

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: P532082

Luminaire Tested: **GALN-SA7B-830-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532082
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7B-830-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26644 lumens
Efficiency: N/A
Efficacy: 93.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 286
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



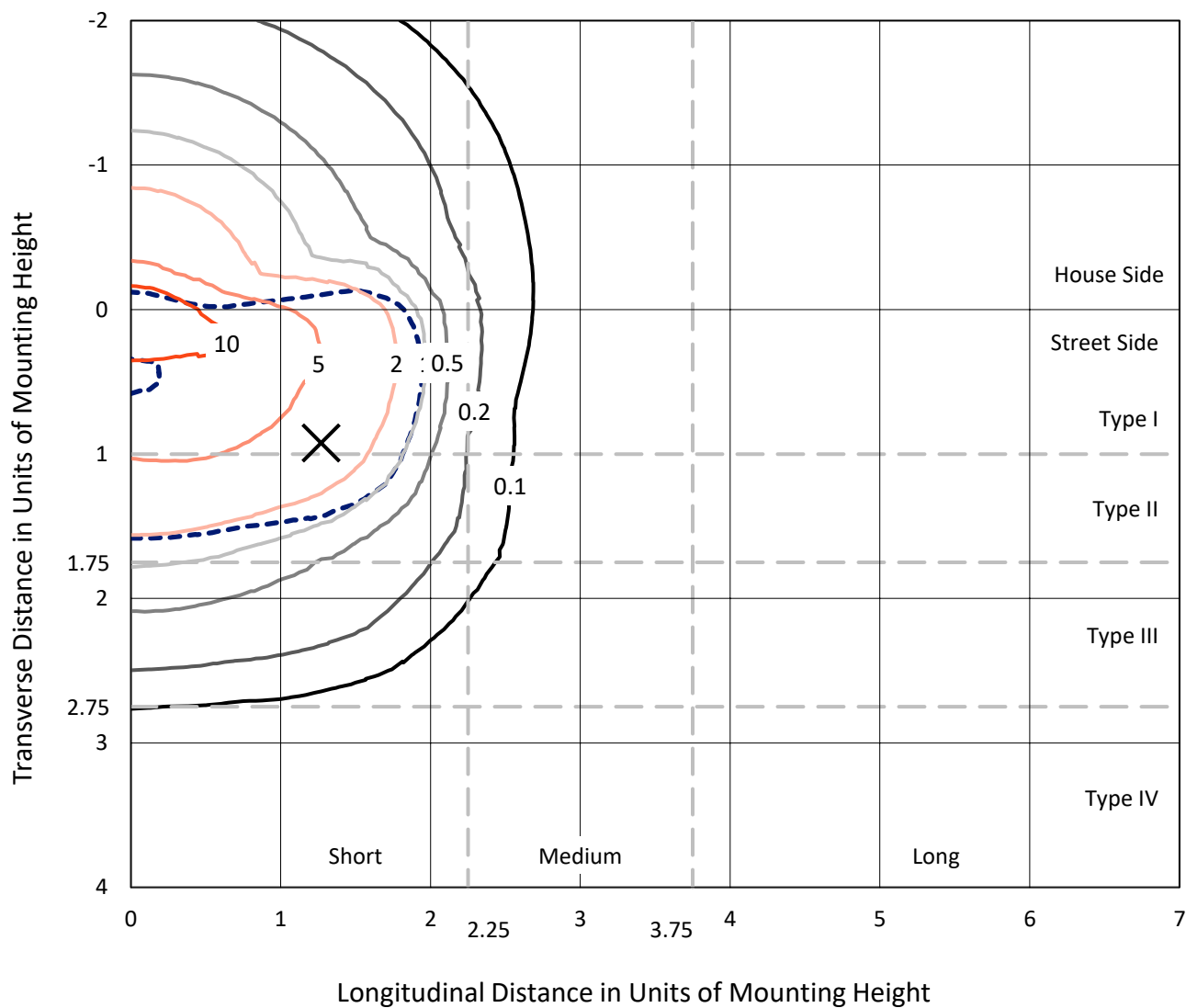
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

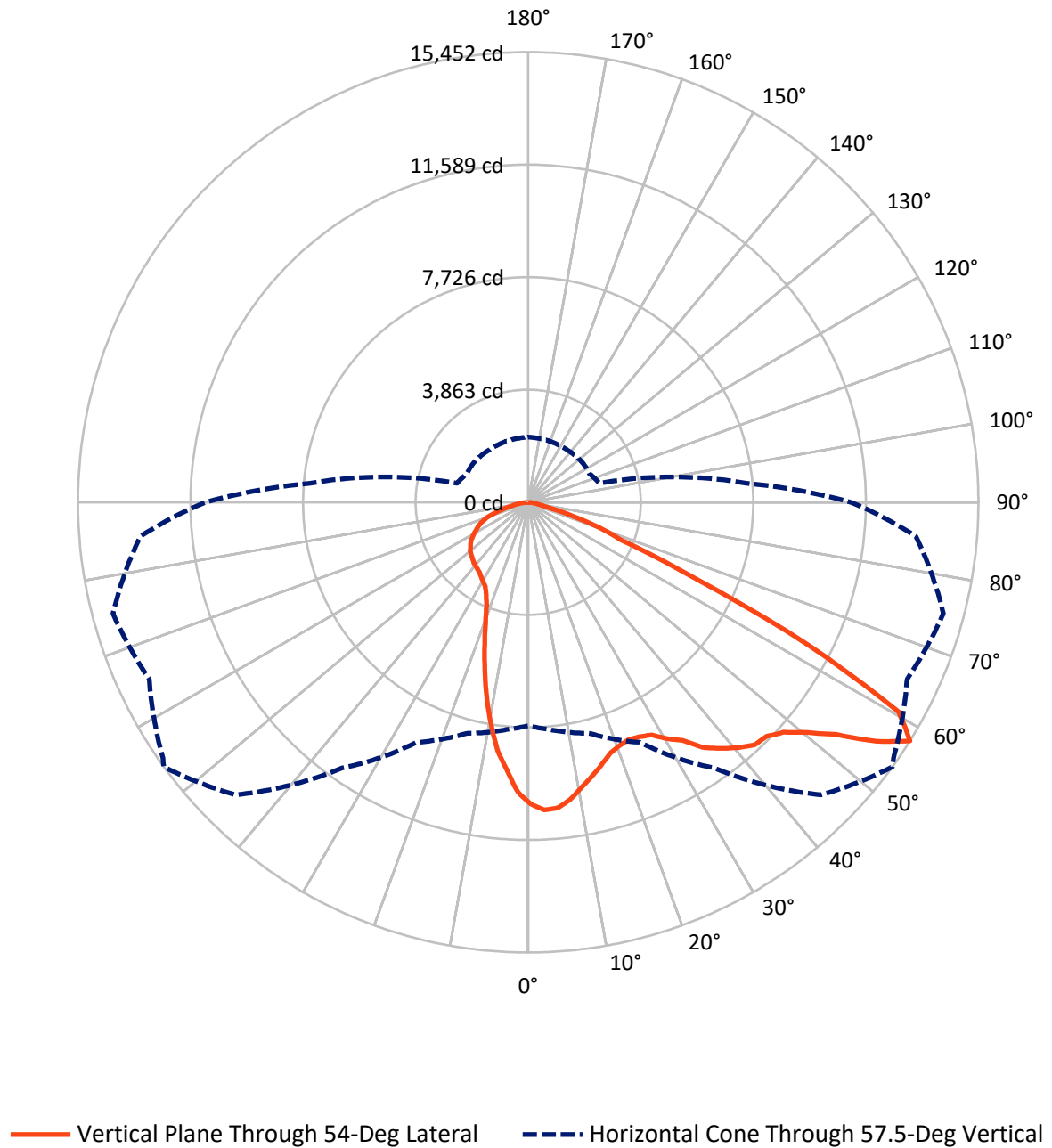


Based on 25 foot mounting height. Maximum calculated value = 16.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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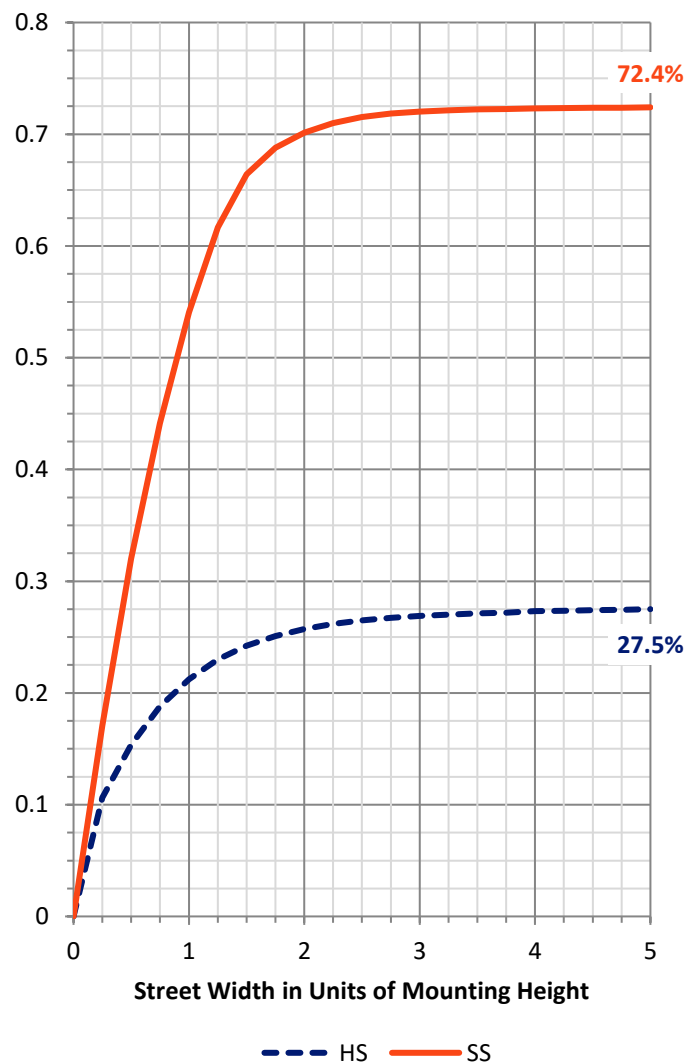
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7371.2	0.0	7371.2
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	19272.8	0.0	19272.8
	% Fixture	72.3	0.0	72.3
Total	Lumens	26644.0	0.0	26644.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	893.1	3.4
10°-20°	2067.9	7.8
20°-30°	2905.4	10.9
30°-40°	4061.8	15.2
40°-50°	5498.9	20.6
50°-60°	6697.9	25.1
60°-70°	3488.6	13.1
70°-80°	893.9	3.4
80°-90°	136.4	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°	26644.0	100.0
0°-180°	26644.0	100.0

Coefficient of Utilization



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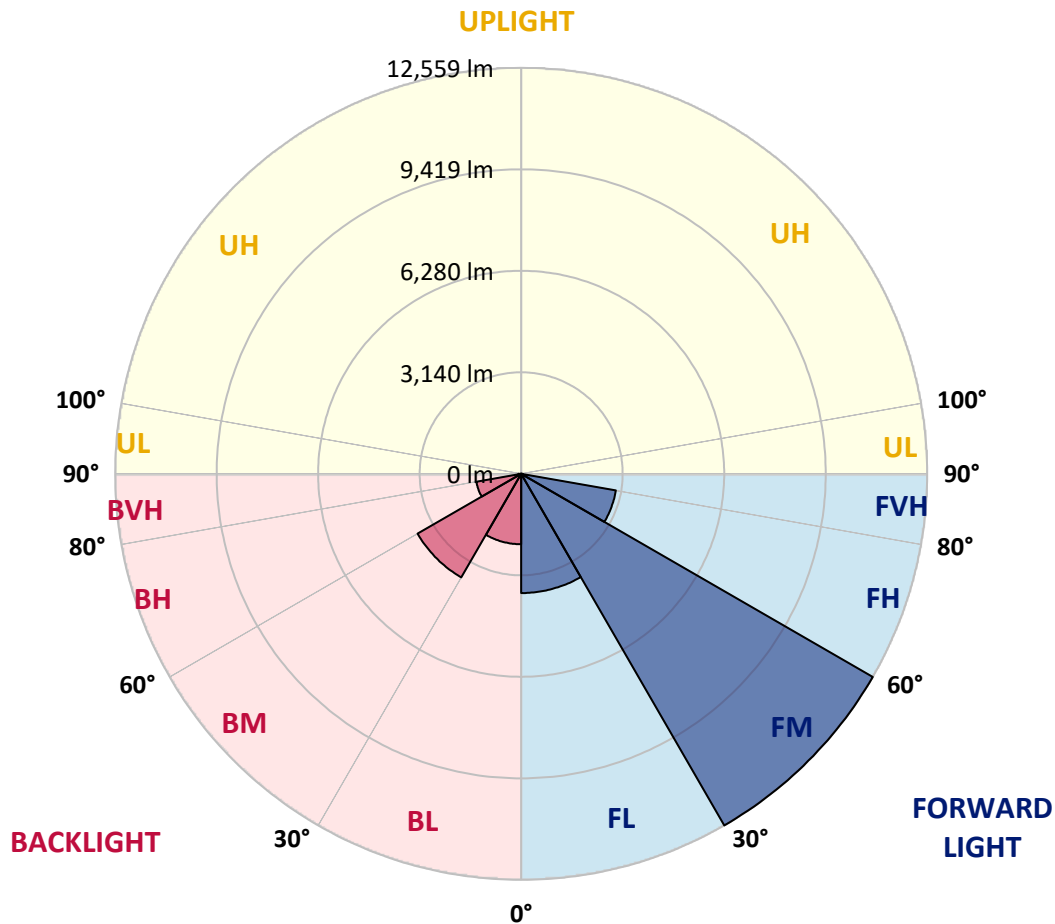
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3687.9	13.8			
FM	(30°-60°)	12559.2	47.1			
FH	(60°-80°)	2974.2	11.2			G2/5000
FVH	(80°-90°)	51.5	0.2			G1/100
BL	(0°-30°)	2178.6	8.2	B3/2500		
BM	(30°-60°)	3699.5	13.9	B3/5000		
BH	(60°-80°)	1408.3	5.3	B3/2500		G3/2500
BVH	(80°-90°)	84.8	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°	54°	55°	65°	75°	85°
0°	10356.2	10356.2	10356.2	10356.2	10356.2	10356.2	10356.2	10356.2	10356.2	10356.2	10356.2
2.5°	10650.7	10609.6	10616.5	10671.3	10602.8	10575.4	10575.4	10441.8	10452.1	10359.6	10335.7
5°	10404.2	10308.3	10373.3	10455.5	10469.2	10496.6	10541.2	10506.9	10411.0	10311.7	10150.7
7.5°	9760.3	9845.9	9869.9	9928.1	10051.4	10164.4	10304.8	10209.0	10205.5	10106.2	10010.3
10°	9195.3	9143.9	9274.0	9359.6	9565.1	9753.5	9969.2	9959.0	10010.3	9897.3	9732.9
12.5°	8633.6	8592.5	8654.2	8849.4	9137.0	9411.0	9667.9	9572.0	9845.9	9825.4	9472.7
15°	8037.7	8068.5	8157.6	8339.1	8715.8	9044.6	9369.9	9373.3	9616.5	9698.7	9226.1
17.5°	7619.9	7585.7	7698.7	7969.2	8304.8	8698.7	9068.5	9143.9	9517.2	9565.1	9150.7
20°	7308.3	7356.2	7503.5	7640.5	8027.4	8503.5	8921.3	8948.7	9496.6	9626.8	9030.9
22.5°	7232.9	7205.5	7253.5	7476.1	7794.6	8311.7	8842.5	8945.3	9493.2	9606.2	8804.8
25°	7154.1	7243.2	7239.8	7462.4	7695.2	8157.6	8907.6	9020.6	9674.7	9712.4	8835.7
27.5°	7332.2	7322.0	7417.8	7435.0	7722.6	8198.7	9044.6	9130.2	9976.1	9945.3	8859.6
30°	7510.3	7458.9	7517.2	7719.2	7852.8	8435.0	9421.3	9414.4	10366.5	10345.9	8935.0
32.5°	7729.5	7705.5	7743.2	7921.3	8147.3	8750.0	9739.8	9941.8	10763.8	10893.9	9195.3
35°	7770.6	7869.9	7958.9	8198.7	8520.6	9260.3	10339.1	10506.9	11222.7	11630.2	9691.8
37.5°	8030.9	8068.5	8277.4	8702.1	8996.6	9941.8	10719.2	10825.4	11640.5	12102.8	10215.8
40°	8308.3	8352.8	8667.9	9113.1	9517.2	10387.0	11075.4	11109.6	11774.0	12465.8	10558.3
42.5°	8685.0	8726.1	9037.7	9595.9	10137.0	10767.2	11390.5	11428.1	11763.8	12883.6	11102.8
45°	9075.4	9174.7	9541.1	10174.7	10661.0	11212.4	11462.4	11616.5	11859.7	13256.9	11544.6
47.5°	9623.3	9715.8	10017.2	10637.0	11205.5	11602.8	11794.6	11945.3	12089.1	13582.3	11828.8
50°	10205.5	10222.7	10589.1	11150.7	11568.6	12044.6	12414.4	12465.8	12390.5	13959.0	12311.7
52.5°	10633.6	10688.4	10972.7	11520.6	12143.9	12729.5	13236.4	13291.2	13143.9	14099.4	12476.1
55°	9924.7	9893.9	10356.2	11085.7	12530.9	13750.1	14486.4	14527.5	13691.9	14534.3	13013.8
57.5°	7671.3	7818.5	8212.4	9092.5	11133.6	14202.1	15452.1	15304.9	14349.4	14753.5	13356.2
60°	5575.4	5541.1	5804.8	6393.9	8390.5	12239.8	14609.7	14760.3	13811.7	13298.0	11013.8
62.5°	4541.1	4493.2	4513.7	4534.3	5414.4	8123.3	10815.1	10811.7	10637.0	9558.3	7428.1
65°	3630.2	3743.2	3753.4	3907.6	4020.6	4852.8	6267.2	6602.8	5750.0	4715.8	3421.3
67.5°	2736.3	2695.2	2832.2	3380.2	3592.5	3503.4	3421.3	3458.9	2458.9	1774.0	1671.2
70°	1613.0	1595.9	1760.3	2356.2	2958.9	2784.3	2578.8	2582.2	1688.4	1239.7	1380.1
72.5°	883.6	880.1	914.4	1195.2	1681.5	1746.6	1548.0	1595.9	1006.9	1003.4	1078.8
75°	493.2	482.9	472.6	527.4	606.2	640.4	654.1	661.0	691.8	774.0	804.8
77.5°	181.5	174.7	174.7	202.1	256.9	321.9	407.5	414.4	489.7	561.6	592.5
80°	61.6	68.5	92.5	126.7	171.2	229.5	277.4	284.2	345.9	393.8	404.1
82.5°	37.7	41.1	61.6	89.0	123.3	161.0	205.5	208.9	256.9	287.7	301.4
85°	17.1	20.5	34.2	54.8	78.8	106.2	109.6	109.6	106.2	109.6	102.7
87.5°	0.0	0.0	6.8	6.8	6.8	10.3	13.7	10.3	17.1	20.5	20.5
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°	10356.2	10356.2	10356.2	10356.2	10356.2	10356.2	10356.2	10356.2	10356.2	10356.2	10356.2
2.5°	10263.8	10226.1	10109.6	10006.9	9976.1	9839.1	9637.0	9661.0	9513.7	9582.2	9510.3
5°	10123.3	9996.6	9698.7	9572.0	9239.8	9089.1	8986.3	8729.5	8609.6	8585.7	8482.9
7.5°	9763.7	9685.0	9311.7	8969.2	8616.5	8315.1	7928.1	7664.4	7476.1	7424.7	7274.0
10°	9479.5	9304.8	8787.7	8267.2	7763.7	7239.8	6736.3	6342.5	6150.7	5928.1	5852.8
12.5°	9198.7	8935.0	8236.3	7568.5	6917.8	6256.9	5647.3	5167.8	4750.0	4650.7	4616.5
15°	9024.0	8565.1	7743.2	6938.4	6013.7	5150.7	4541.1	4226.0	3969.2	3863.0	3938.4
17.5°	8794.6	8260.3	7270.6	6198.7	5181.5	4387.0	3876.7	3681.5	3589.1	3599.3	3568.5
20°	8506.9	7972.6	6650.7	5527.4	4438.4	3804.8	3513.7	3441.8	3455.5	3479.5	3469.2
22.5°	8301.4	7623.3	6202.1	4842.5	3835.6	3482.9	3363.0	3311.7	3356.2	3376.7	3359.6
25°	8143.9	7325.4	5657.6	4236.3	3486.3	3301.4	3246.6	3243.2	3311.7	3339.1	3321.9
27.5°	8000.0	7048.0	5116.5	3774.0	3253.4	3161.0	3143.9	3184.9	3229.5	3256.9	3280.8
30°	7914.4	6835.7	4609.6	3387.0	3137.0	3092.5	3061.7	3099.3	3123.3	3150.7	3137.0
32.5°	7996.6	6685.0	4119.9	3167.8	3041.1	2996.6	3037.7	3013.7	3054.8	3078.8	3041.1
35°	8253.5	6551.4	3770.6	3051.4	2931.5	2948.6	2955.5	2945.2	2962.3	2941.8	2986.3
37.5°	8506.9	6503.5	3448.6	2952.1	2880.2	2880.2	2873.3	2852.8	2887.0	2880.2	2900.7
40°	8828.8	6534.3	3174.7	2845.9	2832.2	2825.4	2798.0	2794.5	2780.8	2784.3	2791.1
42.5°	9109.6	6602.8	3017.1	2777.4	2787.7	2801.4	2750.0	2708.9	2726.0	2691.8	2691.8
45°	9407.6	6664.4	2876.7	2729.5	2719.2	2715.8	2674.7	2650.7	2637.0	2640.4	2671.2
47.5°	9876.8	6753.5	2770.6	2664.4	2671.2	2619.9	2609.6	2578.8	2592.5	2613.0	2616.5
50°	10209.0	6941.8	2688.4	2589.1	2613.0	2578.8	2517.1	2503.4	2503.4	2537.7	2530.8
52.5°	10441.8	7205.5	2609.6	2506.9	2517.1	2489.7	2469.2	2438.4	2417.8	2465.8	2489.7
55°	11154.2	7643.9	2589.1	2438.4	2434.9	2407.5	2369.9	2339.1	2328.8	2335.6	2383.6
57.5°	11085.7	7506.9	2524.0	2318.5	2311.7	2274.0	2236.3	2226.0	2222.6	2229.5	2243.2
60°	9000.0	5544.5	2253.4	2181.5	2171.2	2164.4	2126.7	2085.6	2065.1	2085.6	2068.5
62.5°	5955.5	3712.3	1986.3	2017.1	2024.0	2006.9	1945.2	1904.1	1911.0	1934.9	1897.3
65°	2924.7	2181.5	1801.4	1883.6	1890.4	1842.5	1784.3	1736.3	1712.3	1732.9	1715.8
67.5°	1671.2	1667.8	1650.7	1736.3	1732.9	1684.9	1592.5	1551.4	1510.3	1517.1	1506.9
70°	1417.8	1445.2	1479.5	1530.8	1527.4	1472.6	1363.0	1332.2	1274.0	1267.1	1250.0
72.5°	1116.4	1164.4	1239.7	1277.4	1246.6	1178.1	1106.2	1054.8	1003.4	972.6	982.9
75°	828.8	897.3	938.4	962.3	914.4	876.7	818.5	756.9	695.2	667.8	657.5
77.5°	602.7	623.3	661.0	678.1	647.3	609.6	575.3	513.7	455.5	417.8	407.5
80°	421.2	434.9	462.3	462.3	462.3	445.2	400.7	339.0	301.4	267.1	260.3
82.5°	294.5	308.2	335.6	321.9	318.5	297.9	270.5	222.6	181.5	157.5	150.7
85°	102.7	113.0	137.0	164.4	174.7	171.2	154.1	123.3	95.9	78.8	71.9
87.5°	24.0	24.0	27.4	24.0	24.0	27.4	24.0	24.0	24.0	17.1	13.7
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)