

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: P943642

Luminaire Tested: **GALN-SB8B-722-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943642
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB8B-722-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37286 lumens
Efficiency: N/A
Efficacy: 127.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 292.8
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

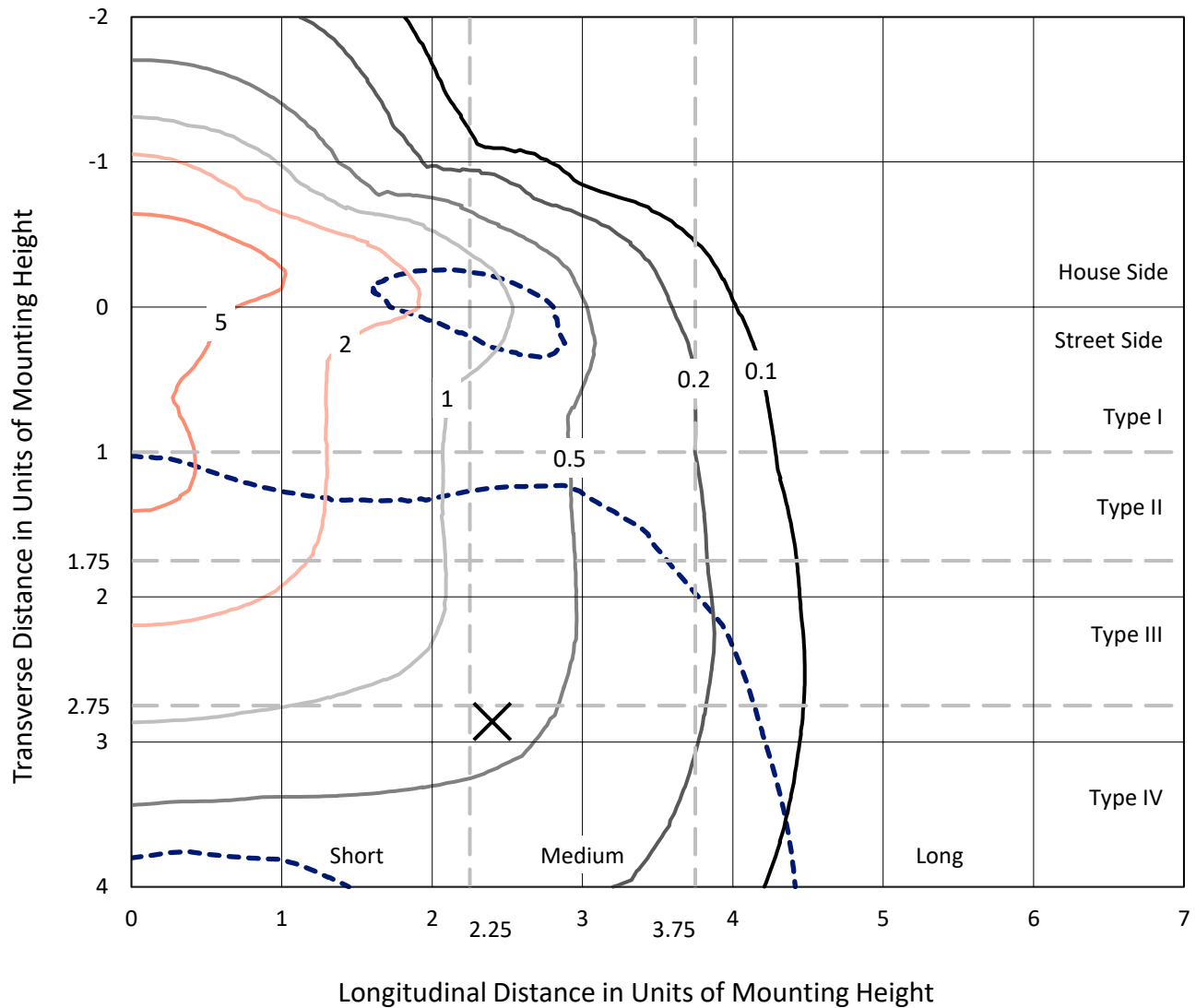


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd

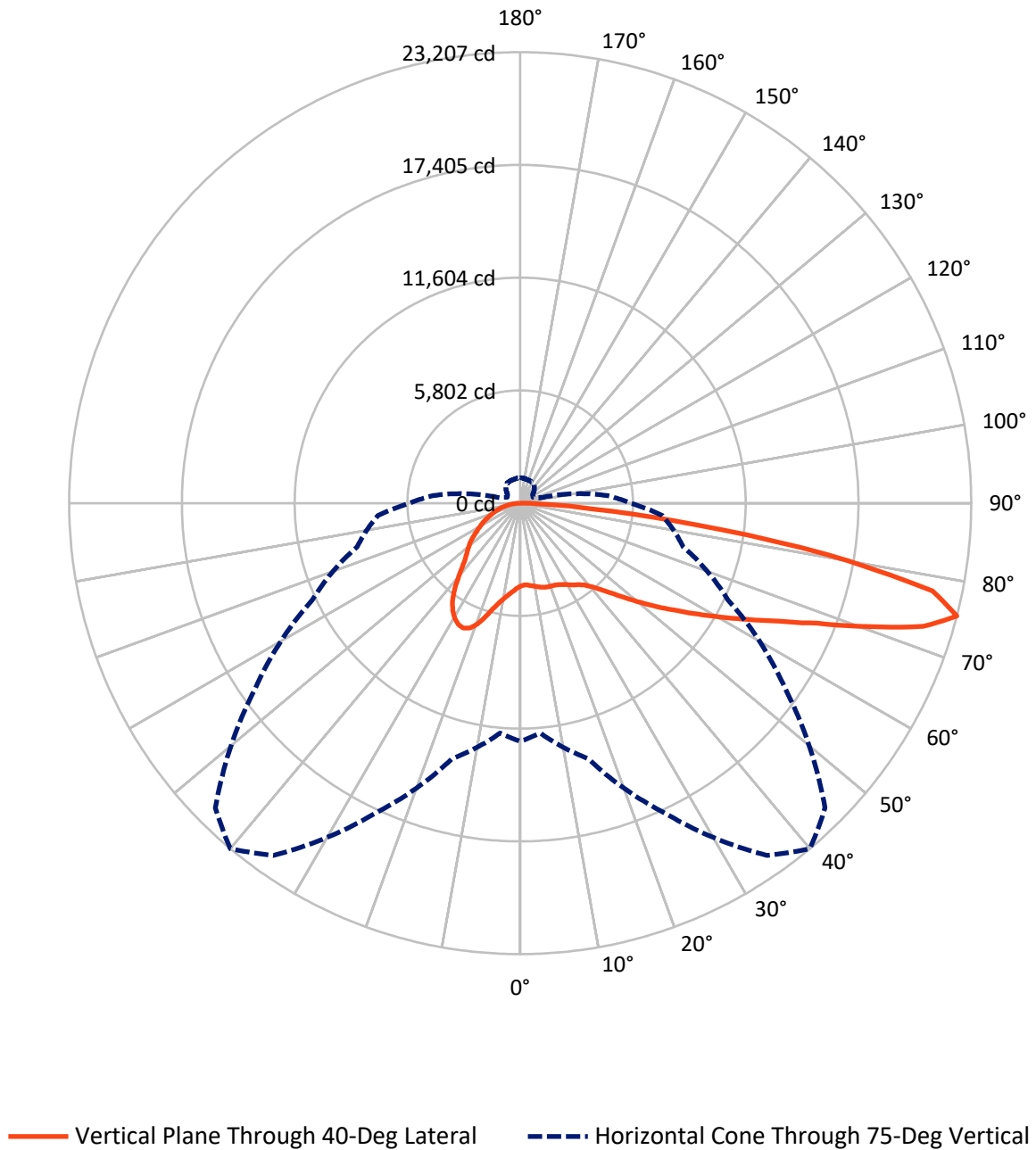


Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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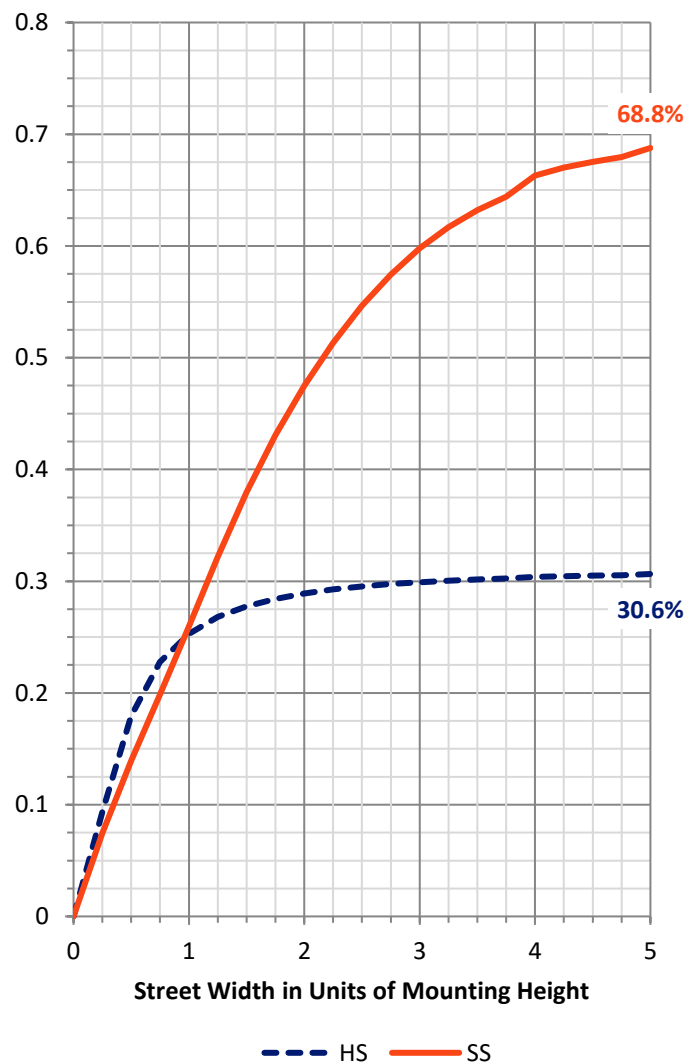
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11552.4	0.0	11552.4
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	25733.6	0.0	25733.6
	% Fixture	69.0	0.0	69.0
Total	Lumens	37286.0	0.0	37286.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	425.6	1.1
10°-20°	1428.9	3.8
20°-30°	2609.1	7.0
30°-40°	3700.4	9.9
40°-50°	4996.7	13.4
50°-60°	6721.9	18.0
60°-70°	8531.6	22.9
70°-80°	7743.0	20.8
80°-90°	1128.7	3.0
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°	37286.0	100.0
0°-180°	37286.0	100.0

Coefficient of Utilization



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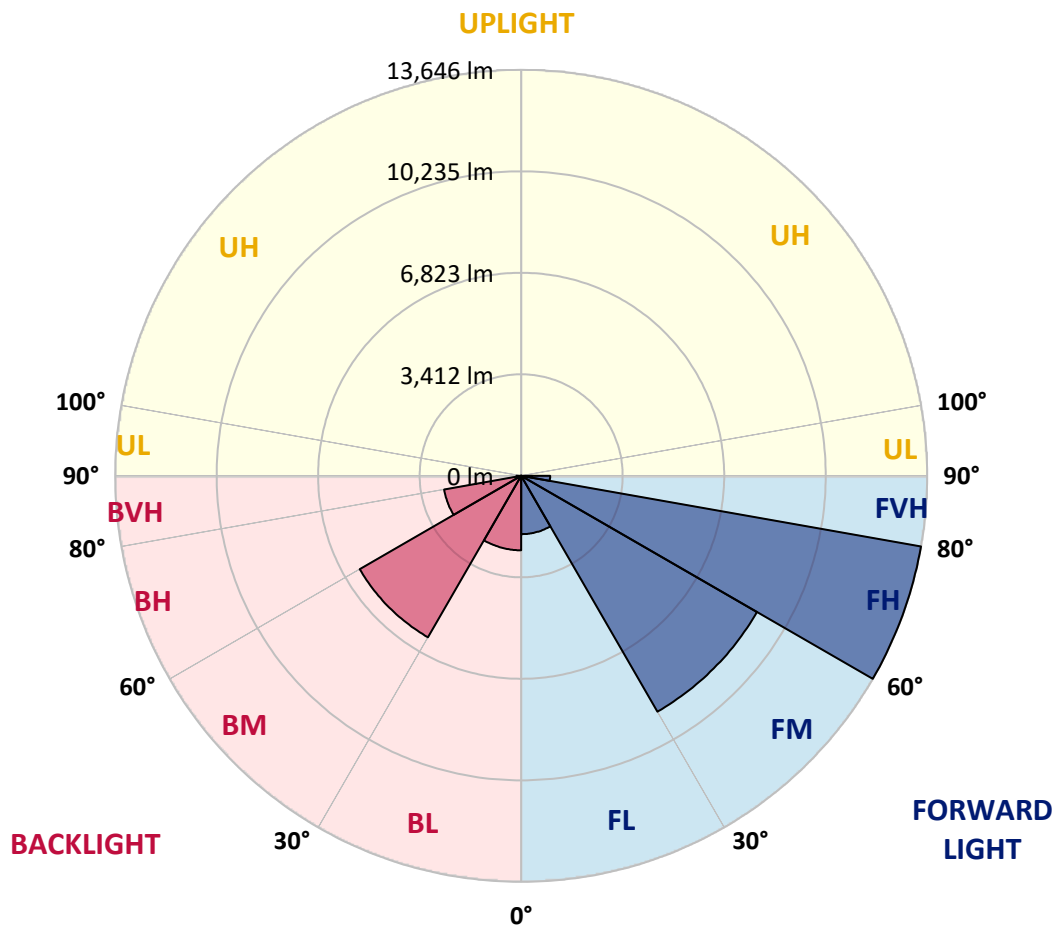
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1961.3	5.3			
FM	(30°-60°)	9152.9	24.5			
FH	(60°-80°)	13646.1	36.6			G5
FVH	(80°-90°)	973.3	2.6			G5
BL	(0°-30°)	2502.4	6.7	B4/5000		
BM	(30°-60°)	6266.2	16.8	B4/8500		
BH	(60°-80°)	2628.5	7.0	B4/5000		G4/5000
BVH	(80°-90°)	155.4	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	4263.7	4263.7	4263.7	4263.7	4263.7	4263.7	4263.7	4263.7	4263.7	4263.7	4263.7
2.5°	4198.4	4222.2	4216.2	4208.3	4208.3	4210.3	4208.3	4222.2	4236.0	4249.9	4271.6
5°	4242.0	4265.7	4253.8	4243.9	4236.0	4234.0	4228.1	4226.1	4234.0	4251.8	4281.5
7.5°	4327.0	4350.7	4332.9	4315.1	4299.3	4291.4	4283.5	4271.6	4265.7	4275.6	4317.1
10°	4421.9	4445.6	4423.9	4392.2	4366.5	4356.7	4348.7	4336.9	4329.0	4334.9	4380.4
12.5°	4516.8	4540.6	4510.9	4467.4	4433.8	4427.8	4418.0	4414.0	4412.0	4410.0	4455.5
15°	4605.8	4625.6	4588.0	4536.6	4501.0	4491.1	4481.2	4487.2	4497.1	4508.9	4560.3
17.5°	4675.0	4694.8	4639.4	4572.2	4538.6	4534.6	4528.7	4548.5	4576.2	4605.8	4669.1
20°	4738.3	4758.1	4686.9	4595.9	4556.4	4556.4	4558.4	4599.9	4639.4	4683.0	4770.0
22.5°	4827.3	4843.1	4756.1	4631.5	4574.2	4578.1	4594.0	4635.5	4684.9	4744.3	4864.9
25°	4959.8	4971.7	4864.9	4698.8	4633.5	4645.4	4659.2	4679.0	4726.5	4795.7	4957.8
27.5°	5173.4	5183.3	5042.9	4817.4	4718.6	4738.3	4758.1	4744.3	4766.0	4825.3	5033.0
30°	5474.0	5479.9	5301.9	5003.3	4862.9	4872.8	4876.8	4819.4	4777.9	4825.3	5086.4
32.5°	5830.0	5828.0	5616.4	5228.8	5027.1	5017.2	4983.5	4870.8	4773.9	4815.5	5133.8
35°	6381.7	6360.0	6087.1	5545.2	5213.0	5151.6	5072.5	4928.2	4793.7	4805.6	5175.4
37.5°	7295.4	7228.1	6850.4	6063.3	5489.8	5333.6	5216.9	5021.1	4837.2	4801.6	5224.8
40°	8325.7	8240.7	7825.4	6773.3	5905.1	5654.0	5466.1	5153.6	4908.4	4819.4	5298.0
42.5°	9547.8	9427.2	8980.3	7609.8	6431.2	6067.3	5784.5	5321.7	5013.2	4876.8	5396.9
45°	11048.8	10888.7	10255.8	8553.1	7093.6	6609.1	6231.4	5576.8	5173.4	4987.5	5545.2
47.5°	12565.7	12605.2	11705.4	9632.9	7888.6	7277.6	6791.1	5960.5	5406.8	5165.5	5784.5
50°	14177.4	14205.1	13147.1	10829.3	8790.4	8033.0	7420.0	6389.6	5731.1	5418.6	6142.4
52.5°	15435.2	15439.1	14456.2	12081.2	9729.8	8863.6	8098.3	6880.1	6106.8	5754.8	6619.0
55°	16222.2	16212.4	15373.9	13265.7	10809.6	9735.7	8849.8	7437.8	6565.6	6150.3	7218.2
57.5°	16793.8	16764.1	16006.7	14284.2	11960.5	10766.0	9700.1	8070.6	7107.5	6621.0	8007.3
60°	17011.3	16993.5	16435.8	15164.2	13170.8	11905.1	10681.0	8778.6	7722.5	7176.7	9021.8
62.5°	17094.4	17128.0	16857.1	16016.6	14466.1	13166.9	11758.8	9625.0	8414.7	7805.6	10091.7
65°	17387.1	17448.4	17393.0	17131.9	15929.6	14644.1	13188.6	10631.6	9170.1	8479.9	11209.0
67.5°	17966.5	18027.8	18051.5	18466.8	17717.3	16485.3	14972.4	11885.4	10054.1	9180.0	12049.5
70°	17952.6	17934.8	18354.1	19528.8	19956.0	19034.4	17377.2	13427.9	11108.2	9761.4	12156.3
72.5°	16340.9	16198.5	17189.3	19516.9	21818.9	21696.2	20313.9	15417.4	12017.9	9832.6	10548.5
75°	12259.1	11879.4	13629.6	17588.8	22129.3	23207.1	22180.8	16651.4	11802.3	8687.6	7340.8
77.5°	5242.6	4860.9	6923.6	13020.5	19805.7	21694.3	20468.2	14527.4	9421.3	5744.9	3605.2
80°	1372.5	1370.5	2092.3	5903.1	13469.4	16020.5	14054.8	9381.7	5383.0	2052.7	994.7
82.5°	567.6	553.7	769.3	2296.0	6581.4	8990.2	7336.9	4184.6	1944.0	555.7	330.3
85°	211.6	209.6	373.8	793.0	2321.7	3708.0	2683.6	1069.9	484.5	270.9	148.3
87.5°	59.3	57.4	81.1	274.9	565.6	858.3	458.8	176.0	136.5	106.8	43.5
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°	4263.7	4263.7	4263.7	4263.7	4263.7	4263.7	4263.7	4263.7	4263.7	4263.7	4263.7
2.5°	4277.5	4287.4	4305.2	4319.1	4336.9	4356.7	4384.3	4402.1	4419.9	4431.8	4423.9
5°	4295.3	4317.1	4362.6	4408.1	4461.5	4510.9	4568.3	4609.8	4643.4	4653.3	4657.2
7.5°	4334.9	4370.5	4447.6	4524.7	4609.8	4690.9	4773.9	4845.1	4902.5	4924.2	4926.2
10°	4404.1	4451.6	4560.3	4669.1	4781.8	4906.4	5013.2	5116.0	5197.1	5230.7	5232.7
12.5°	4491.1	4550.5	4692.8	4843.1	4999.4	5171.4	5309.9	5436.4	5537.3	5582.8	5582.8
15°	4603.9	4681.0	4862.9	5064.6	5294.0	5533.3	5709.3	5849.7	5962.5	6017.8	6013.9
17.5°	4726.5	4829.3	5058.7	5363.2	5691.5	6006.0	6211.6	6314.5	6431.2	6484.5	6482.6
20°	4845.1	4971.7	5300.0	5742.9	6180.0	6514.2	6680.3	6708.0	6715.9	6721.9	6737.7
22.5°	4967.7	5137.8	5602.5	6221.5	6690.2	6921.6	6945.3	6826.7	6660.6	6583.4	6605.2
25°	5102.2	5327.7	5998.1	6749.5	7129.2	7156.9	6975.0	6686.3	6371.8	6227.5	6249.2
27.5°	5232.7	5547.2	6472.7	7253.8	7445.7	7202.4	6810.9	6401.5	6021.8	5869.5	5887.3
30°	5363.2	5798.3	6996.7	7694.8	7590.0	7089.7	6551.8	6095.0	5713.3	5553.1	5570.9
32.5°	5495.7	6091.0	7599.9	8013.2	7564.3	6850.4	6229.4	5750.9	5414.7	5246.6	5268.3
35°	5646.0	6450.9	8171.4	8187.3	7392.3	6498.4	5804.3	5339.5	5046.8	4912.4	4942.0
37.5°	5841.8	6907.8	8675.7	8230.8	7091.7	5982.2	5276.2	4853.0	4611.8	4550.5	4594.0
40°	6085.1	7457.5	9061.4	8161.6	6646.7	5355.3	4698.8	4360.6	4224.2	4238.0	4285.5
42.5°	6401.5	8072.6	9332.3	7983.6	6027.7	4708.7	4192.5	4042.2	4107.5	4162.8	4214.3
45°	6812.8	8711.3	9500.4	7681.0	5327.7	4160.9	3893.9	3929.5	3978.9	3984.9	4024.4
47.5°	7338.9	9358.0	9611.1	7224.2	4613.7	3775.2	3704.0	3712.0	3702.1	3660.5	3692.2
50°	7995.4	9986.9	9710.0	6619.0	4006.6	3534.0	3439.0	3411.4	3274.9	3140.4	3158.2
52.5°	8743.0	10564.3	9751.5	5867.5	3534.0	3332.3	3178.0	3004.0	2748.9	2707.3	2721.2
55°	9573.6	11098.3	9644.8	4944.0	3136.5	3073.2	2839.8	2630.2	2602.5	2566.9	2572.9
57.5°	10566.3	11673.8	9427.2	3913.7	2729.1	2770.6	2543.2	2566.9	2517.5	2462.1	2452.2
60°	11652.0	12269.0	9045.5	2974.3	2307.9	2392.9	2466.1	2464.1	2450.2	2404.8	2388.9
62.5°	12628.9	12660.6	8294.1	2278.2	1938.0	2100.2	2299.9	2298.0	2286.1	2260.4	2250.5
65°	13210.4	12601.3	7040.3	1793.7	1633.5	1858.9	2074.5	2090.3	2092.3	2090.3	2090.3
67.5°	13107.5	11907.1	5319.7	1427.8	1382.3	1613.7	1851.0	1872.8	1888.6	1892.6	1896.5
70°	11944.7	10382.4	3468.7	1139.1	1158.9	1398.2	1639.4	1661.2	1675.0	1690.8	1698.8
72.5°	9310.5	7633.5	1985.5	921.6	963.1	1212.3	1429.8	1455.5	1463.4	1493.1	1505.0
75°	5673.7	4489.2	1071.9	725.8	791.0	1036.3	1222.2	1251.8	1265.7	1301.3	1305.2
77.5°	2697.4	1944.0	611.1	565.6	636.8	846.4	1032.3	1065.9	1028.4	1048.1	1032.3
80°	911.7	721.8	385.6	431.1	486.5	660.5	826.6	860.3	781.2	777.2	769.3
82.5°	318.4	292.7	245.2	286.8	314.4	472.6	624.9	668.4	581.4	579.4	551.8
85°	124.6	118.7	136.5	156.2	187.9	290.7	411.3	433.1	357.9	288.7	284.8
87.5°	25.7	27.7	33.6	35.6	57.4	100.9	148.3	181.9	144.4	122.6	112.7
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)