

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: P942794

Luminaire Tested: **GALN-SB7A-722-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942794
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB7A-722-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19244 lumens
Efficiency: N/A
Efficacy: 96.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G3

Input Watts (W): 199.1
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

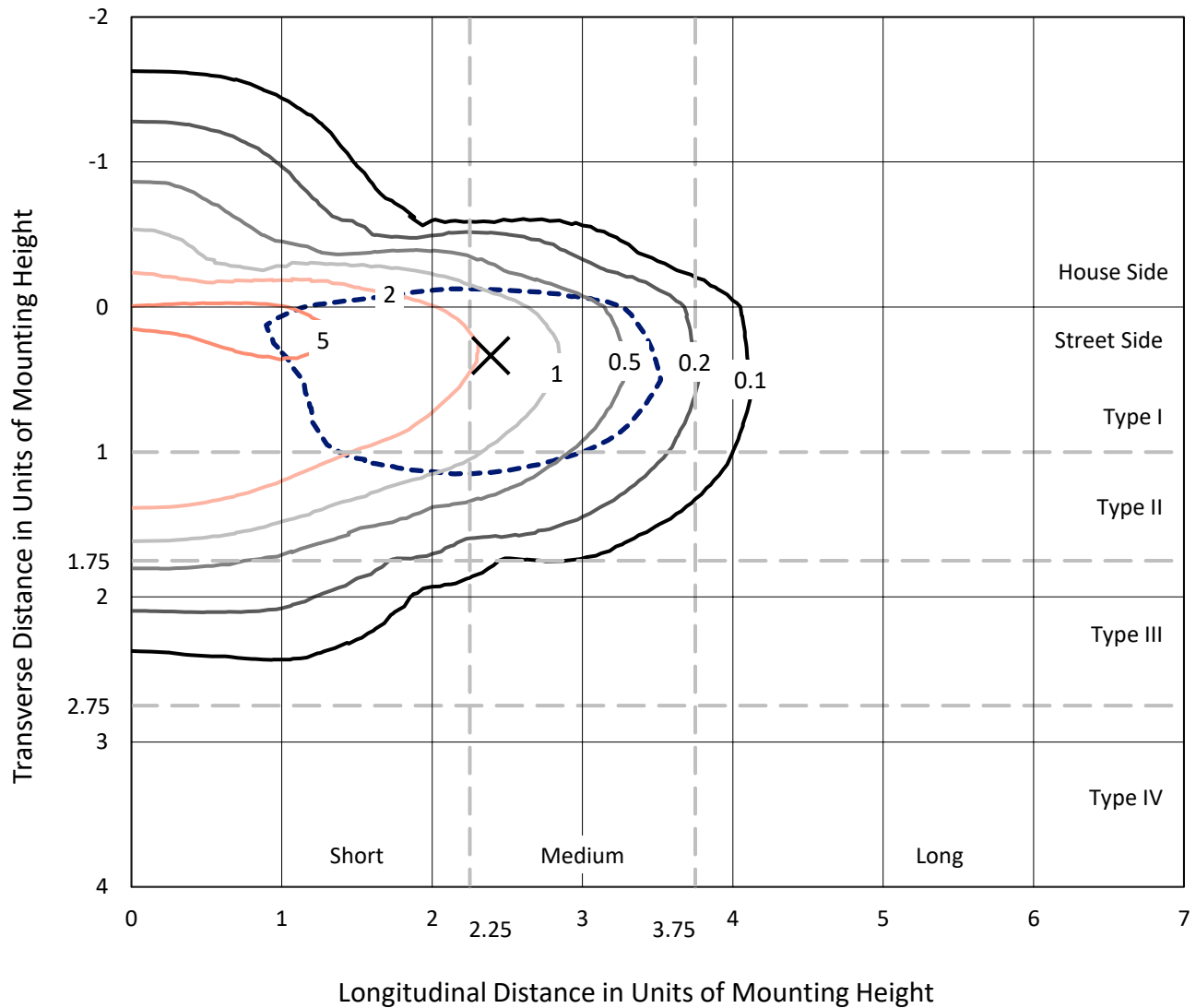


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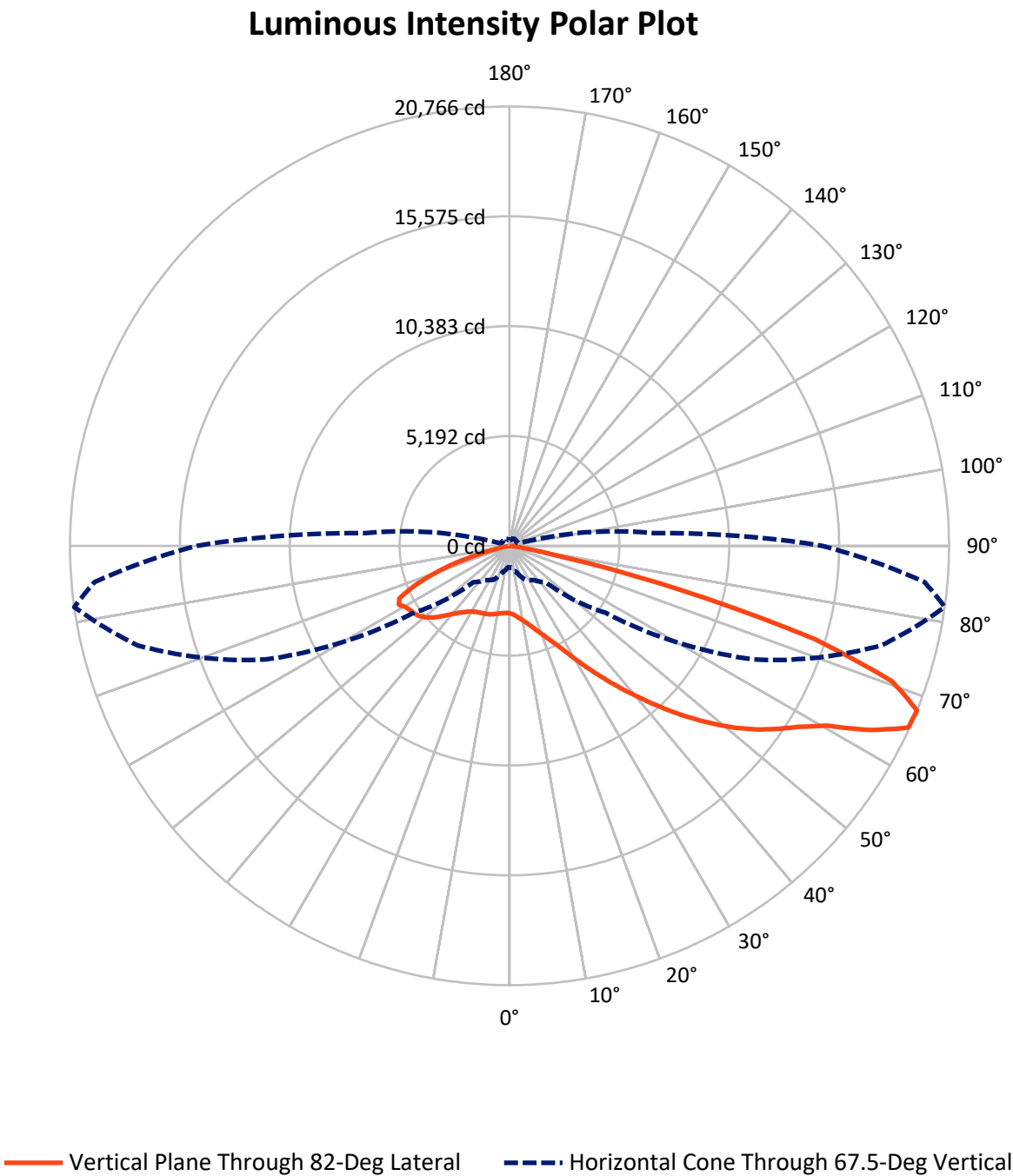
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
Type II - Medium - N/A

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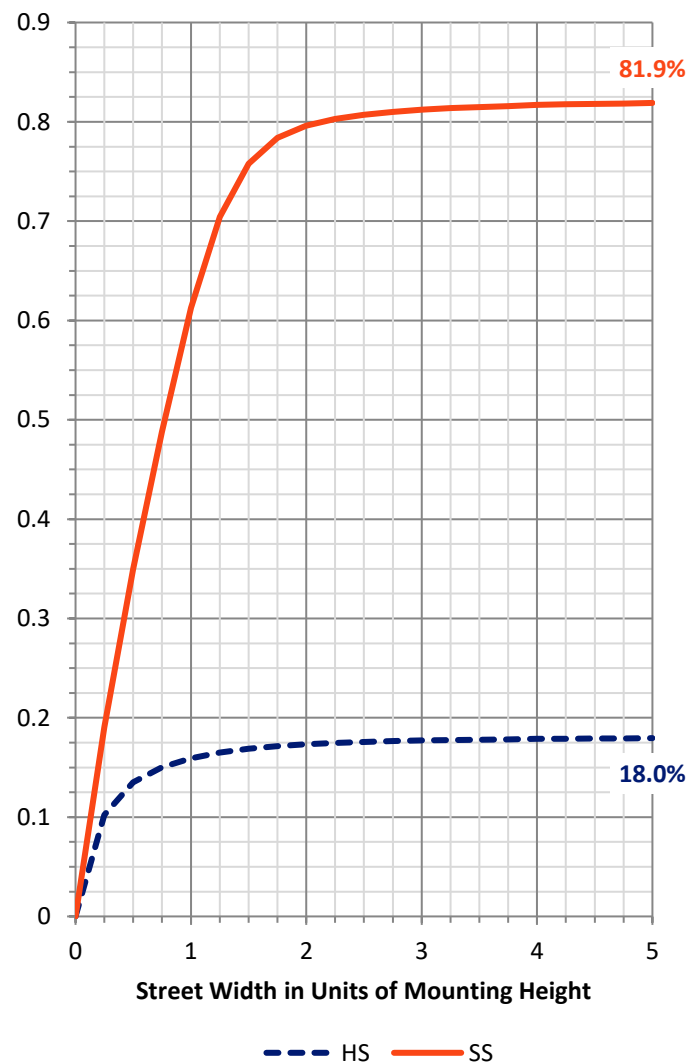
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3485.9	0.0	3485.9
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	15758.1	0.0	15758.1
	% Fixture	81.9	0.0	81.9
Total	Lumens	19244.0	0.0	19244.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	284.0	1.5
10°-20°	738.1	3.8
20°-30°	1182.2	6.1
30°-40°	2090.5	10.9
40°-50°	3662.7	19.0
50°-60°	4885.0	25.4
60°-70°	4547.7	23.6
70°-80°	1745.4	9.1
80°-90°	108.4	0.6
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°	19244.0	100.0
0°-180°	19244.0	100.0

Coefficient of Utilization



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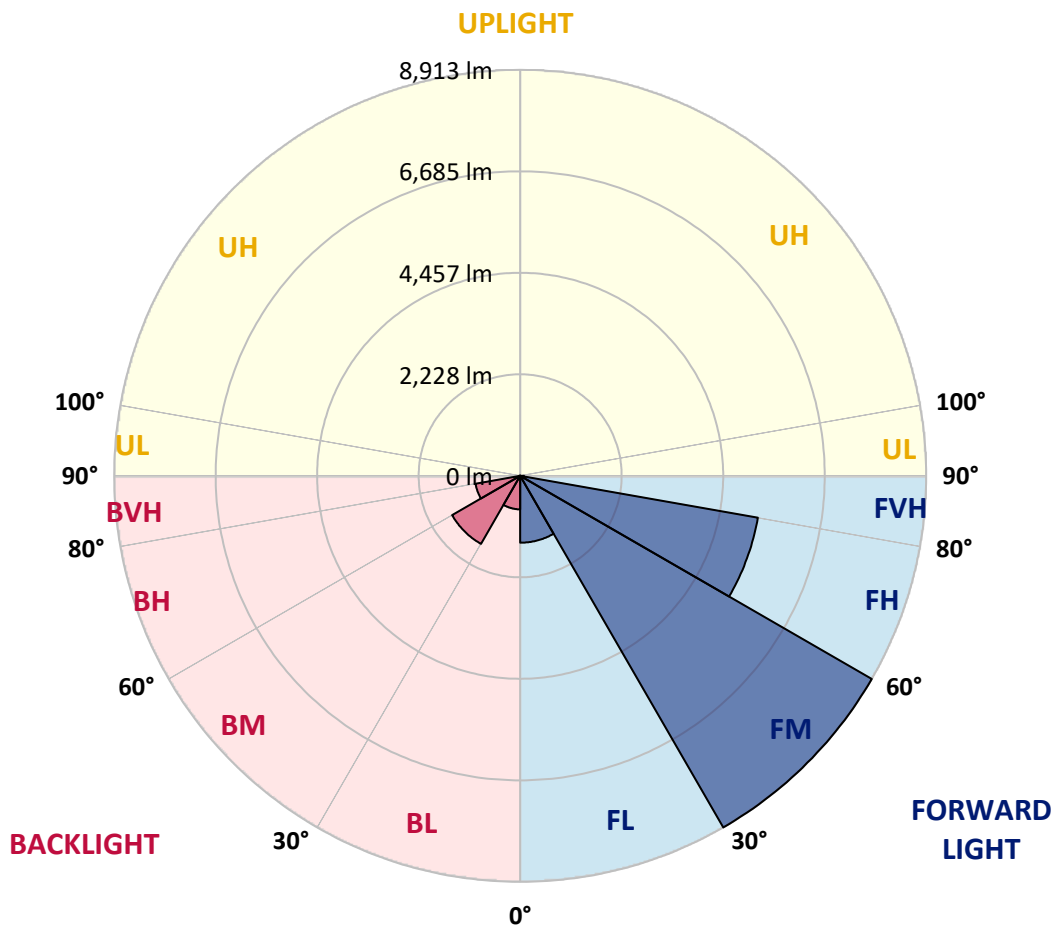
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1468.1	7.6			
FM	(30°-60°)	8913.0	46.3			
FH	(60°-80°)	5298.2	27.5			G3/7500
FVH	(80°-90°)	78.8	0.4			G1/100
BL	(0°-30°)	736.2	3.8	B2/1000		
BM	(30°-60°)	1725.1	9.0	B2/2500		
BH	(60°-80°)	994.9	5.2	B2/1000		G2/1000
BVH	(80°-90°)	29.6	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-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	3188.1	3188.1	3188.1	3188.1	3188.1	3188.1	3188.1	3188.1	3188.1	3188.1	3188.1
2.5°	3369.6	3389.0	3377.9	3372.4	3362.7	3348.8	3337.7	3303.1	3267.1	3243.5	3235.2
5°	3437.5	3456.9	3455.5	3461.0	3468.0	3472.1	3469.3	3430.5	3379.3	3339.1	3315.5
7.5°	3379.3	3401.4	3419.5	3447.2	3495.7	3546.9	3571.9	3563.6	3510.9	3455.5	3426.4
10°	3214.4	3238.0	3280.9	3346.0	3448.6	3559.4	3652.2	3695.2	3661.9	3601.0	3560.8
12.5°	2912.4	2935.9	3020.4	3161.8	3333.6	3526.1	3703.5	3818.5	3826.8	3765.8	3718.7
15°	2572.9	2596.5	2686.5	2863.9	3125.7	3434.7	3731.2	3948.7	4022.2	3969.5	3912.7
17.5°	2362.3	2383.1	2451.0	2593.7	2866.6	3251.8	3721.5	4087.3	4254.9	4213.4	4145.5
20°	2298.6	2316.6	2348.5	2448.2	2675.4	3062.0	3657.8	4217.5	4505.7	4482.2	4406.0
22.5°	2366.5	2383.1	2392.8	2437.1	2579.8	2937.3	3577.4	4350.5	4796.7	4799.4	4706.6
25°	2523.0	2539.7	2528.6	2556.3	2618.6	2898.5	3546.9	4507.1	5162.4	5192.9	5087.6
27.5°	2780.7	2782.1	2755.8	2754.4	2764.1	2956.7	3578.8	4674.7	5623.8	5680.6	5550.4
30°	3297.5	3276.8	3175.6	3066.2	3016.3	3131.3	3667.5	4872.9	6168.3	6269.5	6106.0
32.5°	4094.2	4063.7	3878.1	3616.2	3353.0	3412.5	3826.8	5098.7	6761.3	6944.2	6744.7
35°	4958.8	4950.5	4756.5	4367.2	3907.2	3812.9	4085.9	5395.2	7408.4	7699.3	7462.4
37.5°	5762.4	5758.2	5647.4	5188.8	4629.0	4371.3	4501.6	5783.2	8101.1	8522.3	8242.5
40°	6496.7	6509.2	6398.3	5988.2	5424.3	5087.6	5066.8	6262.5	8871.5	9418.8	9086.2
42.5°	7131.3	7145.1	7032.9	6729.5	6209.9	5880.1	5761.0	6850.0	9623.8	10381.7	9988.2
45°	7562.2	7648.1	7631.4	7389.0	7016.3	6674.0	6595.1	7587.1	10481.5	11402.8	10941.4
47.5°	7684.1	7763.1	7887.8	7921.0	7693.8	7357.1	7451.3	8475.2	11348.8	12425.3	11900.2
50°	7383.4	7456.9	7716.0	8061.0	8218.9	8115.0	8284.0	9427.1	12236.9	13445.1	12841.0
52.5°	6790.4	6865.2	7192.2	7738.1	8382.4	8709.4	9119.5	10365.1	13097.3	14410.8	13731.9
55°	5932.8	6011.8	6431.6	7049.5	8070.6	8954.6	9816.4	11301.7	13885.7	15279.5	14535.5
57.5°	4766.2	4824.4	5260.8	6125.4	7286.4	8710.8	10330.4	12324.2	14628.3	16133.0	15332.2
60°	3106.3	3157.6	3664.7	4629.0	5986.8	7896.1	10433.0	13464.5	15614.8	17242.8	16405.9
62.5°	2065.8	2100.4	2401.1	3109.1	4216.1	6331.8	9833.0	14374.8	17061.3	19174.2	18247.3
65°	1417.4	1452.0	1752.7	2245.9	2723.9	4188.4	8108.1	14254.2	18372.0	20708.0	19612.0
67.5°	1011.4	1040.5	1295.5	1761.0	1971.6	2433.0	5496.4	12713.5	18183.6	20766.2	19685.5
70°	724.6	741.3	951.9	1371.7	1567.0	1461.7	3056.5	9723.6	15921.0	19175.6	18186.3
72.5°	507.1	512.6	660.9	1044.7	1262.2	1066.8	1454.8	6482.8	12041.5	15050.9	14099.0
75°	343.6	350.5	444.8	766.2	1012.8	814.7	770.3	3476.3	7068.9	8331.1	7467.9
77.5°	210.6	213.4	286.8	523.7	757.9	620.7	496.0	1472.8	2735.0	2685.1	2288.9
80°	119.2	119.2	182.9	325.6	516.8	400.4	347.8	626.3	865.9	760.7	670.6
82.5°	66.5	67.9	133.0	202.3	342.2	236.9	191.2	289.6	374.1	331.1	288.2
85°	27.7	30.5	81.7	95.6	163.5	117.8	77.6	121.9	138.6	123.3	90.1
87.5°	2.8	4.2	24.9	18.0	19.4	23.6	11.1	23.6	19.4	19.4	13.9
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°	3188.1	3188.1	3188.1	3188.1	3188.1	3188.1	3188.1	3188.1	3188.1	3188.1	3188.1
2.5°	3208.9	3188.1	3135.4	3074.5	2994.1	2955.3	2902.7	2866.6	2836.2	2838.9	2811.2
5°	3271.2	3218.6	3100.8	2953.9	2771.0	2640.8	2502.2	2406.6	2329.1	2312.4	2275.0
7.5°	3357.1	3274.0	3067.5	2802.9	2493.9	2259.8	2050.6	1916.2	1820.6	1790.1	1759.6
10°	3468.0	3347.4	3024.6	2613.1	2168.3	1870.5	1646.0	1540.7	1475.6	1453.4	1436.8
12.5°	3596.8	3431.9	2967.8	2381.7	1833.0	1546.2	1403.5	1350.9	1330.1	1323.2	1319.0
15°	3758.9	3537.2	2881.9	2107.4	1549.0	1348.1	1287.1	1280.2	1283.0	1280.2	1278.8
17.5°	3951.5	3652.2	2741.9	1824.7	1357.8	1247.0	1224.8	1230.3	1237.3	1235.9	1233.1
20°	4162.1	3765.8	2563.2	1573.9	1227.6	1174.9	1162.5	1168.0	1173.5	1170.8	1169.4
22.5°	4401.8	3887.8	2365.1	1378.6	1140.3	1108.4	1094.6	1095.9	1095.9	1090.4	1087.6
25°	4688.6	4022.2	2157.3	1240.0	1073.8	1048.8	1032.2	1026.7	1018.4	1001.7	999.0
27.5°	5030.8	4164.9	1957.7	1143.1	1021.1	997.6	978.2	964.3	943.5	915.8	913.1
30°	5416.0	4338.1	1788.7	1082.1	979.6	956.0	933.8	913.1	882.6	847.9	845.2
32.5°	5869.1	4523.7	1665.4	1041.9	942.2	917.2	890.9	865.9	832.7	798.1	799.4
35°	6409.4	4748.2	1593.3	1014.2	913.1	879.8	850.7	823.0	798.1	767.6	764.8
37.5°	6995.5	4986.5	1571.2	1000.3	893.7	842.4	809.1	789.7	787.0	769.0	767.6
40°	7637.0	5269.1	1587.8	992.0	872.9	806.4	770.3	766.2	773.1	741.3	742.6
42.5°	8315.9	5604.4	1615.5	982.3	843.8	770.3	735.7	735.7	730.2	685.8	685.8
45°	9050.2	5991.0	1643.2	958.8	809.1	734.3	708.0	698.3	674.7	631.8	630.4
47.5°	9790.1	6384.5	1664.0	915.8	767.6	703.8	680.3	658.1	623.5	584.7	583.3
50°	10492.5	6737.8	1641.8	852.1	720.5	674.7	649.8	619.3	581.9	555.6	551.4
52.5°	11120.2	7044.0	1547.6	777.3	670.6	644.3	622.1	590.2	559.7	532.0	529.3
55°	11666.1	7292.0	1381.4	706.6	626.3	617.9	595.8	555.6	514.0	490.5	487.7
57.5°	12189.8	7480.4	1173.5	648.4	586.1	588.8	555.6	519.6	480.8	455.8	453.1
60°	12886.7	7732.6	962.9	594.4	543.1	551.4	515.4	489.1	440.6	408.7	404.6
62.5°	14000.7	8124.7	764.8	527.9	493.2	496.0	480.8	448.9	390.7	353.3	350.5
65°	14884.6	7980.6	602.7	455.8	436.4	440.6	440.6	406.0	343.6	300.7	296.5
67.5°	14784.9	6833.4	480.8	385.2	382.4	385.2	394.9	365.8	304.8	270.2	264.6
70°	13619.7	5435.4	385.2	320.1	332.5	325.6	353.3	333.9	274.3	239.7	235.5
72.5°	11113.2	3915.5	293.7	264.6	254.9	266.0	318.7	300.7	228.6	189.8	185.7
75°	6493.9	2089.4	218.9	209.2	184.3	221.7	282.6	256.3	174.6	139.9	135.8
77.5°	2114.3	728.8	160.7	153.8	137.2	178.7	241.1	216.1	142.7	110.8	106.7
80°	566.7	220.3	109.5	101.1	88.7	133.0	191.2	171.8	102.5	72.0	70.7
82.5°	227.2	92.8	63.7	56.8	48.5	91.4	151.0	138.6	76.2	45.7	45.7
85°	73.4	30.5	23.6	18.0	22.2	56.8	90.1	94.2	54.0	23.6	18.0
87.5°	9.7	4.2	4.2	5.5	4.2	9.7	27.7	26.3	15.2	2.8	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)