

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: P956295

Luminaire Tested: **GALN-SB9A-727-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956295
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9A-727-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37823 lumens
Efficiency: N/A
Efficacy: 148.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 255.5
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

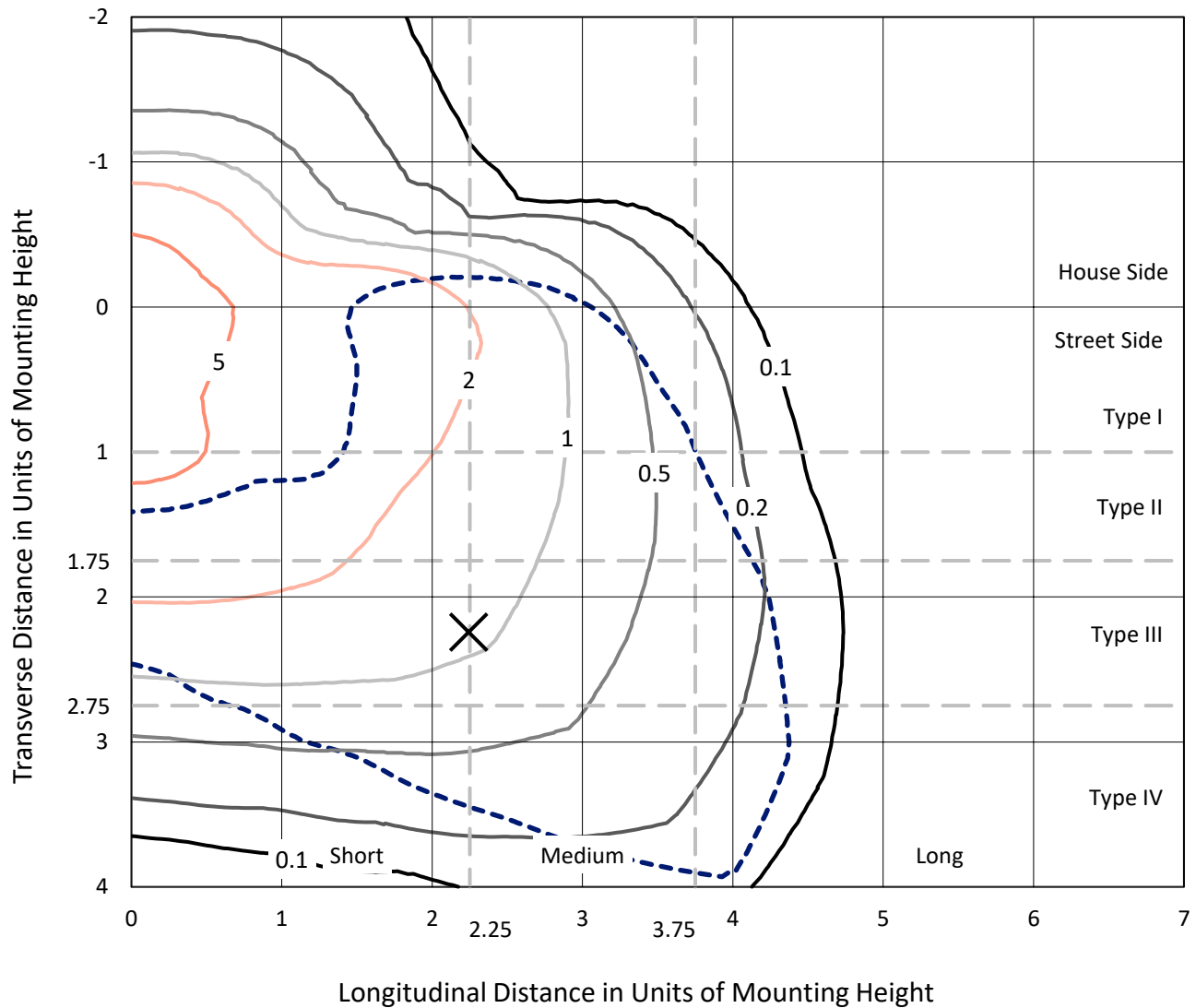


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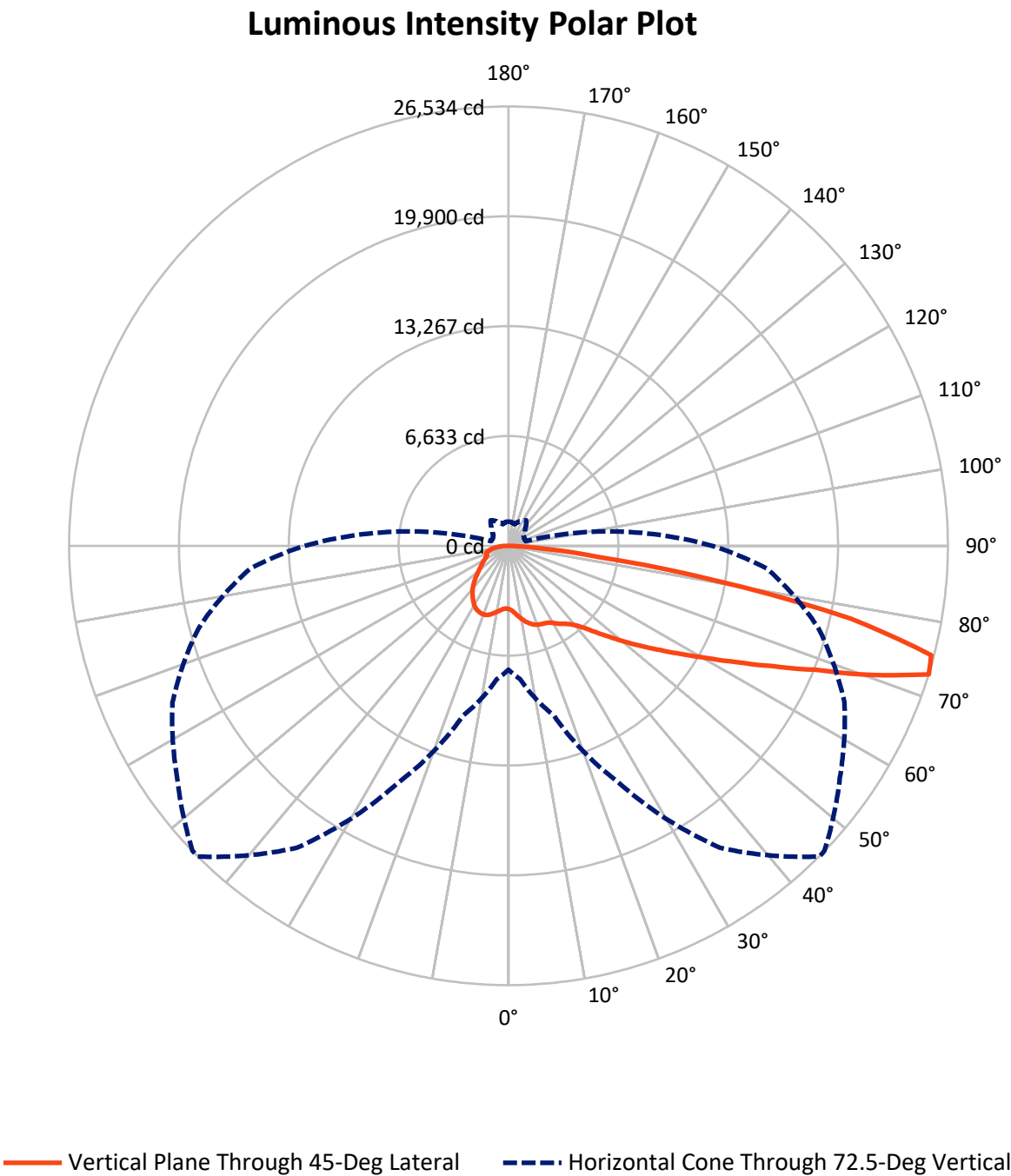
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
Type IV - Short - N/A

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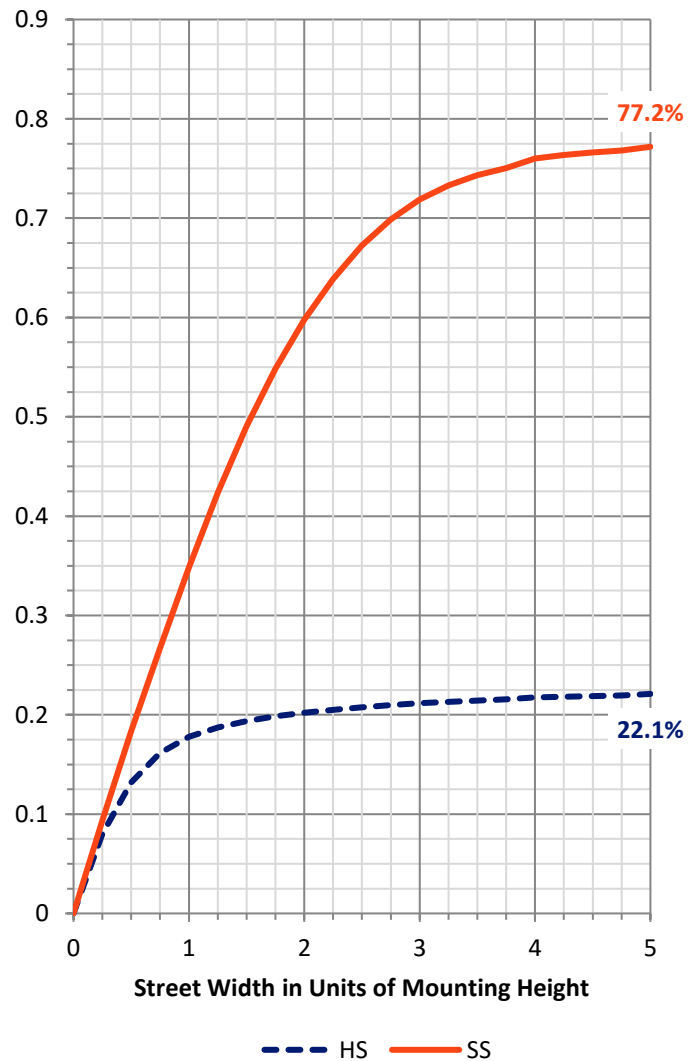
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8550.5	0.0	8550.5
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	29272.5	0.0	29272.5
	% Fixture	77.4	0.0	77.4
Total	Lumens	37823.0	0.0	37823.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	388.4	1.0
10°-20°	1294.8	3.4
20°-30°	2252.4	6.0
30°-40°	3229.0	8.5
40°-50°	4546.6	12.0
50°-60°	6964.0	18.4
60°-70°	10088.4	26.7
70°-80°	8056.2	21.3
80°-90°	1003.4	2.7
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°	37823.0	100.0
0°-180°	37823.0	100.0

Coefficient of Utilization



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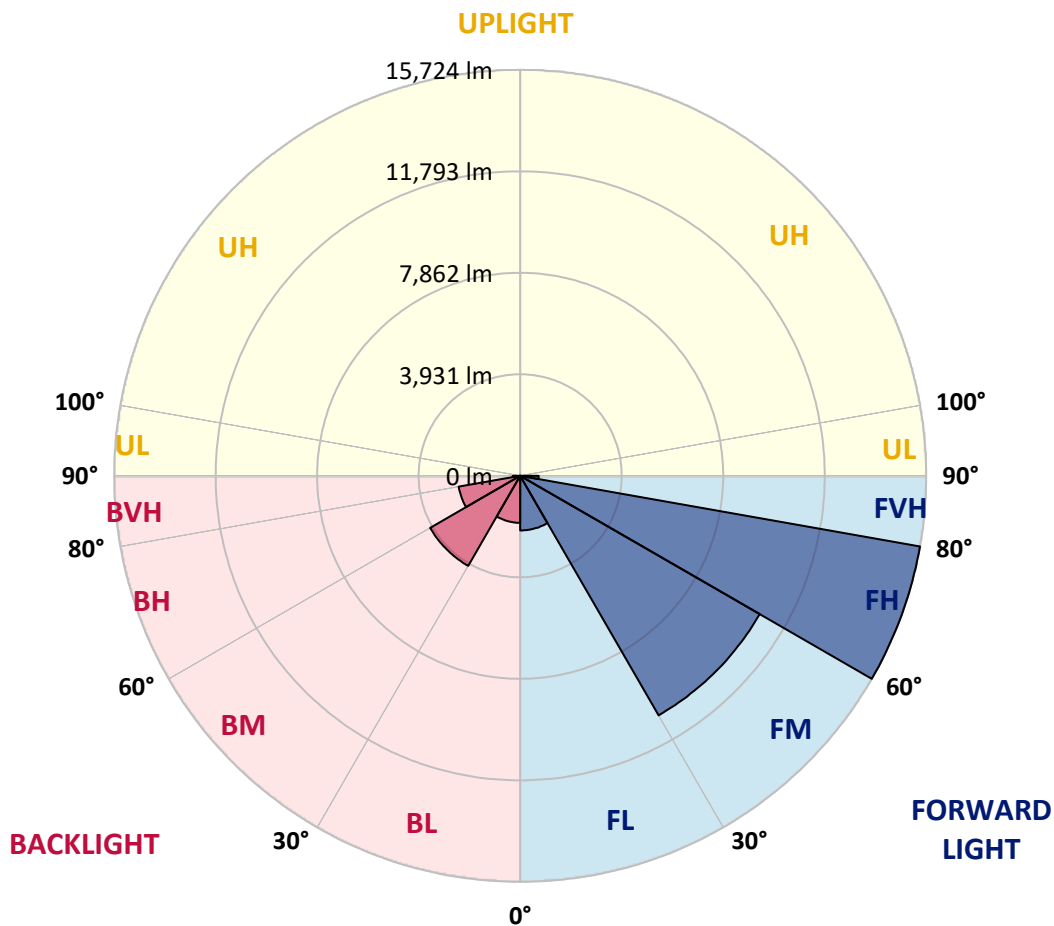
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2115.1	5.6			
FM	(30°-60°)	10713.4	28.3			
FH	(60°-80°)	15724.1	41.6			G5
FVH	(80°-90°)	719.8	1.9			G4/750
BL	(0°-30°)	1820.5	4.8	B3/2500		
BM	(30°-60°)	4026.1	10.6	B3/5000		
BH	(60°-80°)	2420.4	6.4	B3/2500		G3/2500
BVH	(80°-90°)	283.5	0.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	3815.6	3815.6	3815.6	3815.6	3815.6	3815.6	3815.6	3815.6	3815.6	3815.6	3815.6
2.5°	3965.0	3990.9	3967.0	3945.1	3935.2	3909.3	3907.3	3891.3	3881.4	3853.5	3845.5
5°	4242.0	4275.9	4236.0	4192.2	4152.3	4088.6	4080.6	4034.8	3983.0	3923.2	3889.3
7.5°	4554.8	4584.7	4538.9	4473.1	4403.4	4297.8	4295.8	4212.1	4130.4	4028.8	3971.0
10°	4827.8	4867.6	4805.9	4716.2	4628.5	4509.0	4495.0	4399.4	4295.8	4164.3	4076.6
12.5°	5068.9	5096.8	5037.0	4927.4	4825.8	4706.2	4688.3	4582.7	4467.1	4317.7	4206.1
15°	5260.2	5296.0	5216.3	5098.8	4991.2	4873.6	4857.7	4762.0	4646.5	4489.1	4345.6
17.5°	5385.7	5415.6	5333.9	5202.4	5098.8	5001.1	4989.2	4909.5	4807.9	4648.5	4495.0
20°	5433.5	5465.4	5379.7	5246.2	5150.6	5074.9	5068.9	5011.1	4941.4	4795.9	4640.5
22.5°	5481.3	5511.2	5399.6	5260.2	5176.5	5128.7	5126.7	5088.8	5060.9	4941.4	4789.9
25°	5674.6	5682.6	5533.1	5331.9	5212.3	5170.5	5168.5	5166.5	5178.5	5084.8	4951.3
27.5°	5842.0	5840.0	5712.4	5523.2	5337.9	5250.2	5248.2	5268.1	5306.0	5228.3	5118.7
30°	6087.0	6065.1	5913.7	5716.4	5547.1	5411.6	5399.6	5381.7	5411.6	5349.8	5286.1
32.5°	6607.1	6537.3	6292.3	5941.6	5720.4	5616.8	5600.9	5489.3	5501.2	5463.4	5431.5
35°	7352.3	7260.6	6933.8	6368.0	5935.6	5788.2	5780.2	5638.7	5614.8	5580.9	5592.9
37.5°	8238.9	8125.3	7744.8	6985.6	6306.2	5987.4	5975.5	5847.9	5750.3	5714.4	5782.2
40°	9129.6	8986.1	8671.3	7738.8	6852.1	6320.2	6282.3	6089.0	5977.4	5917.7	6061.1
42.5°	9994.3	9874.7	9605.8	8583.6	7525.6	6806.3	6722.6	6391.9	6308.2	6252.4	6511.4
45°	10759.4	10651.8	10454.6	9486.2	8314.6	7467.8	7386.1	6846.2	6820.3	6820.3	7194.9
47.5°	11381.1	11357.2	11147.9	10406.7	9245.1	8221.0	8079.5	7477.8	7547.5	7655.1	8165.2
50°	12070.5	12004.7	11781.6	11313.3	10339.0	9083.7	8968.2	8252.9	8513.9	8808.8	9567.9
52.5°	12704.1	12739.9	12490.9	12257.8	11574.3	10046.1	9842.9	9167.4	9731.3	10219.4	11211.7
55°	13355.6	13357.6	13287.9	13256.0	12869.4	11110.1	10886.9	10267.3	11163.9	11769.6	13128.5
57.5°	13967.3	13971.3	14074.9	14355.8	14371.8	12337.5	12084.4	11618.2	12755.9	13373.5	15105.0
60°	14513.2	14541.1	14824.1	15481.6	15692.8	13744.1	13505.0	13214.1	14401.7	15023.3	17183.2
62.5°	14696.6	14798.2	15427.8	16362.3	16997.9	15469.6	15234.5	15061.2	16131.1	16709.0	18920.6
65°	14385.7	14618.8	15836.3	17089.5	18340.8	17519.9	17286.8	17097.5	17928.4	18472.3	20347.2
67.5°	13622.6	13923.5	15812.3	17852.6	19970.7	19986.6	19769.4	19325.1	19855.1	20064.3	20811.5
70°	11612.2	12062.5	14419.6	18137.6	21841.6	23359.9	23150.7	22007.0	21777.8	20765.7	19504.4
72.5°	7481.8	8087.5	10617.9	15792.4	22258.0	26533.9	26521.9	24427.8	22385.5	19402.8	15643.0
75°	2729.7	3100.3	4933.4	9912.6	18683.5	26372.5	26450.2	24013.4	20434.9	14987.5	9745.2
77.5°	994.2	1087.9	1609.9	3809.6	11490.6	21160.2	21321.6	19197.6	14545.1	7521.6	3861.4
80°	522.0	573.8	824.9	1478.4	4923.4	12566.6	12819.6	11409.0	6836.2	2265.5	1157.6
82.5°	288.9	312.8	462.3	803.0	2217.6	5373.7	5525.2	4507.0	2404.9	960.4	478.2
85°	155.4	165.4	217.2	438.3	1083.9	1863.0	1904.8	1346.9	958.4	563.9	231.1
87.5°	45.8	55.8	71.7	139.5	424.4	418.4	428.4	267.0	378.6	284.9	75.7
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°	3815.6	3815.6	3815.6	3815.6	3815.6	3815.6	3815.6	3815.6	3815.6	3815.6	3815.6
2.5°	3833.5	3827.6	3805.6	3795.7	3783.7	3781.7	3791.7	3793.7	3795.7	3797.7	3805.6
5°	3869.4	3849.5	3829.6	3817.6	3821.6	3823.6	3843.5	3857.4	3867.4	3875.4	3879.4
7.5°	3939.1	3923.2	3889.3	3887.3	3893.3	3911.2	3937.1	3969.0	3987.0	4000.9	4004.9
10°	4042.7	4012.9	3973.0	3979.0	3990.9	4016.8	4070.6	4096.5	4126.4	4152.3	4146.4
12.5°	4148.3	4122.4	4076.6	4080.6	4100.5	4146.4	4198.2	4230.0	4250.0	4269.9	4277.9
15°	4285.8	4240.0	4190.2	4190.2	4226.1	4275.9	4299.8	4325.7	4337.6	4359.6	4367.5
17.5°	4427.3	4367.5	4301.8	4297.8	4341.6	4365.5	4379.5	4383.5	4387.4	4411.4	4419.3
20°	4568.8	4503.0	4409.4	4401.4	4411.4	4407.4	4405.4	4401.4	4407.4	4437.3	4449.2
22.5°	4708.2	4632.5	4503.0	4467.1	4439.3	4401.4	4399.4	4397.4	4401.4	4431.3	4451.2
25°	4871.6	4780.0	4606.6	4499.0	4405.4	4353.6	4359.6	4361.5	4365.5	4389.4	4421.3
27.5°	5049.0	4947.3	4702.3	4489.1	4319.7	4283.8	4273.9	4279.9	4293.8	4331.7	4369.5
30°	5226.3	5106.7	4789.9	4449.2	4212.1	4162.3	4130.4	4144.4	4188.2	4226.1	4267.9
32.5°	5387.7	5268.1	4859.7	4361.5	4074.6	3996.9	3955.1	3973.0	4016.8	4030.8	4080.6
35°	5577.0	5441.5	4889.6	4222.1	3925.2	3805.6	3749.9	3724.0	3745.9	3731.9	3775.8
37.5°	5788.2	5646.7	4885.6	4038.8	3749.9	3612.4	3534.7	3437.0	3391.2	3343.4	3373.3
40°	6101.0	5897.7	4837.7	3817.6	3532.7	3407.1	3267.7	3102.3	2998.7	2905.0	2911.0
42.5°	6527.4	6246.4	4750.1	3574.5	3287.6	3170.0	2980.8	2787.5	2624.1	2468.7	2454.7
45°	7163.0	6702.7	4640.5	3315.5	3022.6	2907.0	2701.8	2484.6	2299.3	2100.1	2076.2
47.5°	8079.5	7316.4	4536.9	3020.6	2743.6	2638.0	2452.7	2251.5	2032.3	1839.1	1817.1
50°	9338.8	8197.1	4441.2	2733.7	2468.7	2389.0	2241.5	2036.3	1815.2	1659.7	1649.8
52.5°	10940.7	9394.6	4401.4	2456.7	2211.7	2181.8	2064.2	1872.9	1663.7	1532.2	1522.3
55°	12779.8	10827.2	4401.4	2191.7	1986.5	1996.5	1914.8	1737.4	1556.1	1438.6	1426.6
57.5°	14656.7	12277.7	4321.7	1946.7	1795.2	1837.1	1785.3	1629.9	1466.5	1344.9	1325.0
60°	16386.2	13493.1	3998.9	1723.5	1625.9	1691.6	1657.7	1524.2	1325.0	1223.4	1207.4
62.5°	17715.2	14178.5	3377.3	1546.2	1486.4	1562.1	1544.2	1384.8	1299.1	1257.3	1243.3
65°	18380.7	14066.9	2582.3	1388.8	1368.8	1486.4	1448.5	1442.6	1374.8	1327.0	1311.1
67.5°	17972.2	13106.6	1872.9	1273.2	1301.1	1416.7	1562.1	1586.0	1460.5	1366.8	1350.9
70°	16181.0	11369.1	1394.7	1163.6	1215.4	1418.6	1781.3	1659.7	1432.6	1323.0	1305.1
72.5°	12309.6	8478.0	1081.9	1048.0	1103.8	1428.6	1878.9	1625.9	1352.9	1462.5	1450.5
75°	7039.4	4654.4	868.7	906.6	964.4	1335.0	1829.1	1538.2	1291.1	1342.9	1342.9
77.5°	2683.9	1789.2	717.3	767.1	775.1	1165.6	1749.4	1532.2	1229.4	1199.5	1093.9
80°	930.5	699.4	593.8	609.7	599.7	1036.1	1677.7	1333.0	1006.2	900.6	870.7
82.5°	380.6	348.7	470.2	450.3	426.4	805.0	1354.9	1089.9	822.9	727.3	719.3
85°	165.4	221.2	310.8	273.0	247.1	557.9	1085.9	922.5	695.4	599.7	597.7
87.5°	33.9	83.7	131.5	123.5	127.5	372.6	771.1	655.5	492.1	368.6	288.9
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)