

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: P650934

Luminaire Tested: **GALN-SA5C-840-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P650934
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5C-840-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21321.9 lumens
Efficiency: N/A
Efficacy: 79.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

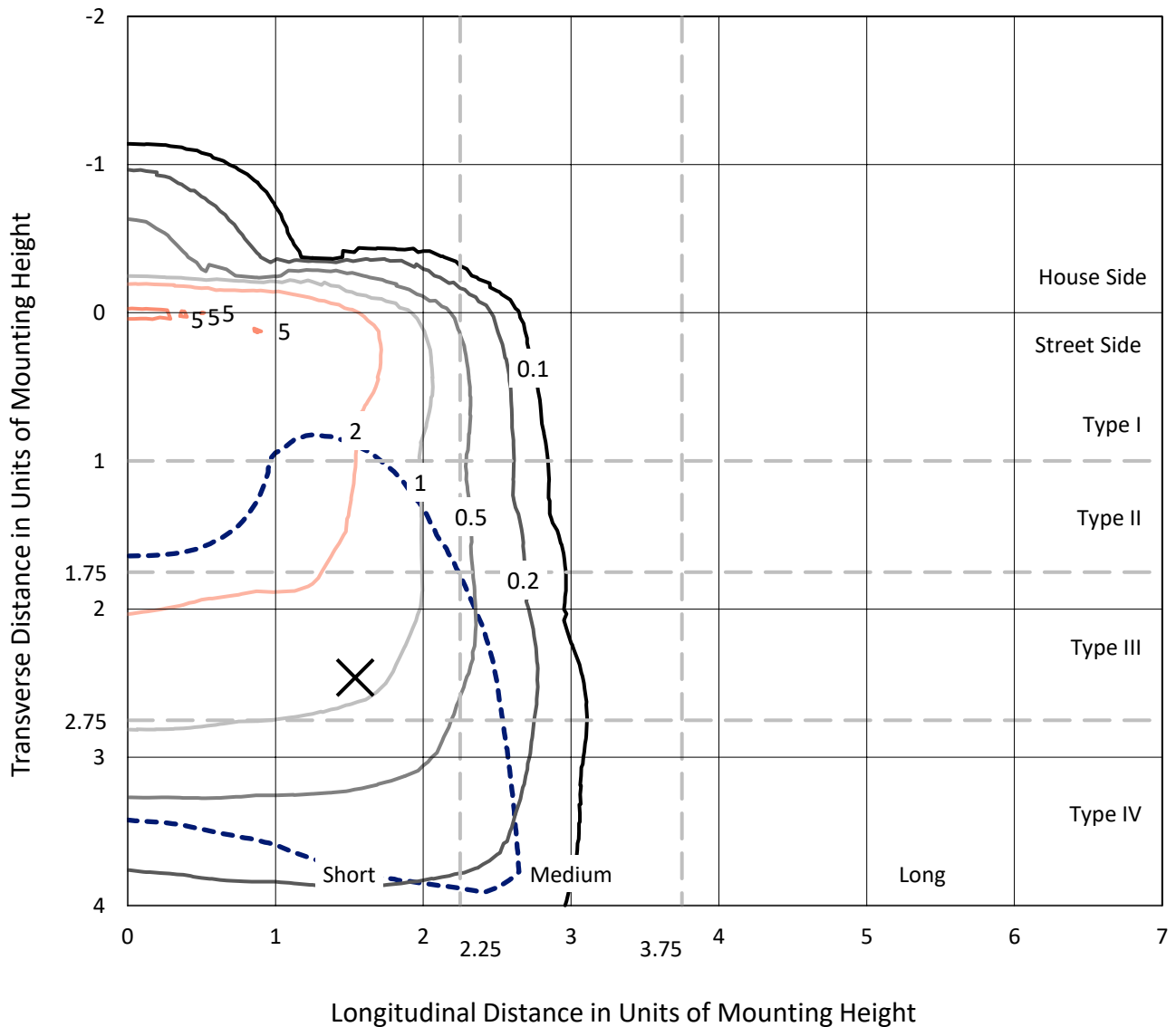
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P650934
 CATALOG NUMBER: GALN-SA5C-840-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

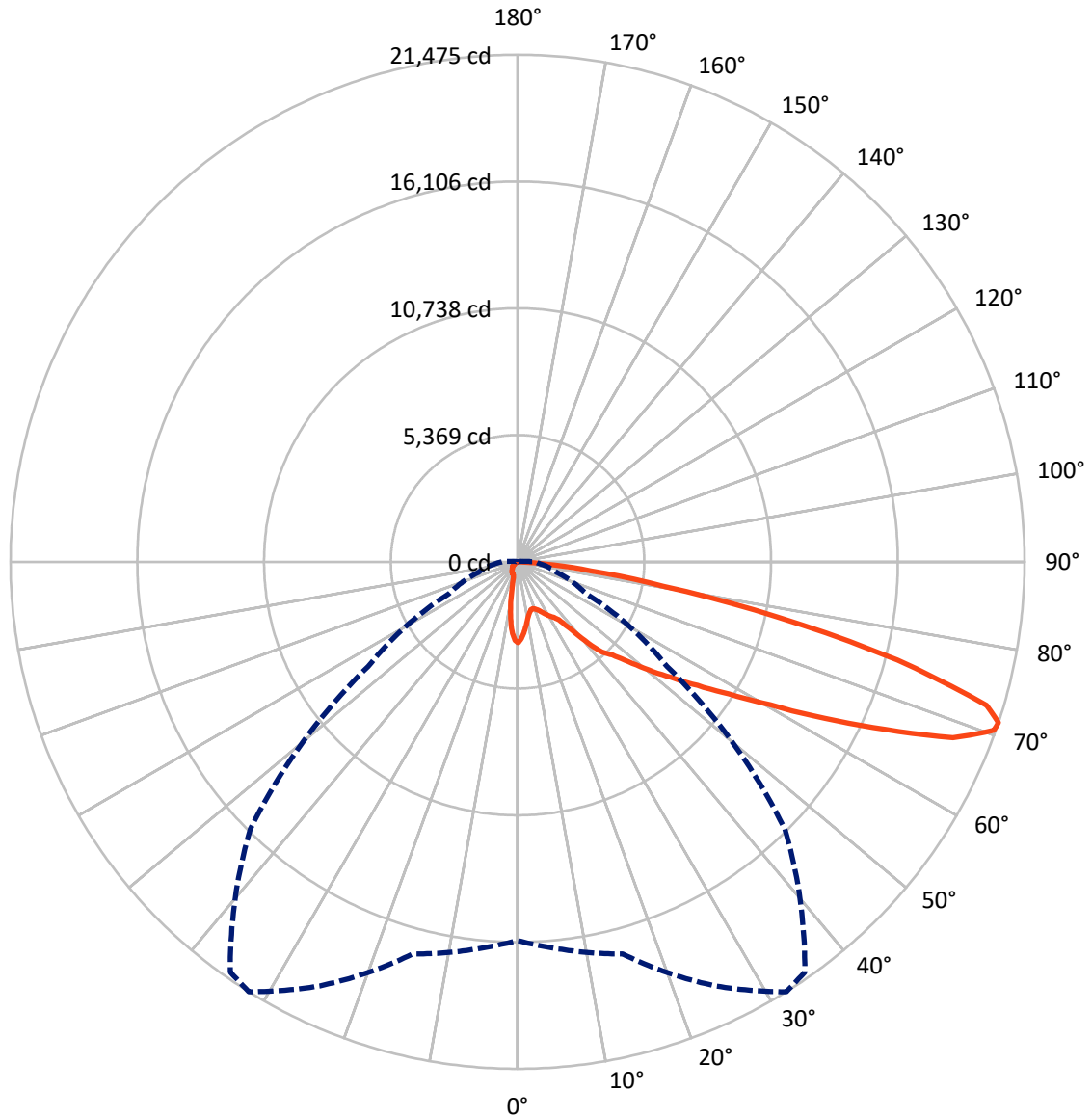
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type IV - Short - N/A

REPORT NUMBER: P650934
CATALOG NUMBER: GALN-SA5C-840-U-T4FT-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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 CATALOG NUMBER: GALN-SA5C-840-U-T4FT-HSS

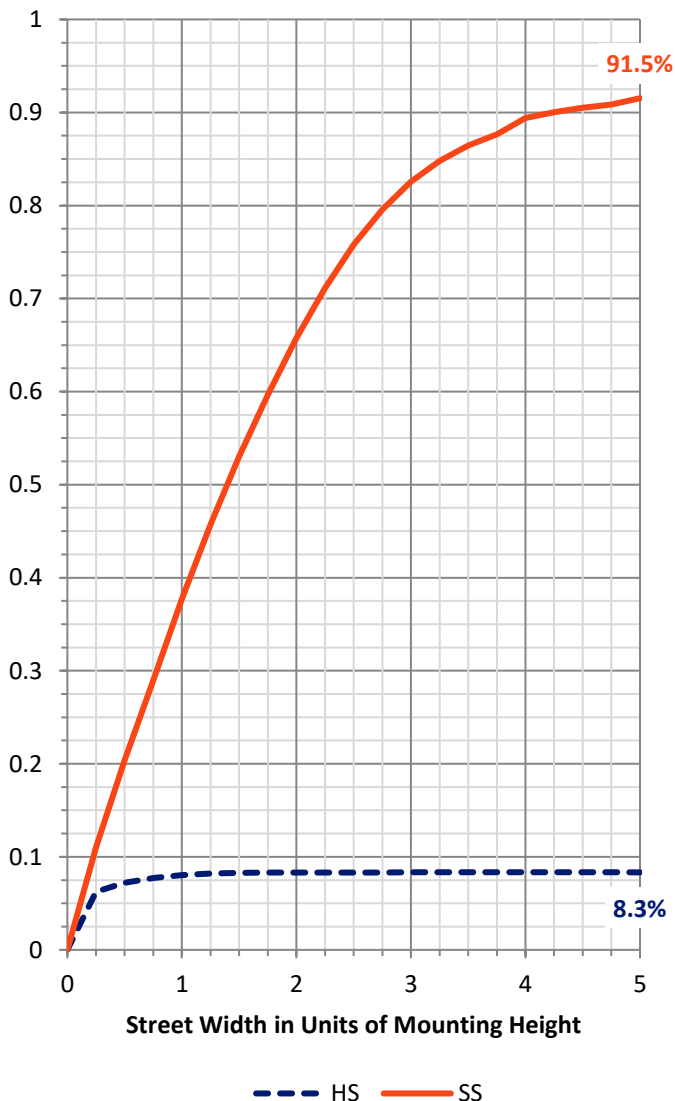
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1785.9	0.0	1785.9
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	19535.9	0.0	19535.9
	% Fixture	91.6	0.0	91.6
Total	Lumens	21321.9	0.0	21321.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.8	1.3
10°-20°	605.1	2.8
20°-30°	941.4	4.4
30°-40°	1568.3	7.4
40°-50°	2917.4	13.7
50°-60°	4683.9	22.0
60°-70°	6300.1	29.5
70°-80°	3737.9	17.5
80°-90°	288.9	1.4
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°	21321.9	100.0
0°-180°	21321.9	100.0

Coefficient of Utilization



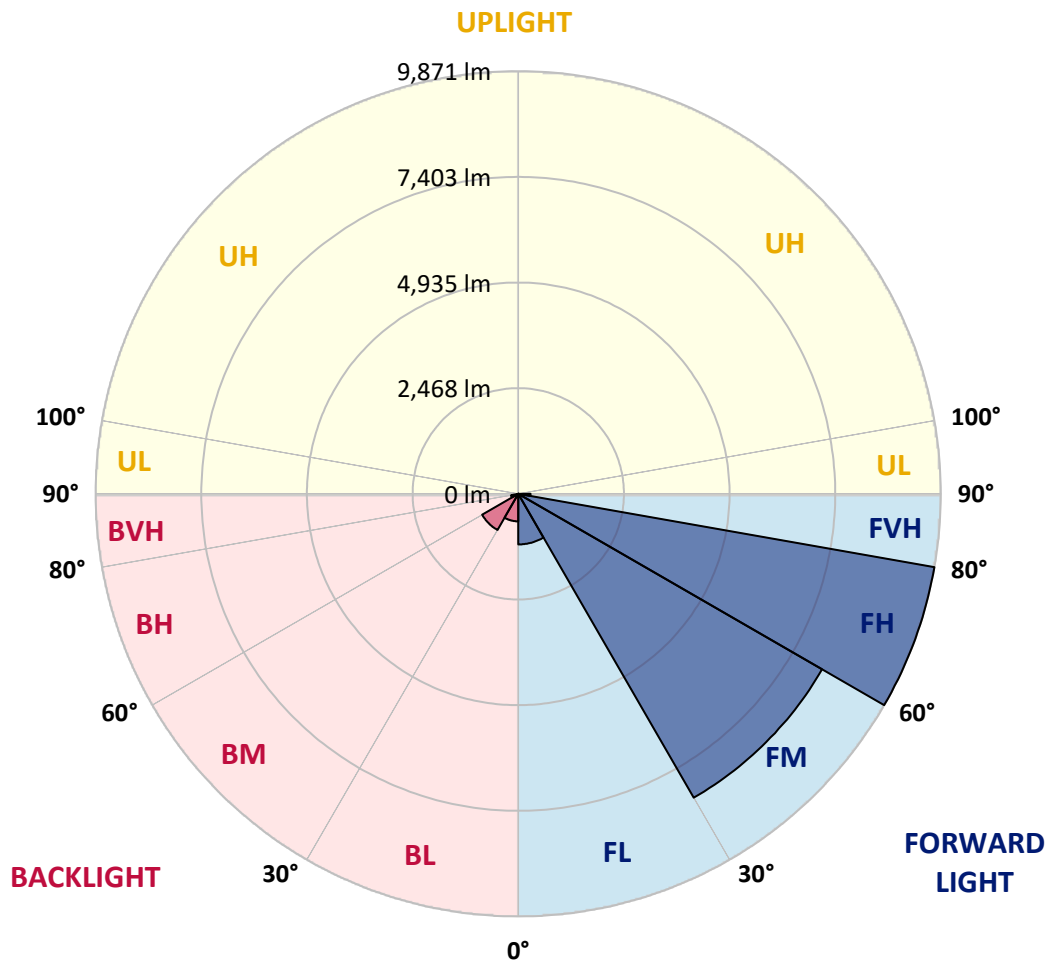
REPORT NUMBER: P650934
 CATALOG NUMBER: GALN-SA5C-840-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1181.8	5.5			
FM (30°-60°)	8195.3	38.4			
FH (60°-80°)	9871.0	46.3			G4/12000
FVH (80°-90°)	287.8	1.3			G3/500
BL (0°-30°)	643.5	3.0	B2/1000		
BM (30°-60°)	974.3	4.6	B1/1000		
BH (60°-80°)	167.0	0.8	B1/500		G1/500
BVH (80°-90°)	1.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





REPORT NUMBER: P650934

CATALOG NUMBER: GALN-SA5C-840-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	3428.9	3428.9	3428.9	3428.9	3428.9	3428.9	3428.9	3428.9	3428.9	3428.9	3428.9
2.5°	3180.1	3212.9	3207.9	3219.4	3247.2	3258.7	3289.7	3324.1	3371.6	3404.4	3425.6
5°	2847.9	2872.4	2875.7	2933.0	2960.8	2991.9	3083.5	3183.4	3294.7	3383.1	3442.0
7.5°	2492.7	2505.8	2532.0	2607.3	2677.7	2708.8	2847.9	3021.4	3196.5	3361.8	3468.2
10°	2199.7	2214.4	2262.0	2342.1	2407.6	2448.5	2641.7	2859.3	3104.8	3350.3	3505.8
12.5°	2032.8	2040.9	2058.9	2131.0	2214.4	2258.7	2466.5	2715.3	3031.1	3355.3	3569.6
15°	2021.3	2018.1	1996.8	2026.2	2101.5	2147.3	2350.3	2617.1	2965.7	3371.6	3644.9
17.5°	2081.9	2073.7	2022.9	2022.9	2085.2	2122.8	2301.2	2564.7	2933.0	3409.2	3751.3
20°	2175.2	2162.0	2078.6	2072.1	2132.6	2171.9	2330.7	2568.0	2939.5	3479.6	3893.7
22.5°	2293.0	2278.3	2152.3	2155.6	2221.0	2260.3	2415.8	2626.9	2980.4	3566.3	4046.0
25°	2446.9	2430.5	2281.5	2275.0	2343.8	2378.1	2541.8	2731.7	3037.7	3674.4	4245.6
27.5°	2651.4	2617.1	2438.6	2428.9	2502.5	2546.7	2694.0	2872.4	3139.2	3823.4	4514.0
30°	2820.0	2782.4	2612.1	2586.0	2664.5	2698.9	2851.2	3062.2	3338.9	4083.6	4885.5
32.5°	3041.0	2985.4	2785.6	2716.9	2800.4	2844.6	3078.6	3415.8	3635.1	4358.6	5327.5
35°	3538.5	3504.2	3260.3	3019.7	3014.8	3070.5	3414.1	3772.6	3939.6	4787.4	5929.8
37.5°	4250.5	4225.9	3967.3	3644.9	3551.6	3525.5	3821.7	4165.4	4425.7	5376.6	6630.3
40°	5077.0	5019.8	4782.4	4509.1	4388.0	4311.1	4302.9	4749.7	5060.7	6176.9	7360.3
42.5°	5669.5	5564.8	5276.7	5257.1	5230.9	5150.7	4918.3	5604.1	5880.7	7037.8	8141.0
45°	6291.5	6132.7	5703.9	5630.2	5620.4	5615.5	5847.9	6615.6	6774.3	7970.7	8942.9
47.5°	6774.3	6648.3	6296.4	6263.7	6304.6	6415.9	7077.1	7689.3	7656.5	8802.2	9615.7
50°	7417.5	7322.6	6931.4	6993.6	7204.8	7386.4	8463.4	8859.4	8381.6	9456.9	10105.0
52.5°	8177.0	8001.9	7638.5	7807.1	8131.1	8433.9	9934.8	9884.0	8890.5	9949.5	10469.9
55°	8835.0	8710.5	8586.1	8761.3	9245.7	9623.8	11263.8	10651.7	9260.4	10345.6	10630.4
57.5°	9947.9	9918.4	9790.8	9969.1	10556.7	10949.6	12453.7	11247.4	9497.7	10551.8	10442.2
60°	11594.4	11546.9	11309.6	11537.1	12303.1	12920.1	13550.3	11782.6	9551.8	10471.6	9900.4
62.5°	13574.8	13412.8	13209.8	13545.3	14596.1	14867.8	14583.0	12100.1	9350.5	9833.3	8594.3
65°	15424.3	15257.3	15262.2	15969.3	17113.3	17298.3	15787.6	12052.7	8761.3	8234.2	6339.0
67.5°	16840.0	16812.2	17011.9	18391.6	19887.5	19759.9	16864.6	11342.3	7014.9	5337.3	3368.4
70°	16912.0	16966.1	17538.9	19868.0	21386.8	21183.9	16772.9	9219.5	4373.3	2455.0	1327.4
71°	16041.3	16404.6	17196.9	19822.1	21475.2	21211.6	16000.4	7722.0	3207.9	1712.0	957.5
72.5°	13669.7	13861.2	15573.2	18655.1	20776.3	20213.3	14041.3	5412.6	2054.1	1047.5	549.9
75°	7528.8	8000.2	10429.1	14635.4	16617.4	16123.1	9150.8	2571.3	1024.6	572.8	227.5
77.5°	3584.3	3492.8	5088.5	8704.0	11267.0	11240.9	4610.6	1142.4	597.4	387.9	114.5
80°	1024.6	1152.3	1947.7	4137.6	6255.4	6324.2	1770.9	551.5	414.1	302.8	59.0
82.5°	309.3	315.9	715.3	1829.8	3111.4	2933.0	664.5	281.5	297.9	240.6	34.4
85°	54.0	67.1	211.2	644.9	1186.6	900.2	166.9	134.2	196.4	158.8	19.7
87.5°	3.3	4.9	70.4	73.7	104.8	60.6	29.4	19.7	42.6	42.6	11.4
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°	3428.9	3428.9	3428.9	3428.9	3428.9	3428.9	3428.9	3428.9	3428.9	3428.9	3428.9
2.5°	3440.4	3450.2	3443.6	3428.9	3404.4	3374.8	3335.6	3302.9	3275.0	3260.3	3278.3
5°	3461.6	3474.8	3442.0	3368.4	3257.0	3135.9	2998.4	2892.0	2808.6	2782.4	2772.6
7.5°	3494.4	3502.5	3414.1	3250.5	3014.8	2728.4	2478.0	2266.8	2103.2	2054.1	1982.1
10°	3536.9	3532.0	3365.1	3060.7	2646.5	2216.1	1828.2	1540.1	1322.5	1243.9	1237.4
12.5°	3602.3	3576.2	3302.9	2802.0	2207.9	1644.9	1165.4	911.6	774.1	728.3	718.6
15°	3684.3	3622.0	3204.6	2499.3	1690.7	1062.2	718.6	641.6	623.6	620.3	617.0
17.5°	3780.8	3682.6	3075.4	2127.7	1188.2	689.0	600.6	599.0	600.6	597.4	595.8
20°	3911.7	3746.4	2921.5	1687.5	785.6	581.0	572.8	572.8	574.5	572.8	572.8
22.5°	4050.8	3821.7	2731.7	1288.1	592.5	551.5	549.9	553.2	556.5	554.8	554.8
25°	4222.7	3919.9	2481.2	882.2	530.3	527.1	528.7	535.2	541.8	543.4	541.8
27.5°	4471.4	4041.0	2212.8	607.2	486.1	489.4	505.8	522.1	531.9	533.5	533.5
30°	4751.3	4175.2	1862.6	492.7	450.1	450.1	469.7	500.8	522.1	525.4	527.1
32.5°	5111.4	4330.7	1474.7	443.5	415.7	412.4	430.4	468.1	507.4	518.8	518.8
35°	5556.6	4514.0	1096.6	412.4	391.1	383.0	392.8	423.9	474.7	507.4	510.7
37.5°	6078.7	4687.5	802.0	384.6	368.3	356.8	363.3	387.9	428.8	477.9	491.0
40°	6561.6	4841.4	599.0	361.7	345.3	337.2	342.0	353.6	387.9	433.7	441.9
42.5°	7088.5	4960.8	476.3	337.2	322.4	319.2	319.2	324.0	347.0	373.2	374.8
45°	7613.9	5003.4	399.4	307.7	297.9	301.2	299.5	296.3	306.0	302.8	302.8
47.5°	7988.7	4952.6	330.6	279.9	279.9	284.8	276.6	265.2	260.2	240.6	242.2
50°	8245.7	4767.7	271.7	247.2	260.2	266.8	250.4	232.5	214.4	193.1	188.2
52.5°	8352.1	4438.7	222.6	204.6	230.8	238.9	219.3	198.1	170.2	152.2	147.3
55°	8283.3	4032.8	184.9	166.9	194.8	204.6	184.9	160.4	129.3	109.7	106.4
57.5°	7980.6	3548.3	157.1	132.5	155.5	162.1	148.9	122.8	91.7	72.0	72.0
60°	7456.8	3047.5	127.7	104.8	116.2	126.1	112.9	88.4	62.2	44.2	41.0
62.5°	6394.6	2474.7	103.1	81.8	81.8	90.0	78.5	63.8	39.3	22.9	21.3
65°	4617.2	1697.2	81.8	60.6	59.0	59.0	49.1	42.6	22.9	9.8	6.6
67.5°	2509.0	957.5	65.4	45.8	41.0	39.3	31.1	24.6	9.8	1.6	0.0
70°	986.9	368.3	50.7	31.1	26.2	24.6	16.4	11.4	6.6	0.0	0.0
71°	669.4	253.7	44.2	26.2	21.3	18.0	13.1	9.8	4.9	0.0	0.0
72.5°	383.0	157.1	34.4	19.7	16.4	13.1	9.8	6.6	4.9	0.0	0.0
75°	166.9	80.2	21.3	14.7	11.4	8.2	6.6	4.9	1.6	0.0	0.0
77.5°	85.1	44.2	14.7	11.4	6.6	4.9	3.3	1.6	0.0	0.0	0.0
80°	47.4	22.9	9.8	6.6	4.9	3.3	1.6	1.6	0.0	0.0	0.0
82.5°	26.2	13.1	4.9	3.3	1.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	16.4	8.2	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.2	3.3	0.0	0.0	0.0	0.0	1.6	1.6	0.0	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)