

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: P648375

Luminaire Tested: **GALN-SA4B-835-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648375
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4B-835-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14579.5 lumens
Efficiency: N/A
Efficacy: 88.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

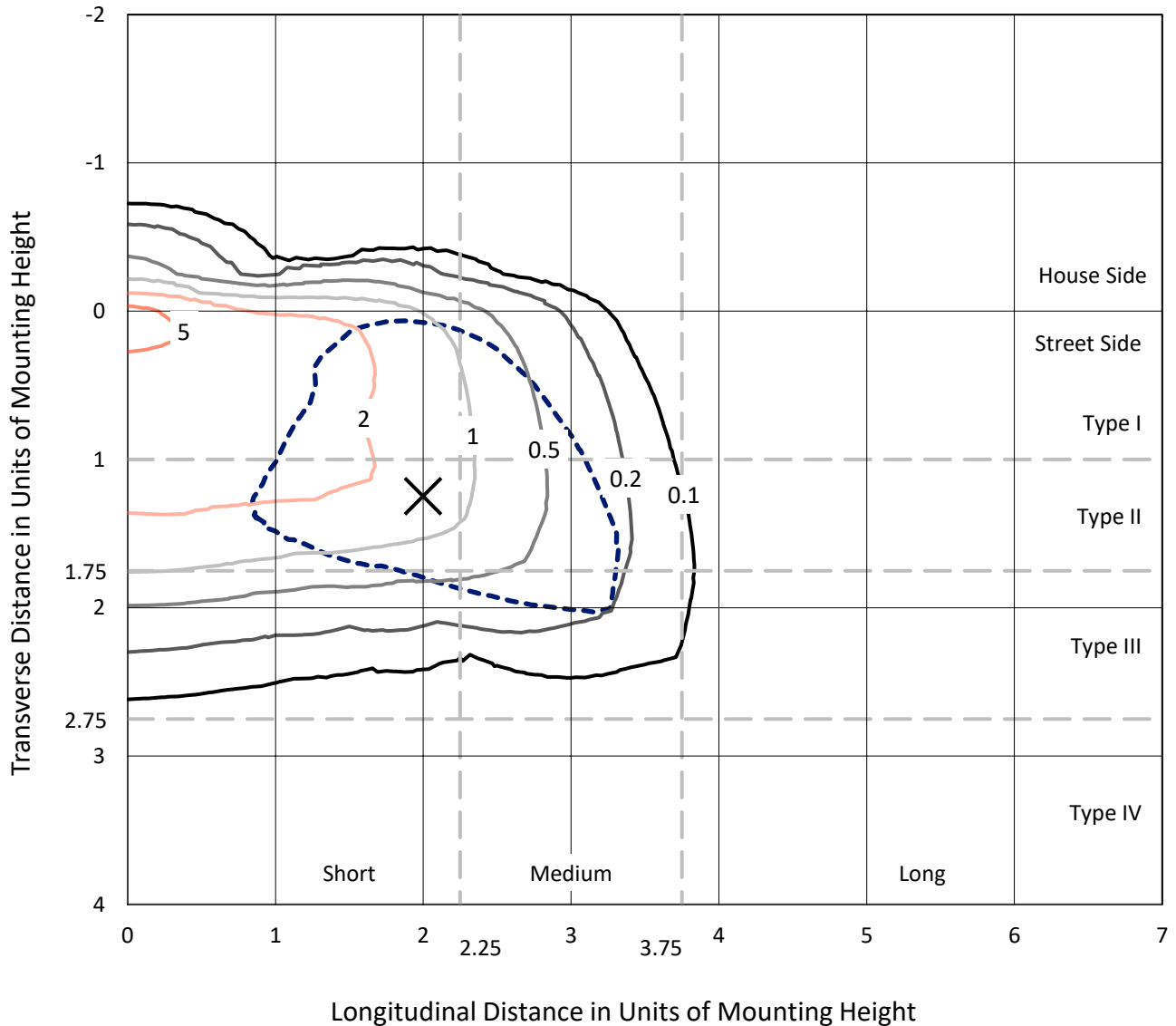
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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 CATALOG NUMBER: GALN-SA4B-835-U-SL3-HSS

Iso-Footcandle Lines of Horizontal Illumination

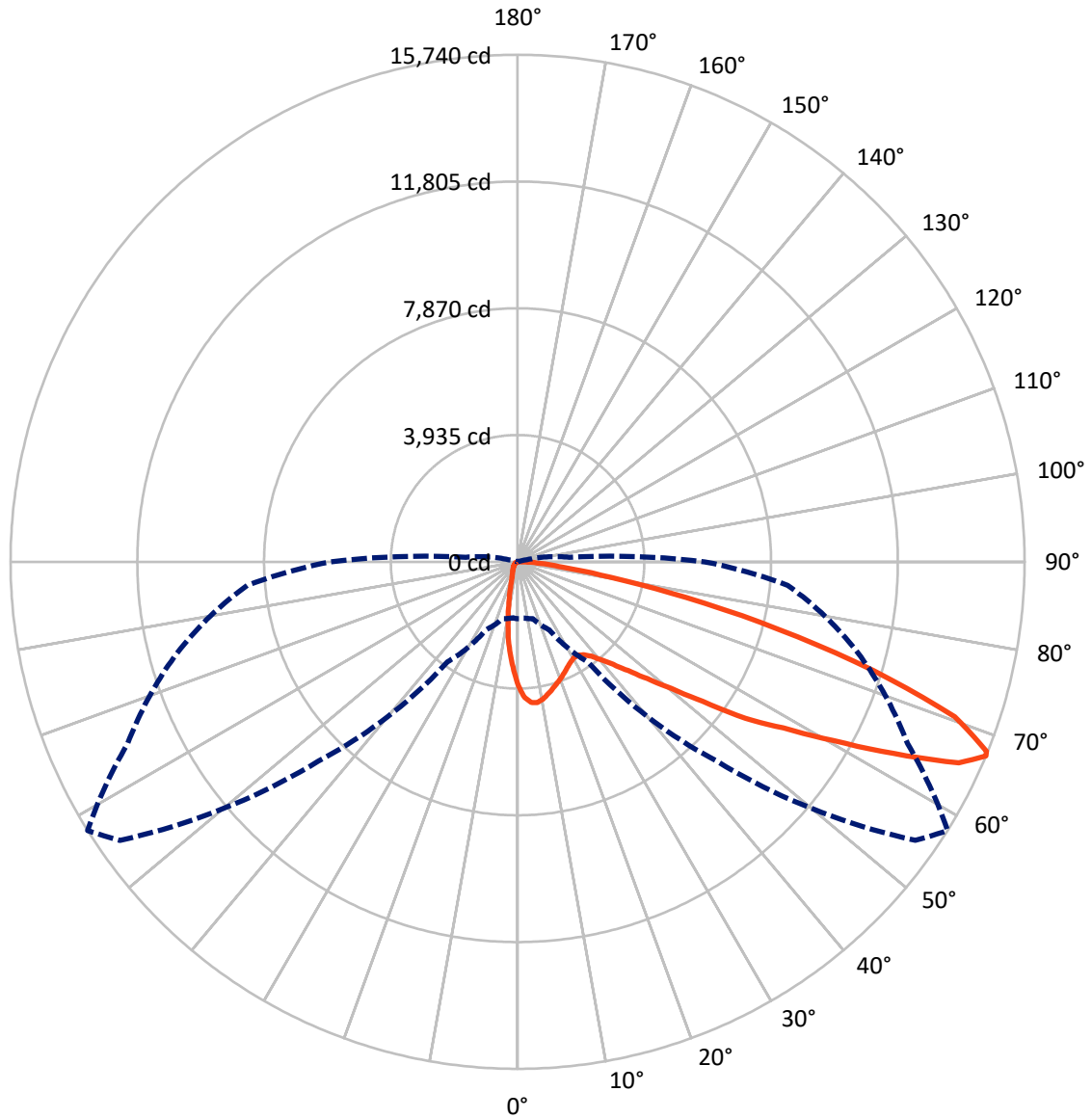
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
 Type III - Short - N/A

REPORT NUMBER: P648375
CATALOG NUMBER: GALN-SA4B-835-U-SL3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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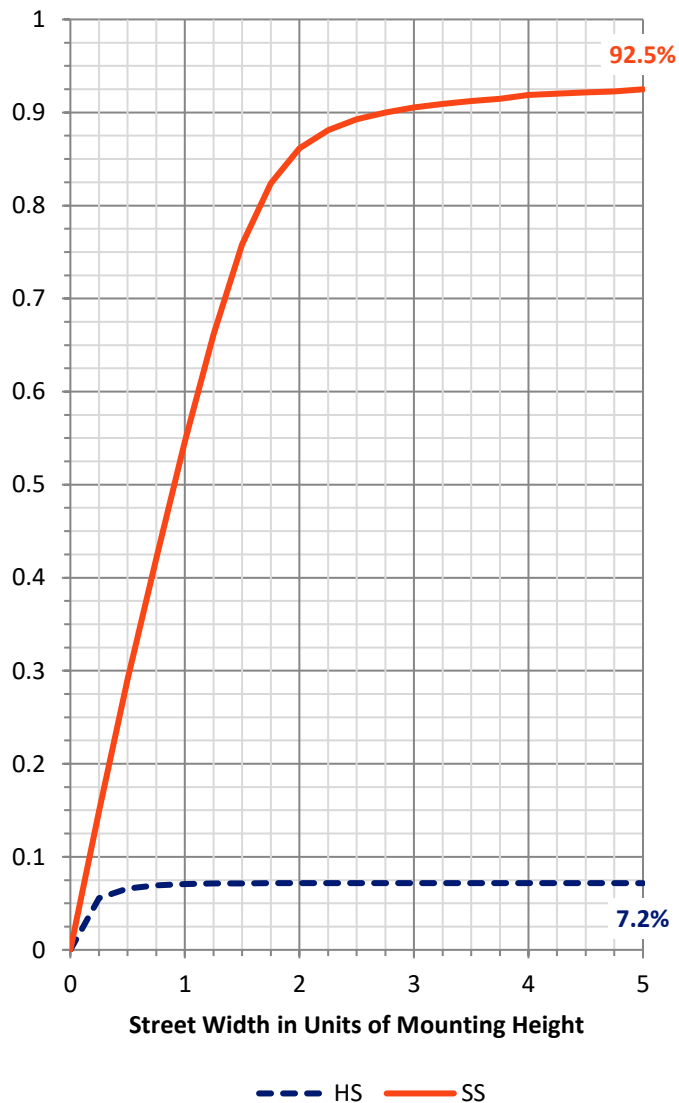
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1052.1	0.0	1052.1
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	13527.3	0.0	13527.3
	% Fixture	92.8	0.0	92.8
Total	Lumens	14579.5	0.0	14579.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	313.6	2.2
10°-20°	677.4	4.6
20°-30°	917.9	6.3
30°-40°	1273.0	8.7
40°-50°	2030.3	13.9
50°-60°	3509.6	24.1
60°-70°	4009.0	27.5
70°-80°	1671.4	11.5
80°-90°	177.2	1.2
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°	14579.5	100.0
0°-180°	14579.5	100.0

Coefficient of Utilization



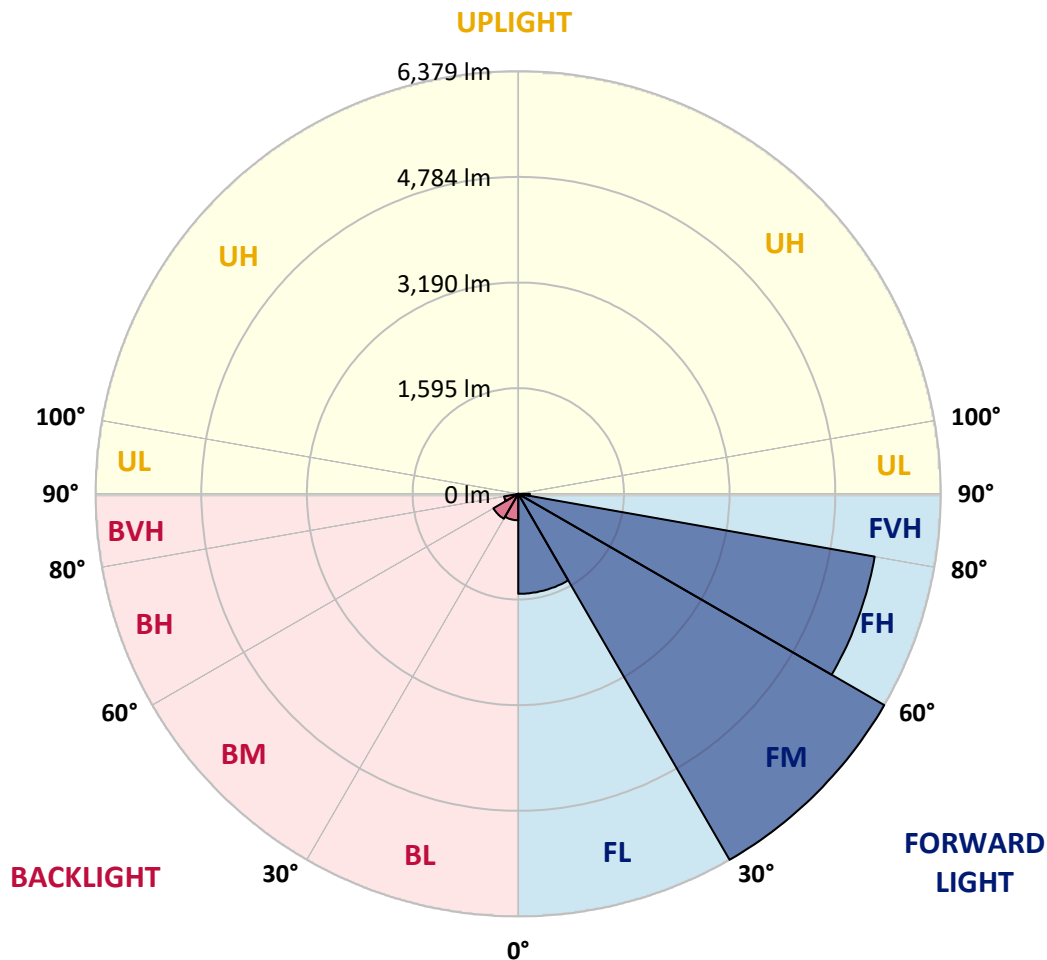
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 CATALOG NUMBER: GALN-SA4B-835-U-SL3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1509.3	10.4			
FM (30°-60°)	6379.1	43.8			
FH (60°-80°)	5462.9	37.5			G3/7500
FVH (80°-90°)	175.9	1.2			G2/225
BL (0°-30°)	399.5	2.7	B1/500		
BM (30°-60°)	433.8	3.0	B1/1000		
BH (60°-80°)	217.5	1.5	B1/500		G1/500
BVH (80°-90°)	1.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3864.9	3864.9	3864.9	3864.9	3864.9	3864.9	3864.9	3864.9	3864.9	3864.9	3864.9
2.5°	4485.5	4492.3	4466.9	4446.5	4393.9	4337.4	4262.4	4222.4	4154.2	4036.4	3905.8
5°	4590.7	4599.5	4595.6	4590.7	4570.2	4515.7	4420.2	4385.1	4284.8	4092.8	3857.1
7.5°	4356.8	4389.0	4392.9	4430.9	4466.9	4471.9	4435.8	4409.5	4316.9	4091.9	3770.4
10°	4047.1	4068.5	4099.7	4143.6	4230.2	4302.4	4337.4	4333.5	4279.9	4061.7	3669.1
12.5°	3734.4	3746.0	3793.8	3868.8	3975.0	4097.8	4191.2	4209.8	4210.7	4025.6	3584.3
15°	3465.4	3460.5	3497.6	3584.3	3733.3	3887.3	4054.8	4084.1	4130.9	3990.6	3505.4
17.5°	3235.5	3260.8	3266.7	3362.2	3499.5	3699.3	3912.7	3964.3	4057.8	3960.3	3440.1
20°	3093.2	3106.9	3119.6	3173.2	3296.9	3507.3	3779.1	3850.2	3989.6	3933.1	3367.1
22.5°	3051.4	3060.1	3049.4	3066.0	3153.7	3340.7	3634.0	3728.5	3924.3	3907.7	3307.6
25°	3083.5	3092.3	3066.9	3047.5	3077.7	3205.3	3493.7	3608.6	3871.7	3902.9	3262.8
27.5°	3161.4	3178.0	3143.0	3107.9	3090.3	3132.2	3383.6	3517.1	3835.7	3926.3	3242.3
30°	3283.3	3293.0	3266.7	3223.8	3183.9	3141.9	3326.1	3453.7	3825.9	3980.9	3240.4
32.5°	3415.8	3436.2	3421.6	3393.4	3341.7	3242.3	3342.7	3455.7	3849.3	4059.7	3264.7
35°	3579.4	3602.8	3616.4	3610.6	3544.3	3420.6	3447.9	3543.4	3911.6	4204.9	3331.0
37.5°	3740.2	3760.7	3837.6	3863.9	3805.5	3688.6	3652.5	3715.8	4049.0	4394.9	3450.8
40°	3924.3	3951.6	4059.7	4160.1	4131.8	4009.0	3942.8	3995.4	4259.4	4681.3	3677.8
42.5°	4100.6	4149.4	4314.0	4491.4	4517.6	4380.3	4336.4	4353.9	4571.2	5093.4	3994.5
45°	4351.1	4396.9	4609.2	4849.8	4973.6	4866.4	4821.6	4818.7	4998.9	5673.1	4507.9
47.5°	4712.5	4753.4	5003.8	5241.5	5461.7	5476.3	5391.6	5420.8	5536.7	6351.1	5137.3
50°	5155.7	5252.2	5416.9	5664.3	5958.6	6196.3	6222.6	6183.6	6283.0	7136.4	5893.2
52.5°	5799.8	5836.8	5987.8	6191.4	6536.3	6939.7	7252.4	7198.8	7167.6	7884.7	6657.1
55°	6280.1	6329.8	6564.5	6844.1	7349.8	7881.8	8559.8	8578.3	8184.8	8603.7	7404.4
57.5°	6134.9	6210.9	6566.5	7128.7	8240.3	9212.6	9717.3	9729.9	9125.9	9302.2	8248.0
60°	5389.6	5425.6	5935.1	6685.3	8316.2	10654.5	11358.9	11256.6	10083.6	10083.6	8993.4
62.5°	3822.0	3878.5	4291.6	5395.4	7510.5	11155.2	13324.9	13113.5	11402.8	10830.8	9437.7
65°	2442.5	2387.9	2661.7	3406.0	5595.2	10415.8	15036.7	15049.3	12643.9	11130.0	9195.1
67°	1769.3	1747.8	1826.7	2328.5	3793.8	8755.7	15072.8	15740.1	13357.0	10940.9	8419.5
67.5°	1618.2	1634.8	1692.3	2100.5	3446.9	7967.5	14909.1	15699.2	13517.8	10826.9	8139.0
70°	1226.6	1198.3	1260.7	1485.7	2066.4	5026.2	12825.1	14398.6	13318.1	9695.8	6503.2
72.5°	902.2	899.3	986.0	1214.9	1591.0	2677.2	9627.6	11544.9	10880.5	7382.9	4094.8
75°	608.9	636.2	774.5	1015.2	1441.9	1736.1	6563.6	8375.7	7553.4	4192.3	1673.7
77.5°	346.9	348.7	498.8	815.4	1294.8	1397.1	3889.2	5336.0	3998.4	1394.1	496.9
80°	150.0	164.7	247.4	592.3	1073.6	1237.3	2230.1	2932.5	1617.3	295.2	160.7
82.5°	55.5	65.3	109.2	364.4	783.3	1019.1	1347.4	1400.0	548.5	104.2	100.4
85°	0.0	2.0	39.9	170.5	408.2	455.0	900.2	830.1	242.6	49.7	65.3
87.5°	0.0	0.0	0.0	17.5	53.6	169.5	279.6	311.8	58.5	17.5	15.6
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°	3864.9	3864.9	3864.9	3864.9	3864.9	3864.9	3864.9	3864.9	3864.9	3864.9	3864.9
2.5°	3835.7	3772.3	3613.5	3454.8	3336.8	3238.4	3090.3	3009.5	2966.6	2903.3	2907.2
5°	3739.2	3610.6	3331.0	3041.6	2807.8	2579.8	2307.0	2196.9	2104.4	2051.8	2016.7
7.5°	3596.0	3406.0	2991.9	2606.1	2246.7	1848.2	1549.1	1349.3	1214.9	1165.2	1117.5
10°	3439.1	3186.8	2648.0	2113.2	1614.3	1203.2	949.9	766.7	701.5	641.0	646.9
12.5°	3294.0	2987.1	2332.4	1667.9	1131.1	764.8	596.3	521.2	499.8	493.0	493.0
15°	3175.1	2796.1	1993.4	1253.9	775.5	549.5	477.4	457.0	449.1	447.2	447.2
17.5°	3048.5	2614.9	1687.4	926.5	564.1	459.9	435.5	421.9	418.9	416.9	416.9
20°	2935.5	2432.7	1397.1	689.7	455.9	414.1	398.5	389.7	386.8	384.8	385.8
22.5°	2828.3	2271.0	1124.3	521.2	401.4	377.0	361.4	352.7	346.9	341.9	343.0
25°	2732.8	2115.1	904.1	426.7	361.4	340.0	324.4	311.8	299.1	293.2	292.3
27.5°	2665.6	1978.7	704.4	365.3	325.4	302.0	282.5	266.9	250.4	241.6	239.7
30°	2610.1	1840.4	557.3	322.5	289.3	266.9	242.6	220.2	202.6	193.9	190.0
32.5°	2574.0	1708.8	439.4	287.4	259.2	231.8	204.6	182.2	162.7	153.9	152.0
35°	2568.2	1598.7	359.5	258.2	231.8	202.6	174.4	150.0	133.5	124.7	122.8
37.5°	2610.1	1514.0	301.1	234.8	209.5	177.3	146.1	123.7	109.2	102.3	101.3
40°	2722.1	1460.5	261.1	215.3	189.0	153.9	124.7	105.2	90.6	83.8	83.8
42.5°	2935.5	1462.3	234.8	196.8	168.6	131.5	106.2	87.7	75.0	69.1	67.3
45°	3268.6	1528.6	212.3	178.3	149.1	114.0	90.6	72.1	59.4	54.6	54.6
47.5°	3714.9	1660.1	192.9	159.8	131.5	97.4	77.0	58.5	47.8	42.8	42.8
50°	4298.4	1871.5	176.3	144.2	116.9	83.8	62.3	47.8	37.0	33.1	32.2
52.5°	4908.3	2132.7	156.8	130.5	100.4	71.1	50.7	37.0	28.3	25.4	24.4
55°	5581.5	2387.9	138.4	116.9	81.8	59.4	39.9	29.2	20.4	17.5	17.5
57.5°	6260.6	2638.3	116.0	97.4	64.3	43.8	31.2	21.5	13.6	10.7	10.7
60°	6835.4	2719.1	98.4	78.9	48.7	31.2	22.4	13.6	7.8	4.9	4.9
62.5°	6914.3	2446.3	82.8	60.4	35.1	21.5	11.7	7.8	2.9	2.0	2.0
65°	6485.7	1987.5	69.1	45.8	23.4	10.7	4.9	2.9	0.9	0.0	0.0
67°	5811.4	1611.4	56.5	34.1	16.6	6.8	2.9	0.9	0.0	0.0	0.0
67.5°	5639.0	1536.4	54.6	32.2	14.6	5.9	2.0	0.9	0.0	0.0	0.0
70°	4425.0	1150.6	39.0	19.5	8.8	3.9	0.0	0.0	0.0	0.0	0.0
72.5°	2750.4	650.8	28.3	11.7	5.9	2.0	0.0	0.0	0.0	0.0	0.0
75°	1039.5	228.0	19.5	7.8	3.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	323.5	86.7	11.7	5.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	109.2	33.1	7.8	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	67.3	13.6	4.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	41.9	5.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.8	2.0	0.9	0.0	0.0	0.0	0.0	0.0	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)