

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: P529506

Luminaire Tested: **GALN-SA4C-830-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529506
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-SA4C-830-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 1050mA 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: 18732 lumens
Efficiency: N/A
Efficacy: 87.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 213
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



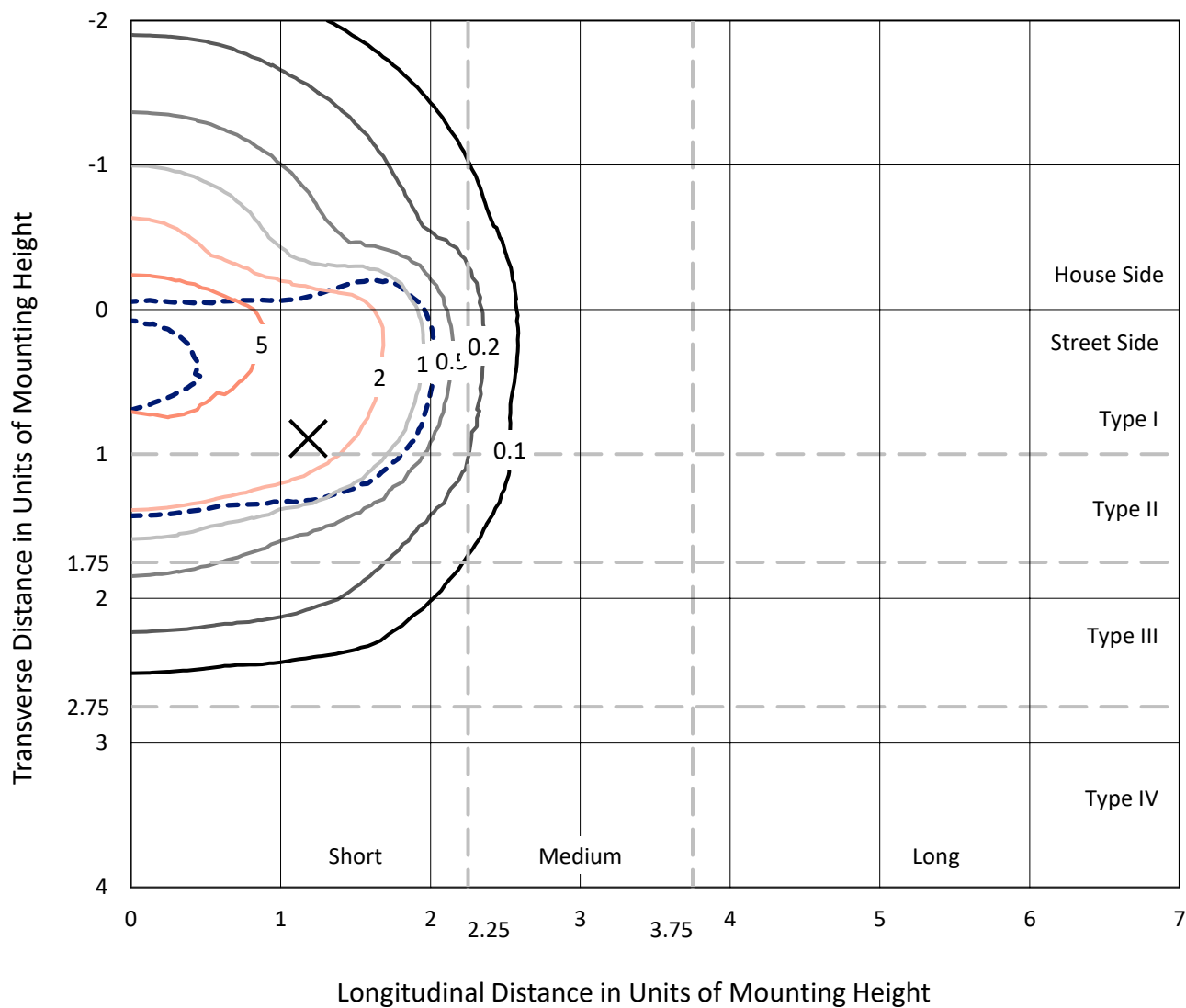
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

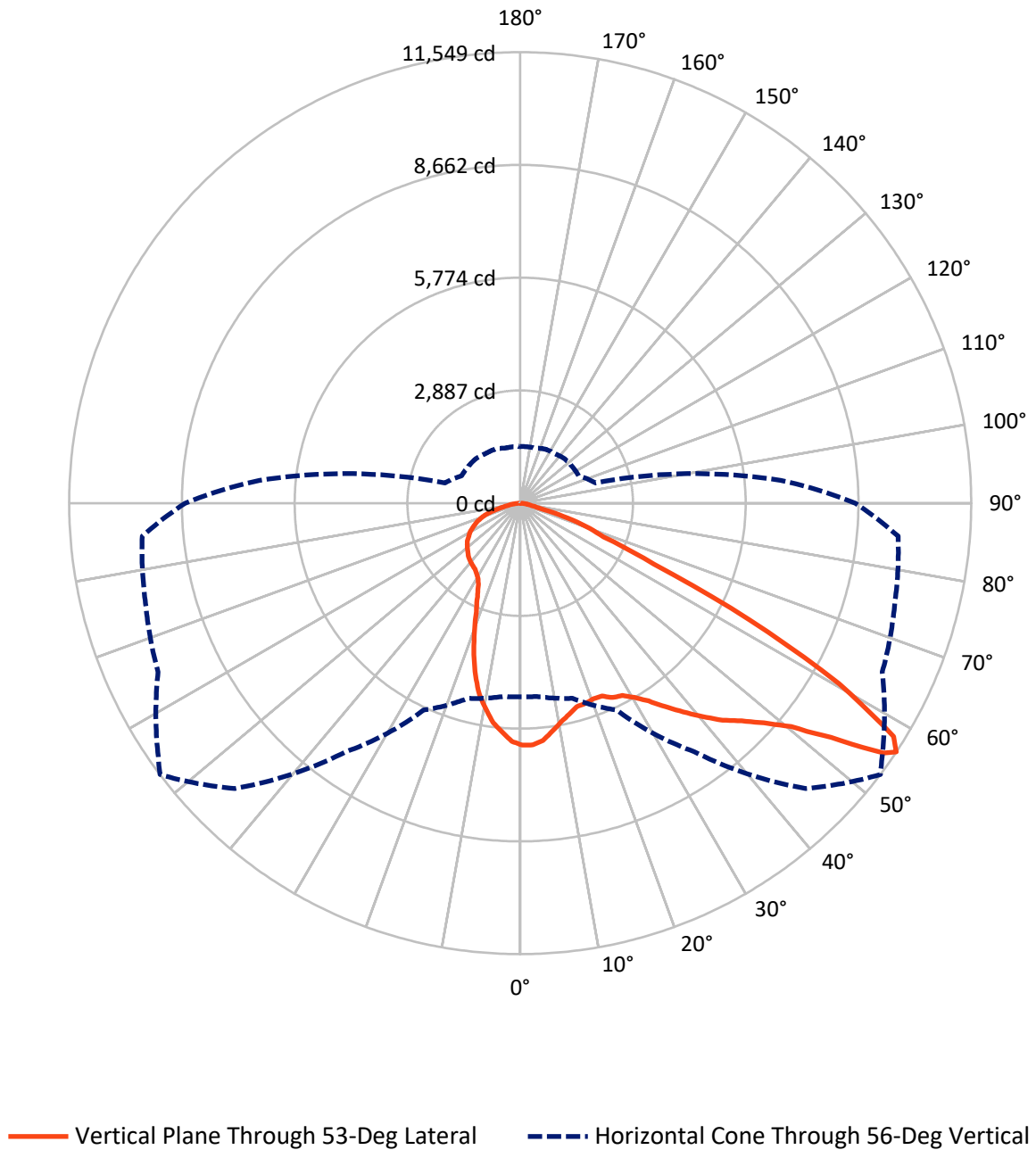


Based on 25 foot mounting height. Maximum calculated value = 9.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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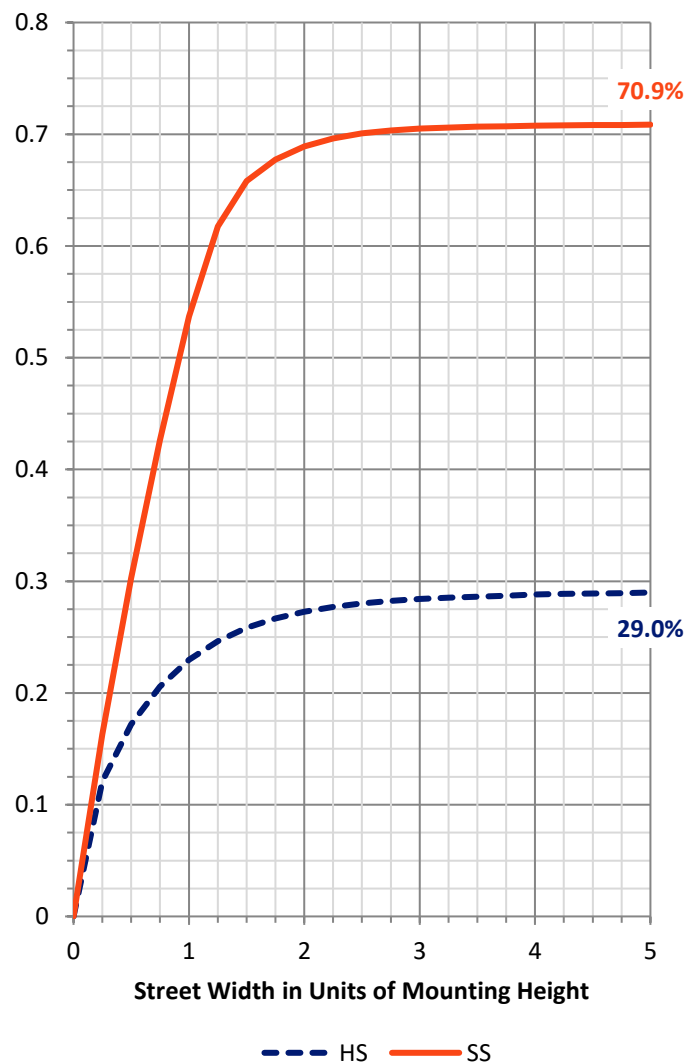
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5466.4	0.0	5466.4
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	13265.6	0.0	13265.6
	% Fixture	70.8	0.0	70.8
Total	Lumens	18732.0	0.0	18732.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	548.6	2.9
10°-20°	1370.3	7.3
20°-30°	2020.6	10.8
30°-40°	2887.0	15.4
40°-50°	3973.6	21.2
50°-60°	4695.7	25.1
60°-70°	2502.5	13.4
70°-80°	634.9	3.4
80°-90°	99.0	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°	18732.0	100.0
0°-180°	18732.0	100.0

Coefficient of Utilization



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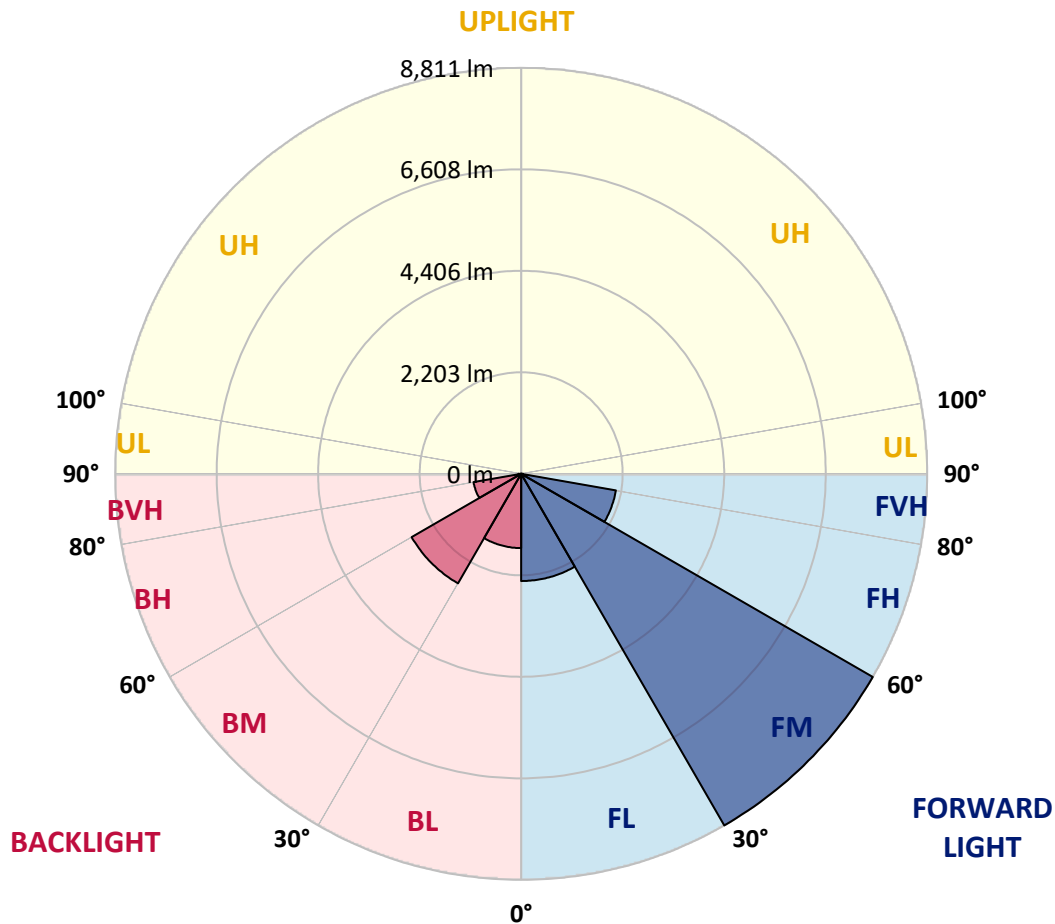
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2327.2	12.4			
FM	(30°-60°)	8811.2	47.0			
FH	(60°-80°)	2087.4	11.1			G2/5000
FVH	(80°-90°)	39.8	0.2			G1/100
BL	(0°-30°)	1612.3	8.6	B3/2500		
BM	(30°-60°)	2745.0	14.7	B3/5000		
BH	(60°-80°)	1049.9	5.6	B3/2500		G3/2500
BVH	(80°-90°)	59.2	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°	6197.3	6197.3	6197.3	6197.3	6197.3	6197.3	6197.3	6197.3	6197.3	6197.3	6197.3
2.5°	6120.4	6067.5	6098.8	6086.7	6185.3	6214.1	6199.7	6211.7	6267.0	6240.5	6185.3
5°	5719.1	5793.6	5808.0	5844.0	5901.7	6014.7	6103.6	6127.6	6154.0	6276.6	6264.6
7.5°	5353.8	5404.3	5377.9	5483.6	5608.6	5791.2	5899.3	5918.5	6161.2	6228.5	6279.0
10°	5123.2	5072.7	5192.8	5221.7	5363.4	5572.5	5702.3	5781.6	6002.6	6269.4	6300.6
12.5°	4909.3	4892.5	4964.6	5046.3	5204.9	5421.1	5553.3	5584.5	5925.7	6206.9	6353.5
15°	4750.7	4731.5	4803.6	4863.6	5048.7	5240.9	5409.1	5498.0	5841.6	6170.9	6307.8
17.5°	4625.7	4623.3	4664.2	4772.3	4962.2	5123.2	5394.7	5399.5	5798.4	6226.1	6346.3
20°	4618.5	4616.1	4623.3	4743.5	4916.5	5113.5	5349.0	5392.3	5798.4	6187.7	6348.7
22.5°	4678.6	4640.2	4683.4	4760.3	4885.3	5130.4	5365.9	5462.0	5937.8	6377.5	6456.8
25°	4774.7	4784.3	4808.4	4834.8	4906.9	5168.8	5514.8	5594.1	6101.2	6540.9	6605.8
27.5°	4950.1	4945.3	4954.9	4969.4	5031.8	5204.9	5574.9	5779.2	6442.4	6831.7	6766.8
30°	5207.3	5190.4	5228.9	5279.3	5221.7	5320.2	5774.4	5928.2	6759.6	7124.8	6947.0
32.5°	5440.3	5502.8	5574.9	5596.5	5526.9	5546.1	6038.7	6194.9	7023.9	7485.3	7168.1
35°	5731.1	5781.6	5877.7	5945.0	5933.0	5875.3	6399.1	6605.8	7406.0	7749.6	7401.2
37.5°	6014.7	6074.7	6233.3	6432.8	6322.2	6295.8	6783.6	6954.2	7523.7	7891.4	7571.8
40°	6471.2	6468.8	6742.8	6846.1	6944.6	6899.0	7182.5	7240.2	7586.2	7860.1	7576.6
42.5°	7007.1	6973.4	7252.2	7413.2	7540.5	7545.4	7598.2	7579.0	7615.0	7701.5	7526.1
45°	7516.5	7588.6	7869.8	8158.1	8285.5	8299.9	7949.1	7913.0	7665.5	7655.9	7430.0
47.5°	8138.9	8155.7	8386.4	8766.1	9061.6	8960.7	8403.2	8323.9	7886.6	7961.1	7591.0
50°	8174.9	8299.9	8506.5	8953.5	9861.8	9835.4	8991.9	8843.0	8242.2	8393.6	8040.4
52.5°	7420.4	7391.6	7636.7	8367.2	9801.8	10705.3	9967.6	9611.9	9006.4	8891.0	8768.5
55°	5654.2	5721.5	5937.8	6675.5	8511.4	10717.3	11296.4	11005.6	9823.4	9626.3	9484.6
56°	4959.7	4969.4	5173.6	5846.4	7766.4	10335.2	11548.7	11313.2	10229.5	9929.1	9712.8
57.5°	4111.5	4056.2	4162.0	4529.6	6555.3	9527.8	11272.4	11503.1	10705.3	10255.9	9955.5
60°	3236.8	3224.8	3181.5	3248.8	4142.7	7177.7	9383.6	9902.7	10657.2	9948.3	9535.0
62.5°	2643.3	2583.2	2669.7	2765.8	2878.8	4452.7	6593.8	6899.0	8460.9	7941.8	7163.3
65°	2049.7	2020.9	2129.0	2441.4	2508.7	2828.3	3755.9	3991.3	4995.8	4906.9	4320.6
67.5°	1410.5	1415.4	1509.1	1984.9	2326.1	2297.2	2299.7	2422.2	2607.2	1936.8	1686.9
70°	893.9	891.5	942.0	1278.4	1871.9	1891.1	1795.0	1759.0	1667.7	1009.3	1069.3
72.5°	574.3	557.5	583.9	706.5	968.4	1119.8	1153.4	1175.1	966.0	793.0	860.3
75°	324.4	307.6	298.0	329.2	382.1	442.1	485.4	499.8	559.9	600.7	636.8
77.5°	98.5	88.9	108.1	144.2	189.8	254.7	310.0	319.6	377.3	425.3	461.4
80°	43.3	48.1	67.3	96.1	134.6	180.2	218.7	233.1	271.5	307.6	317.2
82.5°	26.4	28.8	45.7	64.9	93.7	127.4	156.2	161.0	199.4	228.3	235.5
85°	9.6	12.0	24.0	38.4	60.1	81.7	81.7	88.9	81.7	81.7	88.9
87.5°	0.0	0.0	2.4	4.8	4.8	7.2	9.6	9.6	12.0	14.4	16.8
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°	6197.3	6197.3	6197.3	6197.3	6197.3	6197.3	6197.3	6197.3	6197.3	6197.3	6197.3
2.5°	6214.1	6202.1	6182.9	6113.2	6106.0	6084.3	5964.2	5945.0	5964.2	5906.5	5911.3
5°	6202.1	6238.1	6094.0	6024.3	5894.5	5800.8	5692.7	5637.4	5538.9	5476.4	5546.1
7.5°	6255.0	6240.5	6060.3	5908.9	5714.3	5476.4	5286.6	5178.4	5005.4	4957.3	4993.4
10°	6235.7	6158.8	5947.4	5747.9	5380.3	5171.2	4863.6	4565.7	4402.3	4318.2	4306.1
12.5°	6209.3	6187.7	5834.4	5490.8	5103.9	4664.2	4231.6	3950.5	3683.8	3568.4	3585.2
15°	6240.5	6057.9	5623.0	5188.0	4673.8	4097.1	3630.9	3268.1	3083.0	3008.5	3008.5
17.5°	6226.1	5995.4	5522.0	4849.2	4198.0	3515.6	3003.7	2785.1	2708.2	2708.2	2729.8
20°	6233.3	6036.3	5317.8	4510.4	3635.7	2960.5	2588.0	2508.7	2542.4	2554.4	2566.4
22.5°	6274.2	5901.7	5118.3	4137.9	3114.3	2532.7	2350.1	2352.5	2412.6	2477.5	2465.5
25°	6324.6	5848.9	4875.6	3767.9	2715.4	2323.7	2266.0	2258.8	2304.5	2338.1	2342.9
27.5°	6281.4	5757.5	4628.1	3306.5	2388.6	2184.3	2172.3	2177.1	2191.5	2258.8	2237.2
30°	6423.2	5784.0	4318.2	2919.6	2208.3	2138.7	2124.2	2117.0	2138.7	2157.9	2141.1
32.5°	6598.6	5690.3	4087.5	2547.2	2119.4	2105.0	2076.2	2066.6	2078.6	2059.4	2069.0
35°	6675.5	5673.4	3787.1	2280.4	2049.7	2037.7	2020.9	2018.5	2020.9	2004.1	1989.7
37.5°	6718.7	5752.7	3443.5	2157.9	2006.5	2018.5	1980.1	1975.2	1932.0	1941.6	1948.8
40°	6793.2	5630.2	3164.7	2040.1	1980.1	1956.0	1922.4	1915.2	1886.3	1869.5	1886.3
42.5°	6685.1	5594.1	2890.8	1989.7	1941.6	1915.2	1891.1	1850.3	1840.7	1826.3	1816.7
45°	6598.6	5387.5	2645.7	1927.2	1896.0	1881.5	1835.9	1792.6	1756.6	1771.0	1749.4
47.5°	6663.5	5315.4	2403.0	1874.3	1833.5	1816.7	1771.0	1737.4	1701.3	1684.5	1679.7
50°	6923.0	5450.0	2198.7	1835.9	1780.6	1771.0	1710.9	1672.5	1638.8	1626.8	1631.6
52.5°	7543.0	5817.6	2059.4	1756.6	1730.1	1686.9	1653.2	1605.2	1583.6	1545.1	1569.1
55°	8328.7	6416.0	2023.3	1682.1	1667.7	1629.2	1583.6	1547.5	1506.7	1475.4	1468.2
56°	8581.0	6701.9	1994.5	1653.2	1629.2	1607.6	1547.5	1525.9	1461.0	1453.8	1449.0
57.5°	8785.3	6954.2	1999.3	1598.0	1574.0	1554.7	1518.7	1465.8	1422.6	1396.1	1408.1
60°	8323.9	6509.7	1908.0	1513.9	1509.1	1473.0	1422.6	1398.5	1345.7	1314.4	1307.2
62.5°	6187.7	4419.1	1547.5	1405.7	1403.3	1364.9	1307.2	1280.8	1271.2	1227.9	1227.9
65°	3563.6	2770.6	1338.5	1316.8	1297.6	1259.2	1201.5	1179.9	1155.8	1141.4	1129.4
67.5°	1521.1	1437.0	1215.9	1213.5	1191.9	1143.8	1086.1	1052.5	1021.3	992.4	1006.8
70°	1103.0	1119.8	1098.2	1086.1	1059.7	999.6	949.2	908.3	860.3	841.0	855.5
72.5°	874.7	910.7	942.0	944.4	913.1	843.4	788.2	732.9	680.0	653.6	665.6
75°	663.2	687.3	718.5	725.7	680.0	632.0	579.1	521.4	480.6	449.4	454.2
77.5°	478.2	473.4	502.2	497.4	475.8	442.1	394.1	341.2	295.6	266.7	269.1
80°	326.8	334.0	350.8	348.4	322.0	300.4	264.3	221.1	187.4	163.4	158.6
82.5°	228.3	240.3	254.7	242.7	221.1	199.4	173.0	141.8	115.3	96.1	91.3
85°	81.7	93.7	108.1	115.3	122.6	117.7	98.5	79.3	57.7	48.1	45.7
87.5°	16.8	19.2	21.6	21.6	21.6	19.2	16.8	16.8	14.4	7.2	7.2
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)