

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: P530910

Luminaire Tested: **GALN-SA6A-830-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530910
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-SA6A-830-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 615mA 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: 18265 lumens
Efficiency: N/A
Efficacy: 100.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 182
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

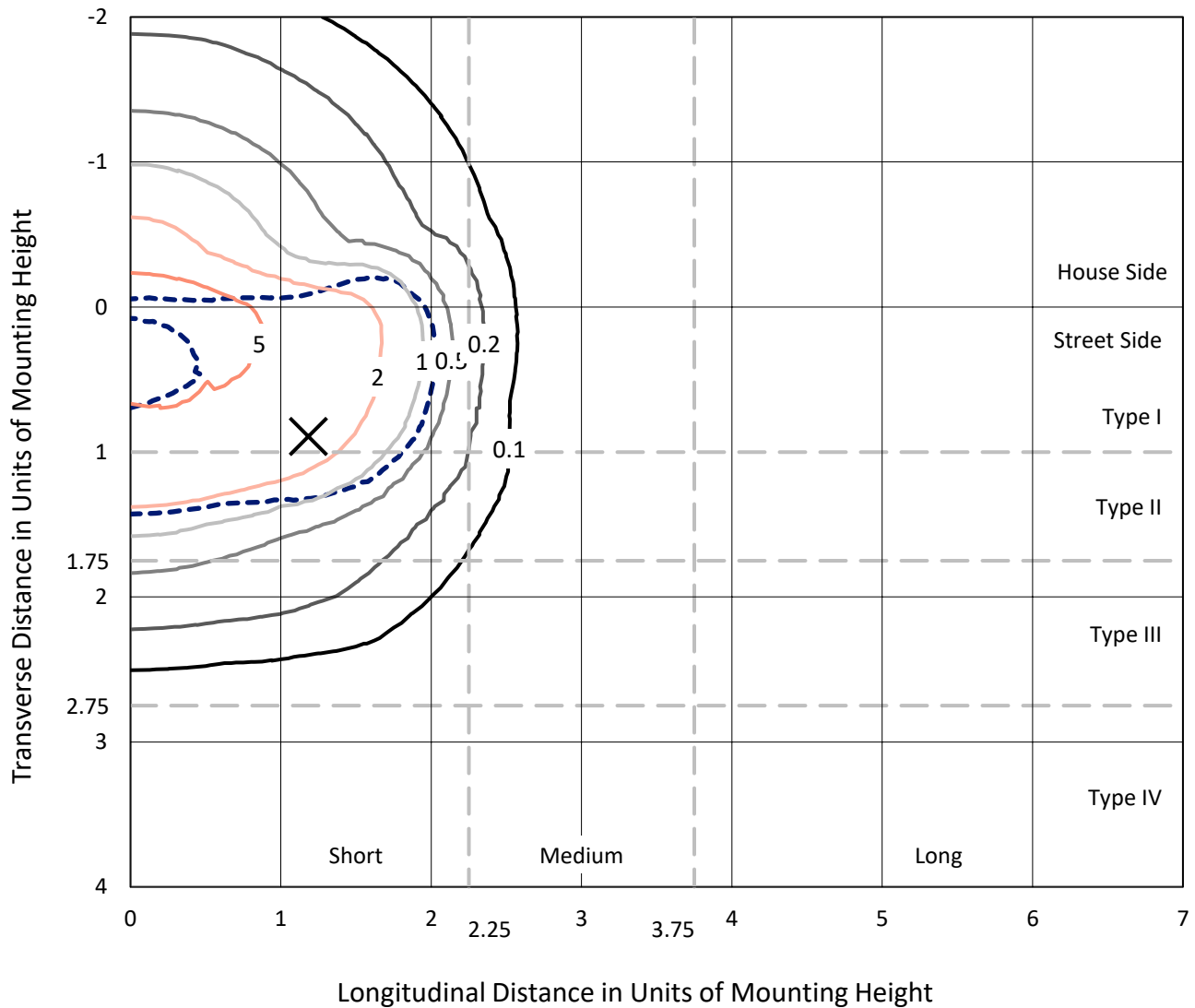


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Iso-Footcandle Lines of Horizontal Illumination

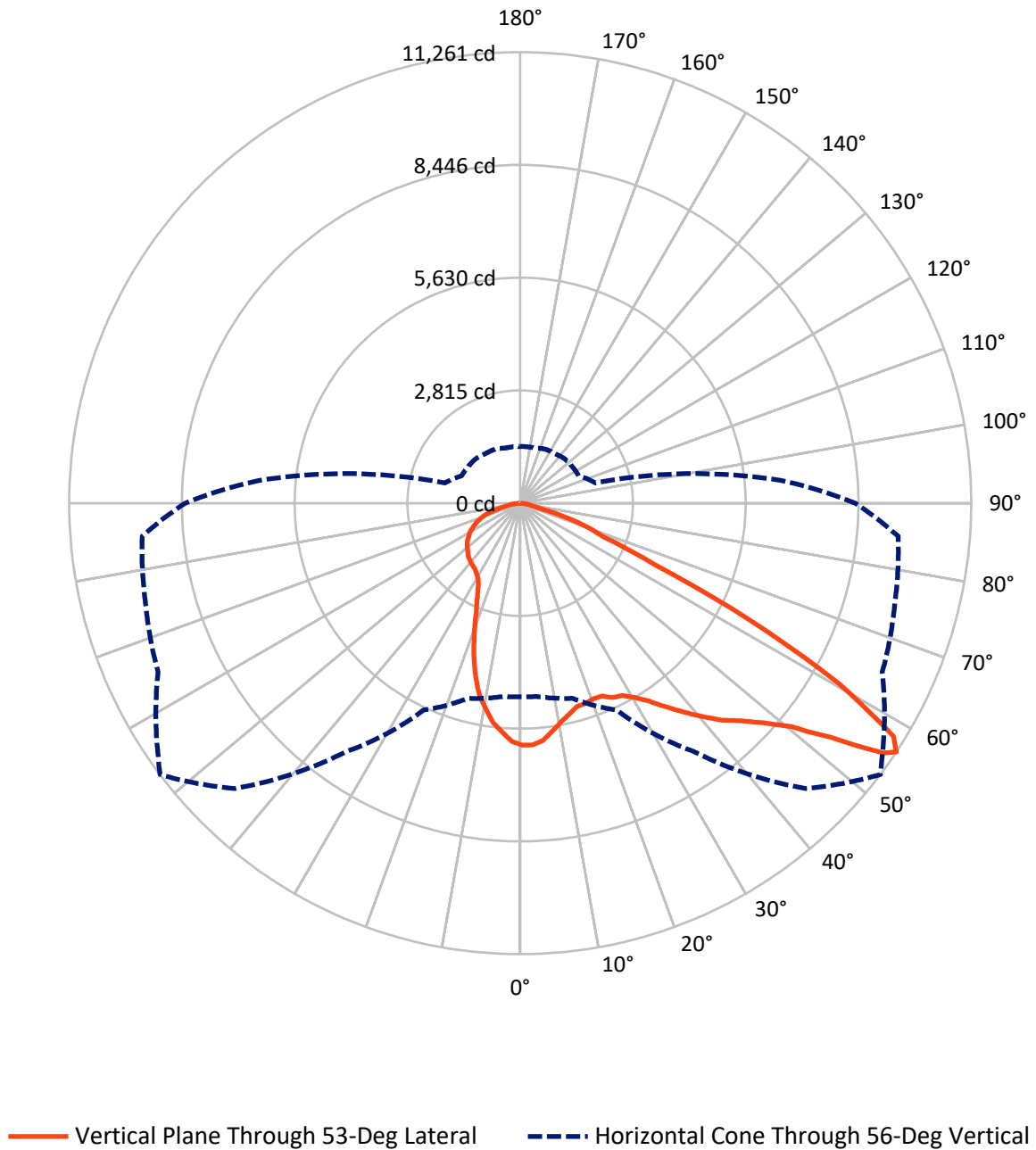
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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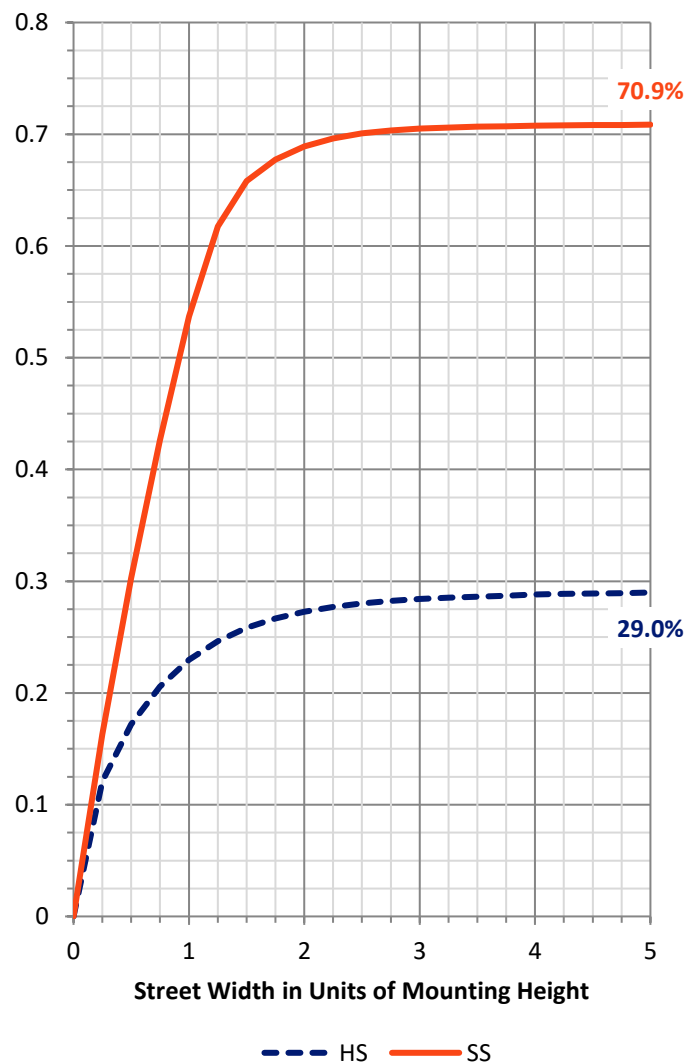
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5330.1	0.0	5330.1
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	12934.9	0.0	12934.9
	% Fixture	70.8	0.0	70.8
Total	Lumens	18265.0	0.0	18265.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	535.0	2.9
10°-20°	1336.1	7.3
20°-30°	1970.2	10.8
30°-40°	2815.0	15.4
40°-50°	3874.5	21.2
50°-60°	4578.6	25.1
60°-70°	2440.1	13.4
70°-80°	619.0	3.4
80°-90°	96.5	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°	18265.0	100.0
0°-180°	18265.0	100.0

Coefficient of Utilization



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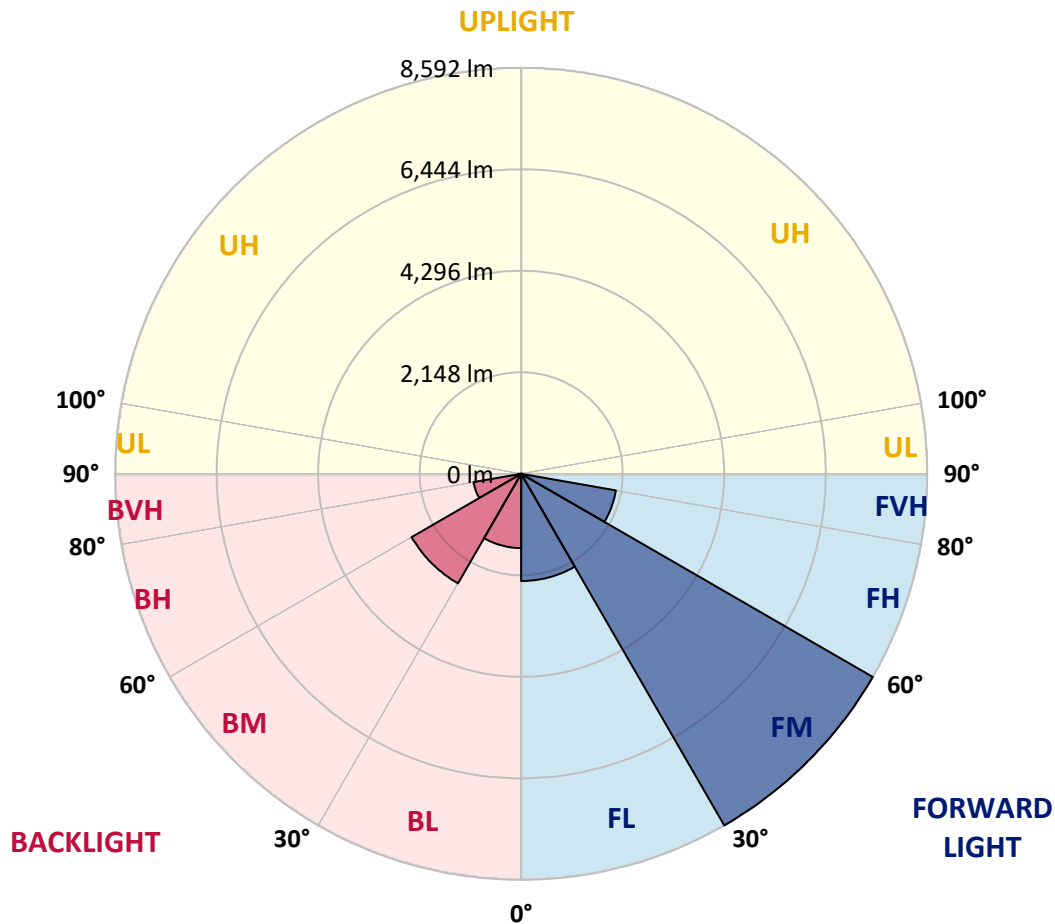
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2269.2	12.4			
FM	(30°-60°)	8591.5	47.0			
FH	(60°-80°)	2035.4	11.1			G2/5000
FVH	(80°-90°)	38.8	0.2			G1/100
BL	(0°-30°)	1572.1	8.6	B3/2500		
BM	(30°-60°)	2676.6	14.7	B3/5000		
BH	(60°-80°)	1023.7	5.6	B3/2500		G3/2500
BVH	(80°-90°)	57.7	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°	6042.8	6042.8	6042.8	6042.8	6042.8	6042.8	6042.8	6042.8	6042.8	6042.8	6042.8
2.5°	5967.8	5916.3	5946.7	5935.0	6031.1	6059.2	6045.1	6056.8	6110.7	6085.0	6031.1
5°	5576.5	5649.1	5663.2	5698.4	5754.6	5864.7	5951.4	5974.8	6000.6	6120.1	6108.4
7.5°	5220.4	5269.6	5243.8	5346.9	5468.7	5646.8	5752.2	5771.0	6007.6	6073.2	6122.4
10°	4995.4	4946.2	5063.4	5091.5	5229.7	5433.6	5560.1	5637.4	5853.0	6113.1	6143.5
12.5°	4786.9	4770.5	4840.8	4920.5	5075.1	5286.0	5414.8	5445.3	5778.0	6052.2	6195.1
15°	4632.3	4613.5	4683.8	4742.4	4922.8	5110.2	5274.3	5360.9	5696.0	6017.0	6150.6
17.5°	4510.4	4508.1	4547.9	4653.3	4838.4	4995.4	5260.2	5264.9	5653.8	6070.9	6188.1
20°	4503.4	4501.0	4508.1	4625.2	4793.9	4986.1	5215.7	5257.9	5653.8	6033.4	6190.4
22.5°	4562.0	4524.5	4566.6	4641.6	4763.5	5002.5	5232.1	5325.8	5789.7	6218.5	6295.8
25°	4655.7	4665.1	4688.5	4714.3	4784.6	5039.9	5377.3	5454.7	5949.1	6377.8	6441.1
27.5°	4826.7	4822.0	4831.4	4845.5	4906.4	5075.1	5435.9	5635.1	6281.8	6661.4	6598.1
30°	5077.4	5061.0	5098.5	5147.7	5091.5	5187.6	5630.4	5780.4	6591.1	6947.2	6773.8
32.5°	5304.7	5365.6	5435.9	5457.0	5389.1	5407.8	5888.1	6040.4	6848.8	7298.7	6989.4
35°	5588.2	5637.4	5731.2	5796.8	5785.0	5728.8	6239.6	6441.1	7221.3	7556.4	7216.7
37.5°	5864.7	5923.3	6077.9	6272.4	6164.6	6138.8	6614.5	6780.8	7336.2	7694.6	7383.0
40°	6309.9	6307.5	6574.7	6675.4	6771.5	6727.0	7003.4	7059.7	7397.1	7664.2	7387.7
42.5°	6832.4	6799.6	7071.4	7228.4	7352.6	7357.2	7408.8	7390.0	7425.2	7509.5	7338.5
45°	7329.1	7399.4	7673.6	7954.7	8078.9	8093.0	7750.9	7715.7	7474.4	7465.0	7244.8
47.5°	7936.0	7952.4	8177.3	8547.5	8835.7	8737.3	8193.7	8116.4	7690.0	7762.6	7401.8
50°	7971.1	8093.0	8294.5	8730.3	9616.0	9590.2	8767.8	8622.5	8036.7	8184.3	7839.9
52.5°	7235.4	7207.3	7446.3	8158.6	9557.4	10438.4	9719.1	9372.3	8781.8	8669.4	8549.9
55°	5513.2	5578.9	5789.7	6509.1	8299.2	10450.1	11014.8	10731.3	9578.5	9386.3	9248.1
56°	4836.1	4845.5	5044.6	5700.7	7572.8	10077.6	11260.8	11031.2	9974.5	9681.6	9470.7
57.5°	4009.0	3955.1	4058.2	4416.7	6391.9	9290.3	10991.3	11216.3	10438.4	10000.2	9707.3
60°	3156.1	3144.4	3102.2	3167.8	4039.5	6998.8	9149.7	9655.8	10391.5	9700.3	9297.3
62.5°	2577.4	2518.8	2603.2	2696.9	2807.0	4341.7	6429.4	6727.0	8250.0	7743.9	6984.7
65°	1998.6	1970.5	2076.0	2380.6	2446.2	2757.8	3662.2	3891.8	4871.2	4784.6	4212.8
67.5°	1375.4	1380.1	1471.4	1935.4	2268.1	2240.0	2242.3	2361.8	2542.2	1888.5	1644.8
70°	871.6	869.3	918.5	1246.5	1825.3	1844.0	1750.3	1715.1	1626.1	984.1	1042.7
72.5°	560.0	543.6	569.4	688.9	944.3	1091.9	1124.7	1145.8	941.9	773.2	838.8
75°	316.3	299.9	290.5	321.0	372.5	431.1	473.3	487.4	545.9	585.8	620.9
77.5°	96.1	86.7	105.4	140.6	185.1	248.4	302.3	311.6	367.9	414.7	449.9
80°	42.2	46.9	65.6	93.7	131.2	175.7	213.2	227.3	264.8	299.9	309.3
82.5°	25.8	28.1	44.5	63.3	91.4	124.2	152.3	157.0	194.5	222.6	229.6
85°	9.4	11.7	23.4	37.5	58.6	79.7	79.7	86.7	79.7	79.7	86.7
87.5°	0.0	0.0	2.3	4.7	4.7	7.0	9.4	9.4	11.7	14.1	16.4
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°	6042.8	6042.8	6042.8	6042.8	6042.8	6042.8	6042.8	6042.8	6042.8	6042.8	6042.8
2.5°	6059.2	6047.5	6028.7	5960.8	5953.7	5932.7	5815.5	5796.8	5815.5	5759.3	5764.0
5°	6047.5	6082.6	5942.0	5874.1	5747.6	5656.2	5550.7	5496.8	5400.8	5339.9	5407.8
7.5°	6099.0	6085.0	5909.2	5761.6	5571.8	5339.9	5154.8	5049.3	4880.6	4833.8	4868.9
10°	6080.3	6005.3	5799.1	5604.6	5246.1	5042.3	4742.4	4451.8	4292.5	4210.5	4198.8
12.5°	6054.5	6033.4	5689.0	5353.9	4976.7	4547.9	4126.1	3852.0	3591.9	3479.5	3495.9
15°	6085.0	5906.9	5482.8	5058.7	4557.3	3994.9	3540.4	3186.6	3006.2	2933.5	2933.5
17.5°	6070.9	5846.0	5384.4	4728.3	4093.3	3427.9	2928.8	2715.6	2640.6	2640.6	2661.7
20°	6077.9	5885.8	5185.2	4397.9	3545.1	2886.7	2523.5	2446.2	2479.0	2490.7	2502.4
22.5°	6117.8	5754.6	4990.7	4034.8	3036.6	2469.6	2291.5	2293.9	2352.4	2415.7	2404.0
25°	6167.0	5703.0	4754.1	3673.9	2647.7	2265.8	2209.5	2202.5	2247.0	2279.8	2284.5
27.5°	6124.8	5614.0	4512.8	3224.1	2329.0	2129.9	2118.1	2122.8	2136.9	2202.5	2181.4
30°	6263.0	5639.8	4210.5	2846.8	2153.3	2085.3	2071.3	2064.2	2085.3	2104.1	2087.7
32.5°	6434.1	5548.4	3985.6	2483.7	2066.6	2052.5	2024.4	2015.0	2026.8	2008.0	2017.4
35°	6509.1	5532.0	3692.7	2223.6	1998.6	1986.9	1970.5	1968.2	1970.5	1954.1	1940.1
37.5°	6551.2	5609.3	3357.6	2104.1	1956.5	1968.2	1930.7	1926.0	1883.8	1893.2	1900.2
40°	6623.9	5489.8	3085.8	1989.3	1930.7	1907.3	1874.5	1867.4	1839.3	1822.9	1839.3
42.5°	6518.4	5454.7	2818.7	1940.1	1893.2	1867.4	1844.0	1804.2	1794.8	1780.7	1771.4
45°	6434.1	5253.2	2579.7	1879.1	1848.7	1834.6	1790.1	1747.9	1712.8	1726.8	1705.8
47.5°	6497.3	5182.9	2343.1	1827.6	1787.8	1771.4	1726.8	1694.0	1658.9	1642.5	1637.8
50°	6750.4	5314.1	2143.9	1790.1	1736.2	1726.8	1668.3	1630.8	1598.0	1586.3	1590.9
52.5°	7354.9	5672.6	2008.0	1712.8	1687.0	1644.8	1612.0	1565.2	1544.1	1506.6	1530.0
55°	8121.1	6256.0	1972.9	1640.2	1626.1	1588.6	1544.1	1508.9	1469.1	1438.6	1431.6
56°	8367.1	6534.8	1944.7	1612.0	1588.6	1567.5	1508.9	1487.9	1424.6	1417.6	1412.9
57.5°	8566.3	6780.8	1949.4	1558.1	1534.7	1516.0	1480.8	1429.3	1387.1	1361.3	1373.0
60°	8116.4	6347.4	1860.4	1476.1	1471.4	1436.3	1387.1	1363.7	1312.1	1281.7	1274.6
62.5°	6033.4	4308.9	1508.9	1370.7	1368.4	1330.9	1274.6	1248.9	1239.5	1197.3	1197.3
65°	3474.8	2701.6	1305.1	1284.0	1265.3	1227.8	1171.5	1150.4	1127.0	1113.0	1101.2
67.5°	1483.2	1401.2	1185.6	1183.3	1162.2	1115.3	1059.1	1026.3	995.8	967.7	981.7
70°	1075.5	1091.9	1070.8	1059.1	1033.3	974.7	925.5	885.7	838.8	820.1	834.1
72.5°	852.9	888.0	918.5	920.8	890.4	822.4	768.5	714.6	663.1	637.3	649.0
75°	646.7	670.1	700.6	707.6	663.1	616.2	564.7	508.4	468.6	438.2	442.8
77.5°	466.3	461.6	489.7	485.0	463.9	431.1	384.3	332.7	288.2	260.1	262.4
80°	318.7	325.7	342.1	339.7	314.0	292.9	257.7	215.6	182.8	159.3	154.6
82.5°	222.6	234.3	248.4	236.7	215.6	194.5	168.7	138.2	112.5	93.7	89.0
85°	79.7	91.4	105.4	112.5	119.5	114.8	96.1	77.3	56.2	46.9	44.5
87.5°	16.4	18.7	21.1	21.1	21.1	18.7	16.4	16.4	14.1	7.0	7.0
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)