

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: P533486

Luminaire Tested: **GALN-SA8D-830-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533486
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-SA8D-830-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 1200mA 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: 41995 lumens
Efficiency: N/A
Efficacy: 85.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

Input Watts (W): 493
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

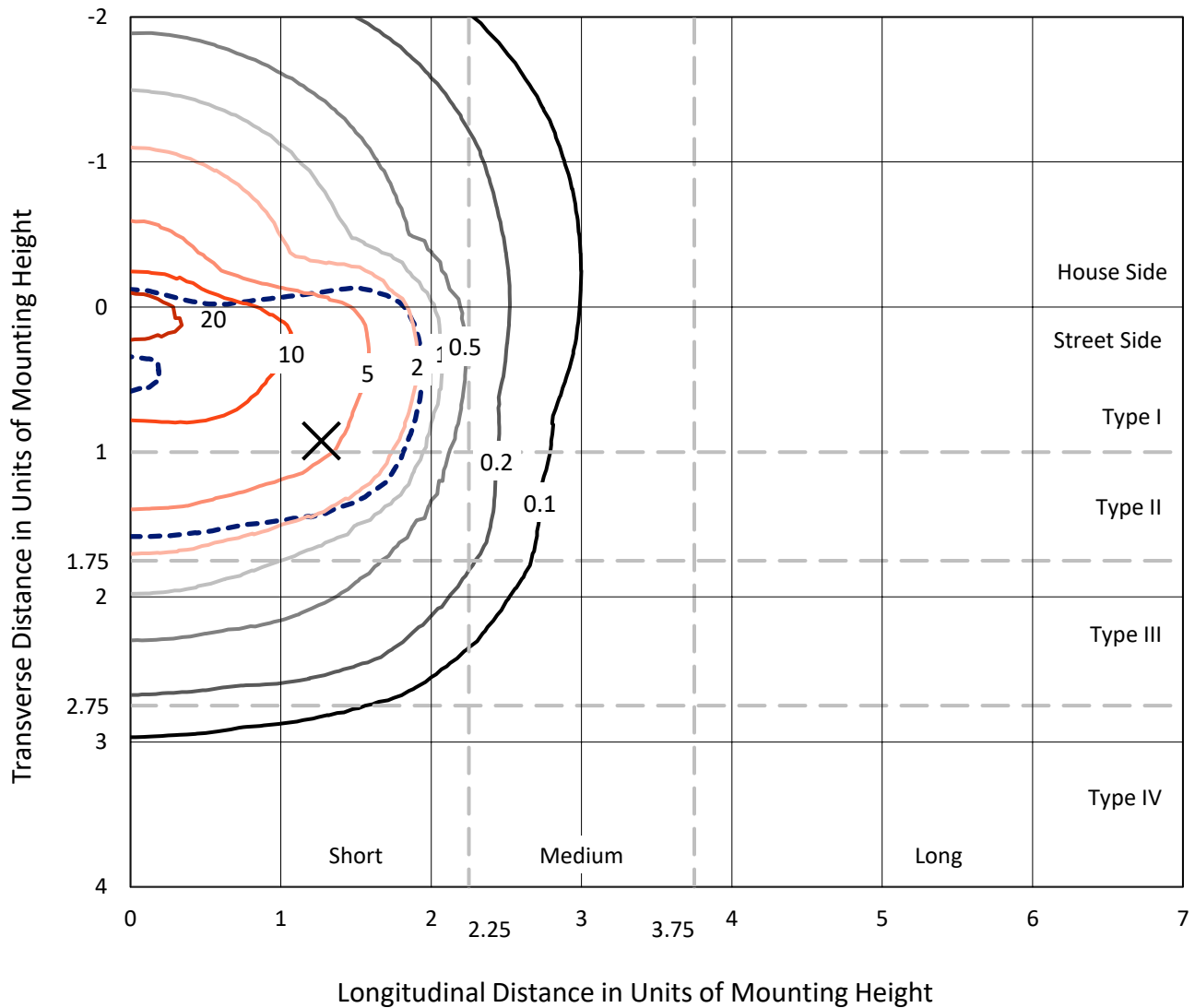


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

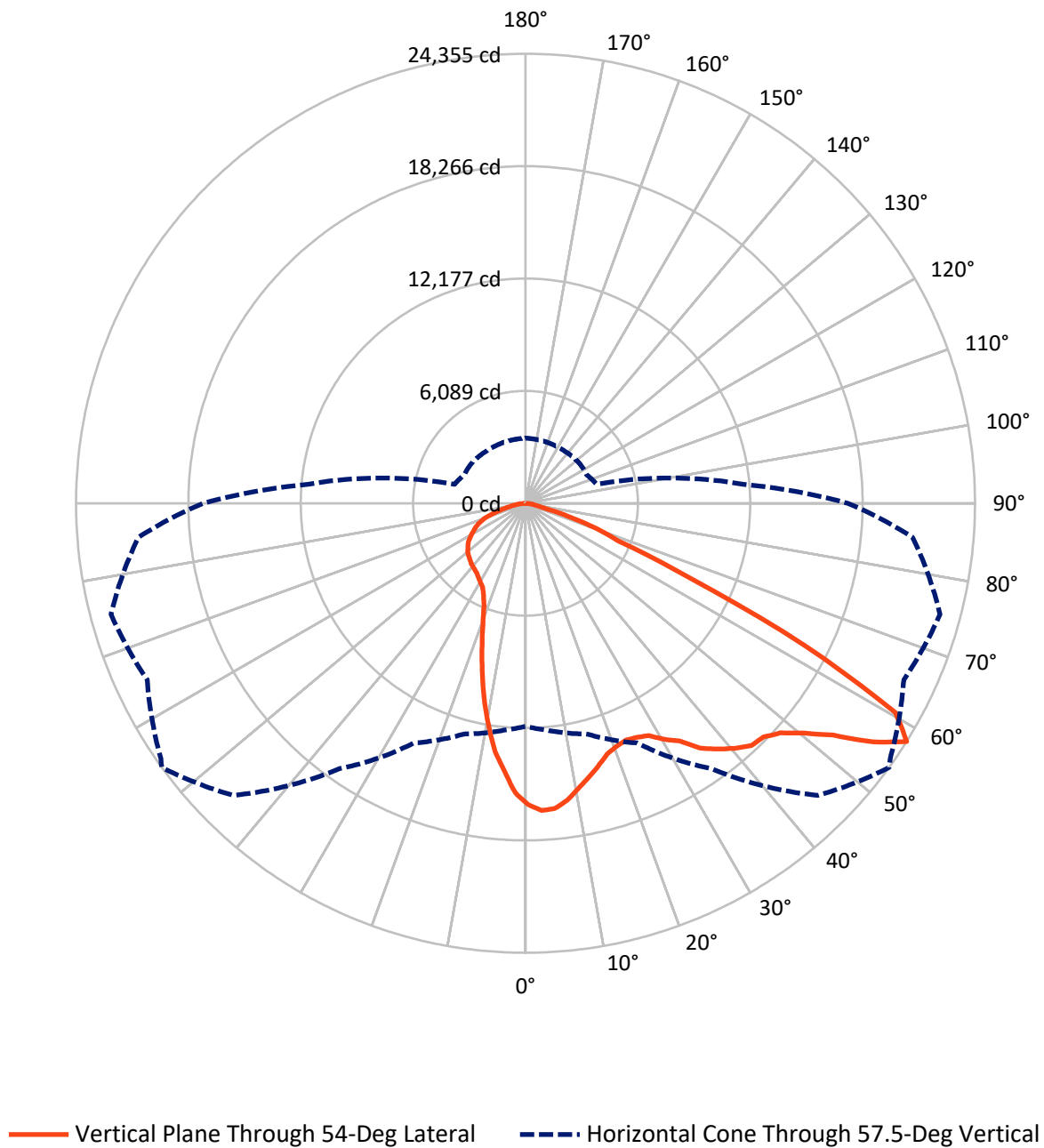


Based on 25 foot mounting height. Maximum calculated value = 26.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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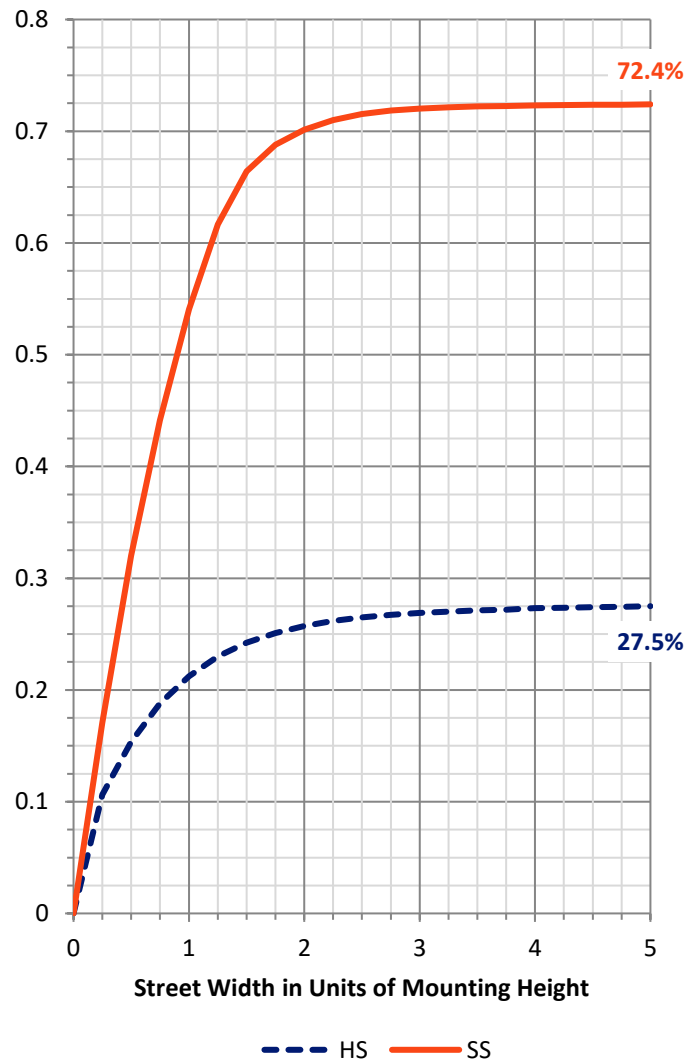
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11618.2	0.0	11618.2
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	30376.9	0.0	30376.9
	% Fixture	72.3	0.0	72.3
Total	Lumens	41995.0	0.0	41995.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1407.7	3.4
10°-20°	3259.3	7.8
20°-30°	4579.4	10.9
30°-40°	6402.1	15.2
40°-50°	8667.2	20.6
50°-60°	10557.0	25.1
60°-70°	5498.5	13.1
70°-80°	1408.9	3.4
80°-90°	214.9	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°	41995.0	100.0
0°-180°	41995.0	100.0

Coefficient of Utilization



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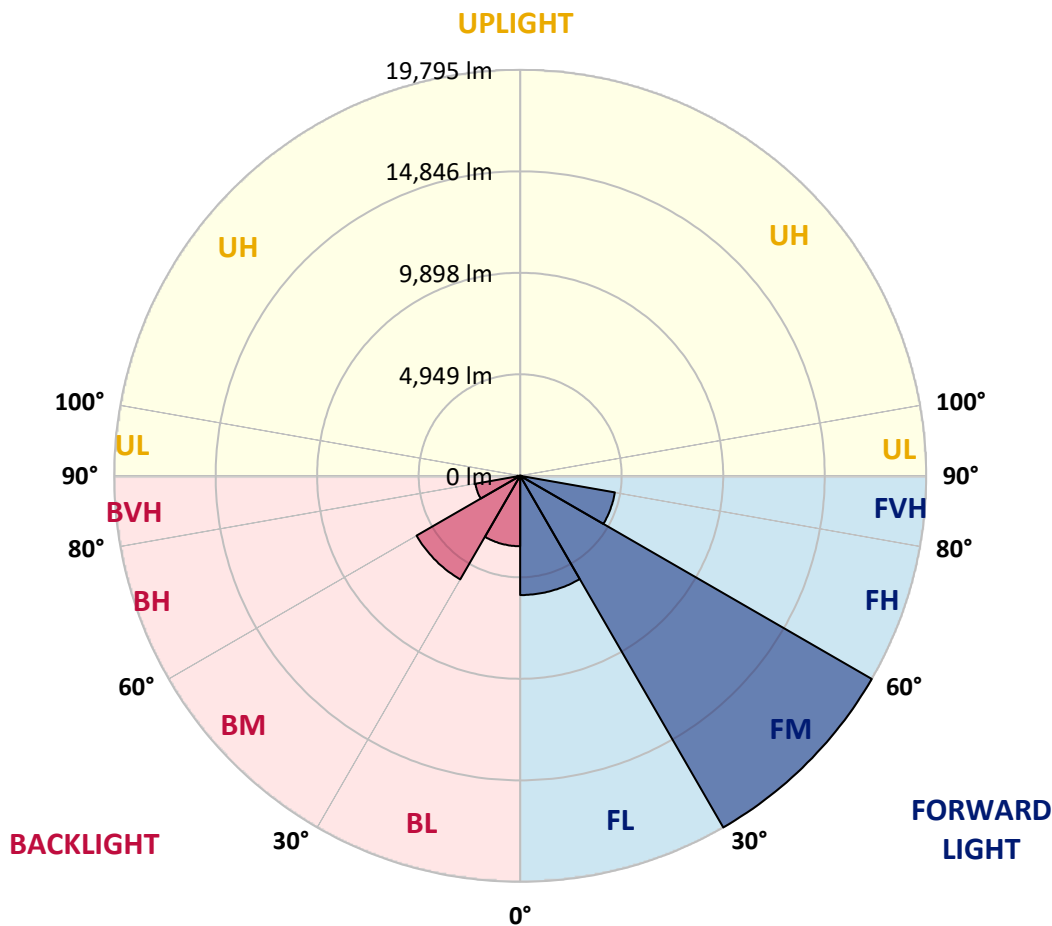
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5812.7	13.8			
FM	(30°-60°)	19795.1	47.1			
FH	(60°-80°)	4687.8	11.2			G2/5000
FVH	(80°-90°)	81.2	0.2			G1/100
BL	(0°-30°)	3433.8	8.2	B4/5000		
BM	(30°-60°)	5831.0	13.9	B4/8500		
BH	(60°-80°)	2219.6	5.3	B3/2500		G3/2500
BVH	(80°-90°)	133.7	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	16323.0	16323.0	16323.0	16323.0	16323.0	16323.0	16323.0	16323.0	16323.0	16323.0	16323.0
2.5°	16787.2	16722.4	16733.2	16819.6	16711.6	16668.4	16668.4	16457.9	16474.1	16328.4	16290.6
5°	16398.5	16247.4	16350.0	16479.5	16501.1	16544.3	16614.5	16560.5	16409.3	16252.8	15999.1
7.5°	15383.8	15518.7	15556.5	15648.2	15842.6	16020.7	16242.0	16090.9	16085.5	15928.9	15777.8
10°	14493.1	14412.2	14617.3	14752.2	15076.1	15373.0	15713.0	15696.8	15777.8	15599.7	15340.6
12.5°	13607.9	13543.1	13640.3	13947.9	14401.4	14833.2	15238.0	15086.9	15518.7	15486.3	14930.3
15°	12668.7	12717.2	12857.6	13143.7	13737.4	14255.6	14768.4	14773.8	15157.0	15286.6	14541.7
17.5°	12010.1	11956.1	12134.3	12560.7	13089.7	13710.4	14293.4	14412.2	15000.5	15076.1	14422.9
20°	11518.9	11594.5	11826.6	12042.5	12652.5	13402.8	14061.3	14104.5	14968.1	15173.2	14234.0
22.5°	11400.2	11357.0	11432.6	11783.4	12285.4	13100.5	13937.1	14099.1	14962.7	15140.9	13877.8
25°	11276.0	11416.4	11411.0	11761.8	12128.9	12857.6	14039.7	14217.8	15248.8	15308.2	13926.3
27.5°	11556.7	11540.5	11691.7	11718.6	12172.1	12922.4	14255.6	14390.6	15723.8	15675.2	13964.1
30°	11837.4	11756.4	11848.2	12166.7	12377.2	13294.8	14849.4	14838.6	16339.2	16306.8	14082.9
32.5°	12182.9	12145.1	12204.4	12485.1	12841.4	13791.4	15351.4	15669.8	16965.3	17170.4	14493.1
35°	12247.6	12404.2	12544.5	12922.4	13429.7	14595.7	16296.0	16560.5	17688.6	18331.0	15275.8
37.5°	12657.9	12717.2	13046.5	13715.8	14180.0	15669.8	16895.1	17062.5	18347.2	19075.9	16101.7
40°	13095.1	13165.3	13661.9	14363.6	15000.5	16371.6	17456.5	17510.5	18557.7	19648.0	16641.4
42.5°	13688.8	13753.6	14244.8	15124.7	15977.5	16970.7	17953.1	18012.5	18541.5	20306.6	17499.7
45°	14304.2	14460.7	15038.3	16036.9	16803.4	17672.4	18066.5	18309.4	18692.6	20894.9	18196.0
47.5°	15167.8	15313.6	15788.6	16765.6	17661.6	18287.8	18590.1	18827.6	19054.3	21407.7	18644.0
50°	16085.5	16112.5	16690.0	17575.3	18233.8	18984.1	19567.1	19648.0	19529.3	22001.5	19405.1
52.5°	16760.2	16846.6	17294.6	18158.2	19140.6	20063.7	20862.5	20948.9	20716.8	22222.8	19664.2
55°	15642.9	15594.3	16323.0	17472.7	19750.6	21672.2	22832.7	22897.5	21580.4	22908.3	20511.7
57.5°	12091.1	12323.2	12943.9	14331.2	17548.3	22384.7	24354.9	24122.8	22616.8	23253.8	21051.5
60°	8787.6	8733.7	9149.3	10077.7	13224.6	19291.8	23027.1	23264.6	21769.4	20959.7	17359.4
62.5°	7157.5	7081.9	7114.3	7146.7	8533.9	12803.6	17046.3	17040.9	16765.6	15065.3	11707.8
65°	5721.7	5899.8	5916.0	6158.9	6337.0	7648.7	9878.0	10407.0	9062.9	7432.8	5392.4
67.5°	4312.8	4248.1	4464.0	5327.6	5662.3	5522.0	5392.4	5451.8	3875.6	2796.1	2634.1
70°	2542.4	2515.4	2774.5	3713.7	4663.7	4388.4	4064.6	4069.9	2661.1	1954.0	2175.3
72.5°	1392.6	1387.2	1441.2	1883.8	2650.3	2752.9	2439.8	2515.4	1587.0	1581.6	1700.3
75°	777.3	761.1	744.9	831.3	955.4	1009.4	1031.0	1041.8	1090.4	1219.9	1268.5
77.5°	286.1	275.3	275.3	318.5	404.8	507.4	642.3	653.1	771.9	885.2	933.8
80°	97.2	108.0	145.7	199.7	269.9	361.7	437.2	448.0	545.2	620.7	636.9
82.5°	59.4	64.8	97.2	140.3	194.3	253.7	323.9	329.3	404.8	453.4	475.0
85°	27.0	32.4	54.0	86.4	124.1	167.3	172.7	172.7	167.3	172.7	161.9
87.5°	0.0	0.0	10.8	10.8	10.8	16.2	21.6	16.2	27.0	32.4	32.4
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°	16323.0	16323.0	16323.0	16323.0	16323.0	16323.0	16323.0	16323.0	16323.0	16323.0	16323.0
2.5°	16177.2	16117.9	15934.3	15772.4	15723.8	15507.9	15189.4	15227.2	14995.1	15103.1	14989.7
5°	15955.9	15756.2	15286.6	15086.9	14563.3	14325.8	14163.9	13759.0	13570.1	13532.3	13370.4
7.5°	15389.2	15265.0	14676.6	14136.9	13580.9	13105.9	12495.9	12080.3	11783.4	11702.5	11464.9
10°	14941.1	14665.8	13850.8	13030.3	12236.8	11411.0	10617.5	9996.7	9694.5	9343.6	9224.9
12.5°	14498.5	14082.9	12981.7	11929.2	10903.6	9861.8	8901.0	8145.3	7486.8	7330.2	7276.2
15°	14223.2	13499.9	12204.4	10936.0	9478.6	8118.3	7157.5	6660.9	6256.1	6088.7	6207.5
17.5°	13861.6	13019.5	11459.5	9770.0	8166.9	6914.6	6110.3	5802.6	5656.9	5673.1	5624.5
20°	13408.2	12566.1	10482.5	8712.1	6995.6	5997.0	5538.2	5424.8	5446.4	5484.2	5468.0
22.5°	13084.3	12015.5	9775.4	7632.5	6045.5	5489.6	5300.6	5219.7	5289.9	5322.2	5295.3
25°	12836.0	11545.9	8917.2	6677.1	5495.0	5203.5	5117.1	5111.7	5219.7	5262.9	5235.9
27.5°	12609.3	11108.7	8064.3	5948.4	5127.9	4982.2	4955.2	5020.0	5090.1	5133.3	5171.1
30°	12474.3	10774.0	7265.5	5338.4	4944.4	4874.2	4825.6	4885.0	4922.8	4966.0	4944.4
32.5°	12603.9	10536.5	6493.6	4993.0	4793.3	4723.1	4787.9	4750.1	4814.8	4852.6	4793.3
35°	13008.7	10326.0	5943.0	4809.4	4620.5	4647.5	4658.3	4642.1	4669.1	4636.7	4706.9
37.5°	13408.2	10250.4	5435.6	4652.9	4539.6	4539.6	4528.8	4496.4	4550.4	4539.6	4571.9
40°	13915.6	10299.0	5003.8	4485.6	4464.0	4453.2	4410.0	4404.6	4383.0	4388.4	4399.2
42.5°	14358.2	10407.0	4755.5	4377.6	4393.8	4415.4	4334.4	4269.7	4296.7	4242.7	4242.7
45°	14827.8	10504.1	4534.2	4302.1	4285.9	4280.5	4215.7	4177.9	4156.3	4161.7	4210.3
47.5°	15567.3	10644.5	4366.8	4199.5	4210.3	4129.3	4113.1	4064.6	4086.1	4118.5	4123.9
50°	16090.9	10941.4	4237.3	4080.7	4118.5	4064.6	3967.4	3945.8	3945.8	3999.8	3989.0
52.5°	16457.9	11357.0	4113.1	3951.2	3967.4	3924.2	3891.8	3843.2	3810.9	3886.4	3924.2
55°	17580.7	12047.9	4080.7	3843.2	3837.8	3794.7	3735.3	3686.7	3670.5	3681.3	3756.9
57.5°	17472.7	11832.0	3978.2	3654.3	3643.5	3584.1	3524.8	3508.6	3503.2	3514.0	3535.6
60°	14185.4	8739.1	3551.8	3438.4	3422.2	3411.4	3352.0	3287.3	3254.9	3287.3	3260.3
62.5°	9386.8	5851.2	3130.7	3179.3	3190.1	3163.1	3066.0	3001.2	3012.0	3049.8	2990.4
65°	4609.7	3438.4	2839.2	2968.8	2979.6	2904.0	2812.3	2736.7	2698.9	2731.3	2704.3
67.5°	2634.1	2628.7	2601.7	2736.7	2731.3	2655.7	2510.0	2445.2	2380.4	2391.2	2375.0
70°	2234.7	2277.9	2331.9	2412.8	2407.4	2321.1	2148.3	2099.7	2008.0	1997.2	1970.2
72.5°	1759.7	1835.3	1954.0	2013.4	1964.8	1856.8	1743.5	1662.5	1581.6	1533.0	1549.2
75°	1306.3	1414.2	1479.0	1516.8	1441.2	1381.8	1290.1	1192.9	1095.8	1052.6	1036.4
77.5°	950.0	982.4	1041.8	1068.8	1020.2	960.8	906.8	809.7	717.9	658.5	642.3
80°	663.9	685.5	728.7	728.7	728.7	701.7	631.5	534.4	475.0	421.0	410.2
82.5°	464.2	485.8	529.0	507.4	502.0	469.6	426.4	350.9	286.1	248.3	237.5
85°	161.9	178.1	215.9	259.1	275.3	269.9	242.9	194.3	151.1	124.1	113.4
87.5°	37.8	37.8	43.2	37.8	37.8	43.2	37.8	37.8	37.8	27.0	21.6
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)