

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: P941102

Luminaire Tested: **GALN-SB4C-727-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941102
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-SB4C-727-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27596 lumens
Efficiency: N/A
Efficacy: 137.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 200.7
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



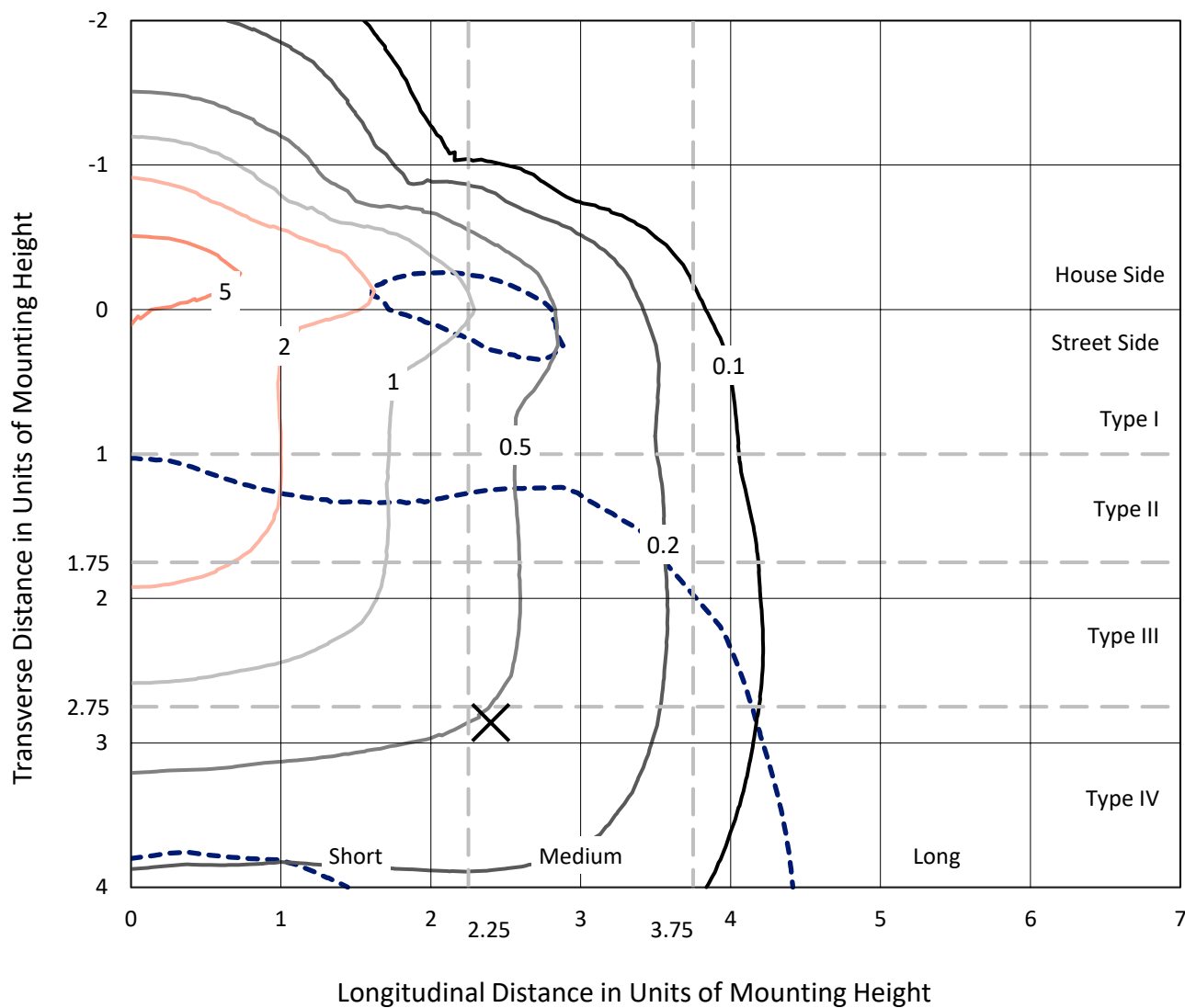
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

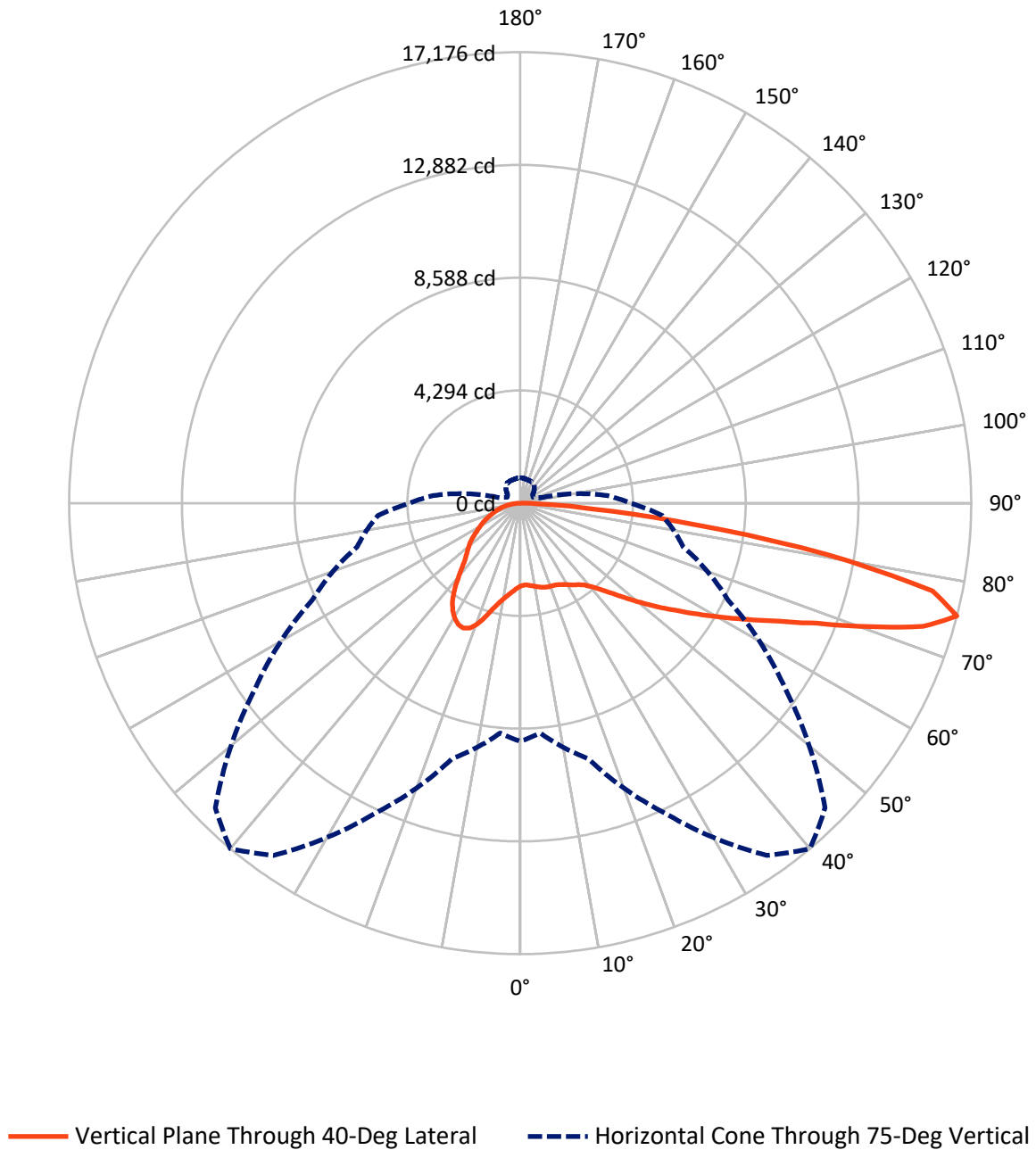


Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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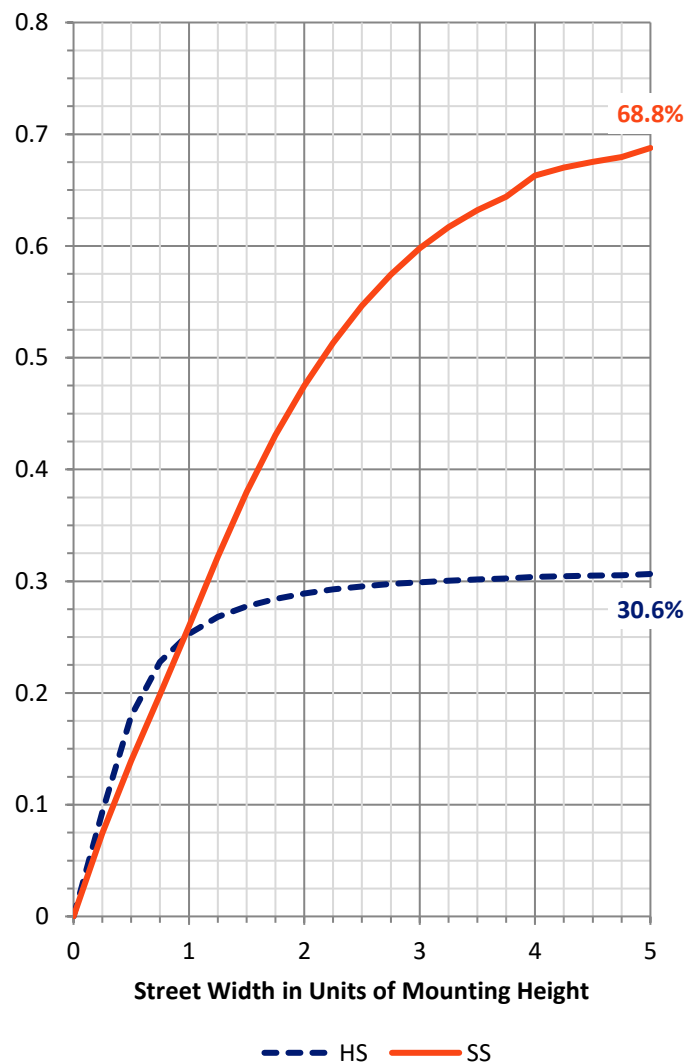
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8550.2	0.0	8550.2
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	19045.8	0.0	19045.8
	% Fixture	69.0	0.0	69.0
Total	Lumens	27596.0	0.0	27596.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	315.0	1.1
10°-20°	1057.6	3.8
20°-30°	1931.0	7.0
30°-40°	2738.8	9.9
40°-50°	3698.1	13.4
50°-60°	4975.0	18.0
60°-70°	6314.4	22.9
70°-80°	5730.7	20.8
80°-90°	835.4	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°	27596.0	100.0
0°-180°	27596.0	100.0

Coefficient of Utilization



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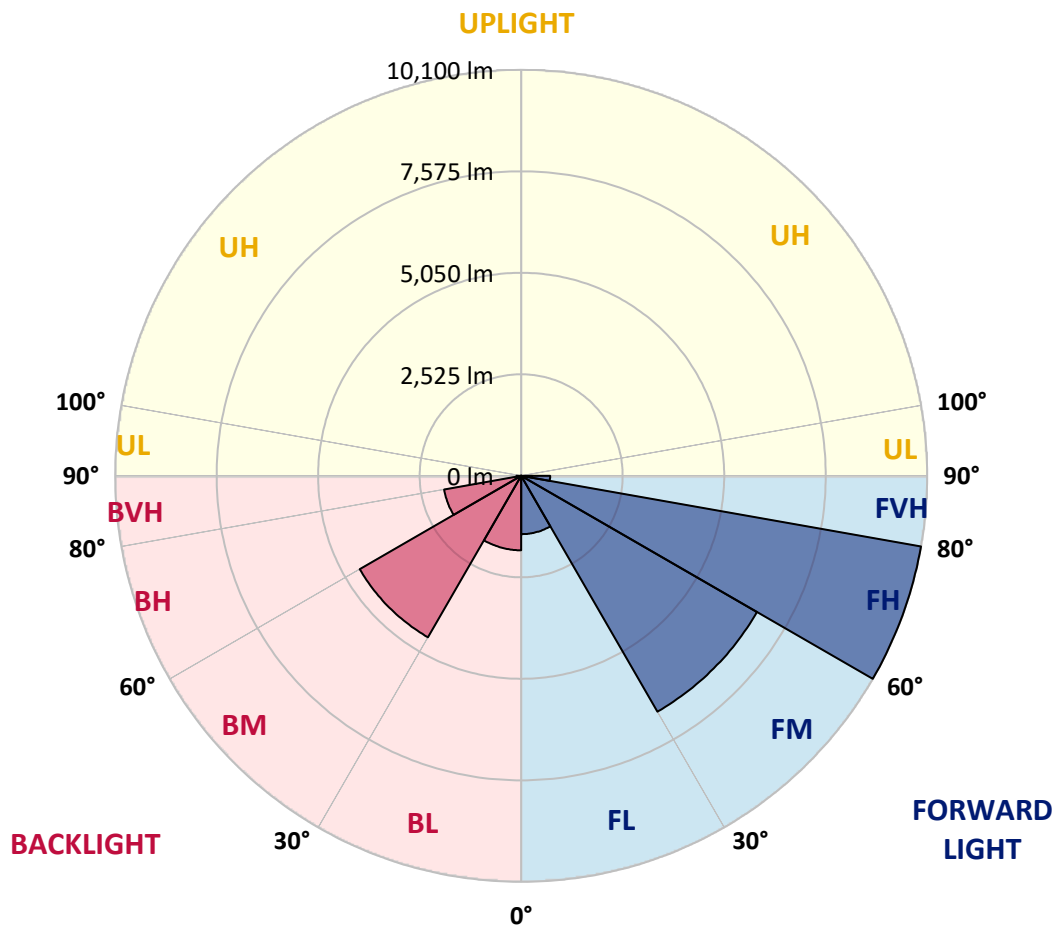
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1451.6	5.3			
FM	(30°-60°)	6774.2	24.5			
FH	(60°-80°)	10099.7	36.6			G4/12000
FVH	(80°-90°)	720.3	2.6			G4/750
BL	(0°-30°)	1852.0	6.7	B3/2500		
BM	(30°-60°)	4637.7	16.8	B3/5000		
BH	(60°-80°)	1945.4	7.0	B3/2500		G3/2500
BVH	(80°-90°)	115.0	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	3155.6	3155.6	3155.6	3155.6	3155.6	3155.6	3155.6	3155.6	3155.6	3155.6	3155.6
2.5°	3107.3	3124.9	3120.5	3114.7	3114.7	3116.1	3114.7	3124.9	3135.1	3145.4	3161.5
5°	3139.5	3157.1	3148.3	3141.0	3135.1	3133.7	3129.3	3127.8	3133.7	3146.9	3168.8
7.5°	3202.5	3220.0	3206.9	3193.7	3182.0	3176.1	3170.3	3161.5	3157.1	3164.4	3195.2
10°	3272.7	3290.3	3274.2	3250.8	3231.7	3224.4	3218.6	3209.8	3203.9	3208.3	3242.0
12.5°	3343.0	3360.6	3338.6	3306.4	3281.5	3277.1	3269.8	3266.9	3265.4	3263.9	3297.6
15°	3408.9	3423.5	3395.7	3357.6	3331.3	3324.0	3316.6	3321.0	3328.4	3337.1	3375.2
17.5°	3460.1	3474.7	3433.7	3384.0	3359.1	3356.2	3351.8	3366.4	3386.9	3408.9	3455.7
20°	3506.9	3521.6	3468.9	3401.5	3372.3	3372.3	3373.7	3404.5	3433.7	3465.9	3530.3
22.5°	3572.8	3584.5	3520.1	3427.9	3385.4	3388.4	3400.1	3430.8	3467.4	3511.3	3600.6
25°	3670.8	3679.6	3600.6	3477.6	3429.3	3438.1	3448.4	3463.0	3498.1	3549.4	3669.4
27.5°	3828.9	3836.2	3732.3	3565.5	3492.3	3506.9	3521.6	3511.3	3527.4	3571.3	3725.0
30°	4051.4	4055.8	3924.1	3703.0	3599.1	3606.4	3609.4	3566.9	3536.2	3571.3	3764.5
32.5°	4314.9	4313.4	4156.8	3869.9	3720.6	3713.3	3688.4	3605.0	3533.3	3564.0	3799.6
35°	4723.2	4707.1	4505.1	4104.1	3858.2	3812.8	3754.3	3647.4	3547.9	3556.7	3830.4
37.5°	5399.4	5349.7	5070.1	4487.6	4063.1	3947.5	3861.1	3716.2	3580.1	3553.8	3867.0
40°	6162.0	6099.0	5791.7	5013.0	4370.5	4184.6	4045.5	3814.3	3632.8	3566.9	3921.1
42.5°	7066.5	6977.2	6646.5	5632.1	4759.8	4490.5	4281.2	3938.7	3710.4	3609.4	3994.3
45°	8177.4	8058.9	7590.5	6330.3	5250.1	4891.5	4612.0	4127.5	3828.9	3691.3	4104.1
47.5°	9300.1	9329.3	8663.4	7129.5	5838.5	5386.2	5026.2	4411.5	4001.6	3823.1	4281.2
50°	10492.9	10513.4	9730.4	8015.0	6505.9	5945.4	5491.6	4729.1	4241.7	4010.4	4546.1
52.5°	11423.8	11426.8	10699.3	8941.5	7201.2	6560.1	5993.7	5092.1	4519.8	4259.2	4898.9
55°	12006.4	11999.0	11378.5	9818.2	8000.3	7205.6	6549.9	5504.8	4859.3	4552.0	5342.3
57.5°	12429.4	12407.4	11846.8	10572.0	8852.2	7968.1	7179.2	5973.2	5260.4	4900.3	5926.3
60°	12590.4	12577.2	12164.4	11223.3	9747.9	8811.2	7905.2	6497.2	5715.6	5311.6	6677.2
62.5°	12651.8	12676.7	12476.2	11854.1	10706.6	9745.0	8702.9	7123.6	6227.9	5777.0	7469.0
65°	12868.5	12913.8	12872.8	12679.6	11789.7	10838.4	9761.1	7868.6	6787.0	6276.2	8296.0
67.5°	13297.3	13342.7	13360.2	13667.6	13112.9	12201.0	11081.3	8796.6	7441.2	6794.3	8918.0
70°	13287.1	13273.9	13584.2	14453.6	14769.7	14087.7	12861.1	9938.2	8221.3	7224.6	8997.1
72.5°	12094.2	11988.8	12722.1	14444.8	16148.5	16057.8	15034.7	11410.7	8894.6	7277.3	7807.1
75°	9073.2	8792.2	10087.5	13017.7	16378.3	17176.0	16416.4	12324.0	8735.1	6429.8	5433.1
77.5°	3880.1	3597.7	5124.3	9636.7	14658.5	16056.3	15148.8	10752.0	6972.9	4251.9	2668.2
80°	1015.8	1014.3	1548.5	4369.0	9969.0	11857.1	10402.2	6943.6	3984.1	1519.3	736.2
82.5°	420.1	409.8	569.4	1699.3	4871.0	6653.8	5430.2	3097.1	1438.8	411.3	244.4
85°	156.6	155.1	276.6	586.9	1718.3	2744.4	1986.2	791.8	358.6	200.5	109.8
87.5°	43.9	42.4	60.0	203.4	418.6	635.2	339.6	130.3	101.0	79.0	32.2
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°	3155.6	3155.6	3155.6	3155.6	3155.6	3155.6	3155.6	3155.6	3155.6	3155.6	3155.6
2.5°	3165.9	3173.2	3186.4	3196.6	3209.8	3224.4	3244.9	3258.1	3271.3	3280.1	3274.2
5°	3179.1	3195.2	3228.8	3262.5	3302.0	3338.6	3381.0	3411.8	3436.7	3444.0	3446.9
7.5°	3208.3	3234.7	3291.8	3348.8	3411.8	3471.8	3533.3	3586.0	3628.4	3644.5	3646.0
10°	3259.6	3294.7	3375.2	3455.7	3539.1	3631.3	3710.4	3786.5	3846.5	3871.4	3872.8
12.5°	3324.0	3367.9	3473.3	3584.5	3700.1	3827.5	3929.9	4023.6	4098.2	4131.9	4131.9
15°	3407.4	3464.5	3599.1	3748.4	3918.2	4095.3	4225.6	4329.5	4412.9	4453.9	4451.0
17.5°	3498.1	3574.2	3744.0	3969.4	4212.4	4445.1	4597.3	4673.4	4759.8	4799.3	4797.9
20°	3586.0	3679.6	3922.6	4250.5	4573.9	4821.3	4944.2	4964.7	4970.6	4975.0	4986.7
22.5°	3676.7	3802.6	4146.5	4604.7	4951.5	5122.8	5140.4	5052.5	4929.6	4872.5	4888.6
25°	3776.2	3943.1	4439.3	4995.5	5276.5	5297.0	5162.3	4948.6	4715.9	4609.0	4625.1
27.5°	3872.8	4105.6	4790.5	5368.7	5510.7	5330.6	5040.8	4737.9	4456.8	4344.1	4357.3
30°	3969.4	4291.4	5178.4	5695.1	5617.5	5247.2	4849.1	4511.0	4228.5	4109.9	4123.1
32.5°	4067.5	4508.1	5624.8	5930.7	5598.5	5070.1	4610.5	4256.3	4007.5	3883.1	3899.2
35°	4178.7	4774.4	6047.8	6059.5	5471.1	4809.6	4295.8	3951.9	3735.2	3635.7	3657.7
37.5°	4323.6	5112.5	6421.1	6091.7	5248.7	4427.6	3905.0	3591.8	3413.2	3367.9	3400.1
40°	4503.7	5519.4	6706.5	6040.5	4919.3	3963.6	3477.6	3227.4	3126.4	3136.6	3171.7
42.5°	4737.9	5974.6	6907.0	5908.8	4461.2	3485.0	3102.9	2991.7	3040.0	3081.0	3119.0
45°	5042.3	6447.4	7031.4	5684.8	3943.1	3079.5	2881.9	2908.3	2944.9	2949.3	2978.5
47.5°	5431.6	6926.0	7113.4	5346.7	3414.7	2794.1	2741.4	2747.3	2740.0	2709.2	2732.6
50°	5917.6	7391.5	7186.5	4898.9	2965.4	2615.6	2545.3	2524.8	2423.8	2324.3	2337.5
52.5°	6470.8	7818.8	7217.3	4342.7	2615.6	2466.3	2352.1	2223.3	2034.5	2003.7	2014.0
55°	7085.6	8214.0	7138.2	3659.1	2321.4	2274.5	2101.8	1946.7	1926.2	1899.8	1904.2
57.5°	7820.3	8640.0	6977.2	2896.6	2019.8	2050.6	1882.3	1899.8	1863.2	1822.3	1814.9
60°	8623.9	9080.5	6694.8	2201.3	1708.1	1771.0	1825.2	1823.7	1813.5	1779.8	1768.1
62.5°	9346.9	9370.3	6138.6	1686.1	1434.4	1554.4	1702.2	1700.8	1692.0	1673.0	1665.6
65°	9777.2	9326.4	5210.6	1327.5	1209.0	1375.8	1535.4	1547.1	1548.5	1547.1	1547.1
67.5°	9701.1	8812.7	3937.2	1056.8	1023.1	1194.3	1370.0	1386.1	1397.8	1400.7	1403.6
70°	8840.5	7684.2	2567.3	843.1	857.7	1034.8	1213.4	1229.5	1239.7	1251.4	1257.3
72.5°	6890.9	5649.7	1469.5	682.1	712.8	897.2	1058.2	1077.2	1083.1	1105.1	1113.8
75°	4199.2	3322.5	793.3	537.2	585.5	767.0	904.5	926.5	936.7	963.1	966.0
77.5°	1996.4	1438.8	452.3	418.6	471.3	626.4	764.0	788.9	761.1	775.7	764.0
80°	674.7	534.2	285.4	319.1	360.1	488.9	611.8	636.7	578.1	575.2	569.4
82.5°	235.6	216.6	181.5	212.2	232.7	349.8	462.5	494.7	430.3	428.9	408.4
85°	92.2	87.8	101.0	115.6	139.0	215.2	304.4	320.5	264.9	213.7	210.8
87.5°	19.0	20.5	24.9	26.3	42.4	74.6	109.8	134.7	106.8	90.7	83.4
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)