

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: P457204

Luminaire Tested: **GALN-SA8C-730-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457204
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-SA8C-730-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 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: 37230 lumens
Efficiency: N/A
Efficacy: 86.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

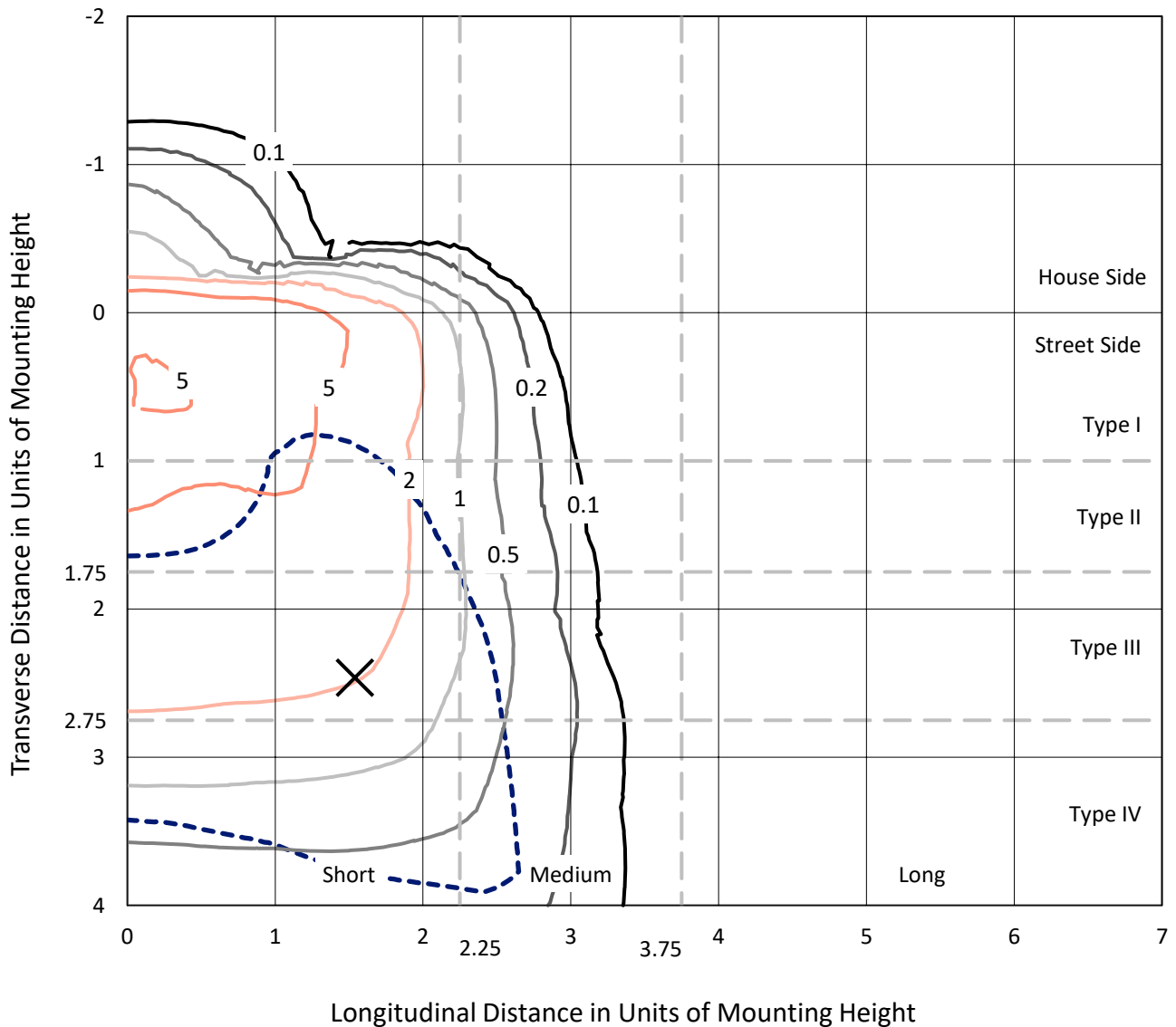
Input Watts (W): 429
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

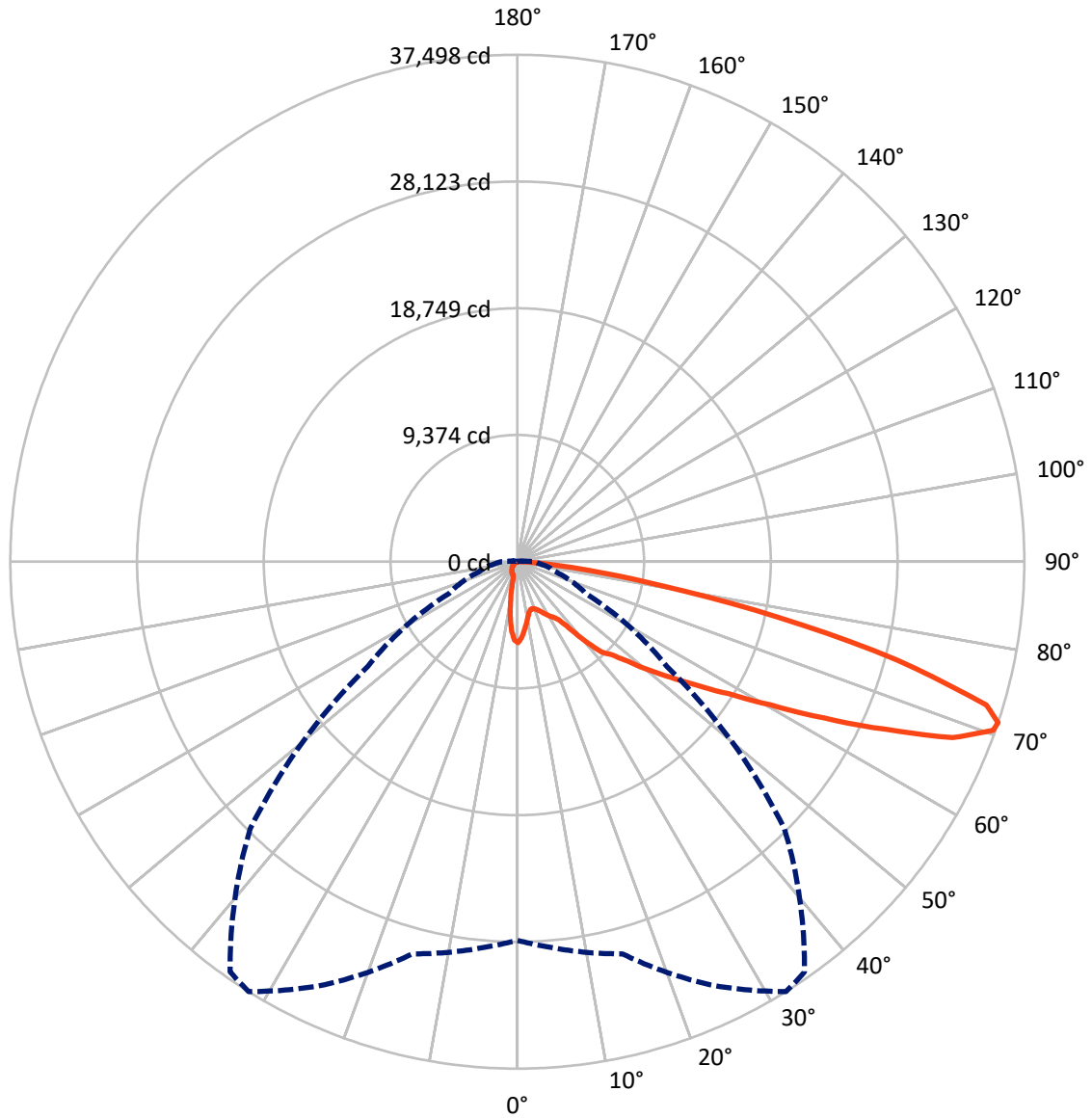
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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

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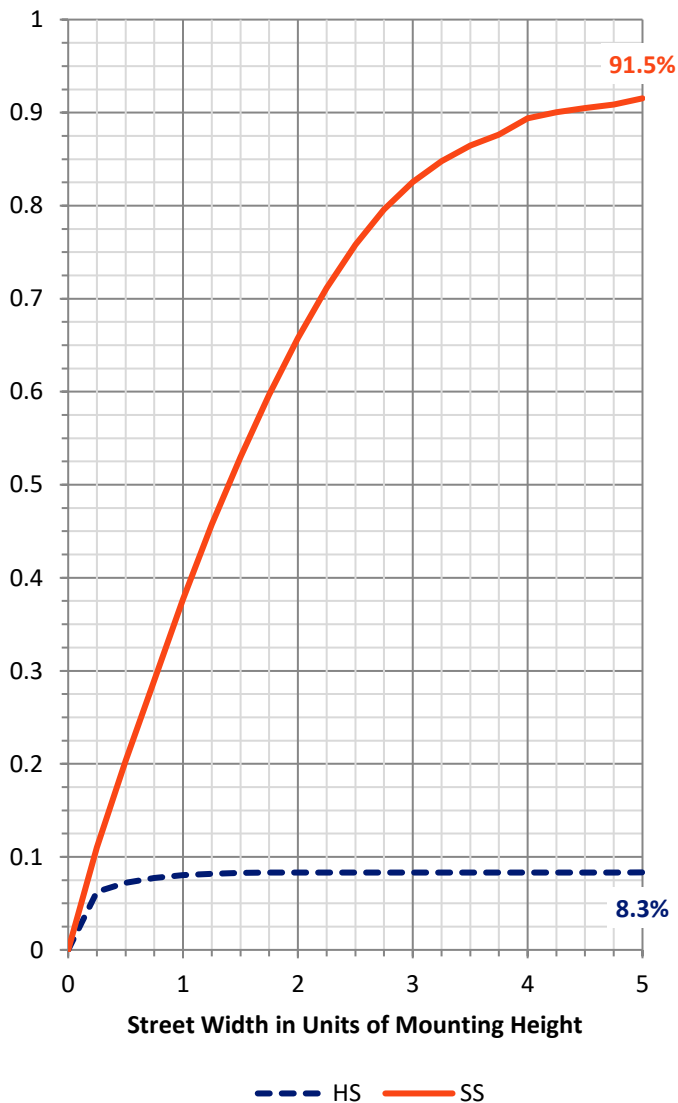
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3118.4	0.0	3118.4
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	34111.6	0.0	34111.6
	% Fixture	91.6	0.0	91.6
Total	Lumens	37230.0	0.0	37230.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	486.8	1.3
10°-20°	1056.6	2.8
20°-30°	1643.7	4.4
30°-40°	2738.4	7.4
40°-50°	5094.0	13.7
50°-60°	8178.6	22.0
60°-70°	11000.6	29.5
70°-80°	6526.8	17.5
80°-90°	504.5	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°	37230.0	100.0
0°-180°	37230.0	100.0



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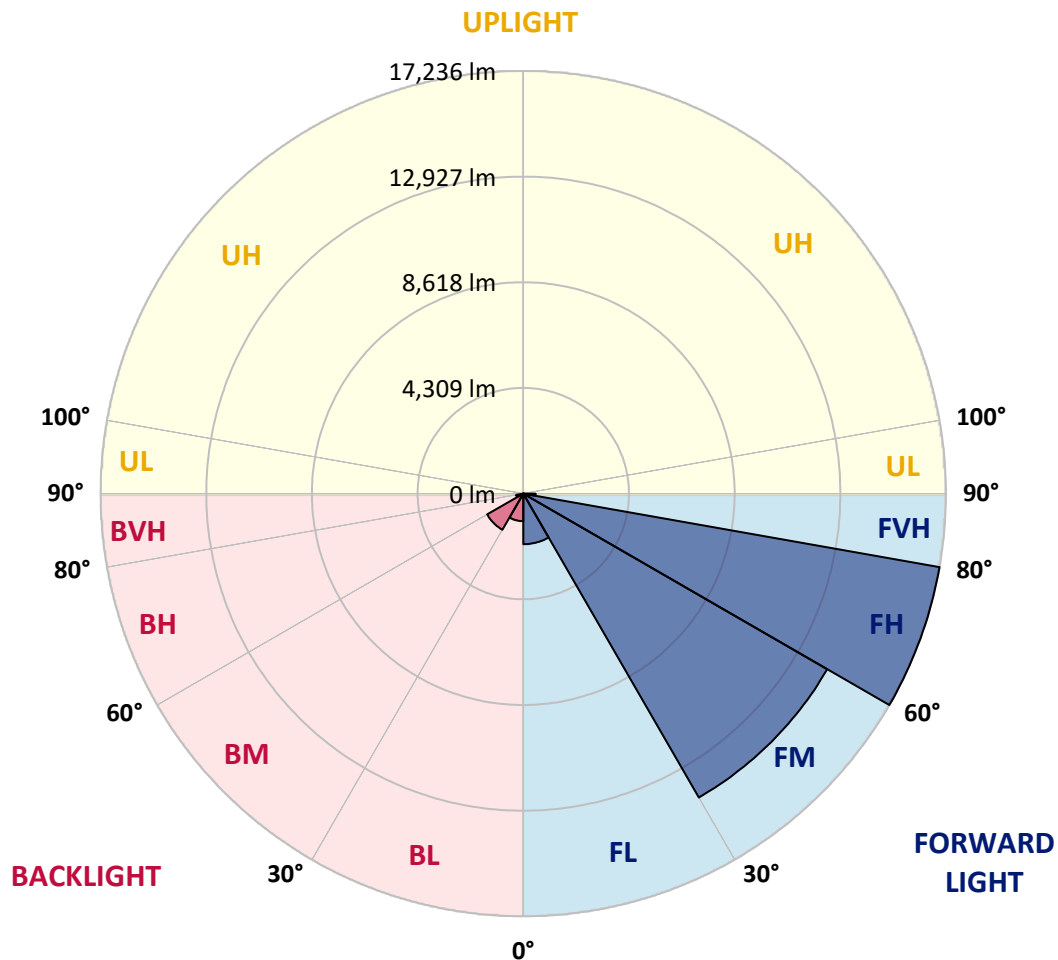
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2063.5	5.5			
FM	(30°-60°)	14309.8	38.4			
FH	(60°-80°)	17235.7	46.3			G5
FVH	(80°-90°)	502.5	1.3			G4/750
BL	(0°-30°)	1123.6	3.0	B3/2500		
BM	(30°-60°)	1701.2	4.6	B2/2500		
BH	(60°-80°)	291.7	0.8	B1/500		G1/500
BVH	(80°-90°)	2.0	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	5987.2	5987.2	5987.2	5987.2	5987.2	5987.2	5987.2	5987.2	5987.2	5987.2	5987.2
2.5°	5552.8	5609.9	5601.4	5621.4	5669.9	5690.0	5744.2	5804.3	5887.1	5944.3	5981.4
5°	4972.6	5015.5	5021.2	5121.2	5169.8	5224.1	5384.2	5558.5	5752.8	5907.1	6010.0
7.5°	4352.5	4375.3	4421.1	4552.5	4675.4	4729.7	4972.6	5275.6	5581.4	5870.0	6055.8
10°	3840.9	3866.7	3949.5	4089.6	4203.9	4275.3	4612.5	4992.6	5421.3	5850.0	6121.5
12.5°	3549.4	3563.7	3595.2	3720.9	3866.7	3943.8	4306.8	4741.1	5292.7	5858.6	6232.9
15°	3529.4	3523.7	3486.6	3538.0	3669.5	3749.5	4103.9	4569.7	5178.4	5887.1	6364.4
17.5°	3635.2	3620.9	3532.3	3532.3	3640.9	3706.6	4018.1	4478.2	5121.2	5952.9	6550.2
20°	3798.1	3775.2	3629.5	3618.0	3723.8	3792.3	4069.6	4483.9	5132.7	6075.8	6798.8
22.5°	4003.8	3978.1	3758.1	3763.8	3878.1	3946.7	4218.2	4586.8	5204.1	6227.2	7064.6
25°	4272.5	4243.9	3983.8	3972.4	4092.4	4152.4	4438.2	4769.7	5304.1	6415.8	7413.2
27.5°	4629.7	4569.7	4258.2	4241.0	4369.6	4446.8	4704.0	5015.5	5481.3	6675.9	7881.9
30°	4924.1	4858.3	4561.1	4515.4	4652.6	4712.6	4978.3	5347.0	5830.0	7130.3	8530.6
32.5°	5309.9	5212.7	4864.0	4744.0	4889.8	4966.9	5375.6	5964.3	6347.3	7610.4	9302.3
35°	6178.6	6118.6	5692.8	5272.7	5264.1	5361.3	5961.4	6587.3	6878.8	8359.2	10353.9
37.5°	7421.8	7378.9	6927.4	6364.4	6201.5	6155.8	6673.0	7273.2	7727.6	9388.0	11577.1
40°	8865.0	8765.0	8350.6	7873.3	7661.9	7527.5	7513.2	8293.4	8836.4	10785.5	12851.7
42.5°	9899.5	9716.6	9213.7	9179.4	9133.6	8993.6	8587.8	9785.2	10268.2	12288.7	14214.9
45°	10985.5	10708.3	9959.6	9831.0	9813.8	9805.2	10211.0	11551.4	11828.6	13917.7	15615.2
47.5°	11828.6	11608.5	10994.1	10936.9	11008.4	11202.7	12357.3	13426.1	13369.0	15369.4	16789.8
50°	12951.7	12786.0	12102.9	12211.5	12580.2	12897.4	14777.9	15469.5	14635.0	16512.6	17644.3
52.5°	14277.7	13972.0	13337.5	13631.9	14197.7	14726.4	17347.1	17258.5	15523.8	17372.8	18281.6
55°	15426.6	15209.4	14992.2	15298.0	16143.9	16804.1	19667.6	18598.8	16169.6	18064.4	18561.6
57.5°	17369.9	17318.5	17095.6	17407.1	18433.0	19118.9	21745.3	19639.0	16584.0	18424.5	18233.0
60°	20244.9	20162.0	19747.6	20144.9	21482.4	22559.8	23660.0	20573.6	16678.3	18284.4	17287.0
62.5°	23702.9	23420.0	23065.6	23651.4	25486.2	25960.6	25463.3	21128.0	16326.8	17169.9	15006.5
65°	26932.2	26640.7	26649.3	27883.9	29881.5	30204.5	27566.7	21045.1	15298.0	14377.8	11068.4
67.5°	29404.3	29355.7	29704.3	32113.5	34725.6	34502.6	29447.1	19804.8	12248.7	9319.4	5881.4
70°	29530.0	29624.3	30624.6	34691.3	37343.3	36989.0	29287.1	16098.2	7636.1	4286.8	2317.7
71°	28009.6	28644.1	30027.3	34611.2	37497.7	37037.5	27938.2	13483.3	5601.4	2989.3	1671.8
72.5°	23868.6	24203.0	27192.3	32573.6	36277.4	35294.3	24517.4	9450.9	3586.6	1829.0	960.2
75°	13146.0	13969.1	18210.1	25554.8	29015.6	28152.5	15978.2	4489.7	1789.0	1000.2	397.2
77.5°	6258.7	6098.6	8885.0	15198.0	19673.3	19627.6	8050.5	1994.8	1043.1	677.3	200.0
80°	1789.0	2011.9	3400.8	7224.6	10922.6	11042.7	3092.2	963.1	723.0	528.7	102.9
82.5°	540.1	551.6	1248.9	3195.1	5432.7	5121.2	1160.3	491.5	520.1	420.1	60.0
85°	94.3	117.2	368.7	1126.0	2071.9	1571.8	291.5	234.3	342.9	277.2	34.3
87.5°	5.7	8.6	122.9	128.6	182.9	105.7	51.4	34.3	74.3	74.3	20.0
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°	5987.2	5987.2	5987.2	5987.2	5987.2	5987.2	5987.2	5987.2	5987.2	5987.2	5987.2
2.5°	6007.2	6024.3	6012.9	5987.2	5944.3	5892.9	5824.3	5767.1	5718.5	5692.8	5724.2
5°	6044.3	6067.2	6010.0	5881.4	5687.1	5475.6	5235.6	5049.8	4904.0	4858.3	4841.2
7.5°	6101.5	6115.8	5961.4	5675.7	5264.1	4764.0	4326.8	3958.1	3672.3	3586.6	3460.8
10°	6175.8	6167.2	5875.7	5344.2	4621.1	3869.5	3192.2	2689.2	2309.1	2172.0	2160.5
12.5°	6290.1	6244.4	5767.1	4892.6	3855.2	2872.1	2034.8	1591.8	1351.8	1271.7	1254.6
15°	6433.0	6324.4	5595.6	4363.9	2952.1	1854.7	1254.6	1120.3	1088.8	1083.1	1077.4
17.5°	6601.6	6430.1	5369.9	3715.2	2074.8	1203.1	1048.8	1046.0	1048.8	1043.1	1040.3
20°	6830.2	6541.6	5101.2	2946.4	1371.8	1014.5	1000.2	1000.2	1003.1	1000.2	1000.2
22.5°	7073.1	6673.0	4769.7	2249.1	1034.5	963.1	960.2	965.9	971.7	968.8	968.8
25°	7373.2	6844.5	4332.5	1540.4	925.9	920.2	923.1	934.5	945.9	948.8	945.9
27.5°	7807.6	7056.0	3863.8	1060.3	848.8	854.5	883.1	911.6	928.8	931.7	931.7
30°	8296.3	7290.3	3252.2	860.2	785.9	785.9	820.2	874.5	911.6	917.4	920.2
32.5°	8925.0	7561.8	2574.9	774.5	725.9	720.2	751.6	817.3	885.9	905.9	905.9
35°	9702.4	7881.9	1914.7	720.2	683.0	668.7	685.9	740.2	828.8	885.9	891.6
37.5°	10614.0	8184.8	1400.3	671.6	643.0	623.0	634.4	677.3	748.8	834.5	857.4
40°	11457.1	8453.5	1046.0	631.6	603.0	588.7	597.3	617.3	677.3	757.3	771.6
42.5°	12377.3	8662.1	831.6	588.7	563.0	557.3	557.3	565.9	605.9	651.6	654.4
45°	13294.7	8736.4	697.3	537.3	520.1	525.8	523.0	517.3	534.4	528.7	528.7
47.5°	13949.1	8647.8	577.3	488.7	488.7	497.3	483.0	463.0	454.4	420.1	423.0
50°	14397.8	8324.9	474.4	431.5	454.4	465.8	437.2	405.8	374.4	337.2	328.7
52.5°	14583.5	7750.5	388.7	357.2	403.0	417.2	382.9	345.8	297.2	265.8	257.2
55°	14463.5	7041.7	322.9	291.5	340.1	357.2	322.9	280.1	225.8	191.5	185.8
57.5°	13934.8	6195.8	274.4	231.5	271.5	282.9	260.1	214.3	160.0	125.7	125.7
60°	13020.3	5321.3	222.9	182.9	202.9	220.1	197.2	154.3	108.6	77.2	71.4
62.5°	11165.6	4321.0	180.0	142.9	142.9	157.2	137.2	111.5	68.6	40.0	37.2
65°	8062.0	2963.6	142.9	105.7	102.9	102.9	85.7	74.3	40.0	17.1	11.4
67.5°	4381.1	1671.8	114.3	80.0	71.4	68.6	54.3	42.9	17.1	2.9	0.0
70°	1723.3	643.0	88.6	54.3	45.7	42.9	28.6	20.0	11.4	0.0	0.0
71°	1168.9	443.0	77.2	45.7	37.2	31.4	22.9	17.1	8.6	0.0	0.0
72.5°	668.7	274.4	60.0	34.3	28.6	22.9	17.1	11.4	8.6	0.0	0.0
75°	291.5	140.0	37.2	25.7	20.0	14.3	11.4	8.6	2.9	0.0	0.0
77.5°	148.6	77.2	25.7	20.0	11.4	8.6	5.7	2.9	0.0	0.0	0.0
80°	82.9	40.0	17.1	11.4	8.6	5.7	2.9	2.9	0.0	0.0	0.0
82.5°	45.7	22.9	8.6	5.7	2.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	28.6	14.3	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	14.3	5.7	0.0	0.0	0.0	0.0	2.9	2.9	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)