

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: P951637

Luminaire Tested: **GALN-SB5D-727-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951637
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5D-727-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48491 lumens
Efficiency: N/A
Efficacy: 132.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 364.9
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

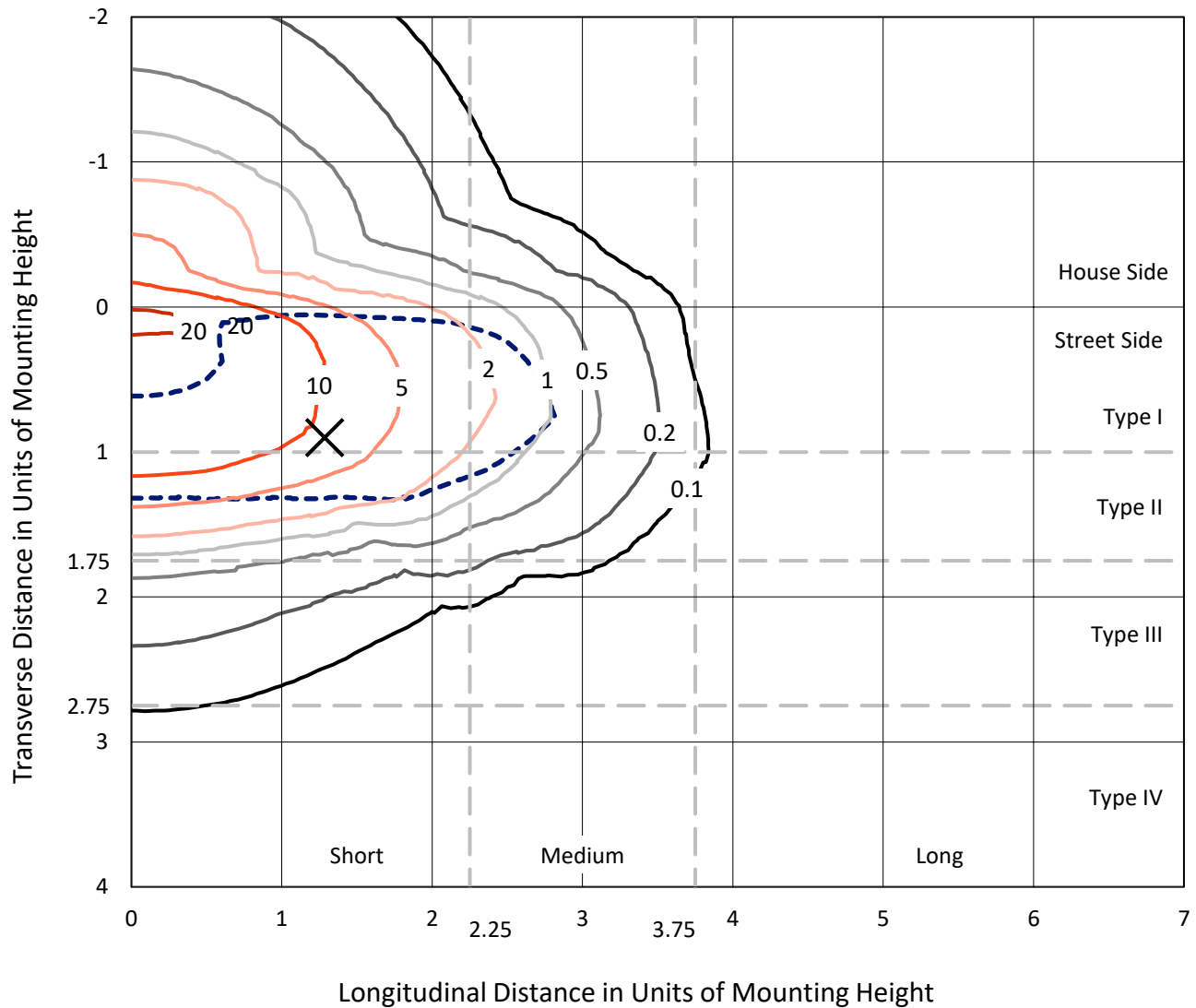


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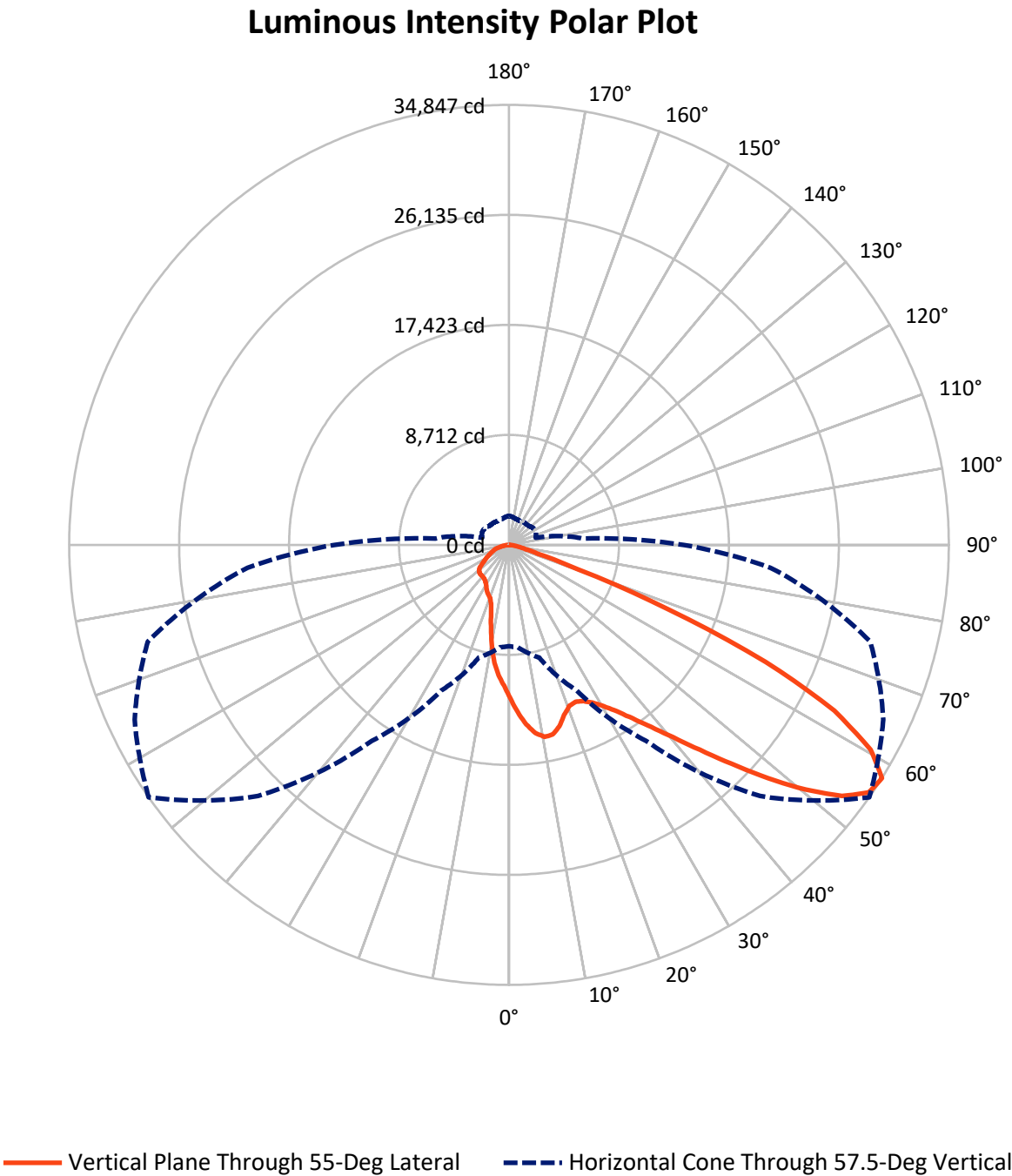
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.5 fc
Type II - Short - N/A

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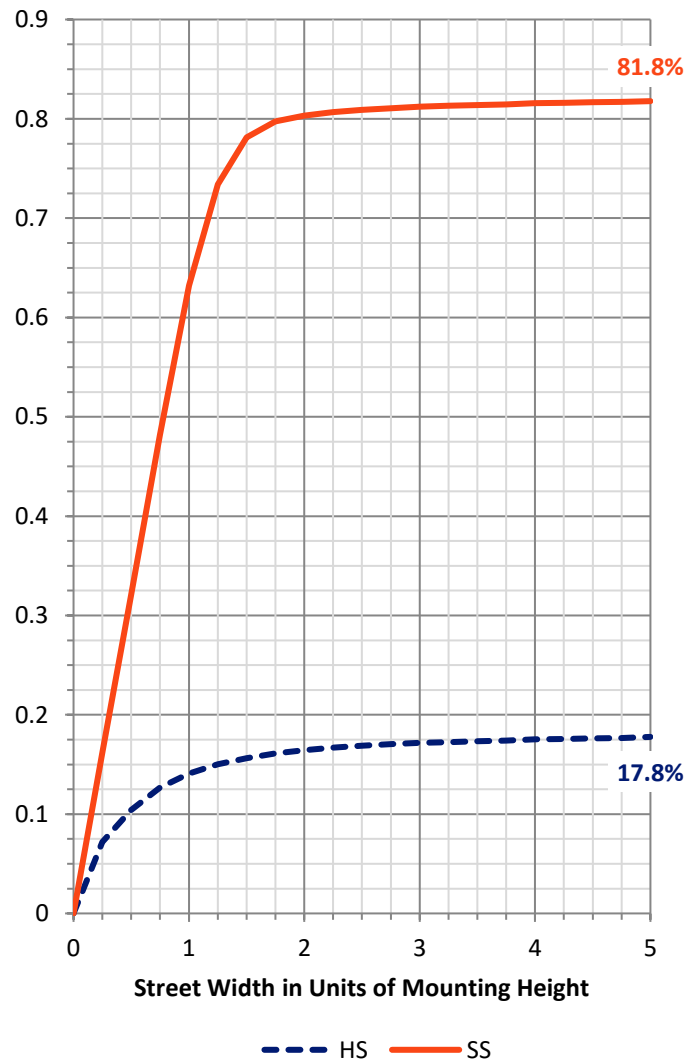
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8774.2	0.0	8774.2
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	39716.8	0.0	39716.8
	% Fixture	81.9	0.0	81.9
Total	Lumens	48491.0	0.0	48491.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1127.5	2.3
10°-20°	2845.8	5.9
20°-30°	4541.1	9.4
30°-40°	7189.6	14.8
40°-50°	11004.5	22.7
50°-60°	11786.8	24.3
60°-70°	7415.2	15.3
70°-80°	2192.8	4.5
80°-90°	387.7	0.8
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°	48491.0	100.0
0°-180°	48491.0	100.0

Coefficient of Utilization



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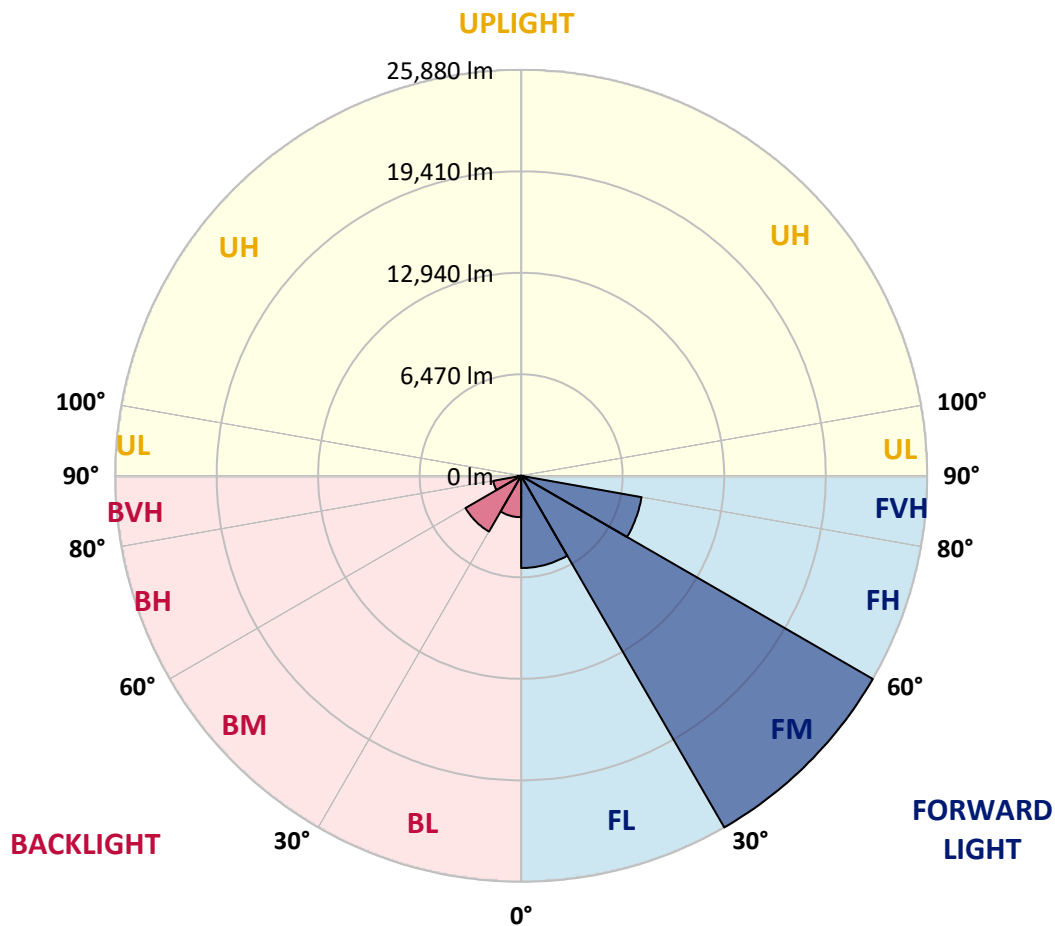
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5877.1	12.1			
FM	(30°-60°)	25880.0	53.4			
FH	(60°-80°)	7795.9	16.1			G4/12000
FVH	(80°-90°)	163.8	0.3			G2/225
BL	(0°-30°)	2637.2	5.4	B4/5000		
BM	(30°-60°)	4101.0	8.5	B3/5000		
BH	(60°-80°)	1812.1	3.7	B3/2500		G3/2500
BVH	(80°-90°)	223.9	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	12150.3	12150.3	12150.3	12150.3	12150.3	12150.3	12150.3	12150.3	12150.3	12150.3	12150.3
2.5°	13940.1	13930.1	13985.2	13797.2	13669.4	13496.4	13268.3	12977.5	12664.2	12333.3	12190.4
5°	15196.0	15108.2	15165.9	15025.5	14885.1	14624.4	14286.0	13812.3	13233.2	12573.9	12223.0
7.5°	14998.0	14937.8	15085.7	15211.0	15316.3	15283.7	15035.6	14539.2	13792.2	12834.6	12325.7
10°	13401.1	13333.5	13541.5	13975.2	14611.9	15165.9	15466.7	15158.4	14363.7	13120.4	12426.0
12.5°	11992.3	11959.8	12097.6	12448.6	13155.5	14218.3	15411.6	15699.8	14957.8	13458.8	12561.4
15°	11390.7	11350.6	11438.4	11616.3	12067.5	13057.7	14910.2	16070.8	15541.9	13849.9	12777.0
17.5°	11257.9	11212.7	11250.3	11343.1	11633.9	12388.4	14153.2	16253.8	16151.1	14286.0	12957.4
20°	11503.5	11465.9	11470.9	11465.9	11669.0	12268.1	13626.8	16183.6	16682.5	14687.1	13132.9
22.5°	12097.6	12035.0	12037.5	11904.6	12014.9	12478.7	13488.9	15995.6	17156.3	15038.1	13265.8
25°	13065.2	12952.4	12975.0	12636.6	12606.5	12949.9	13704.5	15850.2	17627.5	15318.8	13290.8
27.5°	14388.8	14261.0	14193.3	13689.4	13448.8	13619.2	14143.1	15900.4	18073.7	15562.0	13228.2
30°	16043.3	15887.9	15750.0	15035.6	14599.4	14536.7	14825.0	16231.3	18600.2	15817.7	13120.4
32.5°	18071.2	17890.8	17640.1	16692.5	16078.4	15750.0	15707.4	16820.4	19216.8	16143.5	13065.2
35°	20485.3	20249.6	19893.7	18667.8	17890.8	17218.9	16870.5	17670.2	20061.6	16634.9	13127.9
37.5°	22972.0	22706.2	22380.4	20921.4	19966.4	18976.2	18289.3	18823.3	21187.1	17301.7	13293.4
40°	25265.6	24967.3	24664.0	23365.5	22340.3	21147.0	20026.5	20282.2	22563.4	18098.8	13574.1
42.5°	26619.3	26398.7	26283.4	25581.5	24789.4	23578.6	22187.3	22011.9	24110.0	19016.3	13895.0
45°	26559.1	26468.9	26824.8	27115.6	26927.6	26255.8	24719.2	23924.5	25661.7	19810.9	14190.8
47.5°	25140.3	25200.5	25995.1	27629.5	28349.0	28699.9	27601.9	25802.1	27010.3	20405.0	14323.6
50°	21279.9	21330.0	23170.0	26694.5	28714.9	30692.8	30462.2	27634.5	28055.7	20768.5	14293.6
52.5°	18224.2	18256.7	19046.4	23922.0	27506.7	31695.5	33039.1	29361.7	28820.2	20868.8	14125.6
55°	13727.0	13839.8	14724.7	18768.1	24363.2	30900.8	34608.3	31141.5	29304.0	20878.8	13950.1
57.5°	8019.1	8142.0	9234.9	12739.4	18936.1	28130.9	34846.5	32720.8	29632.4	20798.6	13844.8
60°	3928.1	3980.7	4457.0	6695.6	11676.5	22794.0	32931.3	33485.3	29815.4	20756.0	13839.8
62.5°	2647.1	2639.6	2659.7	3303.9	5753.0	14644.5	28940.6	32146.7	29717.7	20593.0	13789.7
65°	2276.1	2248.6	2173.4	2318.8	2980.5	6698.1	22360.3	28150.9	28973.1	20184.4	13446.3
67.5°	1967.8	1970.3	1972.8	1927.7	2128.2	3090.8	13664.4	22174.8	26300.9	18249.2	12122.7
70°	1629.4	1652.0	1662.0	1662.0	1734.7	2028.0	5833.2	15198.5	20746.0	14308.6	9763.8
72.5°	1484.0	1436.4	1441.4	1416.3	1416.3	1544.2	2348.8	8615.7	13070.3	8049.2	5958.6
75°	1210.8	1240.8	1245.9	1228.3	1170.7	1178.2	1393.8	3614.7	5592.6	3339.0	2945.4
77.5°	1045.3	1045.3	1055.3	1042.8	997.7	882.4	930.0	1401.3	1902.6	1368.7	1471.5
80°	839.8	837.3	879.9	904.9	834.8	651.8	594.1	774.6	844.8	601.6	764.6
82.5°	408.6	433.7	604.1	689.4	634.2	471.3	363.5	481.3	451.2	265.7	343.4
85°	238.1	225.6	270.7	383.5	363.5	260.7	175.5	250.7	235.6	135.4	137.9
87.5°	75.2	70.2	55.1	130.4	105.3	72.7	47.6	72.7	65.2	30.1	30.1
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	12150.3	12150.3	12150.3	12150.3	12150.3	12150.3	12150.3	12150.3	12150.3	12150.3
2.5°	12012.4	11716.6	11423.3	11155.1	10992.1	10886.9	10781.6	10663.8	10618.6	10551.0
5°	11892.1	11320.5	10811.7	10373.0	9974.4	9661.1	9345.2	9089.5	8974.2	9051.9
7.5°	11821.9	10994.7	10210.0	9405.4	8630.8	8011.6	7472.7	7094.1	6923.7	6966.3
10°	11759.2	10626.2	9430.4	8159.5	7046.5	6279.4	5727.9	5439.7	5331.9	5354.4
12.5°	11701.6	10212.5	8490.4	6818.4	5635.2	5128.8	4970.9	4973.4	4993.5	5008.5
15°	11691.5	9713.7	7440.1	5645.2	4873.1	4840.6	5011.0	5118.8	5176.5	5194.0
17.5°	11676.5	9117.1	6369.7	4845.6	4687.6	4908.2	5066.2	5136.4	5181.5	5184.0
20°	11616.3	8360.0	5382.0	4464.5	4647.5	4838.0	4935.8	4991.0	5028.6	5041.1
22.5°	11430.8	7517.8	4612.4	4294.1	4487.1	4640.0	4755.3	4818.0	4840.6	4855.6
25°	11097.4	6575.2	4081.0	4131.1	4264.0	4457.0	4549.8	4562.3	4554.8	4577.3
27.5°	10661.3	5565.0	3750.1	3910.5	4081.0	4246.5	4296.6	4289.1	4274.0	4299.1
30°	10134.8	4657.6	3539.5	3662.4	3895.5	4045.9	4091.0	4073.5	4043.4	4071.0
32.5°	9578.3	3915.6	3366.6	3489.4	3742.6	3890.5	3935.6	3918.1	3895.5	3918.1
35°	9059.4	3396.7	3206.1	3374.1	3622.3	3767.7	3825.3	3827.8	3827.8	3855.4
37.5°	8583.1	3093.3	3073.3	3301.4	3539.5	3669.9	3752.6	3757.6	3649.8	3657.4
40°	8142.0	2965.5	3013.1	3253.8	3459.3	3584.7	3589.7	3308.9	3110.9	3105.9
42.5°	7781.0	2940.4	3030.7	3248.8	3401.7	3406.7	3053.2	2835.1	2780.0	2782.5
45°	7442.6	2932.9	3070.8	3248.8	3316.4	2942.9	2704.8	2647.1	2652.2	2672.2
47.5°	7064.1	2902.8	3078.3	3203.6	3070.8	2617.1	2546.9	2521.8	2511.8	2516.8
50°	6650.4	2795.0	2983.0	3113.4	2649.6	2476.7	2388.9	2381.4	2394.0	2401.5
52.5°	6214.3	2619.6	2820.1	2950.5	2456.6	2353.8	2256.1	2273.6	2328.8	2346.3
55°	5928.5	2414.0	2604.5	2624.6	2321.3	2238.5	2155.8	2195.9	2298.7	2331.3
57.5°	5853.3	2195.9	2358.9	2336.3	2148.3	2138.3	2088.1	2123.2	2253.6	2301.2
60°	5830.7	2000.4	2118.2	2100.7	1980.3	2028.0	2015.4	2033.0	2078.1	2093.1
62.5°	5655.3	1845.0	1902.6	1877.6	1829.9	1912.7	1942.7	1905.1	1940.2	1957.8
65°	5209.0	1719.6	1692.1	1674.5	1694.6	1769.8	1829.9	1754.7	1787.3	1837.5
67.5°	4472.1	1549.2	1474.0	1494.0	1556.7	1596.8	1674.5	1589.3	1616.9	1702.1
70°	3617.3	1333.6	1265.9	1323.6	1383.7	1466.5	1479.0	1421.3	1486.5	1581.8
72.5°	2559.4	1115.5	1067.9	1185.7	1205.8	1313.5	1286.0	1258.4	1348.6	1381.2
75°	1774.8	899.9	872.4	962.6	1035.3	1128.0	1108.0	1140.6	1331.1	1346.1
77.5°	1123.0	699.4	681.8	739.5	839.8	942.5	975.1	1346.1	2273.6	2363.9
80°	651.8	521.4	501.4	546.5	634.2	729.5	940.0	1652.0	1499.0	1481.5
82.5°	363.5	358.5	333.4	345.9	423.6	526.4	1328.6	1163.1	945.0	975.1
85°	170.5	210.6	180.5	173.0	238.1	616.7	887.4	664.3	441.2	431.2
87.5°	45.1	40.1	40.1	45.1	100.3	531.4	353.5	283.3	168.0	162.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)