

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: P459331

Luminaire Tested: **GALN-SA8A-735-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459331
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8A-735-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28154 lumens
Efficiency: N/A
Efficacy: 115.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

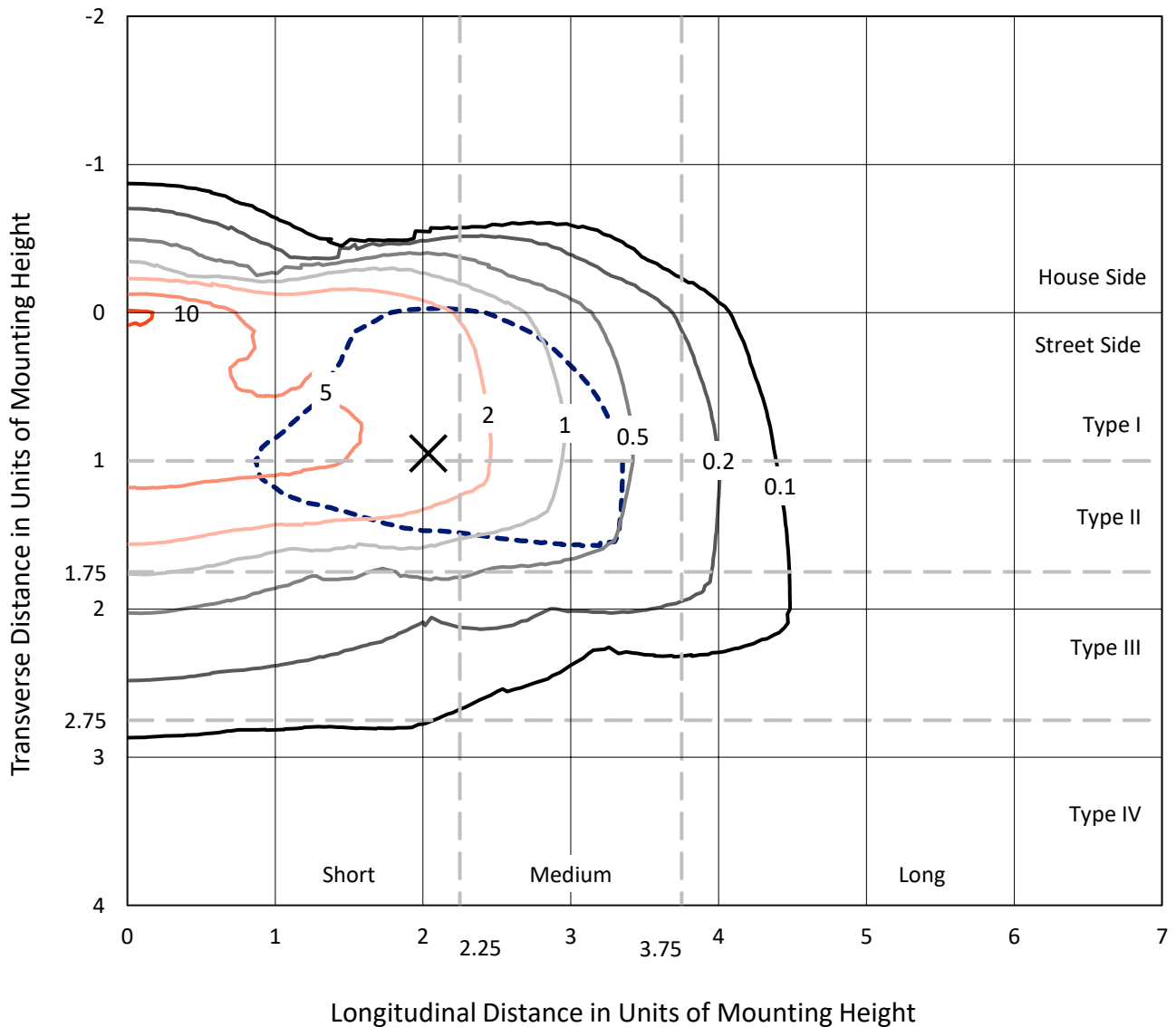
Input Watts (W): 244
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

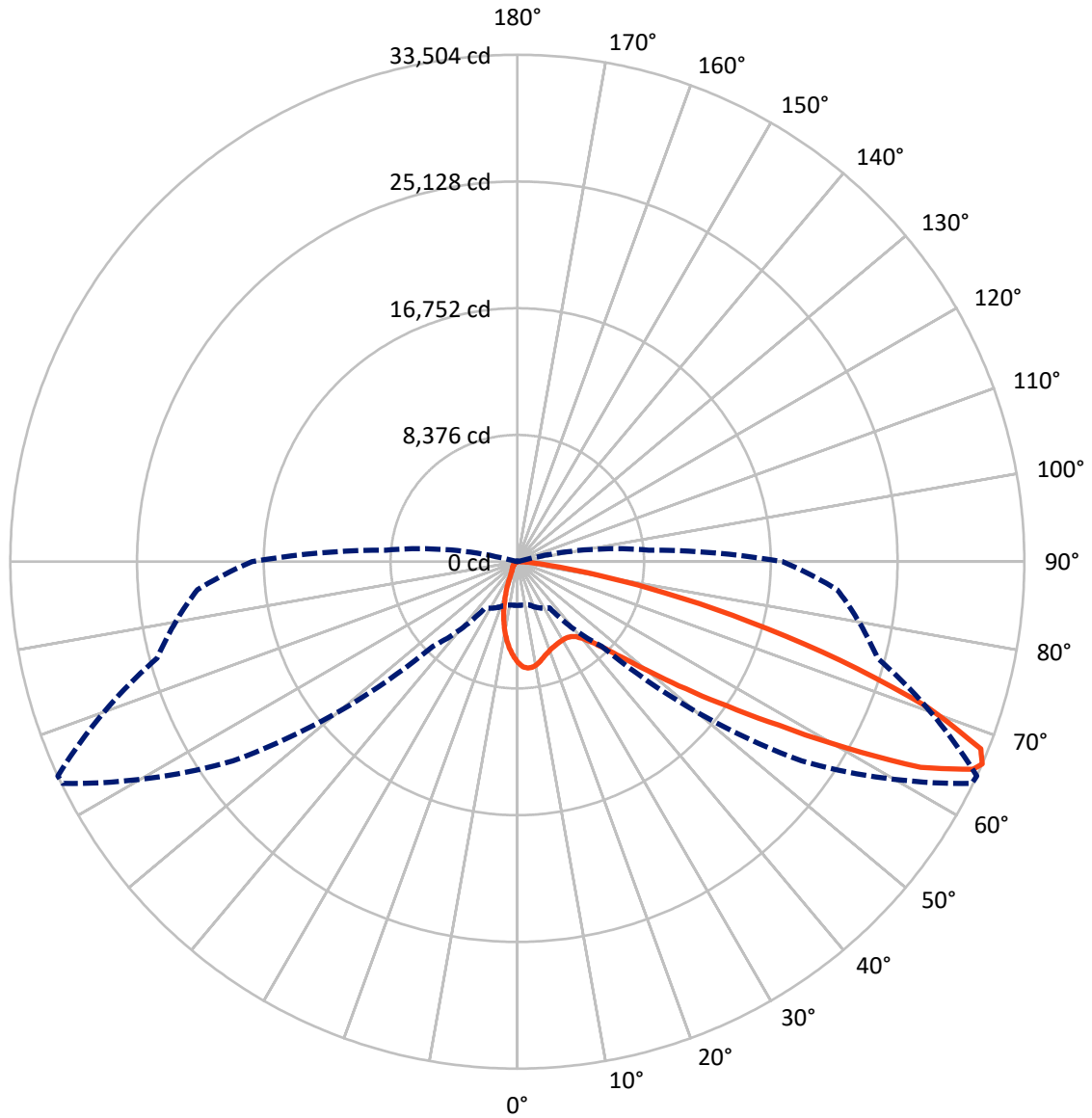
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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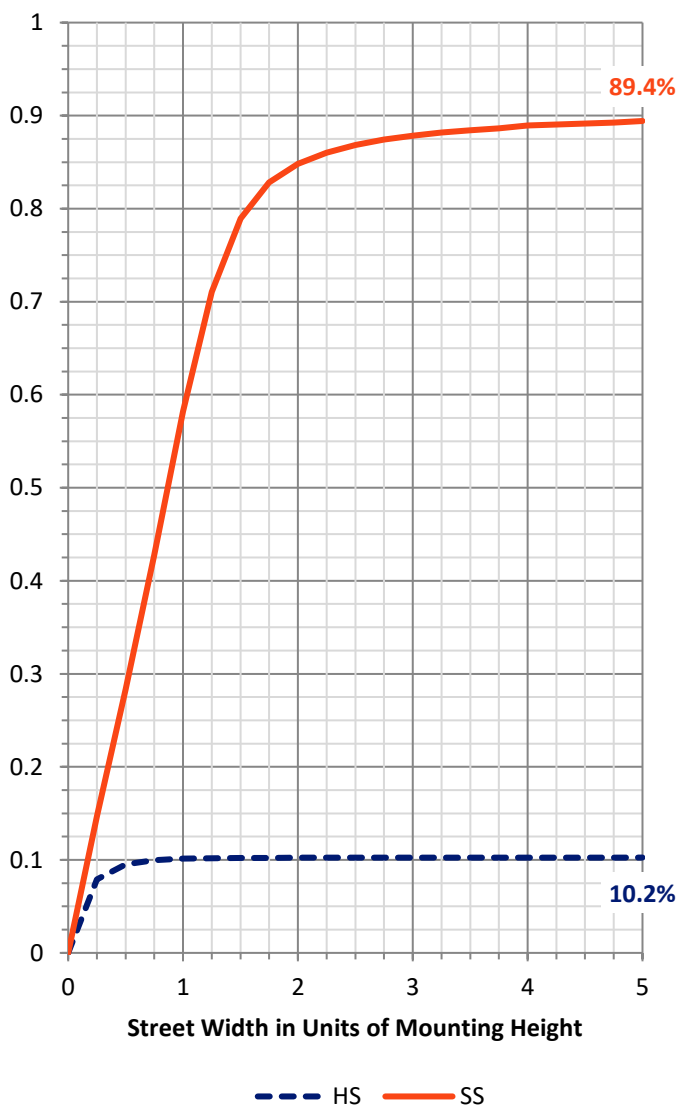
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2911.5	0.0	2911.5
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	25242.5	0.0	25242.5
	% Fixture	89.7	0.0	89.7
Total	Lumens	28154.0	0.0	28154.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	546.0	1.9
10°-20°	1189.7	4.2
20°-30°	1704.3	6.1
30°-40°	2489.2	8.8
40°-50°	4174.0	14.8
50°-60°	6965.7	24.7
60°-70°	7393.9	26.3
70°-80°	3348.6	11.9
80°-90°	342.6	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°	28154.0	100.0
0°-180°	28154.0	100.0

Coefficient of Utilization



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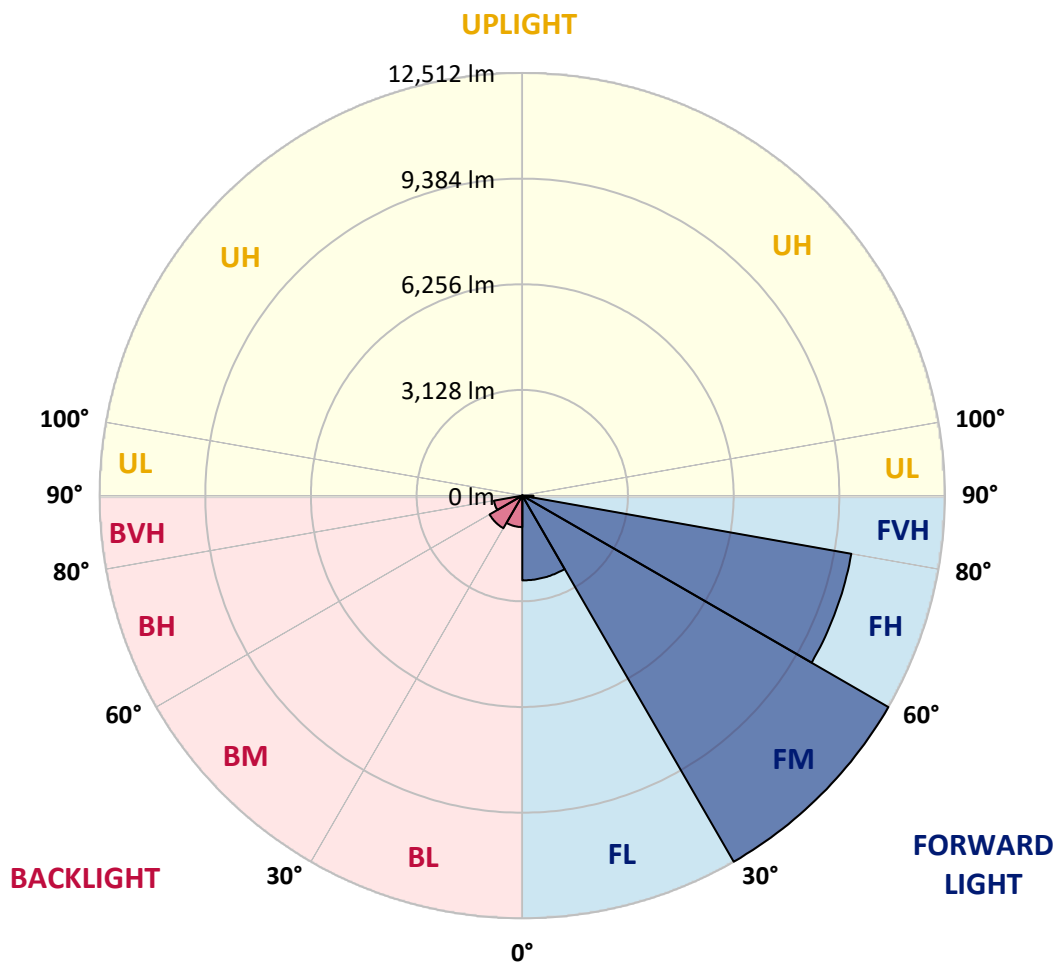
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2508.6	8.9			
FM	(30°-60°)	12512.3	44.4			
FH	(60°-80°)	9889.9	35.1			G4/12000
FVH	(80°-90°)	331.7	1.2			G3/500
BL	(0°-30°)	931.4	3.3	B2/1000		
BM	(30°-60°)	1116.6	4.0	B2/2500		
BH	(60°-80°)	852.6	3.0	B2/1000		G2/1000
BVH	(80°-90°)	10.9	0.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	6676.4	6676.4	6676.4	6676.4	6676.4	6676.4	6676.4	6676.4	6676.4	6676.4	6676.4
2.5°	7035.7	7043.4	7052.9	7066.2	7075.7	7047.2	7007.2	6961.6	6952.1	6855.1	6737.2
5°	6659.2	6670.6	6754.3	6800.0	6902.6	6995.8	7054.8	7062.4	7058.6	6967.3	6779.0
7.5°	6123.0	6155.3	6237.1	6317.0	6509.0	6685.9	6895.0	7041.4	7051.0	7026.2	6792.3
10°	5687.5	5708.5	5750.3	5908.1	6067.9	6337.9	6630.7	6906.4	6929.3	7028.1	6780.9
12.5°	5347.2	5377.6	5428.9	5550.6	5742.7	5997.5	6330.3	6701.1	6748.6	6992.0	6748.6
15°	5109.5	5124.7	5176.0	5295.8	5482.2	5718.0	6054.5	6486.2	6528.0	6944.5	6742.9
17.5°	4997.3	5014.4	5050.5	5145.6	5299.6	5518.3	5847.3	6313.2	6366.4	6914.0	6763.8
20°	5027.7	5042.9	5044.8	5094.3	5198.8	5383.3	5695.2	6151.5	6220.0	6895.0	6798.1
22.5°	5200.7	5202.6	5179.8	5157.0	5193.1	5326.2	5602.0	6048.8	6119.2	6891.2	6838.0
25°	5459.4	5465.1	5427.0	5347.2	5274.9	5343.4	5581.1	5982.3	6045.0	6881.7	6862.7
27.5°	5816.8	5814.9	5803.5	5670.4	5465.1	5419.4	5598.2	5946.2	5999.4	6855.1	6872.2
30°	6317.0	6301.7	6277.0	6126.8	5813.0	5603.9	5670.4	5923.3	5972.8	6817.1	6847.5
32.5°	6809.5	6866.5	6862.7	6720.1	6328.4	5932.8	5820.7	5953.8	5989.9	6792.3	6811.4
35°	7383.7	7381.8	7528.2	7475.0	7016.7	6353.1	6077.4	6054.5	6083.1	6809.5	6794.2
37.5°	7916.2	7965.6	8193.8	8248.9	7830.6	6946.4	6440.6	6271.3	6280.8	6925.5	6836.1
40°	8579.8	8674.9	9015.3	9199.7	8830.8	7826.8	6976.8	6668.7	6670.6	7210.7	6993.9
42.5°	9435.5	9585.7	9903.3	10211.3	10013.6	8868.8	7781.2	7298.2	7294.4	7712.7	7355.2
45°	10475.7	10580.2	10941.5	11430.2	11304.7	10323.5	8952.5	8273.7	8224.2	8536.1	7996.0
47.5°	11373.2	11515.8	11882.8	12440.0	13010.4	12099.6	10352.1	9614.3	9581.9	9846.2	9095.1
50°	11764.9	11890.4	12276.4	13058.0	14440.4	14430.9	12436.2	11570.9	11515.8	11658.4	10795.1
52.5°	11335.2	11453.1	11842.9	12816.5	15113.5	17271.8	15455.8	14025.9	13959.3	13776.7	12826.0
55°	9863.4	9960.3	10536.5	11654.6	14854.9	19165.8	19616.4	17058.8	16800.2	16090.9	15125.0
57.5°	7853.4	7804.0	8161.5	9460.2	13337.5	19800.9	23887.3	20837.2	20375.1	18091.4	17070.2
60°	5442.2	5594.4	5738.9	6594.6	10028.8	18699.9	26543.8	25587.3	24978.8	20059.5	18933.8
62.5°	4000.9	4101.6	4196.7	4592.2	6305.5	14931.0	27013.5	30466.7	29926.6	22149.3	20711.7
65°	3164.2	3171.8	3209.8	3599.6	4154.9	9709.3	24756.3	33218.2	33079.4	24161.1	21432.4
66°	2882.8	2884.7	2943.6	3361.9	3728.9	7906.7	22947.9	33427.4	33503.5	24644.1	21221.3
67.5°	2519.6	2512.0	2597.5	3021.6	3396.2	5700.9	19711.5	32579.3	33030.0	25014.9	20462.6
70°	1952.9	1943.4	2048.0	2534.8	3128.1	3803.1	13101.7	27973.7	28700.1	24256.2	18104.7
72.5°	1300.7	1308.3	1487.0	2000.4	2985.4	3348.6	7881.9	21280.3	22307.1	20031.0	14242.6
75°	758.7	772.0	975.5	1487.0	2591.8	3192.7	4461.0	15174.4	15830.4	13831.9	8872.6
77.5°	397.4	403.1	545.7	981.2	1987.1	2964.5	2972.1	9694.1	10002.2	6722.0	3512.2
80°	211.1	205.4	292.8	591.4	1367.2	2603.2	2411.2	5132.3	5335.8	1996.6	888.0
82.5°	79.9	87.5	155.9	387.9	808.2	1869.2	2076.5	2268.6	2198.2	439.3	372.7
85°	15.2	19.0	66.6	230.1	406.9	781.5	1530.7	1112.4	1030.6	165.4	214.9
87.5°	1.9	3.8	19.0	55.1	58.9	264.3	452.6	308.1	266.2	60.8	89.4
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°	6676.4	6676.4	6676.4	6676.4	6676.4	6676.4	6676.4	6676.4	6676.4	6676.4	6676.4
2.5°	6680.2	6628.8	6457.7	6288.4	6115.4	5959.5	5853.0	5679.9	5636.2	5573.5	5537.3
5°	6666.8	6547.0	6218.1	5858.7	5524.0	5162.7	4887.0	4620.8	4478.2	4405.9	4379.3
7.5°	6628.8	6438.7	5925.2	5362.4	4826.1	4286.1	3816.4	3458.9	3228.8	3071.0	2964.5
10°	6552.8	6290.3	5584.9	4810.9	4000.9	3287.8	2692.6	2240.0	1890.1	1779.9	1783.7
12.5°	6474.8	6124.9	5204.5	4198.6	3194.6	2295.2	1663.9	1306.4	1139.0	1083.9	1072.5
15°	6402.5	5967.1	4831.8	3605.3	2378.8	1487.0	1072.5	947.0	901.3	891.8	889.9
17.5°	6364.5	5820.7	4434.4	2926.5	1660.1	1009.7	859.5	825.3	812.0	802.5	798.7
20°	6332.2	5693.2	4054.1	2291.4	1135.2	827.2	770.1	737.8	715.0	705.5	699.8
22.5°	6309.4	5562.0	3660.5	1774.1	869.0	734.0	682.7	640.8	608.5	597.1	589.5
25°	6275.1	5417.5	3263.1	1296.9	732.1	652.2	593.3	543.8	502.0	481.1	477.3
27.5°	6225.7	5254.0	2827.6	960.3	654.1	580.0	507.7	446.9	405.0	382.2	384.1
30°	6145.8	5082.9	2392.2	762.5	591.4	505.8	427.8	368.9	329.0	311.9	310.0
32.5°	6050.7	4875.6	1992.8	654.1	534.3	439.3	357.5	306.1	275.7	262.4	260.5
35°	5961.4	4666.4	1585.9	587.6	475.4	378.4	300.4	256.7	233.9	222.5	224.4
37.5°	5911.9	4480.1	1236.0	534.3	427.8	325.2	258.6	220.6	199.7	190.2	188.3
40°	5944.3	4327.9	983.1	486.8	374.6	279.5	222.5	190.2	169.2	155.9	155.9
42.5°	6096.4	4261.4	792.9	441.2	325.2	241.5	194.0	163.5	140.7	127.4	129.3
45°	6560.4	4331.7	663.6	399.3	279.5	209.2	167.3	135.0	114.1	104.6	102.7
47.5°	7330.5	4596.1	574.3	355.6	239.6	178.7	140.7	112.2	91.3	83.7	81.8
50°	8676.8	5141.8	507.7	311.9	203.5	152.1	116.0	89.4	72.3	64.7	64.7
52.5°	10528.9	6332.2	460.2	262.4	171.1	129.3	95.1	72.3	57.0	51.3	49.4
55°	12464.7	7587.2	435.5	220.6	142.6	106.5	76.1	57.0	43.7	38.0	36.1
57.5°	14326.3	8572.2	406.9	178.7	114.1	81.8	58.9	43.7	30.4	26.6	24.7
60°	16111.9	9369.0	346.1	142.6	89.4	58.9	43.7	30.4	20.9	17.1	17.1
62.5°	17709.2	9832.9	271.9	114.1	68.5	41.8	28.5	22.8	15.2	11.4	11.4
65°	17895.5	9230.1	205.4	87.5	49.4	26.6	17.1	17.1	11.4	7.6	7.6
66°	17520.9	8718.6	180.6	79.9	43.7	22.8	15.2	13.3	9.5	5.7	5.7
67.5°	16684.2	7845.8	155.9	68.5	36.1	17.1	11.4	11.4	7.6	3.8	3.8
70°	14415.7	6408.2	123.6	51.3	26.6	13.3	7.6	7.6	5.7	3.8	3.8
72.5°	10987.2	4784.3	100.8	38.0	19.0	9.5	5.7	5.7	5.7	3.8	3.8
75°	6626.9	2576.6	78.0	28.5	17.1	7.6	3.8	5.7	7.6	5.7	3.8
77.5°	2441.6	876.6	60.8	22.8	13.3	7.6	3.8	3.8	7.6	5.7	5.7
80°	599.0	228.2	43.7	19.0	13.3	7.6	3.8	3.8	7.6	7.6	7.6
82.5°	277.6	97.0	30.4	17.1	13.3	7.6	3.8	3.8	5.7	7.6	7.6
85°	159.7	45.6	24.7	19.0	13.3	7.6	3.8	3.8	5.7	7.6	7.6
87.5°	64.7	22.8	22.8	19.0	15.2	9.5	3.8	3.8	3.8	5.7	5.7
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)