

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: P528337

Luminaire Tested: **GALN-SA3B-830-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528337
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3B-830-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7894 lumens
Efficiency: N/A
Efficacy: 65.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

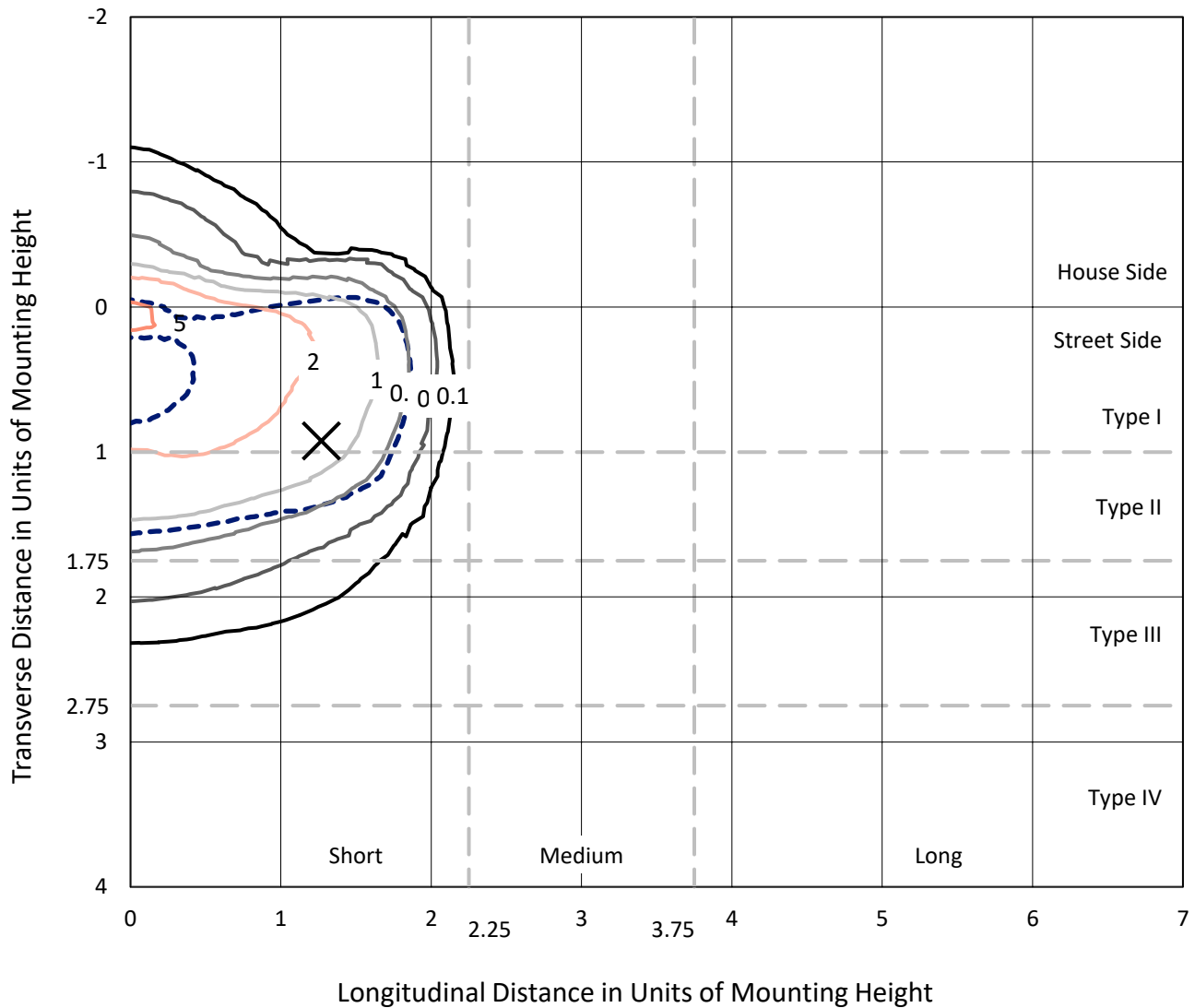
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

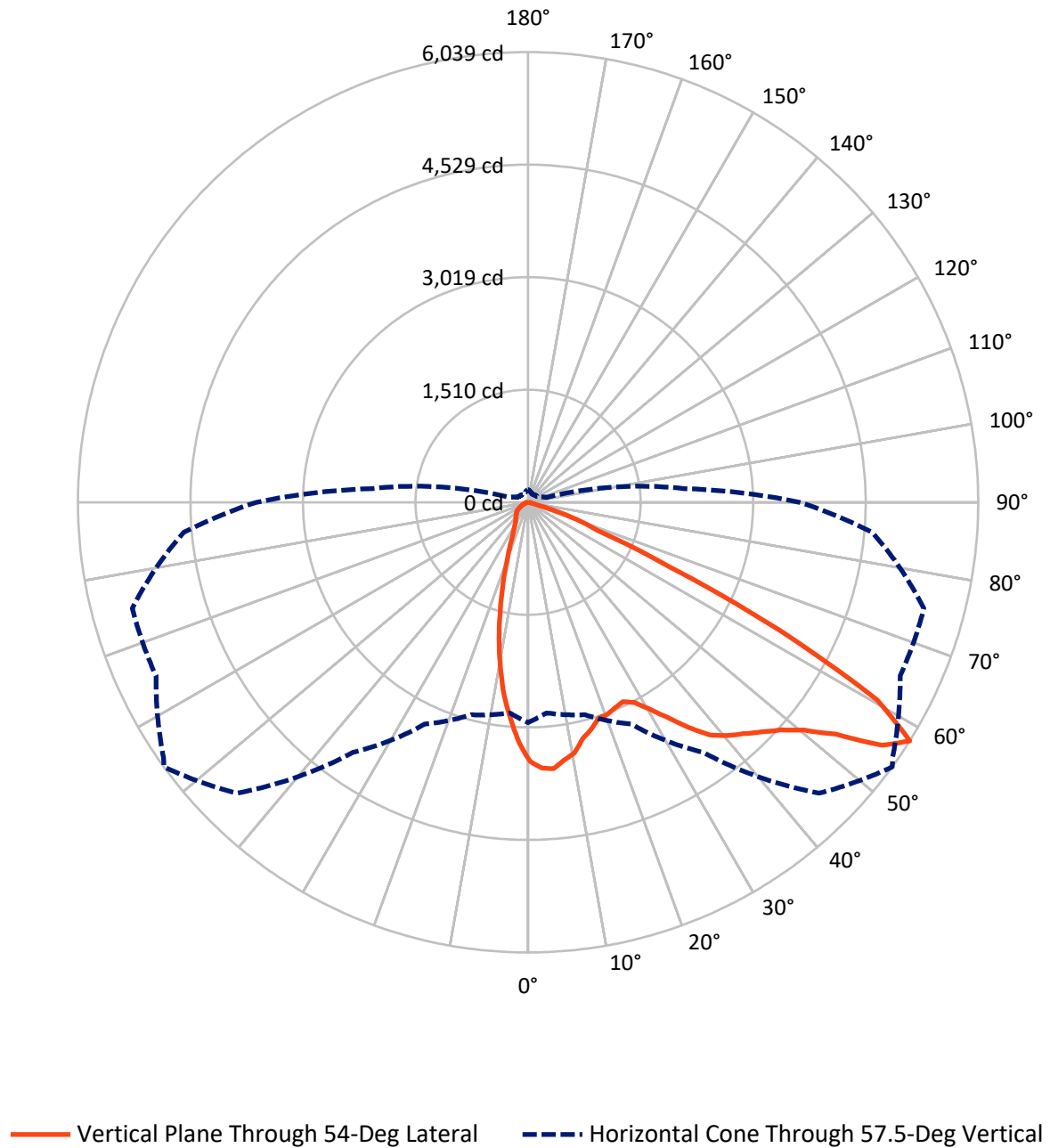


Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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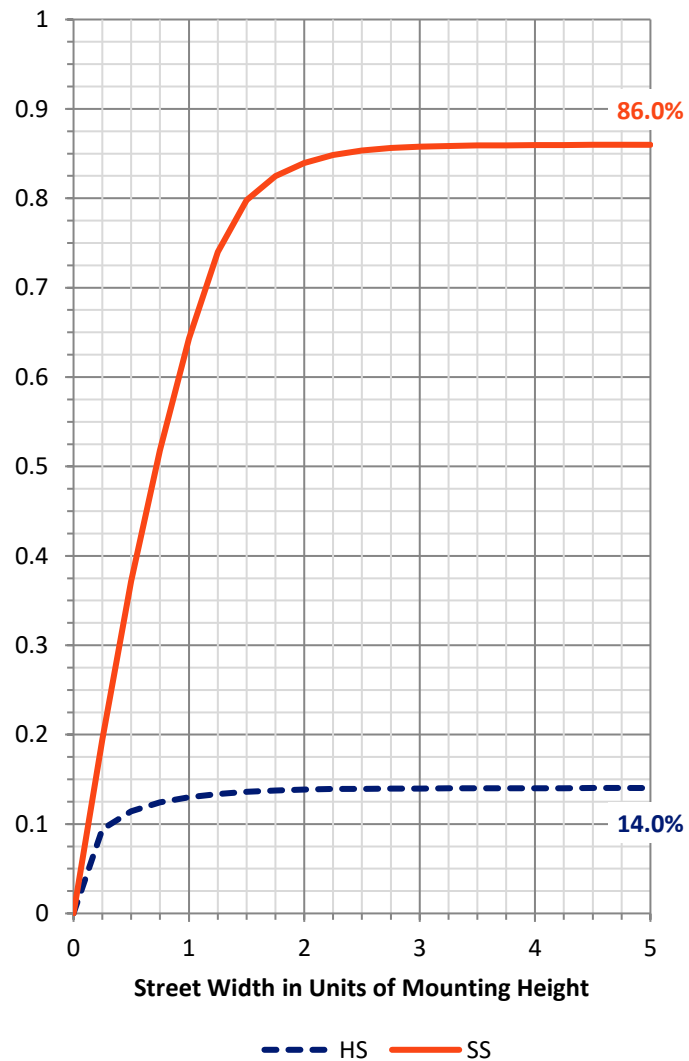
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1115.6	0.0	1115.6
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	6778.4	0.0	6778.4
	% Fixture	85.9	0.0	85.9
Total	Lumens	7894.0	0.0	7894.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	291.0	3.7
10°-20°	621.3	7.9
20°-30°	823.3	10.4
30°-40°	1196.5	15.2
40°-50°	1774.2	22.5
50°-60°	2218.6	28.1
60°-70°	875.1	11.1
70°-80°	87.1	1.1
80°-90°	6.8	0.1
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°	7894.0	100.0
0°-180°	7894.0	100.0

Coefficient of Utilization



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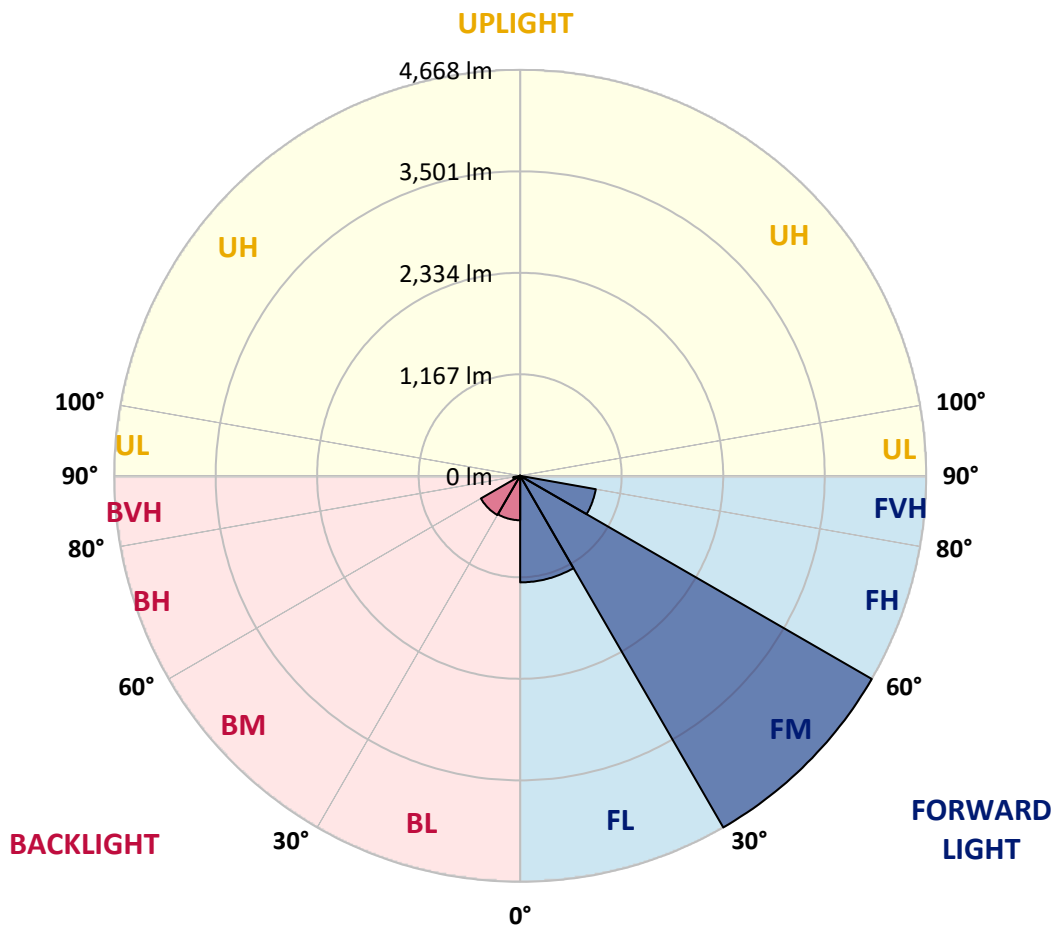
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1225.4	15.5			
FM	(30°-60°)	4667.7	59.1			
FH	(60°-80°)	882.3	11.2			G1/1800
FVH	(80°-90°)	3.1	0.0			G0/10
BL	(0°-30°)	510.2	6.5	B2/1000		
BM	(30°-60°)	521.7	6.6	B1/1000		
BH	(60°-80°)	80.0	1.0	B0/110		G0/110
BVH	(80°-90°)	3.7	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	3477.4	3477.4	3477.4	3477.4	3477.4	3477.4	3477.4	3477.4	3477.4	3477.4	3477.4
2.5°	3680.0	3641.8	3644.8	3631.5	3613.9	3627.1	3569.9	3583.1	3581.6	3503.8	3452.5
5°	3587.5	3628.6	3586.0	3621.3	3587.5	3624.2	3589.0	3562.6	3520.0	3462.7	3367.3
7.5°	3430.4	3390.8	3402.6	3446.6	3453.9	3536.1	3492.1	3525.9	3508.2	3395.2	3264.6
10°	3114.8	3106.0	3164.8	3223.5	3295.4	3383.5	3417.2	3398.1	3384.9	3342.4	3167.7
12.5°	2872.6	2897.6	2896.1	2993.0	3114.8	3164.8	3252.8	3249.9	3323.3	3244.0	3076.7
15°	2642.2	2655.4	2717.1	2777.2	2912.3	3054.7	3163.3	3178.0	3266.0	3210.3	3006.2
17.5°	2501.3	2482.2	2530.6	2602.6	2740.5	2927.0	3047.3	3082.6	3202.9	3191.2	2925.5
20°	2361.8	2361.8	2401.5	2486.6	2612.8	2822.7	3037.0	3026.8	3202.9	3169.2	2838.9
22.5°	2314.9	2338.3	2348.6	2413.2	2562.9	2743.5	2993.0	3012.1	3227.9	3158.9	2800.7
25°	2379.4	2348.6	2351.5	2402.9	2543.8	2705.3	2960.7	3003.3	3273.4	3210.3	2769.9
27.5°	2389.7	2420.5	2429.3	2464.6	2558.5	2717.1	3041.5	3128.1	3386.4	3330.6	2778.7
30°	2479.3	2510.1	2508.6	2568.8	2633.4	2812.5	3222.0	3239.6	3619.8	3481.8	2833.0
32.5°	2587.9	2620.2	2630.4	2700.9	2752.3	2987.1	3442.2	3487.7	3844.4	3719.6	2975.4
35°	2722.9	2711.2	2758.2	2828.6	2938.7	3242.6	3710.8	3787.1	4086.6	4027.9	3122.2
37.5°	2891.7	2877.0	2922.6	3037.0	3186.8	3544.9	3958.9	4008.8	4262.7	4314.1	3393.7
40°	3010.6	3016.5	3154.5	3308.6	3467.1	3832.6	4115.9	4164.4	4386.0	4581.3	3599.2
42.5°	3208.8	3245.5	3411.4	3599.2	3765.1	4048.4	4243.6	4290.6	4443.3	4795.6	3876.7
45°	3496.5	3480.3	3663.8	3873.7	4057.2	4273.0	4394.8	4378.7	4477.0	5008.4	4051.4
47.5°	3866.4	3869.3	3991.2	4170.3	4361.1	4468.2	4563.6	4506.4	4547.5	5233.0	4284.7
50°	4118.9	4140.9	4239.2	4422.7	4518.1	4682.5	4804.4	4769.1	4755.9	5368.0	4431.5
52.5°	4183.5	4249.5	4302.4	4531.4	4754.5	5014.3	5169.9	5244.7	5009.9	5413.6	4618.0
55°	3696.1	3754.8	3941.3	4255.4	4844.0	5539.8	5754.1	5755.6	5341.6	5616.1	4748.6
57.5°	2954.8	2835.9	2950.4	3283.7	4095.4	5517.8	6038.9	5969.9	5507.5	5497.2	4635.6
60°	2043.3	2013.9	2021.3	2153.4	2834.5	4389.0	5381.3	5470.8	5071.5	4764.7	3669.7
62.5°	1619.1	1594.1	1561.8	1547.1	1760.0	2734.7	3795.9	3922.2	3546.4	3089.9	2175.4
65°	1268.3	1253.6	1258.0	1316.7	1315.2	1551.6	2075.6	2024.2	1620.5	1197.8	684.0
67.5°	855.8	877.8	895.4	1073.0	1164.0	1080.4	1002.6	973.2	527.0	221.7	151.2
70°	481.5	484.4	503.5	670.8	883.7	838.2	691.4	691.4	262.8	80.7	86.6
72.5°	262.8	253.9	236.3	289.2	393.4	399.3	308.3	268.6	77.8	52.8	48.4
75°	127.7	126.2	108.6	89.5	85.1	70.5	54.3	49.9	35.2	33.8	29.4
77.5°	26.4	25.0	13.2	13.2	14.7	16.1	20.6	20.6	25.0	25.0	20.6
80°	0.0	0.0	1.5	5.9	10.3	14.7	17.6	17.6	20.6	20.6	16.1
82.5°	0.0	0.0	1.5	4.4	8.8	13.2	16.1	17.6	20.6	22.0	17.6
85°	0.0	0.0	0.0	2.9	7.3	10.3	8.8	8.8	7.3	5.9	2.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3477.4	3477.4	3477.4	3477.4	3477.4	3477.4	3477.4	3477.4	3477.4	3477.4	3477.4
2.5°	3426.0	3423.1	3355.6	3317.4	3248.4	3188.2	3139.8	3104.6	3104.6	3082.6	3062.0
5°	3329.2	3304.2	3160.4	3067.9	2937.2	2840.4	2774.3	2722.9	2642.2	2664.2	2577.6
7.5°	3208.8	3145.7	2954.8	2813.9	2633.4	2495.4	2354.5	2229.7	2109.3	2055.0	2084.4
10°	3079.6	2969.5	2712.6	2489.5	2264.9	2012.5	1848.1	1648.4	1525.1	1517.8	1485.5
12.5°	2943.1	2818.3	2505.7	2197.4	1902.4	1598.5	1347.5	1161.1	1077.4	984.9	1002.6
15°	2840.4	2655.4	2275.2	1903.8	1511.9	1205.1	952.7	808.8	729.5	707.5	700.2
17.5°	2728.8	2530.6	2040.4	1591.2	1186.0	867.5	685.5	616.5	585.7	585.7	581.3
20°	2612.8	2389.7	1807.0	1300.5	889.5	647.3	549.0	527.0	525.5	524.0	524.0
22.5°	2536.5	2228.2	1595.6	1033.4	670.8	518.2	477.1	468.3	474.1	491.7	491.7
25°	2455.8	2072.6	1362.2	797.1	519.6	444.8	421.3	427.2	441.8	458.0	452.1
27.5°	2373.6	1971.4	1142.0	625.3	425.7	389.0	380.2	393.4	409.5	424.2	419.8
30°	2354.5	1862.7	933.6	474.1	365.5	339.1	345.0	356.7	372.8	378.7	384.6
32.5°	2383.8	1777.6	764.8	389.0	318.5	311.2	311.2	317.1	327.3	340.5	336.1
35°	2467.5	1729.2	604.8	337.6	292.1	284.8	283.3	289.2	295.0	299.4	295.0
37.5°	2595.2	1691.0	494.7	299.4	274.5	262.8	259.8	258.3	264.2	265.7	268.6
40°	2758.2	1711.6	419.8	276.0	256.9	243.7	234.9	234.9	234.9	239.3	240.7
42.5°	2934.3	1739.4	362.6	262.8	240.7	224.6	215.8	212.8	215.8	221.7	220.2
45°	3119.2	1793.8	325.9	242.2	226.1	205.5	193.8	190.8	198.2	209.9	208.4
47.5°	3292.5	1871.5	298.0	229.0	211.4	192.3	177.6	174.7	187.9	204.0	205.5
50°	3465.7	2006.6	287.7	218.7	201.1	179.1	165.9	162.9	177.6	198.2	202.6
52.5°	3665.3	2151.9	280.4	205.5	189.4	168.8	154.1	151.2	167.3	193.8	195.2
55°	3795.9	2275.2	274.5	182.0	167.3	152.7	140.9	139.4	157.1	180.5	186.4
57.5°	3643.3	2103.5	253.9	158.5	142.4	135.0	124.8	124.8	139.4	161.5	165.9
60°	2762.6	1384.2	180.5	127.7	120.4	116.0	111.6	111.6	123.3	139.4	140.9
62.5°	1617.6	745.7	116.0	102.8	102.8	98.3	91.0	91.0	102.8	111.6	113.0
65°	480.0	239.3	93.9	88.1	86.6	79.3	71.9	70.5	79.3	83.7	82.2
67.5°	138.0	110.1	77.8	73.4	71.9	60.2	55.8	54.3	55.8	52.8	51.4
70°	82.2	74.9	60.2	61.7	54.3	44.0	39.6	38.2	35.2	30.8	27.9
72.5°	45.5	45.5	44.0	47.0	38.2	29.4	25.0	20.6	16.1	13.2	11.7
75°	27.9	29.4	30.8	32.3	25.0	19.1	16.1	10.3	5.9	2.9	2.9
77.5°	19.1	20.6	22.0	23.5	20.6	17.6	13.2	7.3	1.5	0.0	0.0
80°	14.7	16.1	19.1	20.6	22.0	23.5	17.6	7.3	1.5	0.0	0.0
82.5°	16.1	17.6	22.0	20.6	20.6	20.6	16.1	7.3	1.5	0.0	0.0
85°	2.9	4.4	7.3	7.3	10.3	13.2	10.3	2.9	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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)