

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: P943482

Luminaire Tested: **GALN-SB8A-727-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943482
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-SB8A-727-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33350 lumens
Efficiency: N/A
Efficacy: 146.9 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): 227.1
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

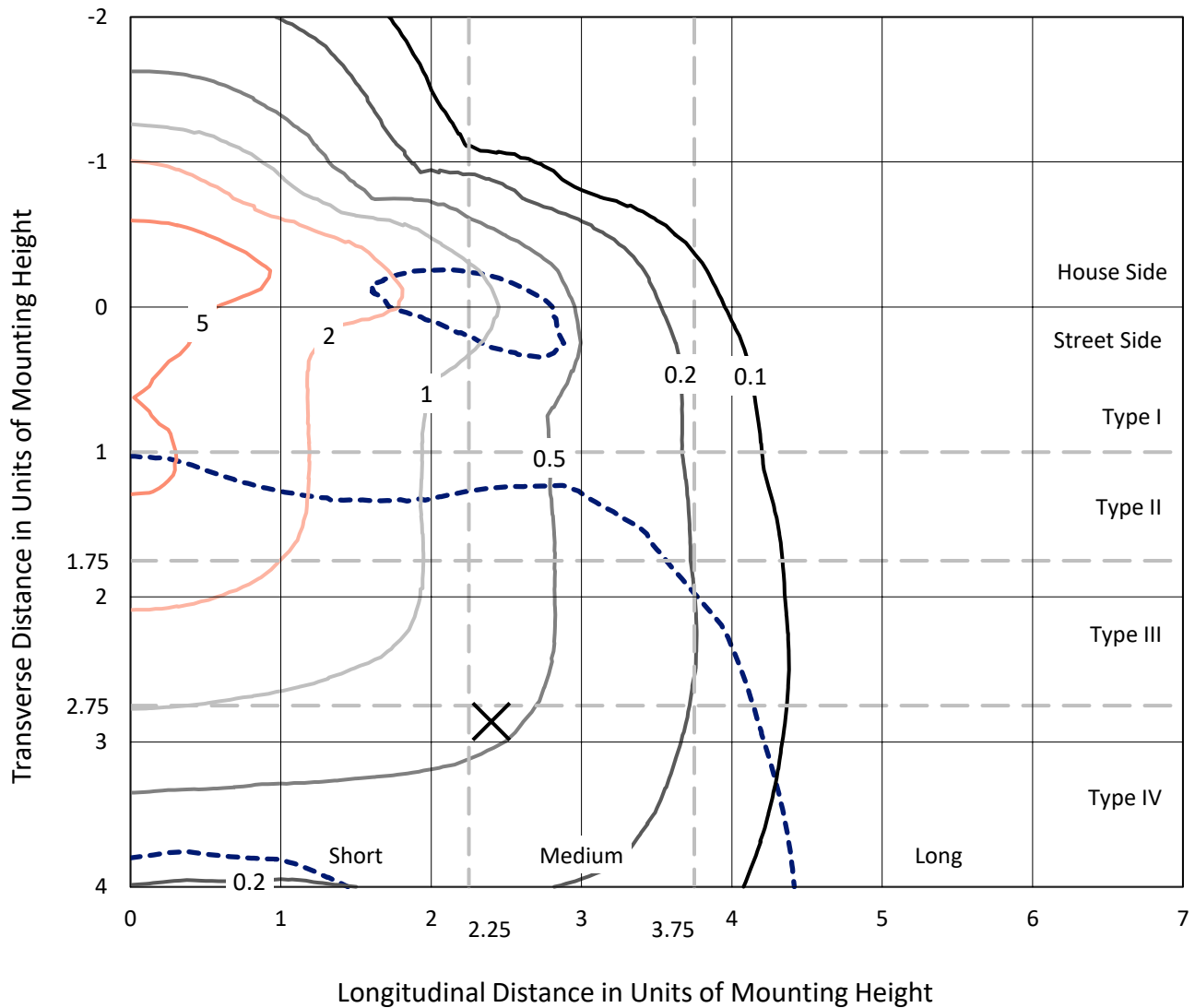


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd

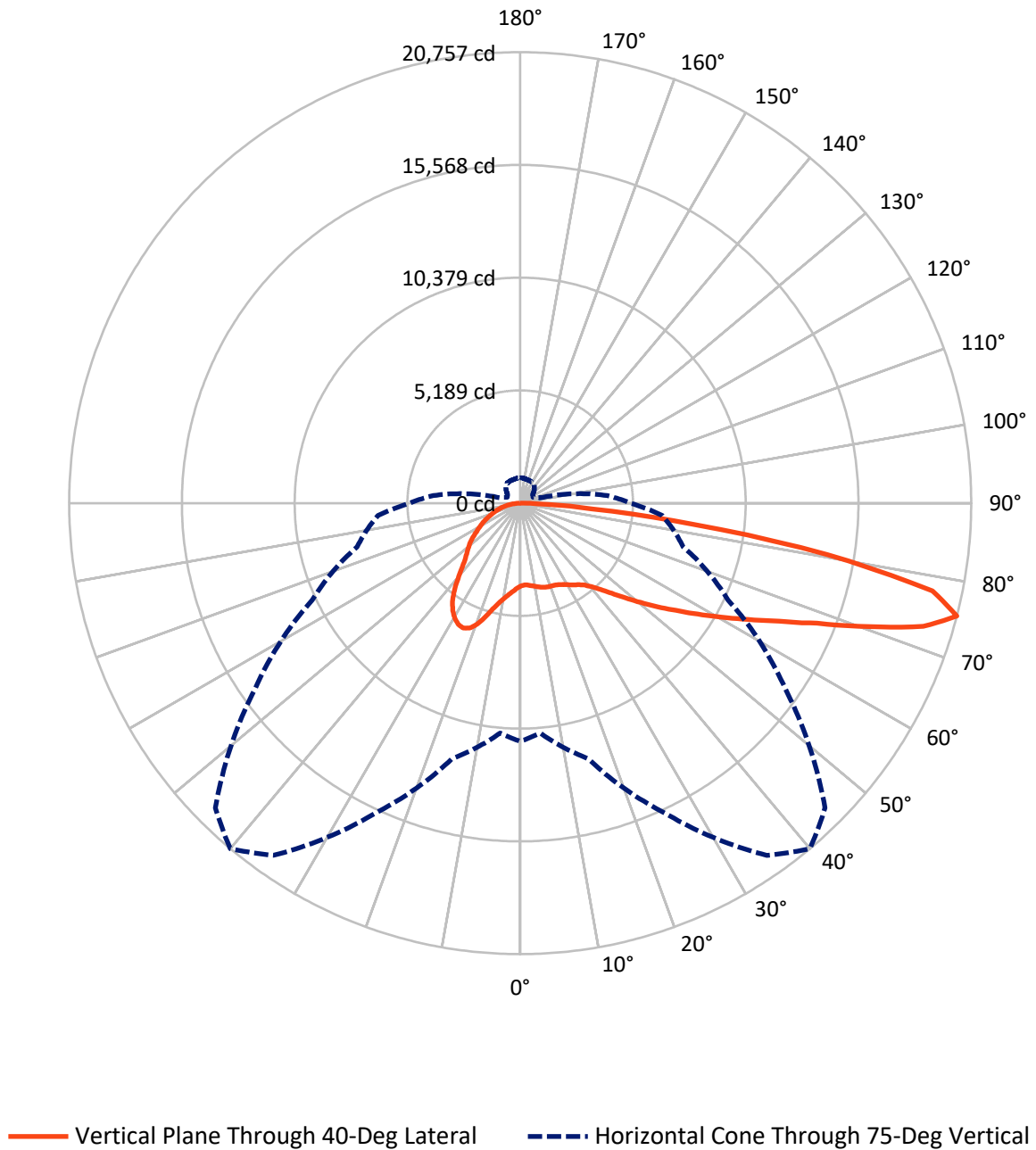


Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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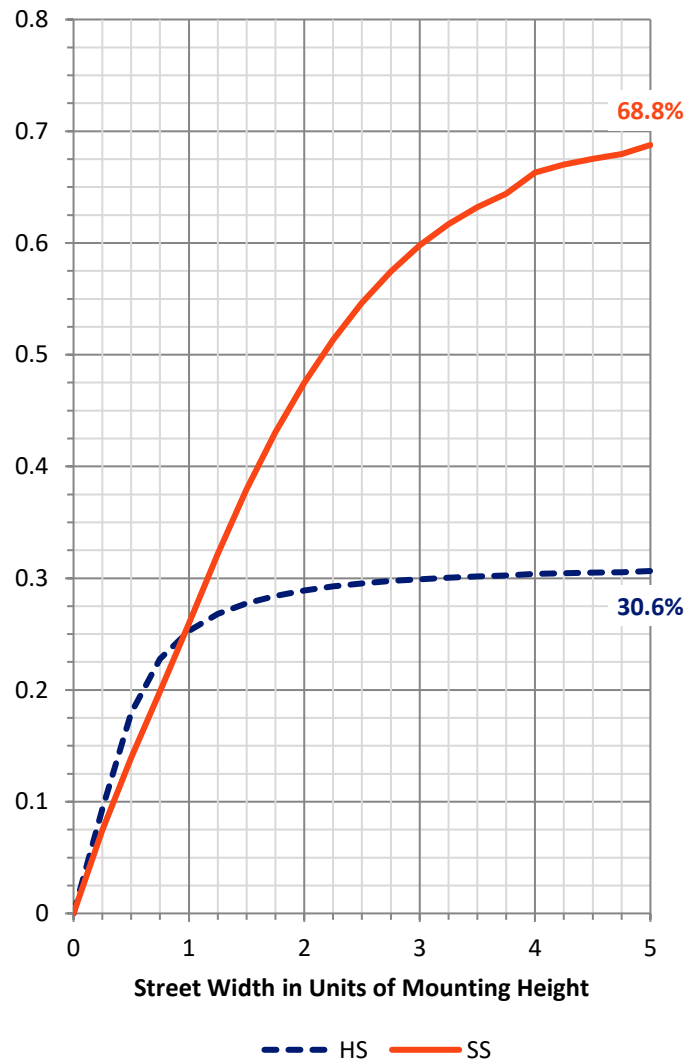
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10332.9	0.0	10332.9
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	23017.1	0.0	23017.1
	% Fixture	69.0	0.0	69.0
Total	Lumens	33350.0	0.0	33350.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	380.7	1.1
10°-20°	1278.1	3.8
20°-30°	2333.7	7.0
30°-40°	3309.8	9.9
40°-50°	4469.2	13.4
50°-60°	6012.3	18.0
60°-70°	7631.0	22.9
70°-80°	6925.6	20.8
80°-90°	1009.5	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°	33350.0	100.0
0°-180°	33350.0	100.0

Coefficient of Utilization



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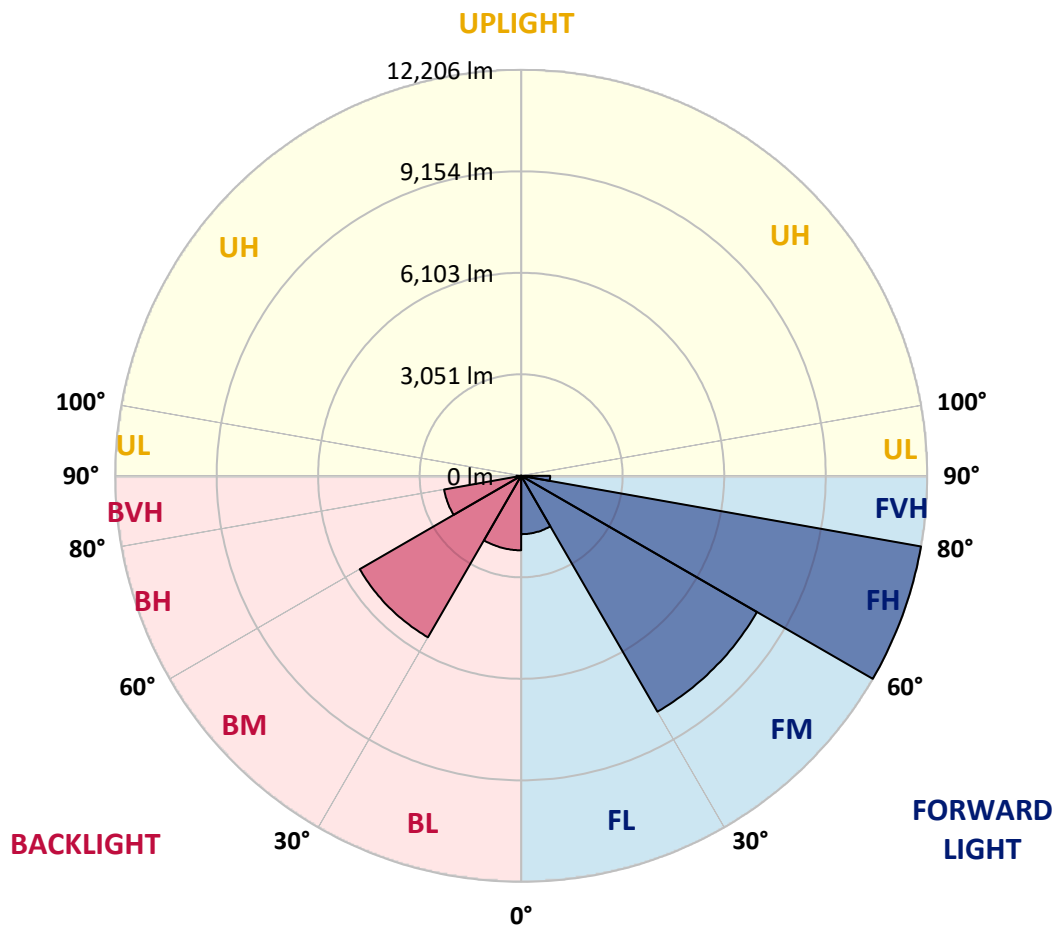
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1754.2	5.3			
FM	(30°-60°)	8186.7	24.5			
FH	(60°-80°)	12205.6	36.6			G5
FVH	(80°-90°)	870.5	2.6			G5
BL	(0°-30°)	2238.2	6.7	B3/2500		
BM	(30°-60°)	5604.7	16.8	B4/8500		
BH	(60°-80°)	2351.1	7.0	B3/2500		G3/2500
BVH	(80°-90°)	139.0	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°	3813.6	3813.6	3813.6	3813.6	3813.6	3813.6	3813.6	3813.6	3813.6	3813.6	3813.6
2.5°	3755.2	3776.5	3771.2	3764.1	3764.1	3765.9	3764.1	3776.5	3788.9	3801.2	3820.7
5°	3794.2	3815.4	3804.8	3795.9	3788.9	3787.1	3781.8	3780.0	3787.1	3803.0	3829.5
7.5°	3870.2	3891.4	3875.5	3859.6	3845.5	3838.4	3831.3	3820.7	3815.4	3824.2	3861.4
10°	3955.1	3976.4	3956.9	3928.6	3905.6	3896.8	3889.7	3879.1	3872.0	3877.3	3918.0
12.5°	4040.0	4061.3	4034.7	3995.8	3965.7	3960.4	3951.6	3948.0	3946.3	3944.5	3985.2
15°	4119.6	4137.3	4103.7	4057.7	4025.9	4017.0	4008.2	4013.5	4022.3	4033.0	4078.9
17.5°	4181.5	4199.2	4149.7	4089.6	4059.5	4055.9	4050.6	4068.3	4093.1	4119.6	4176.2
20°	4238.1	4255.8	4192.1	4110.8	4075.4	4075.4	4077.2	4114.3	4149.7	4188.6	4266.4
22.5°	4317.7	4331.9	4254.1	4142.6	4091.3	4094.9	4109.0	4146.2	4190.4	4243.4	4351.3
25°	4436.2	4446.9	4351.3	4202.8	4144.4	4155.0	4167.4	4185.1	4227.5	4289.4	4434.5
27.5°	4627.3	4636.1	4510.5	4308.9	4220.4	4238.1	4255.8	4243.4	4262.9	4316.0	4501.7
30°	4896.1	4901.5	4742.3	4475.2	4349.6	4358.4	4362.0	4310.7	4273.5	4316.0	4549.5
32.5°	5214.5	5212.8	5023.5	4676.8	4496.4	4487.5	4457.5	4356.7	4270.0	4307.1	4591.9
35°	5708.0	5688.6	5444.5	4959.8	4662.7	4607.8	4537.1	4407.9	4287.7	4298.3	4629.1
37.5°	6525.2	6465.1	6127.3	5423.3	4910.3	4770.6	4666.2	4491.1	4326.6	4294.7	4673.3
40°	7446.8	7370.8	6999.3	6058.3	5281.8	5057.1	4889.1	4609.6	4390.3	4310.7	4738.7
42.5°	8540.0	8432.1	8032.3	6806.5	5752.3	5426.8	5173.9	4759.9	4484.0	4362.0	4827.2
45°	9882.5	9739.2	9173.2	7650.2	6344.8	5911.5	5573.6	4988.1	4627.3	4461.0	4959.8
47.5°	11239.2	11274.6	10469.8	8616.0	7055.9	6509.3	6074.2	5331.3	4836.0	4620.2	5173.9
50°	12680.8	12705.6	11759.2	9686.2	7862.5	7185.0	6636.7	5715.1	5126.1	4846.6	5494.0
52.5°	13805.8	13809.3	12930.2	10805.8	8702.7	7927.9	7243.4	6153.8	5462.2	5147.3	5920.3
55°	14509.8	14500.9	13751.0	11865.4	9668.5	8708.0	7915.6	6652.6	5872.5	5501.1	6456.3
57.5°	15021.0	14994.4	14317.0	12776.3	10697.9	9629.6	8676.2	7218.6	6357.2	5922.1	7162.0
60°	15215.6	15199.6	14700.8	13563.5	11780.5	10648.4	9553.5	7851.9	6907.3	6419.1	8069.4
62.5°	15289.8	15319.9	15077.6	14325.8	12939.1	11776.9	10517.5	8608.9	7526.4	6981.6	9026.4
65°	15551.6	15606.5	15556.9	15323.5	14248.0	13098.3	11796.4	9509.3	8202.1	7584.8	10025.8
67.5°	16069.9	16124.7	16146.0	16517.4	15847.0	14745.0	13391.9	10630.7	8992.8	8211.0	10777.5
70°	16057.5	16041.6	16416.6	17467.3	17849.4	17025.1	15542.8	12010.4	9935.6	8731.0	10873.1
72.5°	14615.9	14488.6	15374.7	17456.7	19515.6	19405.9	18169.5	13789.9	10749.2	8794.7	9435.0
75°	10965.0	10625.4	12190.8	15732.1	19793.3	20757.3	19839.3	14893.6	10556.4	7770.5	6565.9
77.5°	4689.2	4347.8	6192.7	11646.0	17714.9	19404.2	18307.5	12993.9	8426.7	5138.5	3224.6
80°	1227.6	1225.8	1871.4	5280.0	12047.6	14329.4	12571.1	8391.4	4814.8	1836.1	889.7
82.5°	507.7	495.3	688.1	2053.6	5886.7	8041.1	6562.4	3742.9	1738.8	497.0	295.4
85°	189.3	187.5	334.3	709.3	2076.6	3316.6	2400.3	956.9	433.4	242.3	132.7
87.5°	53.1	51.3	72.5	245.9	505.9	767.7	410.4	157.4	122.0	95.5	38.9
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°	3813.6	3813.6	3813.6	3813.6	3813.6	3813.6	3813.6	3813.6	3813.6	3813.6	3813.6
2.5°	3826.0	3834.8	3850.8	3863.1	3879.1	3896.8	3921.5	3937.4	3953.4	3964.0	3956.9
5°	3841.9	3861.4	3902.1	3942.7	3990.5	4034.7	4086.0	4123.2	4153.2	4162.1	4165.6
7.5°	3877.3	3909.1	3978.1	4047.1	4123.2	4195.7	4270.0	4333.7	4385.0	4404.4	4406.2
10°	3939.2	3981.7	4078.9	4176.2	4277.1	4388.5	4484.0	4576.0	4648.5	4678.6	4680.3
12.5°	4017.0	4070.1	4197.5	4331.9	4471.6	4625.5	4749.3	4862.5	4952.7	4993.4	4993.4
15°	4117.9	4186.8	4349.6	4530.0	4735.2	4949.2	5106.6	5232.2	5333.0	5382.6	5379.0
17.5°	4227.5	4319.5	4524.7	4797.1	5090.7	5372.0	5555.9	5647.9	5752.3	5800.0	5798.3
20°	4333.7	4446.9	4740.5	5136.7	5527.6	5826.6	5975.1	5999.9	6007.0	6012.3	6026.4
22.5°	4443.3	4595.4	5011.1	5564.8	5984.0	6190.9	6212.2	6106.0	5957.4	5888.5	5907.9
25°	4563.6	4765.3	5364.9	6037.0	6376.7	6401.4	6238.7	5980.4	5699.2	5570.1	5589.5
27.5°	4680.3	4961.6	5789.4	6488.1	6659.7	6442.1	6091.9	5725.7	5386.1	5249.9	5265.8
30°	4797.1	5186.2	6258.2	6882.6	6788.8	6341.3	5860.2	5451.6	5110.2	4966.9	4982.8
32.5°	4915.6	5448.0	6797.6	7167.3	6765.8	6127.3	5571.8	5143.8	4843.1	4692.7	4712.2
35°	5050.0	5770.0	7308.8	7323.0	6611.9	5812.4	5191.5	4775.9	4514.1	4393.8	4420.3
37.5°	5225.2	6178.6	7759.9	7361.9	6343.1	5350.7	4719.3	4340.7	4124.9	4070.1	4109.0
40°	5442.7	6670.3	8104.8	7300.0	5945.1	4790.0	4202.8	3900.3	3778.2	3790.6	3833.1
42.5°	5725.7	7220.4	8347.2	7140.8	5391.4	4211.6	3749.9	3615.5	3673.9	3723.4	3769.4
45°	6093.7	7791.7	8497.5	6870.2	4765.3	3721.6	3482.8	3514.7	3558.9	3564.2	3599.6
47.5°	6564.2	8370.1	8596.6	6461.6	4126.7	3376.7	3313.0	3320.1	3311.3	3274.1	3302.4
50°	7151.4	8932.6	8685.0	5920.3	3583.7	3160.9	3076.0	3051.2	2929.2	2808.9	2824.8
52.5°	7820.0	9449.1	8722.1	5248.1	3160.9	2980.5	2842.5	2686.9	2458.7	2421.5	2433.9
55°	8562.9	9926.7	8626.6	4422.1	2805.4	2748.8	2540.1	2352.6	2327.8	2296.0	2301.3
57.5°	9450.9	10441.5	8432.1	3500.5	2441.0	2478.1	2274.7	2296.0	2251.7	2202.2	2193.4
60°	10422.0	10973.9	8090.7	2660.3	2064.2	2140.3	2205.7	2204.0	2191.6	2150.9	2136.8
62.5°	11295.8	11324.1	7418.5	2037.7	1733.5	1878.5	2057.2	2055.4	2044.8	2021.8	2012.9
65°	11815.8	11271.0	6297.1	1604.3	1461.1	1662.7	1855.5	1869.7	1871.4	1869.7	1869.7
67.5°	11723.9	10650.2	4758.2	1277.1	1236.4	1443.4	1655.6	1675.1	1689.2	1692.8	1696.3
70°	10683.8	9286.4	3102.5	1018.9	1036.5	1250.6	1466.4	1485.8	1498.2	1512.4	1519.4
72.5°	8327.7	6827.7	1775.9	824.3	861.4	1084.3	1278.9	1301.9	1308.9	1335.5	1346.1
75°	5074.8	4015.3	958.7	649.2	707.5	926.9	1093.1	1119.7	1132.1	1163.9	1167.4
77.5°	2412.7	1738.8	546.6	505.9	569.6	757.1	923.3	953.4	919.8	937.5	923.3
80°	815.4	645.6	344.9	385.6	435.1	590.8	739.4	769.4	698.7	695.2	688.1
82.5°	284.8	261.8	219.3	256.5	281.2	422.8	559.0	597.9	520.0	518.3	493.5
85°	111.4	106.1	122.0	139.7	168.0	260.0	367.9	387.4	320.2	258.3	254.7
87.5°	23.0	24.8	30.1	31.8	51.3	90.2	132.7	162.7	129.1	109.7	100.8
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)