

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: P956646

Luminaire Tested: **GALN-SB9B-727-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956646
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9B-727-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48456 lumens
Efficiency: N/A
Efficacy: 147.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 329.5
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

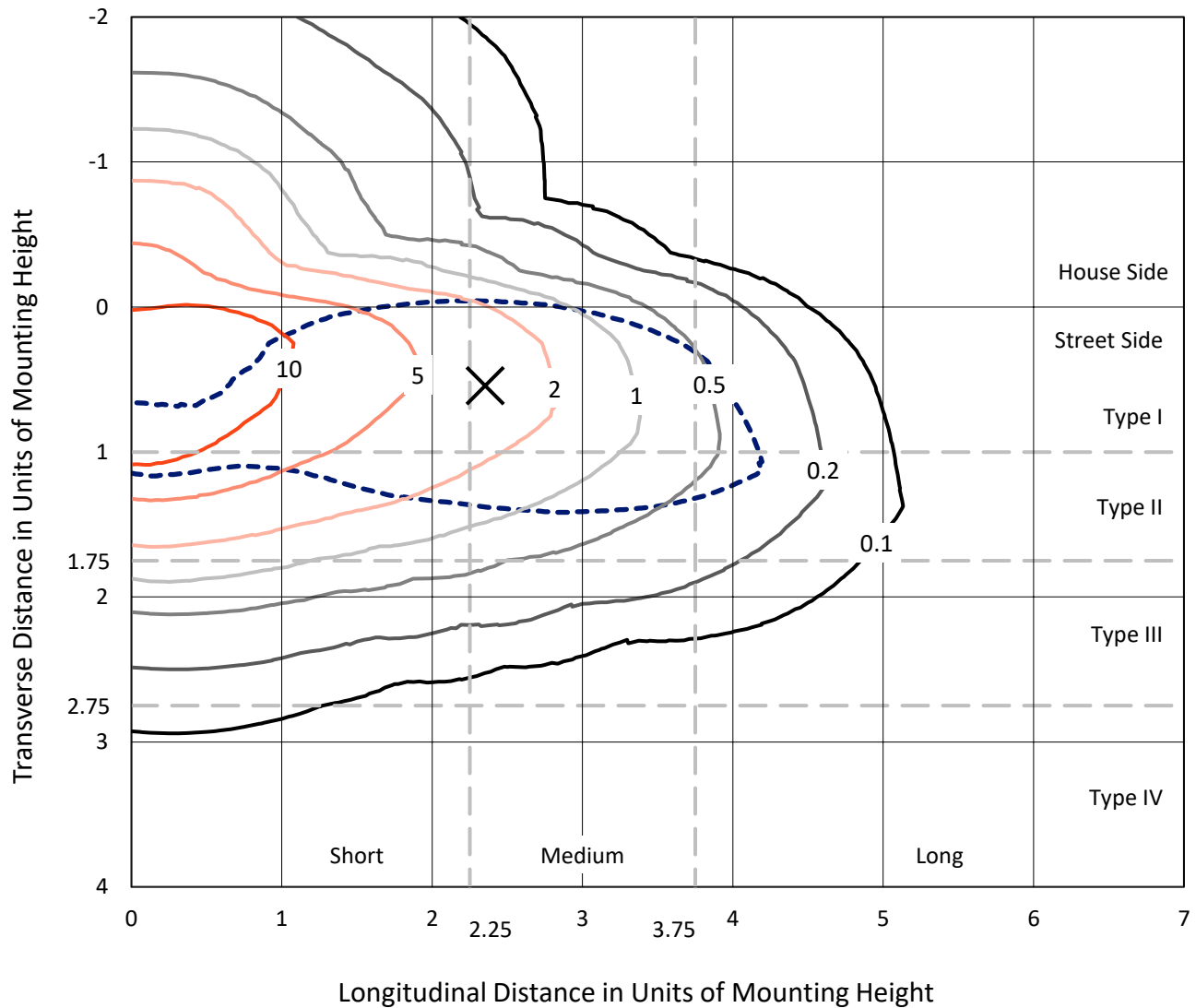


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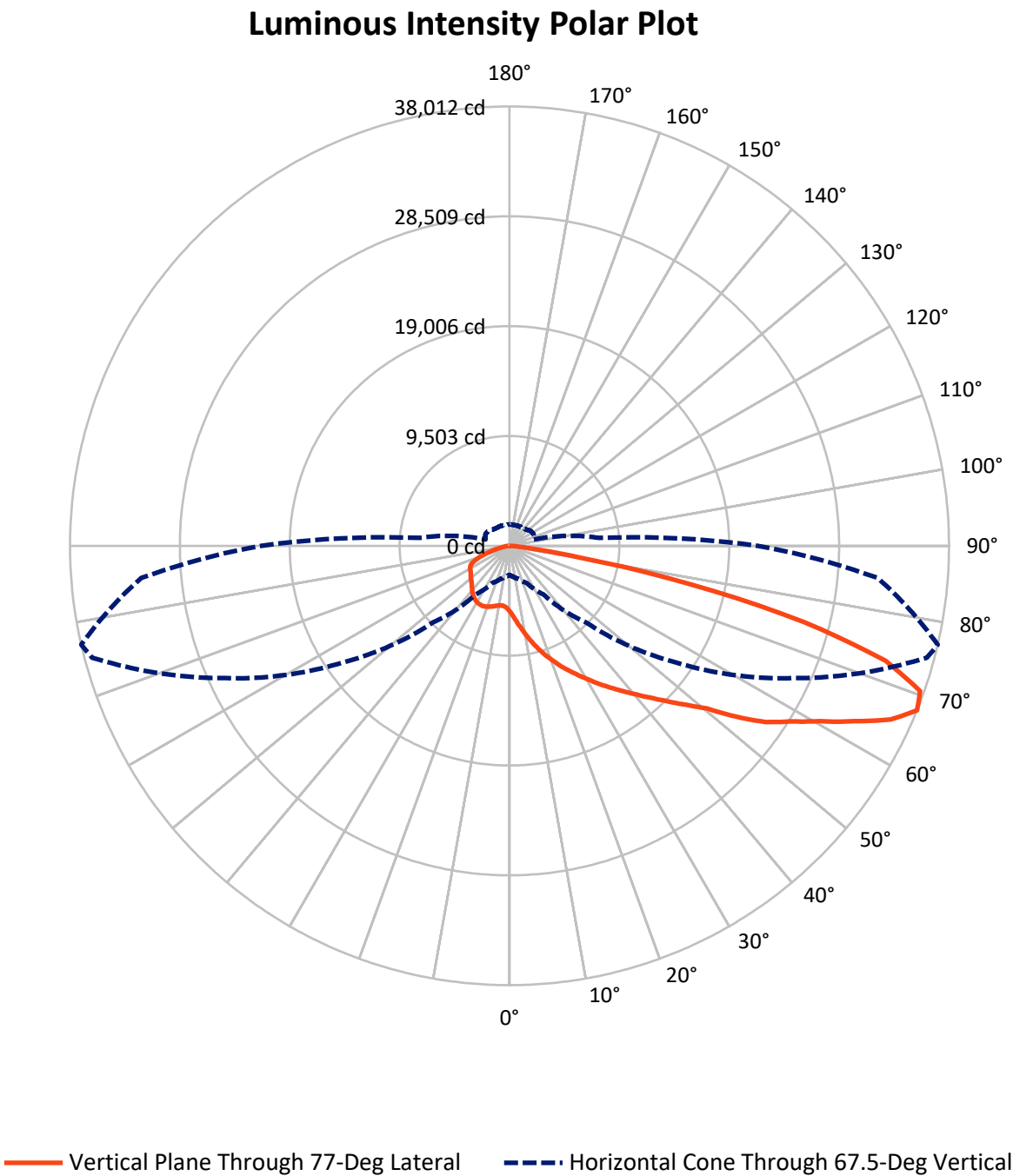
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.8 fc
Type II - Medium - N/A

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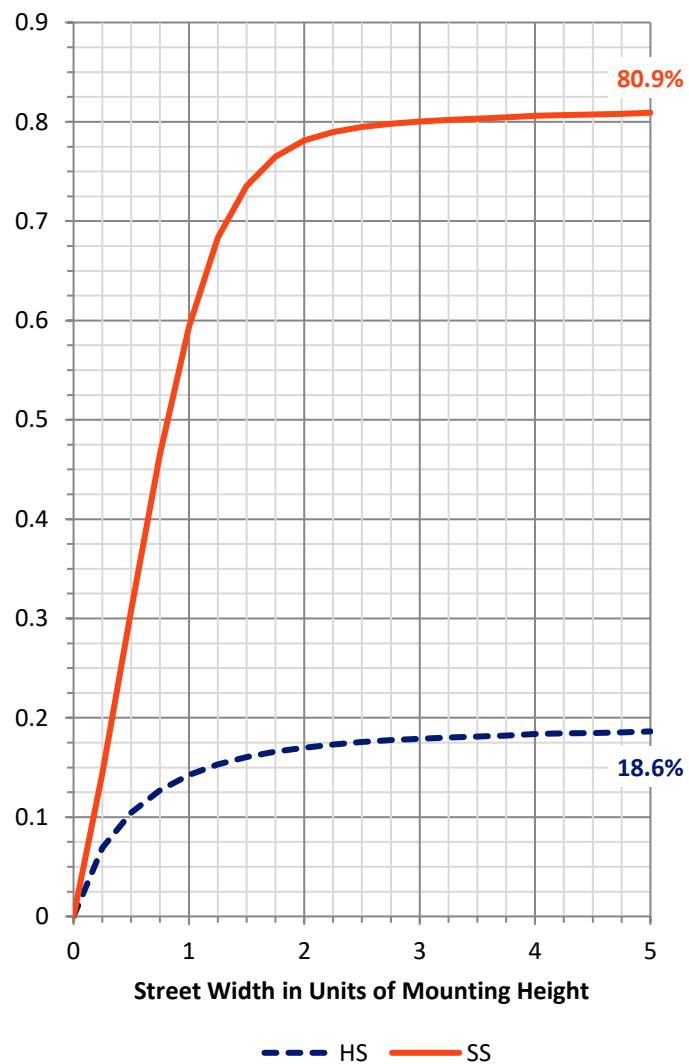
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9165.9	0.0	9165.9
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	39290.1	0.0	39290.1
	% Fixture	81.1	0.0	81.1
Total	Lumens	48456.0	0.0	48456.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	609.4	1.3
10°-20°	2189.3	4.5
20°-30°	4133.6	8.5
30°-40°	6659.2	13.7
40°-50°	9108.6	18.8
50°-60°	10274.6	21.2
60°-70°	9590.1	19.8
70°-80°	5257.0	10.8
80°-90°	634.1	1.3
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°	48456.0	100.0
0°-180°	48456.0	100.0

Coefficient of Utilization



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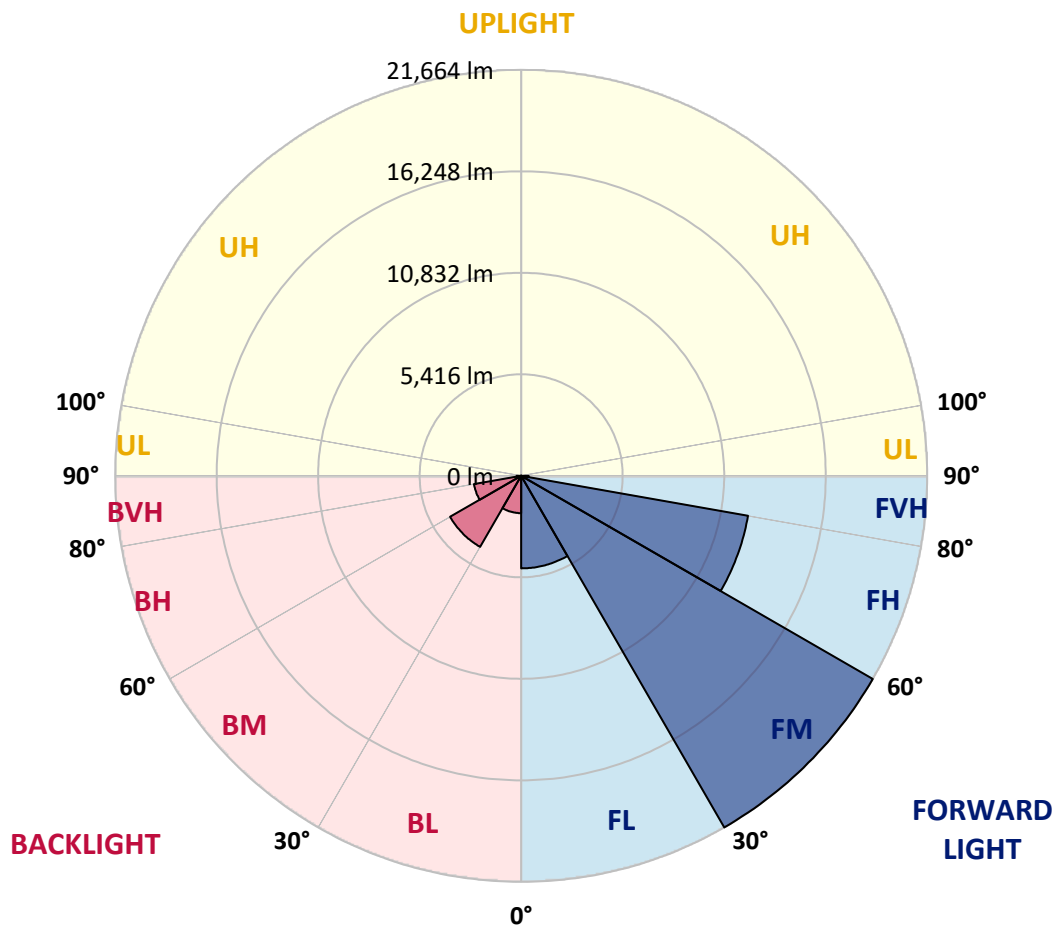
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4939.5	10.2			
FM	(30°-60°)	21664.2	44.7			
FH	(60°-80°)	12289.9	25.4			G5
FVH	(80°-90°)	396.6	0.8			G3/500
BL	(0°-30°)	1992.9	4.1	B3/2500		
BM	(30°-60°)	4378.3	9.0	B3/5000		
BH	(60°-80°)	2557.2	5.3	B4/5000		G4/5000
BVH	(80°-90°)	237.6	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	5685.4	5685.4	5685.4	5685.4	5685.4	5685.4	5685.4	5685.4	5685.4	5685.4	5685.4
2.5°	7118.6	7168.6	7106.1	7106.1	6896.0	6786.0	6575.8	6415.8	6128.1	6078.1	5888.0
5°	8414.3	8476.8	8389.3	8351.8	8104.1	7876.5	7523.8	7176.2	6663.4	6610.9	6163.1
7.5°	9417.3	9497.3	9419.8	9379.8	9159.7	8904.5	8491.8	8006.6	7283.7	7181.2	6533.3
10°	10235.2	10247.7	10222.7	10237.7	10065.1	9855.0	9432.3	8867.0	7964.1	7824.0	6981.1
12.5°	10697.9	10755.5	10805.5	10895.5	10865.5	10735.5	10355.3	9679.9	8684.4	8504.3	7468.8
15°	10915.6	11015.6	11128.2	11335.8	11503.4	11535.9	11245.7	10552.9	9417.3	9199.7	7961.6
17.5°	10993.1	11088.1	11265.7	11565.9	11926.1	12168.7	12038.6	11400.8	10142.7	9892.5	8479.3
20°	11385.8	11413.3	11520.9	11806.0	12196.2	12598.9	12696.5	12216.2	10860.5	10577.9	9014.6
22.5°	12226.2	12171.2	12201.2	12331.3	12611.4	13001.6	13224.2	12936.6	11598.4	11273.2	9554.9
25°	13614.4	13454.3	13294.3	13144.2	13286.8	13506.9	13759.5	13657.0	12371.3	11958.6	10100.1
27.5°	15367.8	15172.7	14820.0	14327.3	14154.7	14232.2	14344.8	14324.8	13086.7	12668.9	10662.9
30°	17093.7	16866.1	16445.9	15733.0	15277.8	15072.7	14987.6	14930.1	13864.6	13419.3	11230.7
32.5°	18471.9	18291.8	17879.1	17081.2	16420.9	16070.7	15788.0	15582.9	14677.5	14232.2	11831.0
35°	19677.5	19509.9	19037.2	18166.7	17448.9	17076.2	16706.0	16268.3	15522.9	15072.7	12476.4
37.5°	20778.1	20610.5	19962.7	19057.2	18334.3	18076.7	17746.5	17003.7	16370.8	15945.6	13159.2
40°	21473.4	21435.9	20830.6	19805.1	19054.7	18927.1	18817.1	17856.6	17311.3	16916.1	13909.6
42.5°	21651.0	21733.6	21253.3	20410.4	19695.0	19592.5	19850.1	18822.1	18366.8	17989.2	14760.0
45°	21223.3	21460.9	21145.8	20573.0	20150.3	20095.2	20765.6	19877.6	19534.9	19189.8	15785.5
47.5°	20140.3	20543.0	20412.9	20332.9	20272.8	20510.4	21571.0	20998.2	20858.1	20558.0	16956.1
50°	17954.1	18717.0	18944.6	19449.9	20030.2	20833.1	22303.9	22221.3	22403.9	22101.3	18381.9
52.5°	14174.7	15225.3	16545.9	17811.6	19284.8	20725.6	23109.3	23977.2	24747.6	24582.5	20648.0
55°	11701.0	12173.7	13189.2	15510.4	17839.1	20272.8	23471.9	25395.4	27073.8	26926.2	22366.4
57.5°	9800.0	10222.7	10848.0	12786.5	15653.0	19244.8	23697.1	26260.9	28667.1	28652.1	24062.2
60°	7761.5	8209.2	8849.5	10222.7	13099.2	17468.9	23647.0	27246.4	30700.6	30825.7	26130.8
62.5°	5460.3	5953.0	6663.4	7944.0	10490.3	15167.7	22626.5	27959.2	33094.3	33434.5	28619.6
65°	3589.3	3914.5	4449.8	5555.3	7816.5	12208.7	20678.0	28051.8	35655.7	36230.9	30955.8
67.5°	2516.3	2641.3	2956.5	3556.8	5152.6	9362.3	17573.9	27093.8	37364.0	38011.9	31968.8
70°	1963.5	2026.0	2186.1	2426.2	3236.6	6295.7	13466.9	24602.5	36998.8	37674.2	30910.7
72.5°	1695.9	1755.9	1815.9	1845.9	2171.1	3887.0	9122.1	20570.5	33559.6	34017.3	26876.2
75°	1538.3	1553.3	1603.3	1593.3	1655.8	2521.3	5265.2	14987.6	26478.5	26320.9	19840.1
77.5°	1293.2	1313.2	1395.7	1383.2	1470.7	1723.4	2733.9	9672.4	17166.2	16095.7	11043.1
80°	1095.6	1105.6	1195.6	1180.6	1278.2	1248.1	1395.7	4930.0	7281.2	6168.1	3184.1
82.5°	380.2	470.2	913.0	940.5	975.5	755.4	805.4	2011.0	2223.6	1703.4	667.8
85°	185.1	197.6	465.2	660.3	657.8	380.2	392.7	717.9	700.4	550.3	222.6
87.5°	30.0	37.5	55.0	257.6	205.1	100.1	135.1	140.1	145.1	125.1	50.0
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°	5685.4	5685.4	5685.4	5685.4	5685.4	5685.4	5685.4	5685.4	5685.4	5685.4	5685.4
2.5°	5747.9	5622.9	5360.2	5117.6	4927.5	4744.9	4642.4	4554.8	4504.8	4494.8	4494.8
5°	5903.0	5645.4	5167.6	4764.9	4502.3	4307.2	4204.6	4139.6	4107.1	4087.1	4084.6
7.5°	6125.6	5747.9	5067.6	4609.8	4334.7	4194.6	4142.1	4132.1	4129.6	4132.1	4139.6
10°	6433.3	5915.5	5057.6	4572.3	4342.2	4264.7	4262.2	4264.7	4274.7	4277.2	4279.7
12.5°	6765.9	6088.1	5097.6	4604.8	4437.3	4394.7	4387.2	4384.7	4392.2	4397.2	4399.7
15°	7128.6	6315.7	5165.1	4674.9	4542.3	4497.3	4489.8	4474.8	4472.3	4469.8	4467.3
17.5°	7501.3	6540.8	5240.2	4749.9	4609.8	4547.3	4519.8	4484.8	4457.3	4449.8	4457.3
20°	7879.0	6763.4	5292.7	4787.4	4614.8	4527.3	4472.3	4412.2	4364.7	4337.2	4347.2
22.5°	8281.7	6996.1	5325.2	4777.4	4569.8	4449.8	4349.7	4279.7	4207.1	4159.6	4162.1
25°	8674.4	7198.7	5322.7	4724.9	4482.3	4329.7	4202.1	4112.1	4012.0	3962.0	3962.0
27.5°	9052.1	7381.3	5260.2	4632.4	4357.2	4187.1	4034.6	3927.0	3829.4	3781.9	3779.4
30°	9442.3	7533.8	5162.6	4497.3	4209.6	4022.0	3854.5	3761.9	3674.4	3629.3	3626.8
32.5°	9830.0	7673.9	5025.1	4329.7	4039.6	3859.5	3694.4	3609.3	3556.8	3556.8	3559.3
35°	10240.2	7771.5	4842.5	4134.6	3859.5	3686.9	3556.8	3506.8	3501.8	3471.8	3464.3
37.5°	10672.9	7834.0	4619.9	3934.5	3681.9	3519.3	3479.3	3419.2	3369.2	3304.2	3294.2
40°	11128.2	7896.5	4352.2	3726.9	3494.3	3404.2	3386.7	3306.7	3164.1	3004.0	2981.5
42.5°	11680.9	7939.0	4074.6	3519.3	3296.7	3266.7	3291.7	3154.1	2926.5	2806.4	2808.9
45°	12321.3	8009.1	3819.4	3314.2	3094.1	3094.1	3199.1	3019.0	2831.4	2756.4	2768.9
47.5°	13151.7	8171.7	3581.8	3089.1	2906.5	2956.5	2994.0	2856.5	2751.4	2658.9	2656.4
50°	14352.3	8561.9	3336.7	2861.5	2763.9	2864.0	2811.4	2731.4	2608.8	2533.8	2526.3
52.5°	15843.1	8792.0	3119.1	2656.4	2641.3	2741.4	2666.4	2591.3	2498.8	2398.7	2378.7
55°	16858.6	8834.5	2936.5	2506.3	2558.8	2548.8	2521.3	2453.7	2403.7	2271.2	2273.7
57.5°	17994.2	8919.5	2786.4	2416.2	2506.3	2396.2	2386.2	2328.7	2263.7	2173.6	2143.6
60°	19352.4	9052.1	2656.4	2381.2	2461.3	2296.2	2246.1	2223.6	2158.6	2113.6	2126.1
62.5°	20833.1	9172.2	2523.8	2386.2	2408.7	2198.6	2123.6	2116.1	2076.1	2061.0	2061.0
65°	21843.6	8844.5	2358.7	2381.2	2326.2	2098.6	2003.5	2001.0	1968.5	1963.5	1961.0
67.5°	21490.9	7806.5	2136.1	2311.2	2241.1	1998.5	1893.5	1883.5	1840.9	1843.4	1843.4
70°	19725.0	6325.7	1828.4	2138.6	2136.1	1908.5	1778.4	1745.9	1688.4	1698.4	1708.4
72.5°	16413.4	4687.4	1415.7	1850.9	1968.5	1825.9	1645.8	1593.3	1520.8	1530.8	1528.3
75°	11853.5	3186.6	1030.5	1408.2	1713.4	1728.4	1515.8	1425.7	1338.2	1353.2	1358.2
77.5°	6065.6	1805.9	757.9	970.5	1345.7	1570.8	1398.2	1278.2	1258.1	1398.2	1378.2
80°	1978.5	905.5	525.3	680.3	882.9	1285.7	1225.6	1088.1	1083.1	1115.6	958.0
82.5°	590.3	382.7	337.7	447.7	487.7	985.5	1058.0	822.9	707.9	745.4	770.4
85°	202.6	185.1	192.6	222.6	232.6	577.8	740.4	545.3	515.3	567.8	560.3
87.5°	47.5	65.0	55.0	50.0	50.0	140.1	287.6	227.6	315.2	210.1	202.6
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)