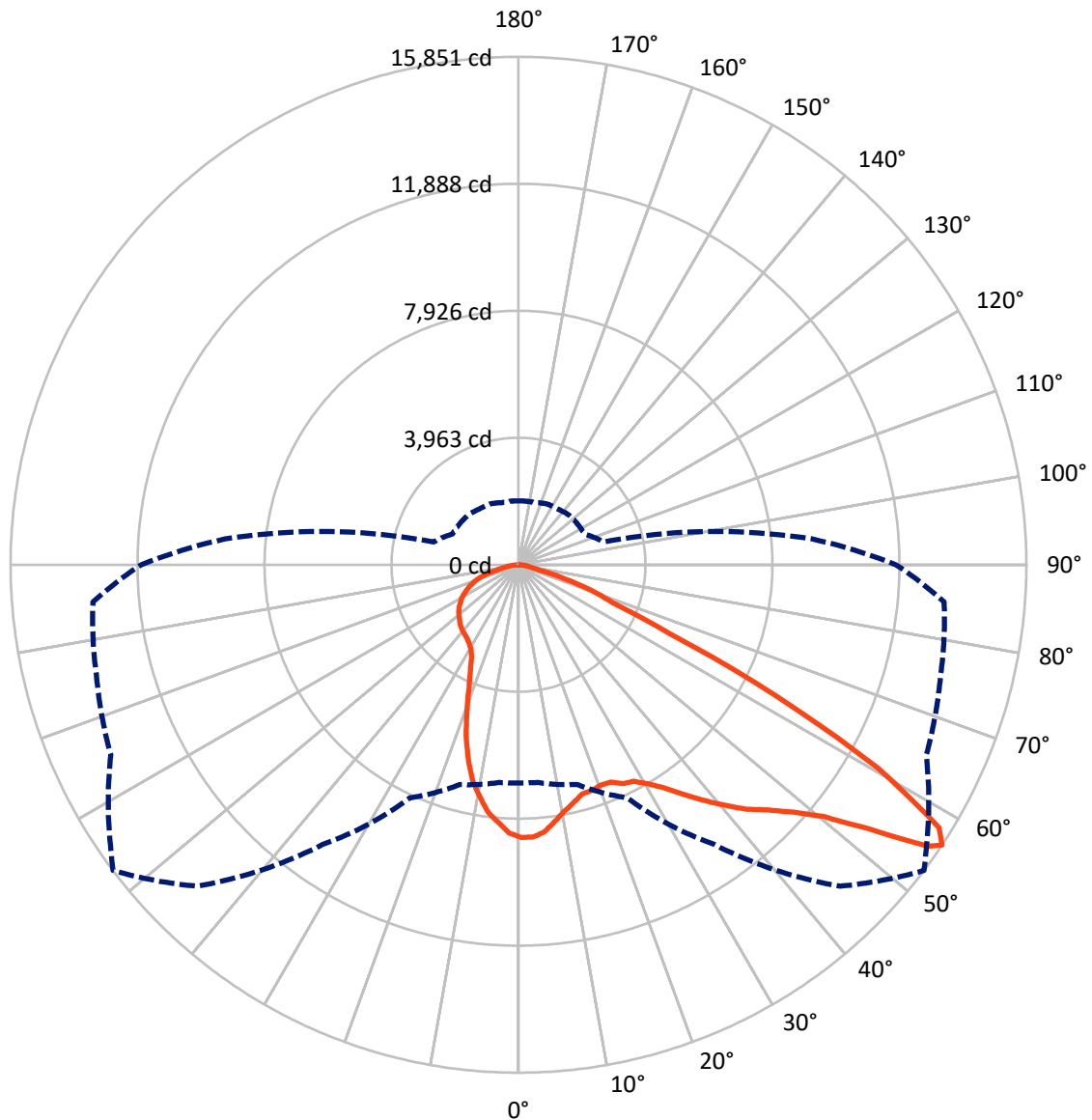
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.6 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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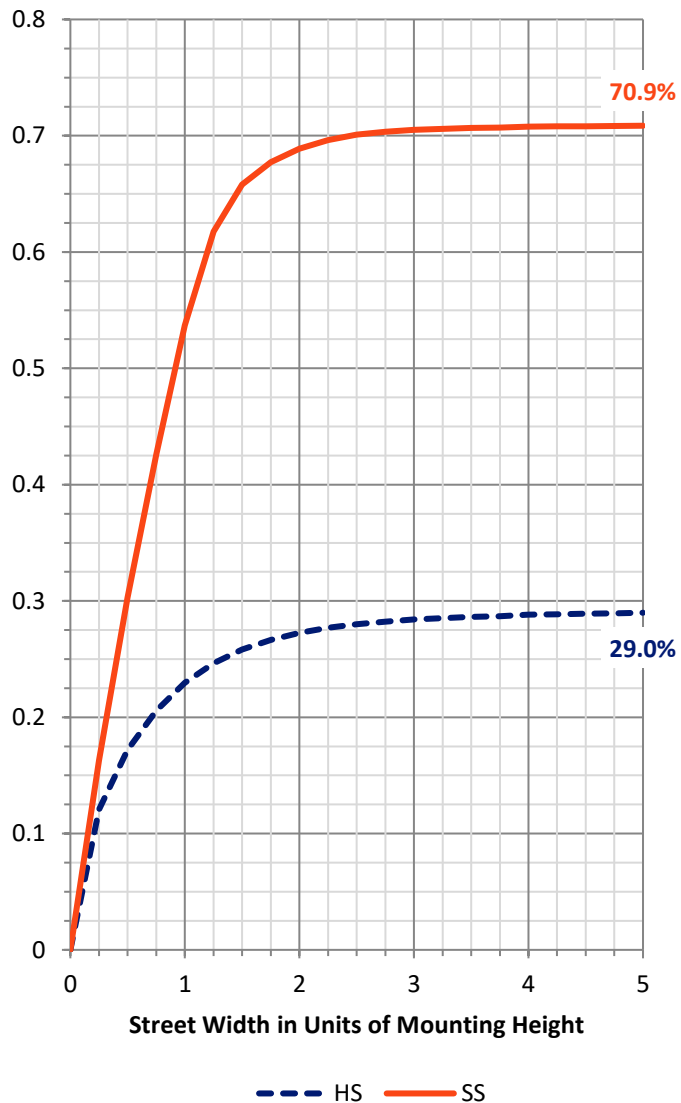
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7502.9	0.0	7502.9
	% Fixture	29.2	0.0	29.2
<b>Street Side</b>	Lumens	18207.7	0.0	18207.7
	% Fixture	70.8	0.0	70.8
<b>Total</b>	Lumens	25710.6	0.0	25710.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	753.0	2.9
10°-20°	1880.7	7.3
20°-30°	2773.3	10.8
30°-40°	3962.5	15.4
40°-50°	5453.9	21.2
50°-60°	6445.0	25.1
60°-70°	3434.8	13.4
70°-80°	871.4	3.4
80°-90°	135.9	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°	25710.6	100.0
0°-180°	25710.6	100.0

**Coefficient of Utilization**

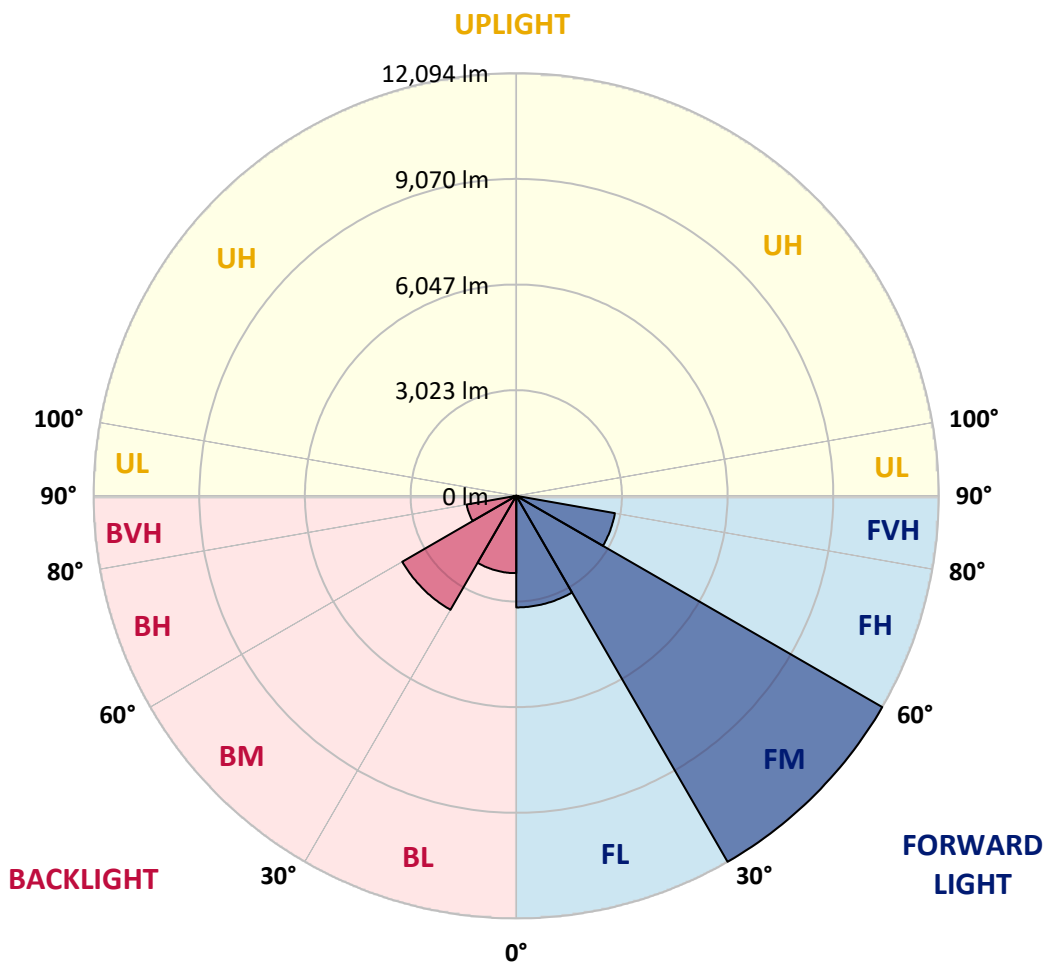


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3194.2	12.4			
FM (30°-60°)	12093.8	47.0			
FH (60°-80°)	2865.1	11.1			G2/5000
FVH (80°-90°)	54.6	0.2			G1/100
BL (0°-30°)	2212.9	8.6	B3/2500		
BM (30°-60°)	3767.7	14.7	B3/5000		
BH (60°-80°)	1441.0	5.6	B3/2500		G3/2500
BVH (80°-90°)	81.3	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°	8506.0	8506.0	8506.0	8506.0	8506.0	8506.0	8506.0	8506.0	8506.0	8506.0	8506.0
2.5°	8400.6	8328.0	8370.8	8354.4	8489.6	8529.1	8509.4	8525.9	8601.7	8565.5	8489.6
5°	7849.7	7952.0	7971.8	8021.2	8100.4	8255.4	8377.5	8410.4	8446.7	8614.9	8598.4
7.5°	7348.4	7417.7	7381.4	7526.5	7698.0	7948.7	8097.1	8123.5	8456.6	8549.0	8618.2
10°	7031.8	6962.5	7127.4	7167.0	7361.6	7648.6	7826.6	7935.5	8238.9	8605.0	8647.9
12.5°	6738.3	6715.2	6814.1	6926.3	7143.9	7440.8	7622.2	7665.0	8133.4	8519.3	8720.4
15°	6520.6	6494.2	6593.1	6675.5	6929.6	7193.4	7424.2	7546.3	8017.9	8469.8	8657.8
17.5°	6349.0	6345.7	6401.8	6550.3	6810.8	7031.8	7404.4	7411.1	7958.6	8545.7	8710.6
20°	6339.2	6335.9	6345.7	6510.6	6748.1	7018.6	7341.8	7401.2	7958.6	8492.9	8713.9
22.5°	6421.6	6368.8	6428.2	6533.7	6705.2	7041.7	7364.9	7496.8	8149.9	8753.5	8862.3
25°	6553.6	6566.7	6599.8	6636.0	6735.0	7094.4	7569.4	7678.3	8374.2	8977.7	9066.7
27.5°	6794.3	6787.7	6800.9	6820.7	6906.5	7143.9	7651.9	7932.2	8842.5	9376.8	9287.8
30°	7147.2	7124.1	7176.9	7246.2	7167.0	7302.3	7925.6	8136.7	9277.8	9779.2	9535.1
32.5°	7467.2	7552.9	7651.9	7681.5	7585.9	7612.2	8288.4	8502.8	9640.7	10273.9	9838.6
35°	7866.3	7935.5	8067.4	8159.8	8143.3	8064.1	8783.1	9066.7	10165.1	10636.7	10158.5
37.5°	8255.4	8337.9	8555.5	8829.3	8677.6	8641.3	9310.8	9545.0	10326.7	10831.3	10392.7
40°	8882.0	8878.8	9254.7	9396.6	9531.9	9469.1	9858.4	9937.5	10412.4	10788.4	10399.3
42.5°	9617.6	9571.4	9954.0	10175.0	10349.8	10356.3	10428.9	10402.5	10452.0	10570.7	10330.0
45°	10316.8	10415.7	10801.6	11197.4	11372.2	11392.0	10910.5	10861.0	10521.2	10508.1	10198.0
47.5°	11171.1	11194.1	11510.7	12031.9	12437.6	12299.1	11533.8	11425.0	10824.7	10926.9	10419.1
50°	11220.5	11392.0	11675.6	12289.1	13535.9	13499.5	12341.9	12137.4	11312.9	11520.7	11035.8
52.5°	10184.9	10145.3	10481.7	11484.3	13453.3	14693.5	13681.0	13192.8	12361.7	12203.4	12035.2
55°	7760.7	7853.0	8149.9	9162.4	11682.3	14710.0	15504.9	15105.8	13483.1	13212.7	13018.0
56°	6807.5	6820.7	7101.0	8024.6	10659.8	14185.6	15851.2	15528.0	14040.4	13628.2	13331.4
57.5°	5643.2	5567.4	5712.5	6217.1	8997.5	13077.4	15471.9	15788.5	14693.5	14076.8	13664.4
60°	4442.7	4426.2	4366.8	4459.2	5686.1	9851.7	12879.5	13591.9	14627.5	13654.6	13087.3
62.5°	3628.0	3545.6	3664.3	3796.2	3951.3	6111.5	9050.3	9469.1	11613.0	10900.6	9832.0
65°	2813.4	2773.8	2922.2	3351.0	3443.3	3882.0	5155.1	5478.3	6857.0	6735.0	5930.2
67.5°	1936.0	1942.6	2071.3	2724.3	3192.7	3153.1	3156.4	3324.6	3578.5	2658.4	2315.3
70°	1227.0	1223.7	1292.9	1754.6	2569.3	2595.7	2463.8	2414.3	2288.9	1385.3	1467.7
72.5°	788.2	765.1	801.5	969.7	1329.1	1537.0	1583.1	1612.8	1325.9	1088.4	1180.8
75°	445.3	422.2	409.0	451.9	524.5	606.9	666.3	686.1	768.5	824.6	874.1
77.5°	135.2	122.1	148.5	197.9	260.6	349.6	425.5	438.6	517.8	583.8	633.3
80°	59.4	65.9	92.3	131.9	184.7	247.3	300.1	319.9	372.7	422.2	435.3
82.5°	36.3	39.5	62.6	89.0	128.6	174.8	214.4	221.0	273.7	313.4	323.2
85°	13.2	16.5	33.0	52.8	82.4	112.1	112.1	122.1	112.1	112.1	122.1
87.5°	0.0	0.0	3.3	6.6	6.6	9.9	13.2	13.2	16.5	19.8	23.1
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°	8506.0	8506.0	8506.0	8506.0	8506.0	8506.0	8506.0	8506.0	8506.0	8506.0	8506.0
2.5°	8529.1	8512.7	8486.3	8390.6	8380.8	8351.1	8186.2	8159.8	8186.2	8107.0	8113.6
5°	8512.7	8562.2	8364.2	8268.6	8090.5	7961.9	7813.5	7737.6	7602.4	7516.6	7612.2
7.5°	8585.2	8565.5	8318.0	8110.3	7843.2	7516.6	7256.1	7107.6	6870.2	6804.2	6853.7
10°	8558.8	8453.3	8163.1	7889.3	7384.7	7097.7	6675.5	6266.6	6042.3	5926.8	5910.4
12.5°	8522.6	8492.9	8008.1	7536.4	7005.4	6401.8	5808.1	5422.3	5056.1	4897.8	4920.9
15°	8565.5	8314.8	7717.8	7120.8	6415.0	5623.4	4983.6	4485.6	4231.6	4129.4	4129.4
17.5°	8545.7	8229.0	7579.3	6655.8	5761.9	4825.3	4122.7	3822.6	3717.1	3717.1	3746.7
20°	8555.5	8285.1	7299.0	6190.7	4990.2	4063.4	3552.2	3443.3	3489.5	3506.0	3522.5
22.5°	8611.6	8100.4	7025.2	5679.5	4274.5	3476.3	3225.6	3228.9	3311.4	3400.4	3384.0
25°	8680.9	8027.9	6692.1	5171.6	3727.0	3189.4	3110.2	3100.3	3163.0	3209.1	3215.8
27.5°	8621.5	7902.5	6352.3	4538.3	3278.4	2998.1	2981.6	2988.2	3008.0	3100.3	3070.6
30°	8816.1	7938.8	5926.8	4007.3	3031.1	2935.4	2915.6	2905.7	2935.4	2961.8	2938.7
32.5°	9056.9	7810.2	5610.3	3496.1	2909.0	2889.2	2849.7	2836.5	2852.9	2826.6	2839.8
35°	9162.4	7787.1	5197.9	3130.0	2813.4	2796.9	2773.8	2770.5	2773.8	2750.7	2730.9
37.5°	9221.8	7895.9	4726.3	2961.8	2754.0	2770.5	2717.7	2711.1	2651.8	2664.9	2674.9
40°	9324.0	7727.7	4343.8	2800.2	2717.7	2684.8	2638.6	2628.7	2589.1	2566.0	2589.1
42.5°	9175.6	7678.3	3967.8	2730.9	2664.9	2628.7	2595.7	2539.6	2526.4	2506.6	2493.5
45°	9056.9	7394.6	3631.3	2645.1	2602.3	2582.5	2519.9	2460.5	2411.0	2430.7	2401.1
47.5°	9145.9	7295.6	3298.2	2572.6	2516.6	2493.5	2430.7	2384.6	2335.1	2312.0	2305.5
50°	9502.1	7480.3	3017.8	2519.9	2444.0	2430.7	2348.3	2295.5	2249.4	2232.9	2239.5
52.5°	10353.1	7985.0	2826.6	2411.0	2374.7	2315.3	2269.1	2203.2	2173.5	2120.8	2153.7
55°	11431.6	8806.2	2777.1	2308.8	2288.9	2236.2	2173.5	2124.0	2068.0	2025.1	2015.2
56°	11777.9	9198.7	2737.5	2269.1	2236.2	2206.5	2124.0	2094.4	2005.3	1995.4	1988.8
57.5°	12058.3	9545.0	2744.1	2193.3	2160.3	2133.9	2084.5	2011.9	1952.6	1916.2	1932.8
60°	11425.0	8934.8	2618.7	2077.8	2071.3	2021.8	1952.6	1919.5	1847.0	1804.1	1794.2
62.5°	8492.9	6065.4	2124.0	1929.5	1926.2	1873.4	1794.2	1757.9	1744.8	1685.4	1685.4
65°	4891.2	3802.8	1837.1	1807.4	1781.0	1728.2	1649.1	1619.4	1586.4	1566.6	1550.2
67.5°	2087.8	1972.3	1668.9	1665.6	1635.9	1569.9	1490.8	1444.6	1401.7	1362.2	1381.9
70°	1513.9	1537.0	1507.3	1490.8	1454.5	1372.1	1302.8	1246.7	1180.8	1154.4	1174.2
72.5°	1200.6	1250.1	1292.9	1296.2	1253.3	1157.7	1081.8	1005.9	933.4	897.1	913.6
75°	910.3	943.3	986.2	996.1	933.4	867.4	794.9	715.7	659.7	616.8	623.3
77.5°	656.3	649.7	689.4	682.7	653.0	606.9	540.9	468.3	405.7	366.1	369.4
80°	448.6	458.4	481.5	478.3	441.9	412.2	362.8	303.4	257.3	224.3	217.7
82.5°	313.4	329.8	349.6	333.1	303.4	273.7	237.5	194.6	158.3	131.9	125.4
85°	112.1	128.6	148.5	158.3	168.2	161.6	135.2	108.8	79.2	65.9	62.6
87.5°	23.1	26.4	29.7	29.7	29.7	26.4	23.1	23.1	19.8	9.9	9.9
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)