

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: P531389

Luminaire Tested: **GALN-SA6C-830-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531389
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6C-830-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19783 lumens
Efficiency: N/A
Efficacy: 61.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

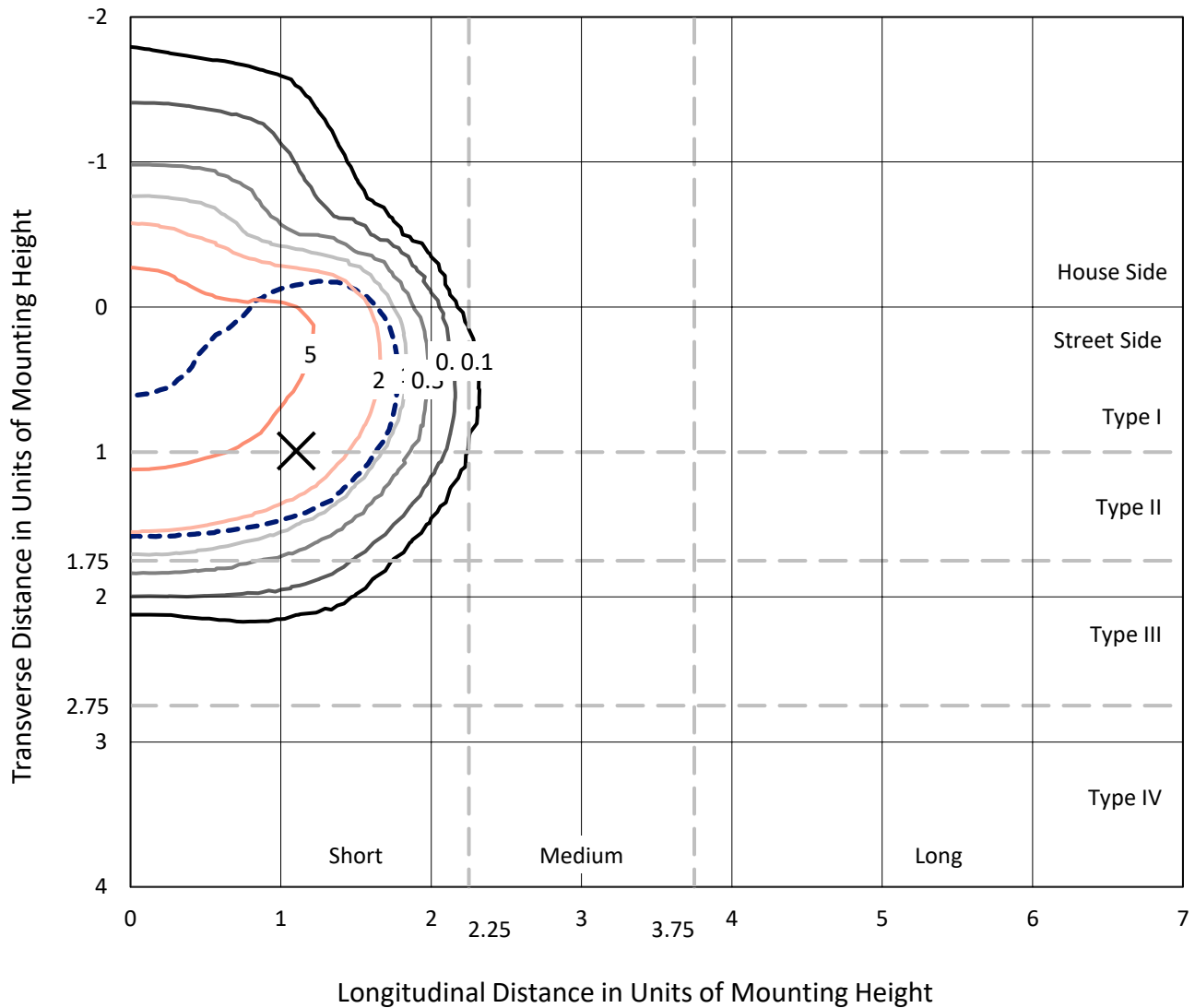
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

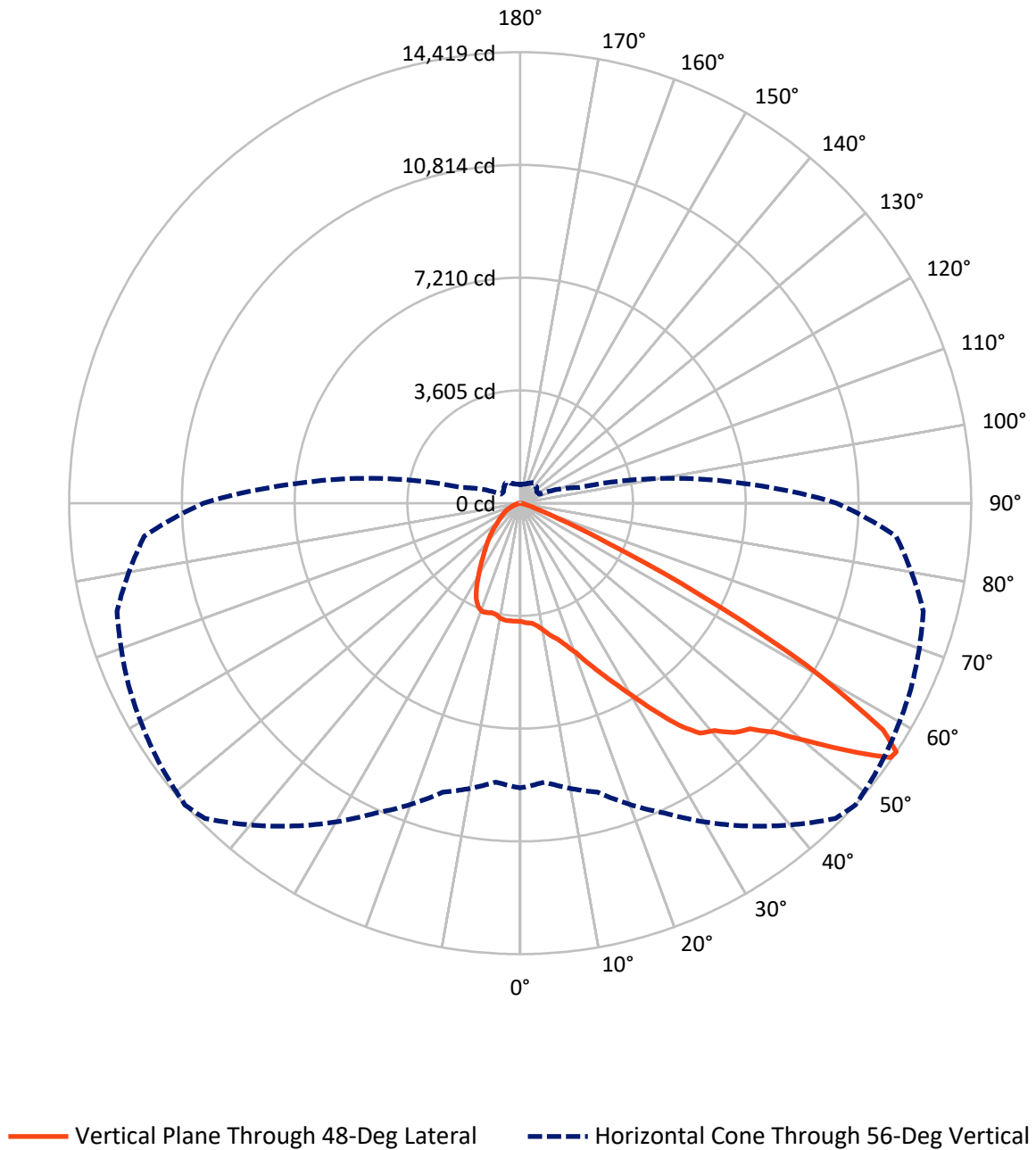
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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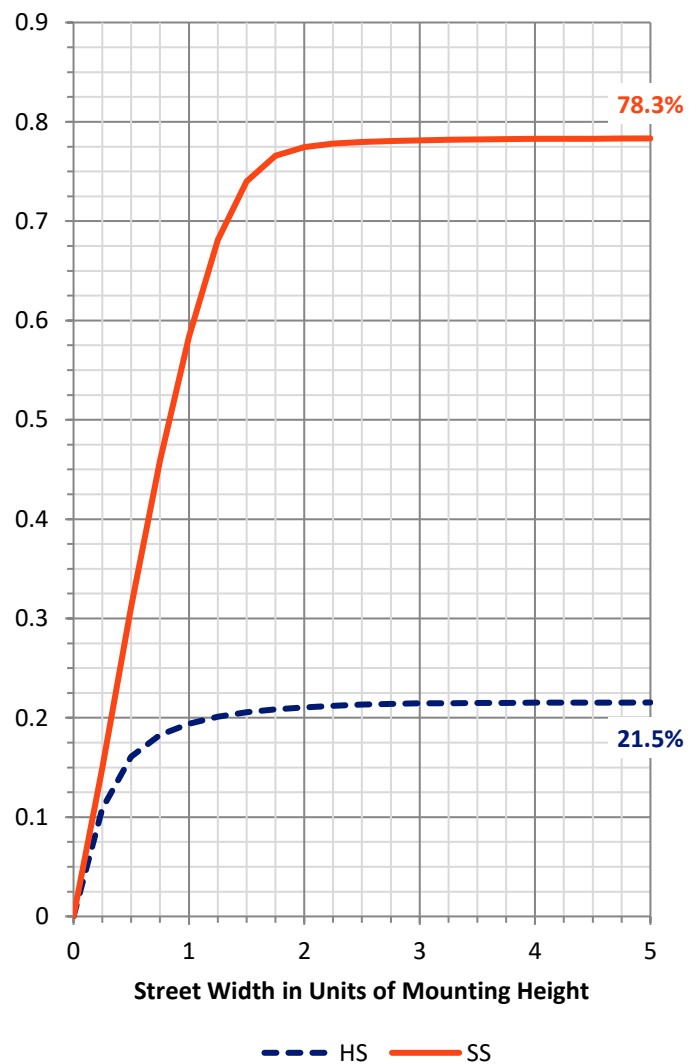
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4302.4	0.0	4302.4
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	15480.6	0.0	15480.6
	% Fixture	78.3	0.0	78.3
Total	Lumens	19783.0	0.0	19783.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	368.1	1.9
10°-20°	1176.3	5.9
20°-30°	2133.6	10.8
30°-40°	3351.4	16.9
40°-50°	4889.1	24.7
50°-60°	5890.4	29.8
60°-70°	1724.7	8.7
70°-80°	218.8	1.1
80°-90°	30.7	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°	19783.0	100.0
0°-180°	19783.0	100.0

Coefficient of Utilization



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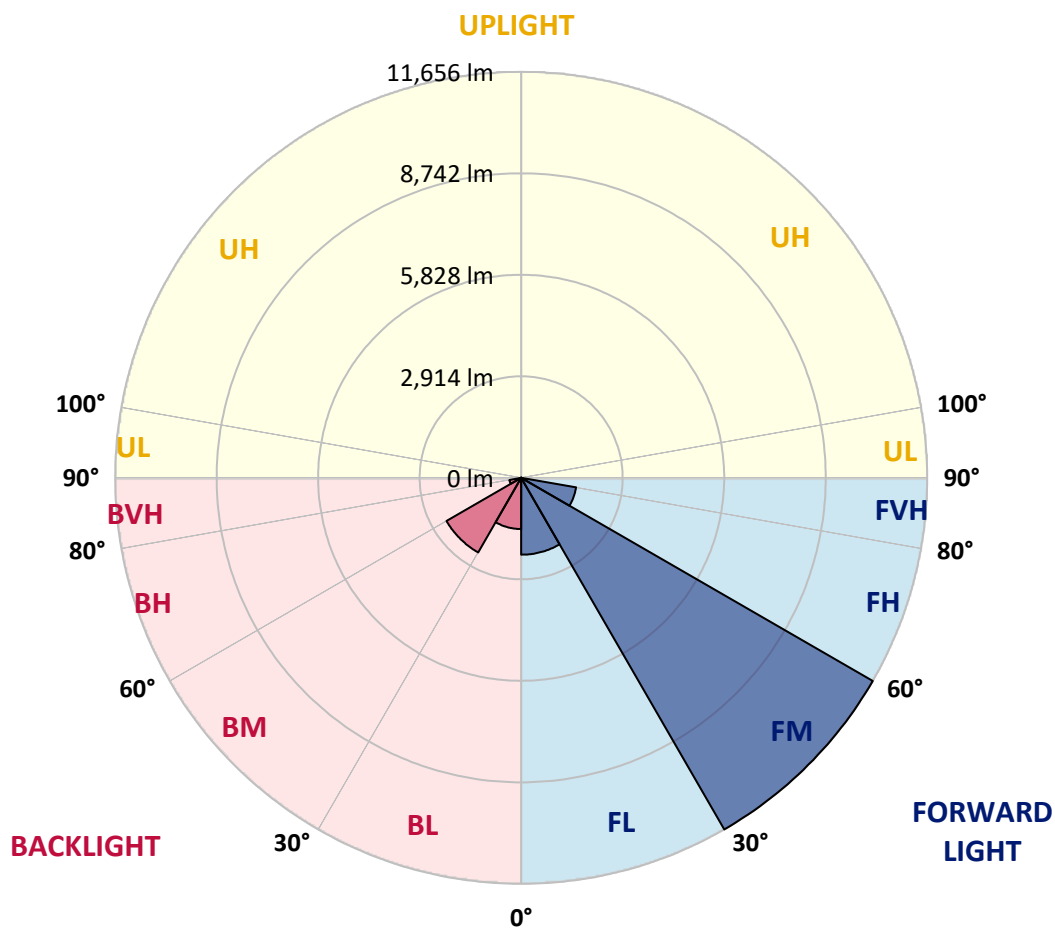
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2207.4	11.2			
FM	(30°-60°)	11656.2	58.9			
FH	(60°-80°)	1601.6	8.1			G1/1800
FVH	(80°-90°)	15.4	0.1			G1/100
BL	(0°-30°)	1470.6	7.4	B3/2500		
BM	(30°-60°)	2474.7	12.5	B2/2500		
BH	(60°-80°)	341.9	1.7	B1/500		G1/500
BVH	(80°-90°)	15.3	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	3778.6	3778.6	3778.6	3778.6	3778.6	3778.6	3778.6	3778.6	3778.6	3778.6	3778.6
2.5°	3847.0	3829.0	3829.0	3800.2	3832.6	3818.2	3829.0	3793.0	3829.0	3775.0	3818.2
5°	3865.0	3868.6	3854.2	3872.2	3872.2	3893.8	3857.8	3890.2	3908.2	3868.6	3850.6
7.5°	3958.7	3965.9	3962.3	3947.9	3976.7	3973.1	3969.5	3944.3	3951.5	3937.1	3915.4
10°	4142.4	4138.8	4156.8	4120.8	4099.1	4124.4	4131.6	4091.9	4063.1	4052.3	3983.9
12.5°	4408.9	4365.7	4340.5	4304.5	4315.3	4279.2	4344.1	4275.6	4261.2	4196.4	4128.0
15°	4625.0	4617.8	4621.4	4563.8	4499.0	4513.4	4513.4	4477.4	4455.7	4376.5	4279.2
17.5°	5068.1	4916.8	4949.2	4877.2	4823.2	4819.6	4787.1	4794.3	4736.7	4571.0	4423.3
20°	5413.9	5349.1	5298.6	5176.2	5093.3	5118.5	5104.1	5068.1	5050.1	4834.0	4625.0
22.5°	5723.7	5745.3	5662.4	5630.0	5514.8	5525.6	5554.4	5522.0	5385.1	5161.8	4852.0
25°	6159.5	6134.3	6022.6	5983.0	5875.0	5914.6	6026.2	6001.0	5914.6	5511.2	5028.5
27.5°	6674.6	6588.2	6609.8	6429.7	6325.2	6436.9	6570.2	6696.2	6451.3	5921.8	5237.4
30°	7038.4	6948.4	6941.2	6934.0	6908.8	7038.4	7193.3	7308.6	7110.5	6332.4	5583.2
32.5°	7218.5	7240.1	7301.4	7279.8	7499.5	7766.0	7928.1	8093.8	7845.3	7002.4	6040.7
35°	7697.6	7560.7	7697.6	7712.0	7938.9	8504.5	8709.8	9106.0	9044.8	7949.7	6599.0
37.5°	7978.6	7967.8	7985.8	8122.6	8342.4	9041.2	9332.9	9639.1	9523.8	8518.9	7294.2
40°	8443.2	8472.0	8468.4	8572.9	8814.2	9444.6	9563.5	9812.0	9822.8	9307.7	8317.2
42.5°	9188.9	9073.6	8997.9	9106.0	9444.6	9794.0	10031.7	9981.3	10337.9	10265.9	9631.9
45°	9858.8	9927.3	9815.6	9995.7	10118.2	10305.5	10298.3	10406.4	10860.2	11202.4	10622.5
47.5°	10485.6	10528.8	10582.9	10705.3	10971.9	11000.7	10939.5	10892.6	11519.4	11872.4	11389.7
50°	10860.2	10899.8	11152.0	11371.7	11868.8	11933.6	11969.6	11850.8	12275.8	12315.4	12113.7
52.5°	10759.4	10802.6	11155.6	11879.6	12672.0	13266.4	13158.3	12956.6	12931.4	13086.3	12783.7
55°	9866.0	9826.4	10312.7	11440.1	12924.2	14350.6	14365.0	14152.5	13745.5	13641.0	12682.9
56°	9106.0	8951.1	9570.7	10932.3	12600.0	14257.0	14419.0	14192.1	13810.3	13342.0	12059.7
57.5°	7459.9	7607.6	8223.5	9350.9	11479.8	13583.4	13677.0	13623.0	13334.8	12549.6	10611.7
60°	4113.6	4372.9	4916.8	6296.4	8173.1	10424.4	10500.0	10939.5	10993.5	9610.3	7301.4
62.5°	1747.0	1718.2	2283.7	3299.5	4653.9	6292.8	6433.3	6883.5	6966.4	5540.0	3663.3
65°	709.6	749.2	1033.8	1660.5	2460.2	2867.2	3065.4	3213.0	3486.8	2287.3	1350.8
67.5°	468.3	464.7	608.7	947.3	1325.6	1278.7	1278.7	1350.8	1249.9	932.9	583.5
70°	335.0	345.8	435.8	655.6	824.9	612.4	587.1	561.9	637.6	616.0	471.9
72.5°	219.7	234.1	291.8	392.6	428.6	335.0	335.0	403.4	525.9	497.1	385.4
75°	144.1	147.7	180.1	226.9	212.5	172.9	190.9	270.2	381.8	367.4	273.8
77.5°	97.3	100.9	122.5	147.7	118.9	97.3	104.5	136.9	187.3	187.3	144.1
80°	36.0	39.6	50.4	46.8	54.0	68.4	75.6	93.7	111.7	111.7	97.3
82.5°	0.0	3.6	10.8	25.2	39.6	54.0	61.2	72.0	82.8	93.7	90.1
85°	0.0	3.6	10.8	18.0	28.8	32.4	36.0	25.2	21.6	21.6	18.0
87.5°	0.0	0.0	3.6	3.6	3.6	3.6	3.6	3.6	7.2	3.6	3.6
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°	3778.6	3778.6	3778.6	3778.6	3778.6	3778.6	3778.6	3778.6	3778.6	3778.6	3778.6
2.5°	3778.6	3775.0	3775.0	3764.2	3785.8	3775.0	3782.2	3778.6	3731.7	3767.8	3742.5
5°	3818.2	3843.4	3803.8	3796.6	3767.8	3778.6	3778.6	3742.5	3775.0	3771.4	3764.2
7.5°	3919.0	3875.8	3832.6	3789.4	3782.2	3771.4	3731.7	3717.3	3742.5	3713.7	3756.9
10°	3962.3	3969.5	3904.6	3847.0	3793.0	3717.3	3663.3	3630.9	3591.3	3634.5	3659.7
12.5°	4160.4	4088.3	3976.7	3886.6	3702.9	3627.3	3573.2	3558.8	3627.3	3641.7	3616.5
15°	4228.8	4218.0	4073.9	3872.2	3681.3	3591.3	3602.1	3573.2	3580.4	3544.4	3551.6
17.5°	4369.3	4246.8	4077.5	3825.4	3677.7	3656.1	3591.3	3476.0	3411.2	3382.3	3407.5
20°	4524.2	4405.3	4160.4	3843.4	3710.1	3652.5	3440.0	3299.5	3166.2	3094.2	3097.8
22.5°	4661.1	4513.4	4124.4	3850.6	3738.9	3501.2	3245.5	2968.1	2802.4	2690.7	2694.3
25°	4826.8	4617.8	4138.8	3865.0	3663.3	3259.9	2892.5	2622.3	2424.2	2348.5	2373.8
27.5°	4920.4	4682.7	4218.0	3897.4	3465.2	2917.7	2521.4	2269.3	2154.0	2118.0	2114.4
30°	5201.4	4826.8	4315.3	3832.6	3133.8	2550.3	2182.8	2028.0	1916.3	1883.9	1891.1
32.5°	5619.2	5089.7	4441.3	3663.3	2795.2	2222.5	1963.1	1847.9	1743.4	1682.2	1675.0
35°	5968.6	5540.0	4574.6	3400.3	2402.6	1970.3	1808.2	1664.2	1505.7	1437.2	1419.2
37.5°	6635.0	6047.9	4545.8	3004.1	2028.0	1783.0	1642.5	1466.0	1329.2	1235.5	1224.7
40°	7521.1	6642.2	4405.3	2521.4	1750.6	1617.3	1466.0	1296.7	1127.4	1048.2	1041.0
42.5°	8598.1	7369.8	4149.6	2031.6	1473.2	1451.6	1314.8	1120.2	969.0	911.3	914.9
45°	9473.4	7993.0	3890.2	1631.7	1267.9	1289.5	1170.7	987.0	882.5	835.7	835.7
47.5°	10251.5	8414.4	3609.3	1347.2	1077.0	1127.4	1023.0	914.9	824.9	788.9	781.6
50°	11000.7	8843.1	3328.3	1091.4	918.5	969.0	958.1	871.7	799.7	756.4	760.0
52.5°	11469.0	8911.5	2971.7	893.3	803.3	860.9	896.9	817.7	738.4	713.2	706.0
55°	10896.2	8029.0	2305.3	734.8	680.8	756.4	824.9	734.8	673.6	630.4	626.8
56°	10125.4	7178.9	1927.1	677.2	644.8	727.6	799.7	702.4	634.0	608.7	590.7
57.5°	8572.9	5875.0	1422.8	601.5	597.9	677.2	760.0	670.0	590.7	569.1	569.1
60°	5345.5	3306.7	860.9	504.3	518.7	601.5	684.4	597.9	525.9	525.9	536.7
62.5°	2435.0	1376.0	522.3	428.6	446.7	518.7	608.7	540.3	500.7	540.3	547.5
65°	828.5	594.3	378.2	342.2	353.0	428.6	522.3	547.5	543.9	569.1	583.5
67.5°	464.7	381.8	317.0	284.6	277.4	317.0	428.6	547.5	525.9	515.1	522.3
70°	392.6	324.2	281.0	252.1	241.3	255.7	331.4	414.2	371.0	360.2	353.0
72.5°	317.0	270.2	244.9	226.9	194.5	165.7	151.3	158.5	176.5	187.3	205.3
75°	223.3	205.3	205.3	183.7	140.5	104.5	82.8	68.4	46.8	32.4	36.0
77.5°	126.1	126.1	129.7	111.7	90.1	68.4	50.4	36.0	18.0	7.2	3.6
80°	86.4	93.7	100.9	90.1	75.6	61.2	43.2	25.2	10.8	0.0	0.0
82.5°	86.4	97.3	104.5	90.1	75.6	57.6	43.2	25.2	10.8	3.6	0.0
85°	18.0	21.6	25.2	28.8	43.2	43.2	32.4	21.6	10.8	3.6	0.0
87.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	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)