

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: P951972

Luminaire Tested: **GALN-SB6A-722-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951972
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB6A-722-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19159 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 170.9
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

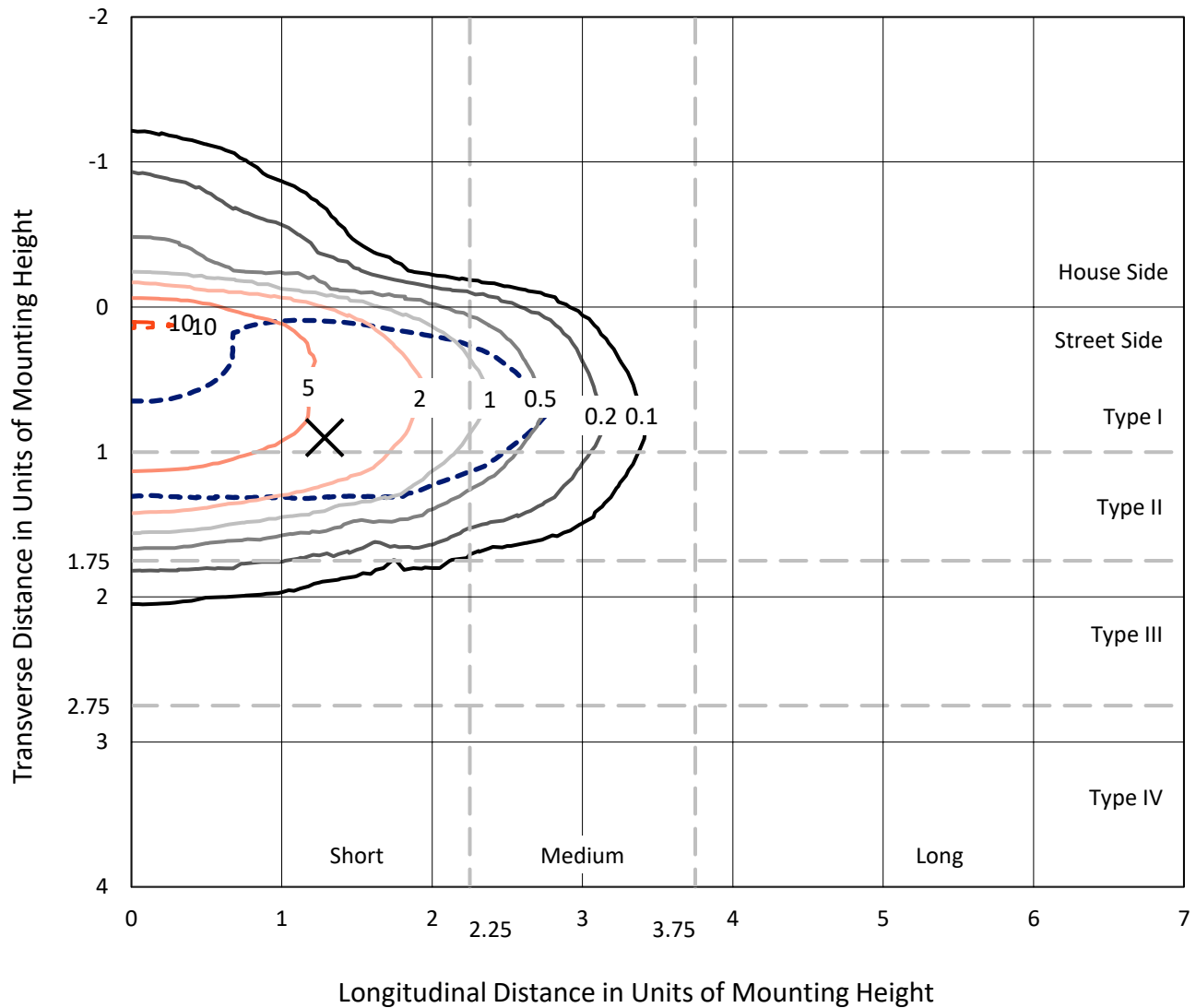


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Iso-Footcandle Lines of Horizontal Illumination

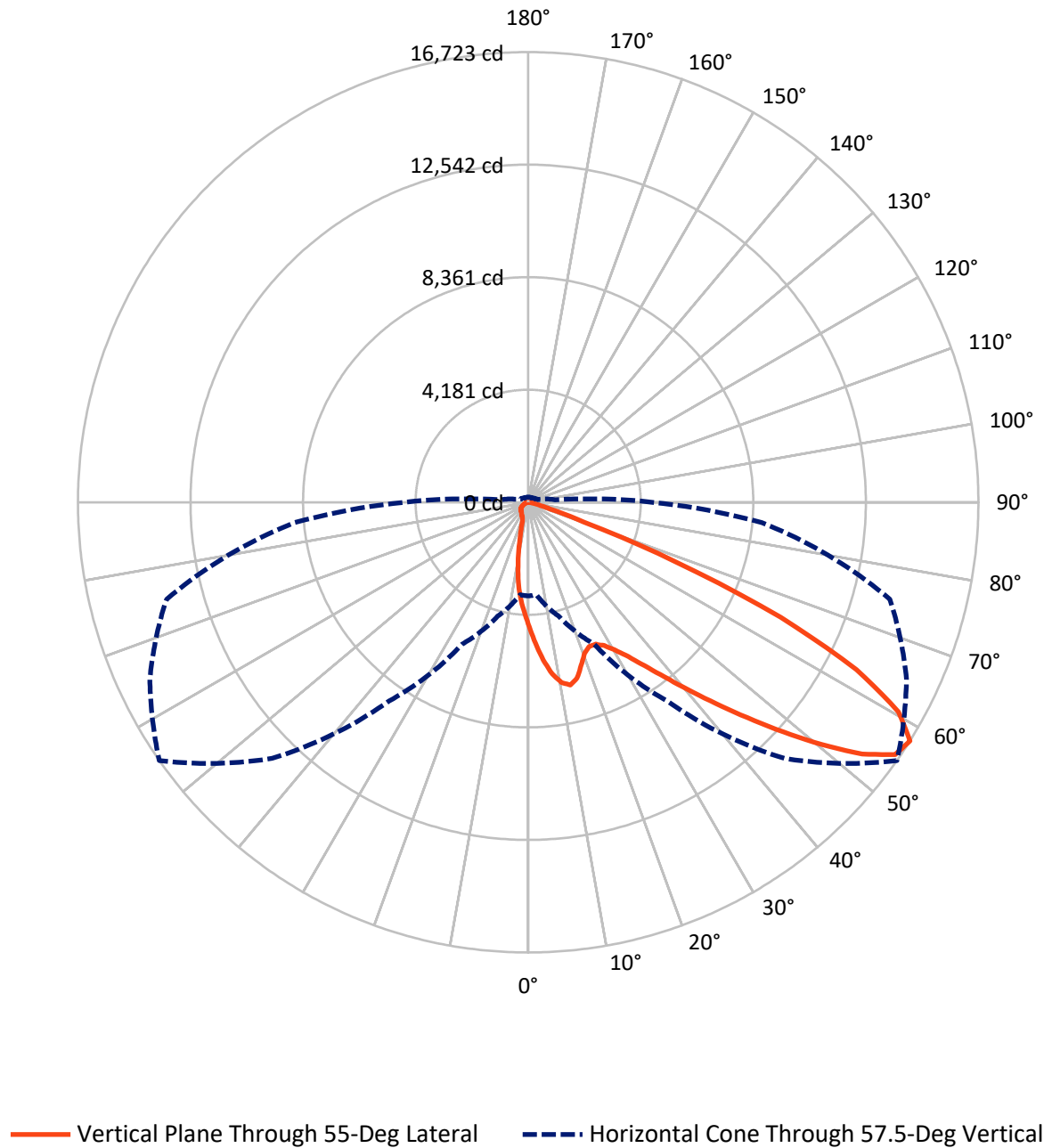
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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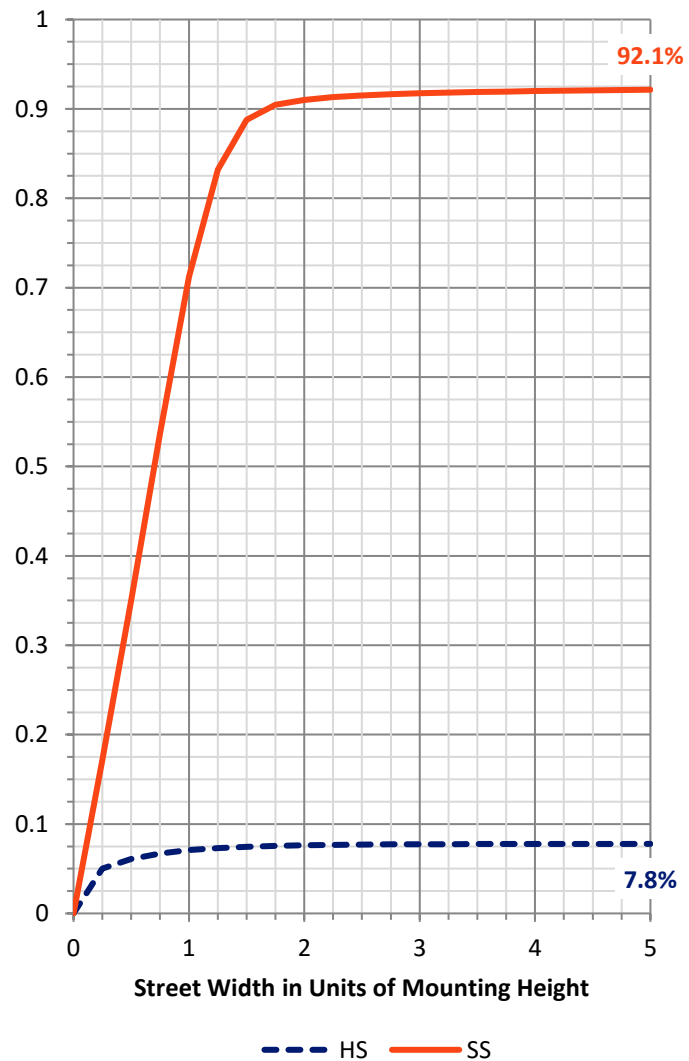
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1496.2	0.0	1496.2
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	17662.8	0.0	17662.8
	% Fixture	92.2	0.0	92.2
Total	Lumens	19159.0	0.0	19159.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	429.6	2.2
10°-20°	1037.6	5.4
20°-30°	1660.2	8.7
30°-40°	2810.0	14.7
40°-50°	4613.4	24.1
50°-60°	5070.5	26.5
60°-70°	2908.4	15.2
70°-80°	594.3	3.1
80°-90°	35.1	0.2
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°	19159.0	100.0
0°-180°	19159.0	100.0

Coefficient of Utilization



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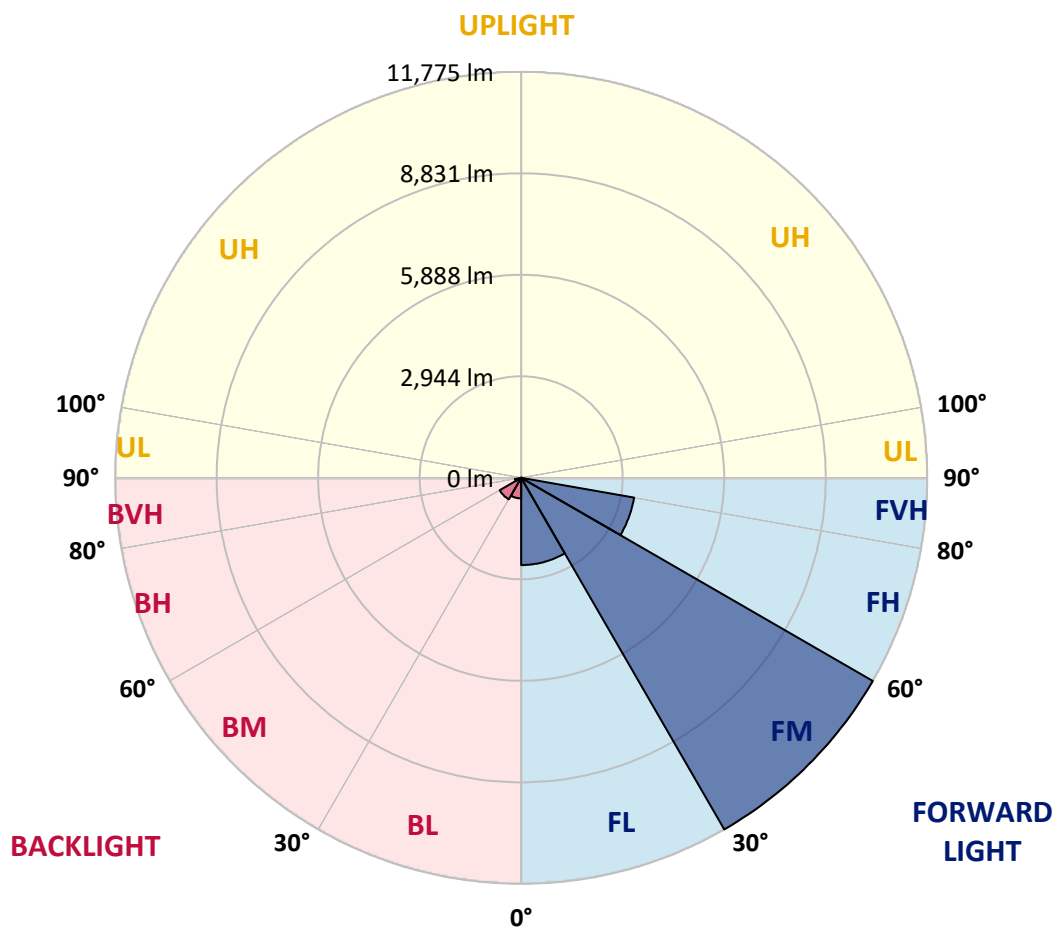
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2530.1	13.2			
FM	(30°-60°)	11775.3	61.5			
FH	(60°-80°)	3324.7	17.4			G2/5000
FVH	(80°-90°)	32.7	0.2			G1/100
BL	(0°-30°)	597.3	3.1	B2/1000		
BM	(30°-60°)	718.6	3.8	B1/1000		
BH	(60°-80°)	177.9	0.9	B1/500		G1/500
BVH	(80°-90°)	2.4	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-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4616.8	4616.8	4616.8	4616.8	4616.8	4616.8	4616.8	4616.8	4616.8	4616.8	4616.8
2.5°	5728.5	5656.5	5645.8	5631.7	5494.6	5391.8	5243.0	5079.9	4896.8	4710.2	4627.5
5°	6618.1	6561.4	6550.8	6484.6	6328.7	6153.8	5889.2	5554.9	5213.4	4811.8	4639.3
7.5°	6790.6	6780.0	6828.4	6826.0	6804.8	6666.5	6443.3	6045.1	5532.4	4937.0	4670.0
10°	6021.5	6048.7	6192.8	6319.2	6660.6	6859.1	6810.7	6482.3	5860.8	5079.9	4704.3
12.5°	5321.0	5289.1	5391.8	5534.8	5931.7	6522.4	6963.1	6847.3	6236.5	5241.8	4755.1
15°	4881.5	4868.5	4926.4	4992.5	5295.0	5890.4	6785.9	7143.8	6598.0	5433.2	4831.9
17.5°	4740.9	4730.3	4748.0	4764.5	4960.6	5421.4	6364.1	7325.8	6944.2	5651.7	4916.9
20°	4855.5	4841.3	4838.9	4826.0	4907.5	5221.7	5982.5	7338.8	7254.9	5850.2	4990.2
22.5°	5189.8	5173.3	5115.4	5063.4	5070.5	5248.9	5812.4	7208.8	7488.8	6035.7	5036.2
25°	5795.9	5768.7	5648.2	5473.3	5362.3	5437.9	5838.4	7037.5	7712.1	6181.0	5013.8
27.5°	6554.3	6518.9	6364.1	6104.2	5850.2	5758.1	6026.2	6919.4	7897.5	6292.0	4965.4
30°	7297.4	7251.3	7098.9	6896.9	6526.0	6235.3	6365.3	6971.3	8118.5	6407.8	4901.6
32.5°	8099.6	8055.9	7853.8	7603.4	7296.2	6905.2	6829.6	7225.3	8389.0	6569.7	4856.7
35°	9114.4	9045.9	8758.8	8417.4	8091.3	7695.5	7458.1	7663.6	8749.3	6816.6	4881.5
37.5°	10269.8	10177.6	9868.1	9396.7	8971.4	8528.4	8223.6	8266.1	9277.4	7147.4	4958.3
40°	11359.0	11275.1	10989.2	10545.0	10011.0	9473.5	9148.6	9054.1	10006.3	7550.2	5092.9
42.5°	12012.3	11936.7	11816.2	11628.4	11178.3	10630.1	10220.1	10015.8	10868.7	8032.2	5257.2
45°	12048.9	11982.8	12144.6	12363.2	12274.6	11909.5	11409.8	11035.3	11734.7	8484.7	5427.3
47.5°	11463.0	11418.1	11909.5	12672.7	13053.1	13206.7	12745.9	11969.8	12449.4	8809.6	5497.0
50°	9865.7	9849.2	10860.5	12261.6	13349.6	14343.2	14155.3	12839.3	13003.5	8977.3	5430.8
52.5°	8554.4	8494.1	9083.7	10945.5	12918.4	14941.0	15532.8	13692.2	13391.0	9009.2	5276.1
55°	6488.2	6435.0	7174.5	8743.4	11527.9	14728.3	16540.6	14572.4	13668.6	8927.7	4998.4
57.5°	3480.4	3447.3	4381.8	5819.5	9011.6	13452.4	16722.5	15503.3	13902.5	8711.5	4609.8
60°	1355.0	1349.1	1698.8	2823.5	5476.9	10944.3	15804.5	16062.1	14049.0	8445.7	4284.9
62.5°	819.9	837.6	894.3	1267.6	2419.5	6798.9	13688.7	15426.5	14147.1	8202.3	4016.7
65°	678.1	679.3	686.4	870.7	1158.9	2844.8	10305.2	13335.5	13904.9	7768.8	3636.3
67.5°	581.2	591.9	619.0	691.1	817.5	1247.5	5932.9	10330.0	12431.7	6759.9	3043.2
70°	458.4	472.6	506.8	568.2	630.9	780.9	2192.6	6873.3	9497.1	5095.3	2301.3
72.5°	386.3	385.1	402.9	461.9	500.9	549.3	843.5	3851.3	5519.4	2432.5	1138.9
75°	298.9	310.7	333.2	386.3	409.9	398.1	457.2	1407.0	1977.6	737.2	387.5
77.5°	233.9	243.4	263.4	315.4	339.1	282.4	263.4	503.3	635.6	264.6	174.8
80°	105.1	113.4	179.6	232.7	276.4	194.9	142.9	257.5	282.4	120.5	88.6
82.5°	18.9	31.9	105.1	122.9	141.8	126.4	74.4	133.5	138.2	48.4	30.7
85°	1.2	2.4	36.6	44.9	56.7	41.3	22.4	53.2	46.1	16.5	11.8
87.5°	0.0	0.0	0.0	1.2	1.2	5.9	7.1	9.5	7.1	5.9	4.7
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4616.8	4616.8	4616.8	4616.8	4616.8	4616.8	4616.8	4616.8	4616.8	4616.8
2.5°	4542.4	4374.7	4211.6	4078.1	4000.2	3867.8	3780.4	3766.3	3729.6	3761.5
5°	4455.0	4154.9	3851.3	3579.6	3356.3	3068.1	2853.0	2762.1	2682.9	2710.1
7.5°	4413.6	3939.9	3467.4	3003.1	2525.8	2065.1	1722.5	1579.5	1470.8	1486.2
10°	4358.1	3716.6	2975.9	2267.1	1627.9	1173.1	936.8	849.4	801.0	802.2
12.5°	4315.6	3449.6	2405.3	1537.0	991.2	749.0	675.8	654.5	640.3	641.5
15°	4294.3	3135.4	1841.8	1024.3	708.8	634.4	616.7	607.2	597.8	596.6
17.5°	4258.9	2785.7	1348.0	747.8	620.2	594.2	578.9	568.2	556.4	554.1
20°	4205.7	2388.8	985.3	632.0	581.2	561.2	539.9	525.7	511.5	509.2
22.5°	4107.7	1969.4	757.3	584.8	552.9	530.4	504.5	487.9	473.7	471.4
25°	3925.7	1576.0	637.9	555.3	528.1	500.9	472.6	450.1	437.1	434.7
27.5°	3695.4	1238.1	578.9	528.1	496.2	471.4	439.5	418.2	406.4	404.0
30°	3423.6	953.4	544.6	497.4	458.4	437.1	408.8	391.0	383.9	383.9
32.5°	3130.7	762.0	530.4	466.6	425.3	401.7	379.2	372.1	369.8	368.6
35°	2855.4	661.6	523.4	441.8	395.8	373.3	363.9	365.0	369.8	369.8
37.5°	2610.9	629.7	519.8	424.1	369.8	349.7	355.6	366.2	361.5	361.5
40°	2389.9	633.2	517.4	411.1	348.5	336.7	348.5	340.2	328.4	327.2
42.5°	2221.0	662.8	512.7	400.5	335.5	327.2	322.5	309.5	308.3	310.7
45°	2098.1	688.7	511.5	395.8	321.3	306.0	300.1	287.1	310.7	316.6
47.5°	1952.8	688.7	511.5	379.2	297.7	291.8	282.4	268.2	291.8	297.7
50°	1765.0	645.0	491.5	360.3	278.8	275.3	258.7	241.0	236.3	239.8
52.5°	1527.5	565.9	440.7	334.3	259.9	252.8	232.7	219.7	216.2	216.2
55°	1257.0	473.7	372.1	296.5	239.8	226.8	212.6	206.7	203.2	200.8
57.5°	1021.9	388.7	298.9	263.4	220.9	204.4	199.7	192.6	186.7	183.1
60°	838.8	306.0	246.9	233.9	202.0	186.7	185.5	176.0	160.7	158.3
62.5°	647.4	224.5	207.9	203.2	183.1	170.1	167.8	148.9	125.2	120.5
65°	457.2	174.8	167.8	178.4	163.0	151.2	145.3	117.0	92.1	88.6
67.5°	321.3	146.5	132.3	155.9	141.8	126.4	122.9	99.2	76.8	74.4
70°	229.2	119.3	108.7	133.5	113.4	111.1	104.0	82.7	62.6	60.3
72.5°	161.8	91.0	83.9	115.8	78.0	95.7	85.1	63.8	47.3	44.9
75°	119.3	65.0	59.1	67.3	56.7	72.1	60.3	42.5	29.5	28.4
77.5°	87.4	41.3	35.4	33.1	33.1	44.9	33.1	17.7	13.0	11.8
80°	61.4	18.9	16.5	14.2	13.0	10.6	4.7	2.4	1.2	1.2
82.5°	36.6	8.3	8.3	5.9	3.5	0.0	0.0	0.0	0.0	0.0
85°	8.3	3.5	3.5	1.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.2	1.2	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

(END OF REPORT)