

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: P459447

Luminaire Tested: **GALN-SA9A-735-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459447
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9A-735-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31607 lumens
Efficiency: N/A
Efficacy: 115.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

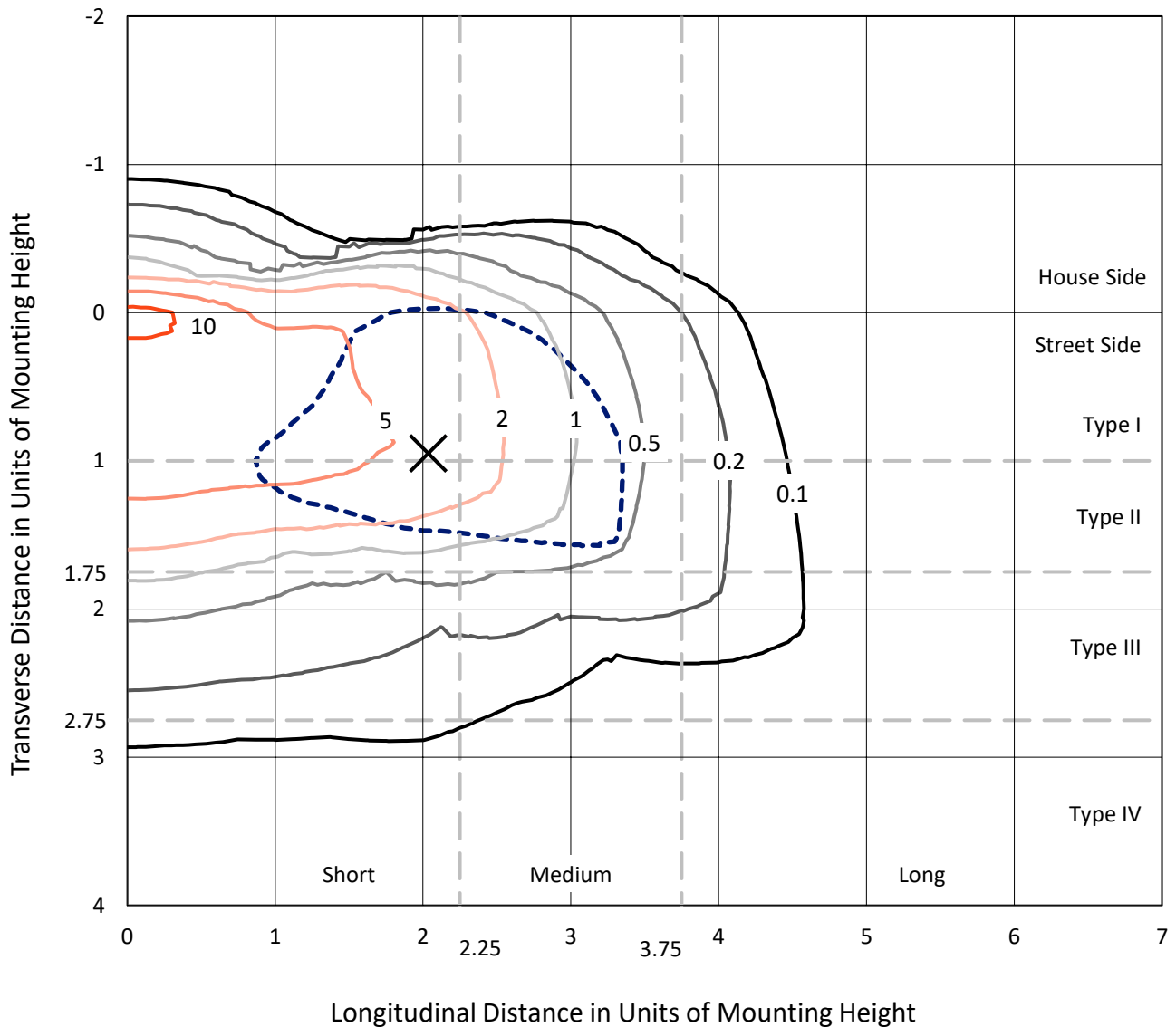
Input Watts (W): 274
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

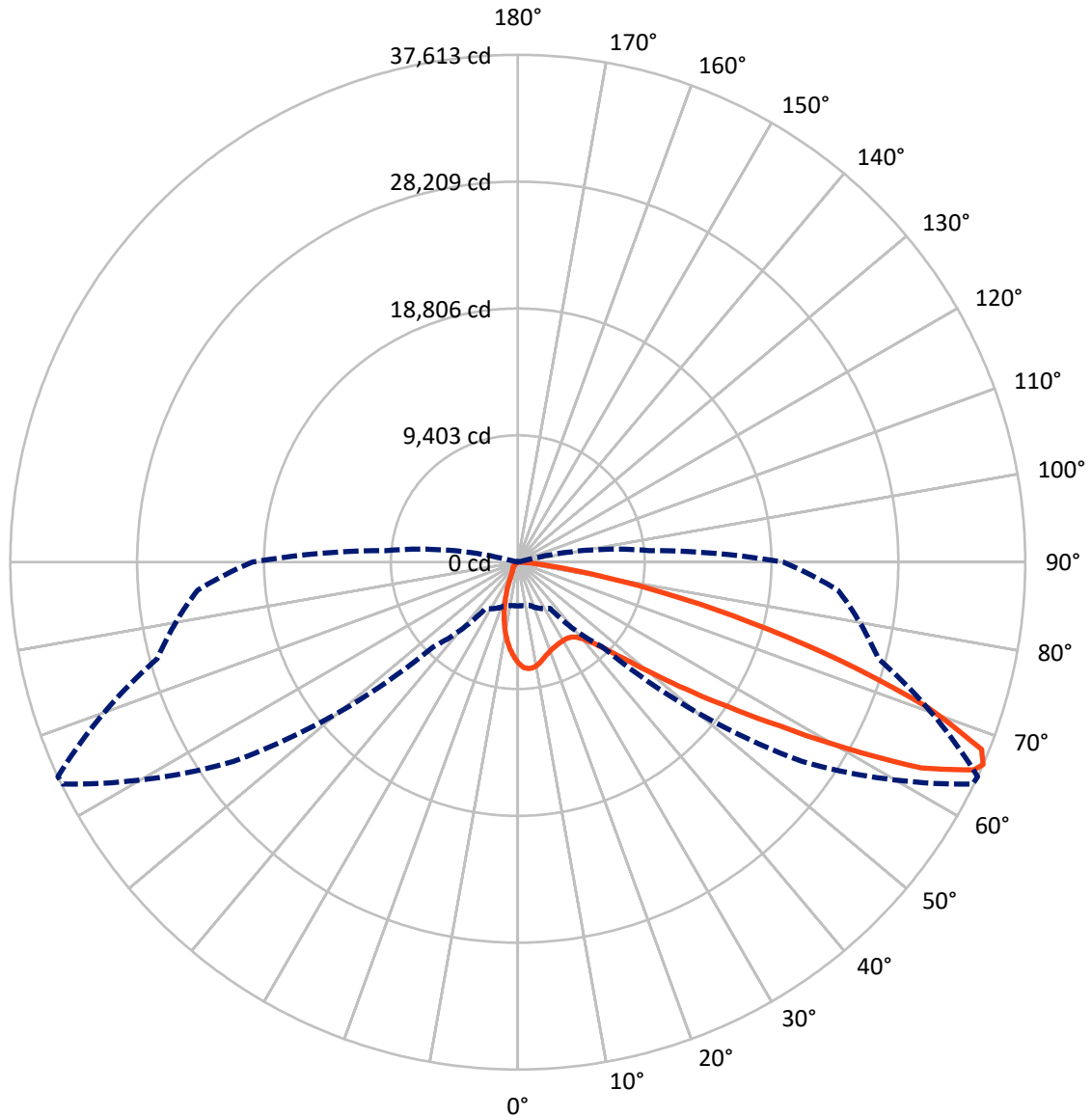
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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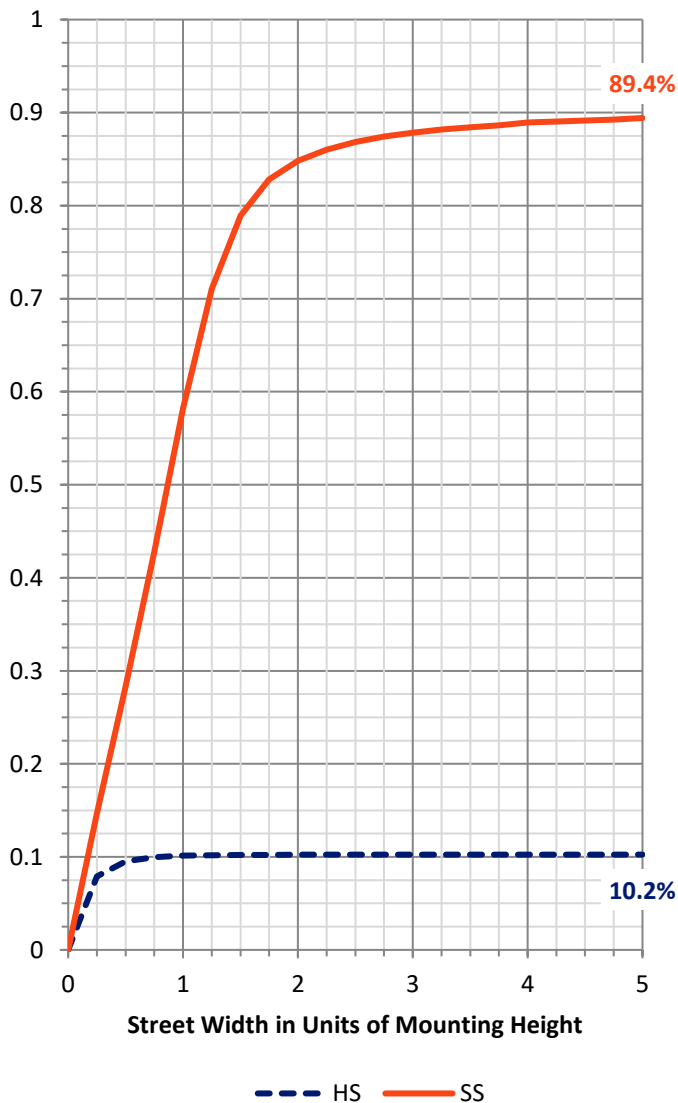
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3268.6	0.0	3268.6
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	28338.4	0.0	28338.4
	% Fixture	89.7	0.0	89.7
Total	Lumens	31607.0	0.0	31607.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	613.0	1.9
10°-20°	1335.6	4.2
20°-30°	1913.3	6.1
30°-40°	2794.5	8.8
40°-50°	4685.9	14.8
50°-60°	7820.0	24.7
60°-70°	8300.7	26.3
70°-80°	3759.4	11.9
80°-90°	384.7	1.2
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°	31607.0	100.0
0°-180°	31607.0	100.0

Coefficient of Utilization



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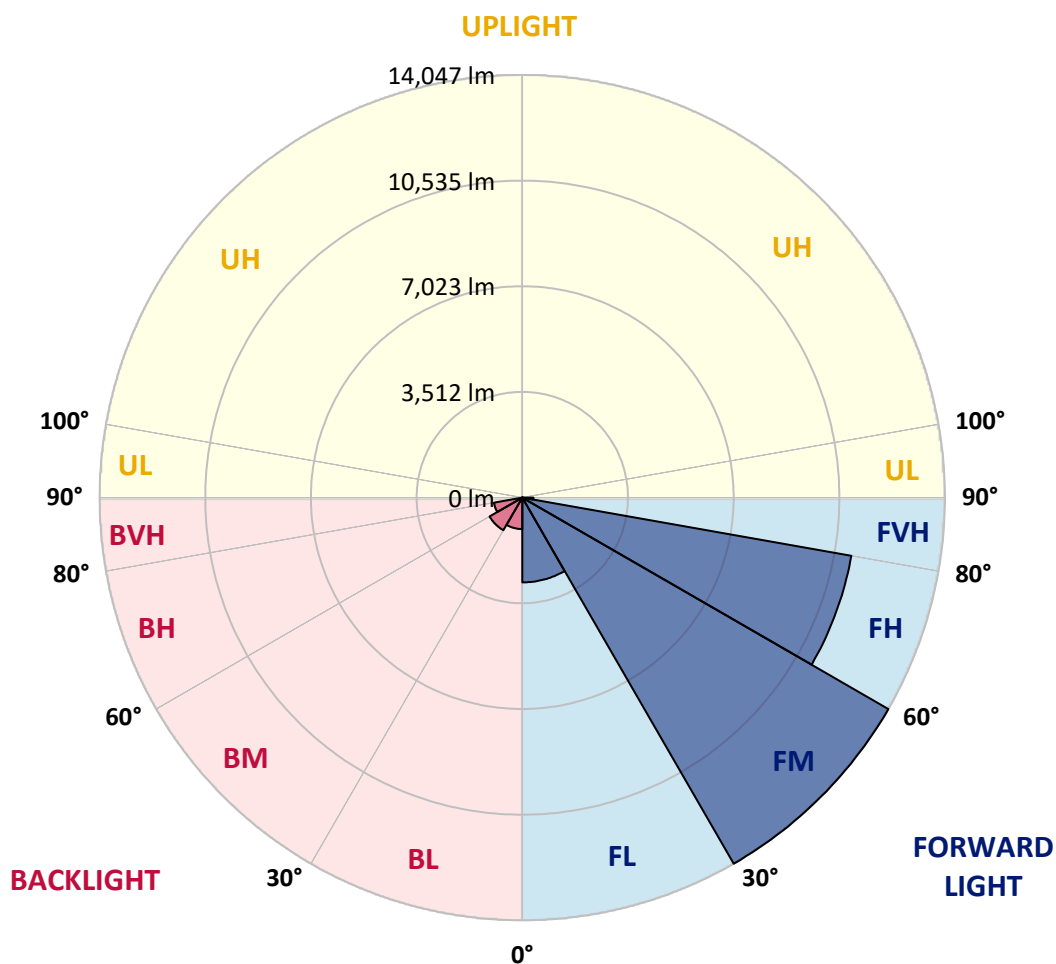
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2816.3	8.9			
FM	(30°-60°)	14046.9	44.4			
FH	(60°-80°)	11102.8	35.1			G4/12000
FVH	(80°-90°)	372.4	1.2			G3/500
BL	(0°-30°)	1045.6	3.3	B3/2500		
BM	(30°-60°)	1253.5	4.0	B2/2500		
BH	(60°-80°)	957.2	3.0	B2/1000		G2/1000
BVH	(80°-90°)	12.3	0.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	7495.2	7495.2	7495.2	7495.2	7495.2	7495.2	7495.2	7495.2	7495.2	7495.2	7495.2
2.5°	7898.7	7907.2	7917.9	7932.8	7943.5	7911.5	7866.6	7815.4	7804.7	7695.9	7563.5
5°	7476.0	7488.8	7582.7	7633.9	7749.2	7853.8	7920.0	7928.5	7924.3	7821.8	7610.5
7.5°	6874.0	6910.3	7002.1	7091.7	7307.3	7505.9	7740.7	7905.1	7915.7	7888.0	7625.4
10°	6385.1	6408.6	6455.6	6632.7	6812.1	7115.2	7444.0	7753.5	7779.1	7890.1	7612.6
12.5°	6003.0	6037.1	6094.8	6231.4	6447.0	6733.1	7106.7	7522.9	7576.3	7849.6	7576.3
15°	5736.1	5753.2	5810.9	5945.3	6154.5	6419.3	6797.1	7281.7	7328.7	7796.2	7569.9
17.5°	5610.2	5629.4	5670.0	5776.7	5949.6	6195.1	6564.4	7087.4	7147.2	7762.0	7593.4
20°	5644.3	5661.4	5663.6	5719.1	5836.5	6043.5	6393.6	6906.0	6982.8	7740.7	7631.8
22.5°	5838.6	5840.7	5815.1	5789.5	5830.1	5979.5	6289.0	6790.7	6869.7	7736.4	7676.6
25°	6128.9	6135.3	6092.6	6003.0	5921.9	5998.7	6265.6	6716.0	6786.4	7725.7	7704.4
27.5°	6530.3	6528.1	6515.3	6365.9	6135.3	6084.1	6284.8	6675.4	6735.2	7695.9	7715.1
30°	7091.7	7074.6	7046.9	6878.2	6526.0	6291.2	6365.9	6649.8	6705.3	7653.2	7687.3
32.5°	7644.6	7708.7	7704.4	7544.3	7104.5	6660.5	6534.5	6684.0	6724.5	7625.4	7646.8
35°	8289.3	8287.2	8451.6	8391.8	7877.3	7132.3	6822.7	6797.1	6829.1	7644.6	7627.5
37.5°	8887.1	8942.6	9198.7	9260.6	8791.0	7798.3	7230.5	7040.5	7051.2	7774.8	7674.5
40°	9632.1	9738.8	10121.0	10328.0	9913.9	8786.7	7832.5	7486.6	7488.8	8095.1	7851.7
42.5°	10592.7	10761.4	11117.9	11463.7	11241.7	9956.6	8735.5	8193.3	8189.0	8658.6	8257.3
45°	11760.5	11877.9	12283.5	12832.1	12691.2	11589.7	10050.5	9288.4	9232.9	9583.0	8976.7
47.5°	12768.1	12928.2	13340.2	13965.7	14606.1	13583.6	11621.7	10793.4	10757.1	11053.9	10210.6
50°	13207.8	13348.7	13782.1	14659.5	16211.5	16200.8	13961.4	12990.1	12928.2	13088.3	12119.1
52.5°	12725.4	12857.7	13295.4	14388.4	16967.2	19390.1	17351.4	15746.1	15671.4	15466.4	14399.0
55°	11073.1	11181.9	11828.8	13084.0	16676.8	21516.4	22022.3	19151.0	18860.7	18064.4	16980.0
57.5°	8816.6	8761.1	9162.4	10620.5	14973.3	22229.4	26817.0	23392.8	22874.1	20310.2	19163.9
60°	6109.7	6280.5	6442.7	7403.4	11258.8	20993.4	29799.3	28725.5	28042.4	22519.7	21255.9
62.5°	4491.6	4604.7	4711.4	5155.5	7078.9	16762.2	30326.6	34203.3	33597.0	24865.8	23251.9
65°	3552.3	3560.8	3603.5	4041.1	4664.5	10900.1	27792.6	37292.3	37136.5	27124.4	24061.0
66°	3236.3	3238.4	3304.6	3774.3	4186.3	8876.4	25762.4	37527.2	37612.6	27666.6	23824.1
67.5°	2828.6	2820.0	2916.1	3392.2	3812.7	6400.0	22129.0	36575.1	37081.0	28082.9	22972.3
70°	2192.4	2181.7	2299.1	2845.7	3511.7	4269.5	14708.6	31404.6	32220.1	27231.2	20325.2
72.5°	1460.2	1468.7	1669.4	2245.8	3351.6	3759.3	8848.6	23890.2	25043.0	22487.7	15989.4
75°	851.8	866.7	1095.1	1669.4	2909.7	3584.3	5008.2	17035.5	17772.0	15528.3	9960.8
77.5°	446.2	452.6	612.7	1101.5	2230.8	3328.1	3336.6	10883.1	11228.9	7546.4	3942.9
80°	237.0	230.6	328.8	663.9	1534.9	2922.5	2706.9	5761.8	5990.2	2241.5	996.9
82.5°	89.7	98.2	175.1	435.5	907.3	2098.5	2331.2	2546.8	2467.8	493.1	418.4
85°	17.1	21.3	74.7	258.3	456.8	877.4	1718.5	1248.8	1157.0	185.7	241.2
87.5°	2.1	4.3	21.3	61.9	66.2	296.7	508.1	345.8	298.9	68.3	100.3
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°	7495.2	7495.2	7495.2	7495.2	7495.2	7495.2	7495.2	7495.2	7495.2	7495.2	7495.2
2.5°	7499.5	7441.8	7249.7	7059.7	6865.4	6690.4	6570.8	6376.6	6327.5	6257.0	6216.5
5°	7484.5	7350.0	6980.7	6577.2	6201.5	5795.9	5486.4	5187.5	5027.4	4946.3	4916.4
7.5°	7441.8	7228.3	6652.0	6020.1	5418.1	4811.8	4284.5	3883.2	3624.8	3447.7	3328.1
10°	7356.4	7061.8	6269.8	5401.0	4491.6	3691.0	3022.8	2514.8	2122.0	1998.1	2002.4
12.5°	7268.9	6876.1	5842.9	4713.6	3586.4	2576.7	1867.9	1466.6	1278.7	1216.8	1204.0
15°	7187.8	6698.9	5424.5	4047.5	2670.6	1669.4	1204.0	1063.1	1011.9	1001.2	999.1
17.5°	7145.1	6534.5	4978.3	3285.4	1863.7	1133.6	964.9	926.5	911.5	900.9	896.6
20°	7108.8	6391.5	4551.3	2572.4	1274.5	928.6	864.6	828.3	802.7	792.0	785.6
22.5°	7083.2	6244.2	4109.4	1991.7	975.6	824.0	766.4	719.4	683.1	670.3	661.8
25°	7044.7	6082.0	3663.3	1455.9	821.9	732.2	666.0	610.5	563.6	540.1	535.8
27.5°	6989.2	5898.4	3174.4	1078.1	734.4	651.1	570.0	501.7	454.7	429.1	431.2
30°	6899.6	5706.2	2685.5	856.0	663.9	567.8	480.3	414.1	369.3	350.1	348.0
32.5°	6792.8	5473.6	2237.2	734.4	599.9	493.1	401.3	343.7	309.5	294.6	292.5
35°	6692.5	5238.7	1780.4	659.6	533.7	424.8	337.3	288.2	262.6	249.8	251.9
37.5°	6637.0	5029.5	1387.6	599.9	480.3	365.0	290.3	247.6	224.2	213.5	211.3
40°	6673.3	4858.7	1103.7	546.5	420.6	313.8	249.8	213.5	190.0	175.1	175.1
42.5°	6844.1	4784.0	890.2	495.3	365.0	271.1	217.7	183.6	158.0	143.0	145.2
45°	7365.0	4863.0	745.0	448.3	313.8	234.8	187.9	151.6	128.1	117.4	115.3
47.5°	8229.5	5159.7	644.7	399.2	269.0	200.7	158.0	126.0	102.5	93.9	91.8
50°	9741.0	5772.4	570.0	350.1	228.4	170.8	130.2	100.3	81.1	72.6	72.6
52.5°	11820.2	7108.8	516.6	294.6	192.1	145.2	106.7	81.1	64.0	57.6	55.5
55°	13993.4	8517.7	488.9	247.6	160.1	119.5	85.4	64.0	49.1	42.7	40.6
57.5°	16083.4	9623.6	456.8	200.7	128.1	91.8	66.2	49.1	34.2	29.9	27.8
60°	18087.9	10518.0	388.5	160.1	100.3	66.2	49.1	34.2	23.5	19.2	19.2
62.5°	19881.1	11038.9	305.3	128.1	76.9	47.0	32.0	25.6	17.1	12.8	12.8
65°	20090.3	10362.2	230.6	98.2	55.5	29.9	19.2	19.2	12.8	8.5	8.5
66°	19669.8	9787.9	202.8	89.7	49.1	25.6	17.1	14.9	10.7	6.4	6.4
67.5°	18730.5	8808.1	175.1	76.9	40.6	19.2	12.8	12.8	8.5	4.3	4.3
70°	16183.7	7194.2	138.8	57.6	29.9	14.9	8.5	8.5	6.4	4.3	4.3
72.5°	12334.7	5371.1	113.1	42.7	21.3	10.7	6.4	6.4	6.4	4.3	4.3
75°	7439.7	2892.6	87.5	32.0	19.2	8.5	4.3	6.4	8.5	6.4	4.3
77.5°	2741.0	984.1	68.3	25.6	14.9	8.5	4.3	4.3	8.5	6.4	6.4
80°	672.5	256.2	49.1	21.3	14.9	8.5	4.3	4.3	8.5	8.5	8.5
82.5°	311.7	108.9	34.2	19.2	14.9	8.5	4.3	4.3	6.4	8.5	8.5
85°	179.3	51.2	27.8	21.3	14.9	8.5	4.3	4.3	6.4	8.5	8.5
87.5°	72.6	25.6	25.6	21.3	17.1	10.7	4.3	4.3	4.3	6.4	6.4
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)