

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: P951627

Luminaire Tested: **GALN-SB5D-722-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951627
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-SB5D-722-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43252 lumens
Efficiency: N/A
Efficacy: 118.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - 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

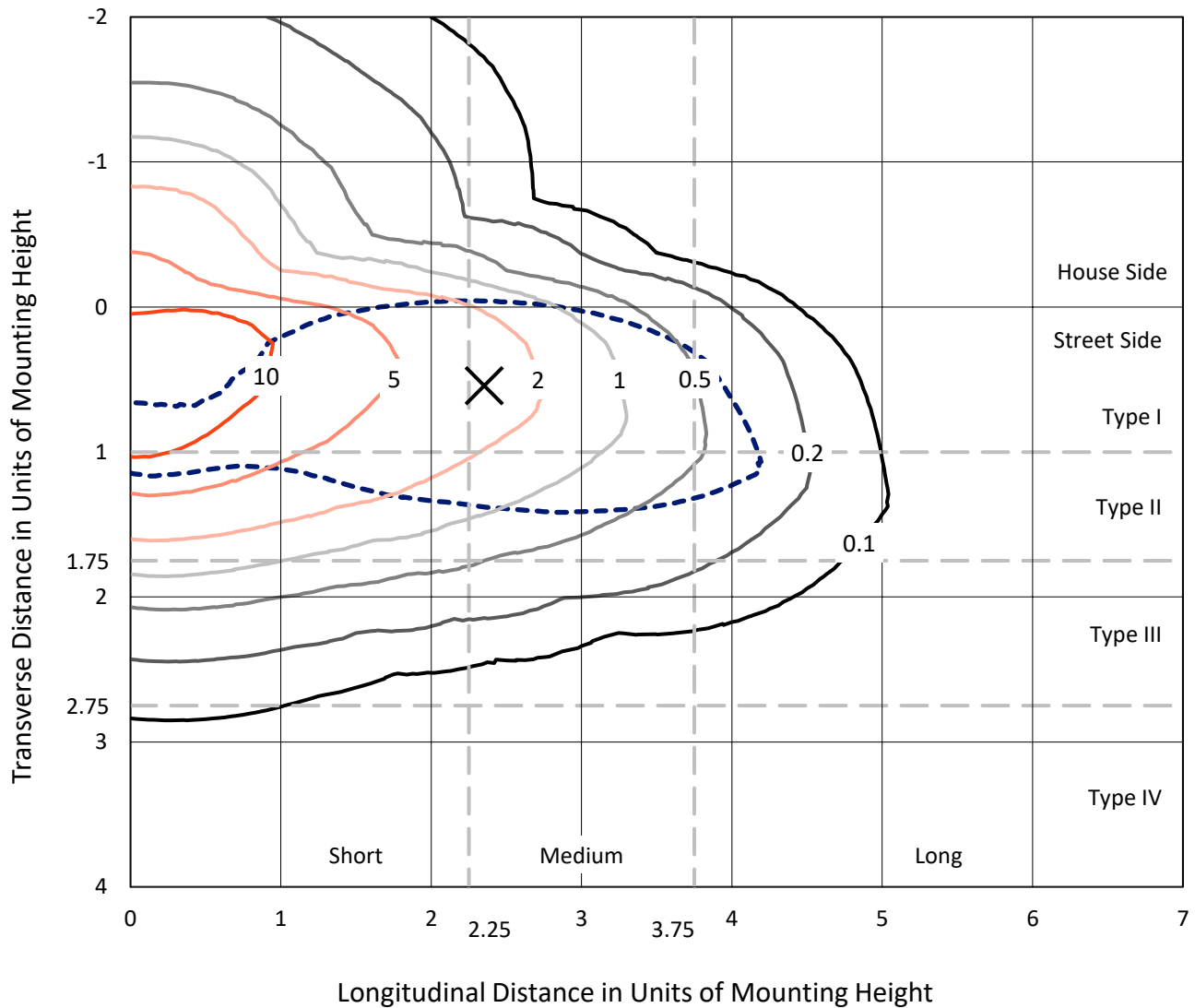


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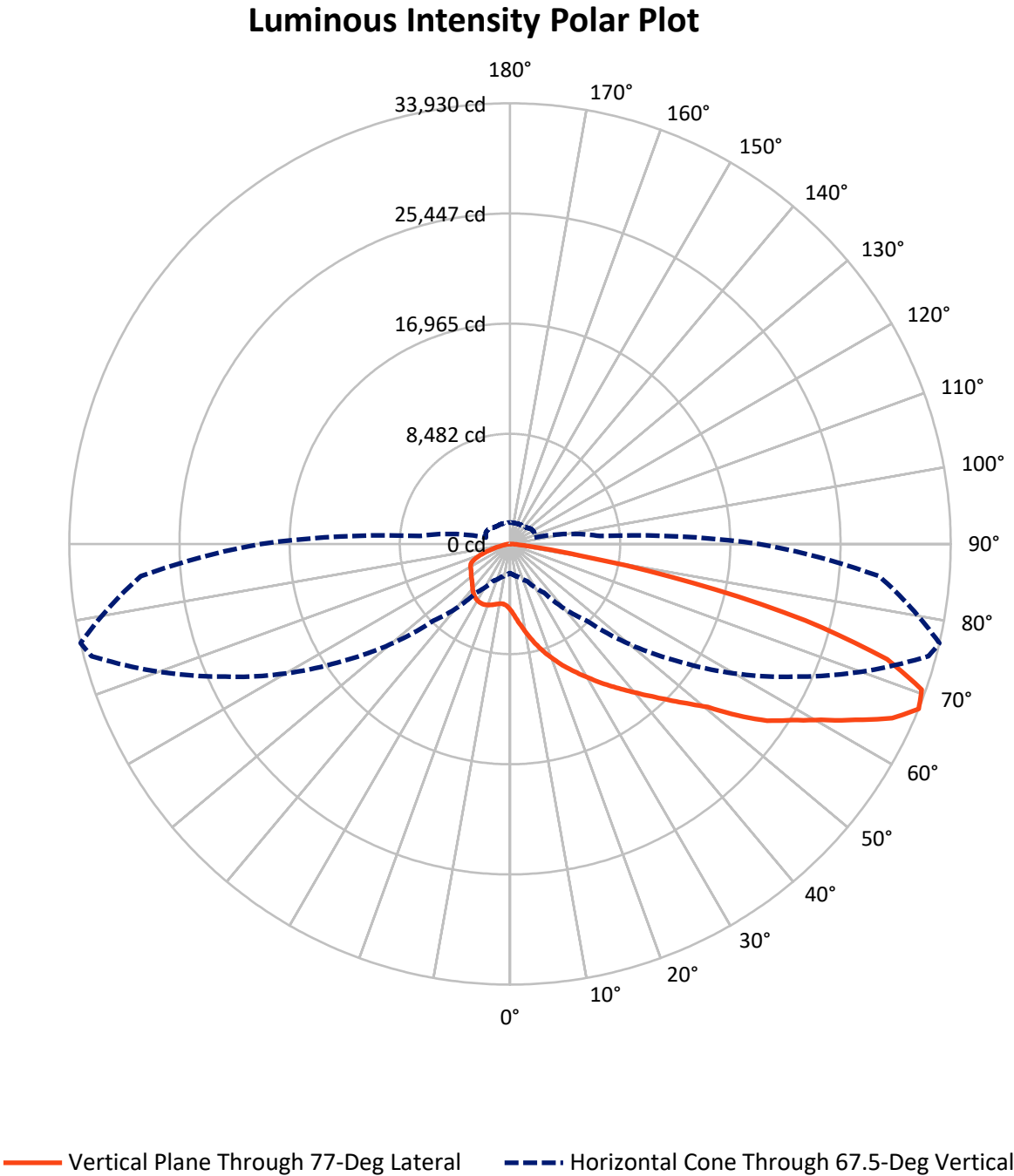
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.8 fc
Type II - Medium - N/A

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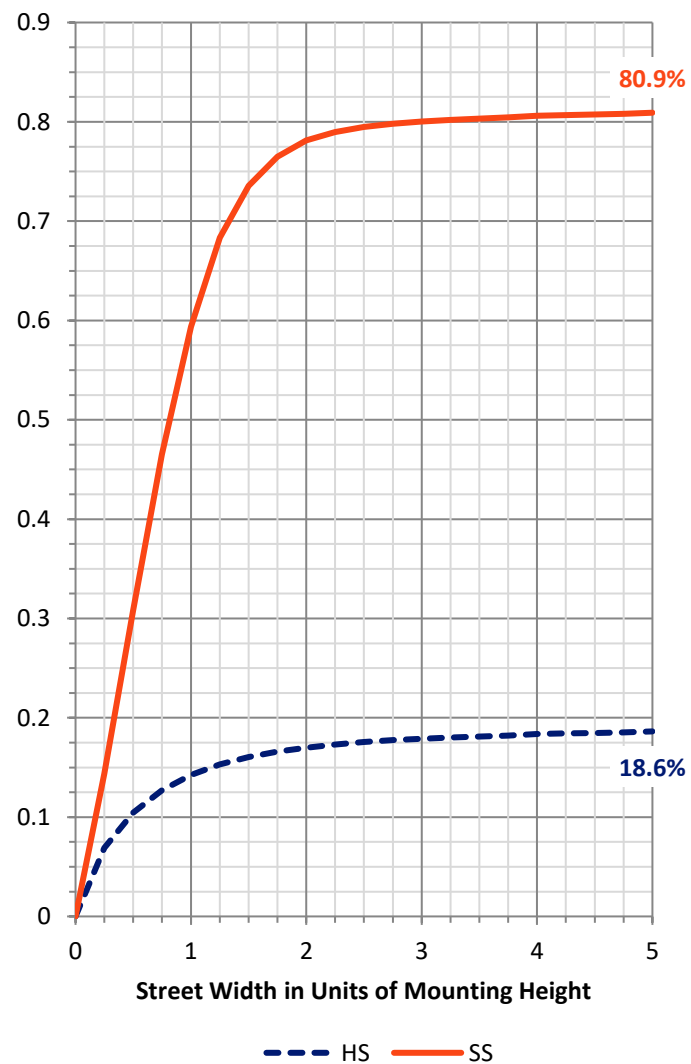
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8181.5	0.0	8181.5
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	35070.4	0.0	35070.4
	% Fixture	81.1	0.0	81.1
Total	Lumens	43252.0	0.0	43252.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	544.0	1.3
10°-20°	1954.2	4.5
20°-30°	3689.7	8.5
30°-40°	5944.1	13.7
40°-50°	8130.4	18.8
50°-60°	9171.1	21.2
60°-70°	8560.1	19.8
70°-80°	4692.4	10.8
80°-90°	566.0	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°	43252.0	100.0
0°-180°	43252.0	100.0

Coefficient of Utilization



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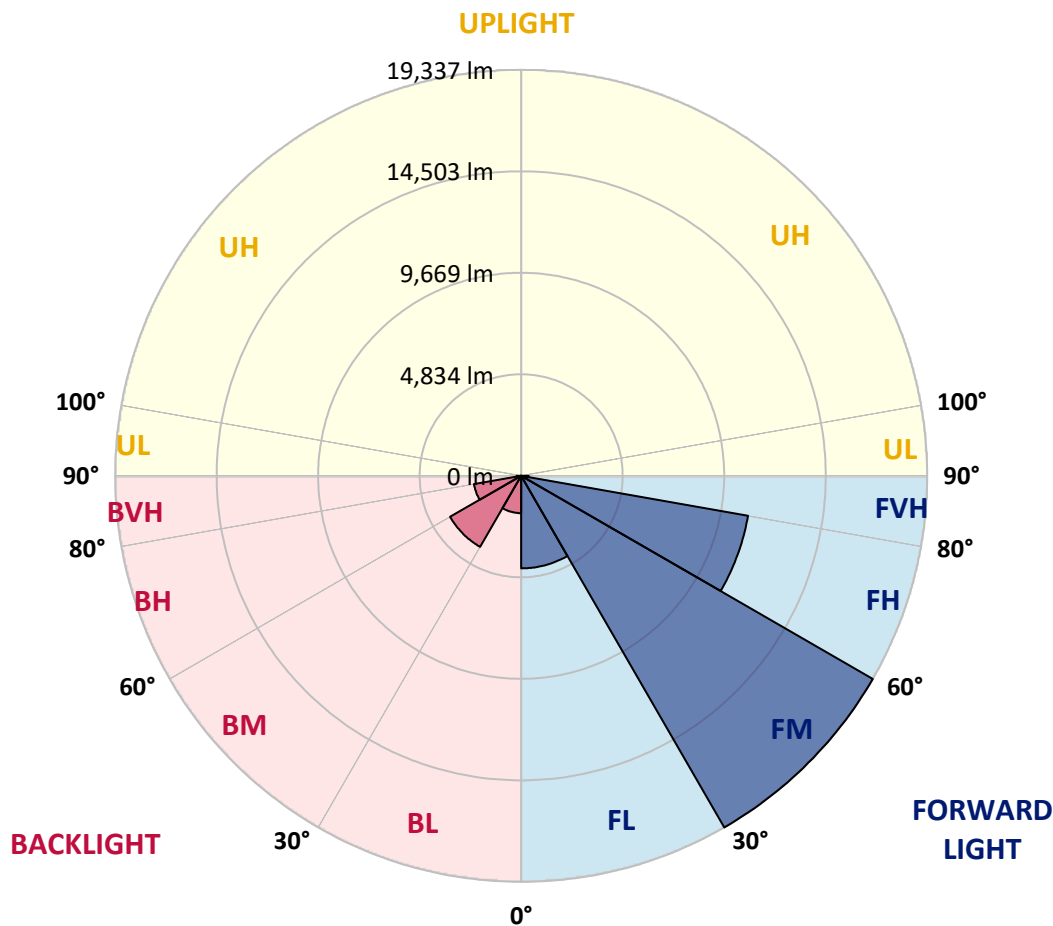
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4409.0	10.2			
FM	(30°-60°)	19337.5	44.7			
FH	(60°-80°)	10970.0	25.4			G4/12000
FVH	(80°-90°)	354.0	0.8			G3/500
BL	(0°-30°)	1778.9	4.1	B3/2500		
BM	(30°-60°)	3908.1	9.0	B3/5000		
BH	(60°-80°)	2282.5	5.3	B3/2500		G3/2500
BVH	(80°-90°)	212.0	0.5			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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	5074.8	5074.8	5074.8	5074.8	5074.8	5074.8	5074.8	5074.8	5074.8	5074.8	5074.8
2.5°	6354.1	6398.8	6342.9	6342.9	6155.4	6057.2	5869.6	5726.7	5470.0	5425.3	5255.6
5°	7510.6	7566.4	7488.3	7454.8	7233.8	7030.6	6715.8	6405.5	5947.8	5900.9	5501.2
7.5°	8405.9	8477.4	8408.1	8372.4	8175.9	7948.2	7579.8	7146.7	6501.5	6409.9	5831.7
10°	9136.0	9147.1	9124.8	9138.2	8984.2	8796.6	8419.3	7914.7	7108.7	6983.7	6231.3
12.5°	9549.0	9600.4	9645.0	9725.4	9698.6	9582.5	9243.2	8640.3	7751.7	7591.0	6666.7
15°	9743.3	9832.6	9933.0	10118.3	10267.9	10297.0	10038.0	9419.5	8405.9	8211.7	7106.5
17.5°	9812.5	9897.3	10055.8	10323.8	10645.3	10861.8	10745.7	10176.4	9053.4	8830.1	7568.7
20°	10163.0	10187.6	10283.6	10538.1	10886.4	11245.8	11332.9	10904.2	9694.1	9441.9	8046.5
22.5°	10913.2	10864.1	10890.8	11006.9	11257.0	11605.3	11804.0	11547.2	10352.8	10062.5	8528.7
25°	12152.3	12009.4	11866.5	11732.6	11859.8	12056.3	12281.8	12190.2	11042.7	10674.3	9015.4
27.5°	13717.4	13543.2	13228.4	12788.6	12634.5	12703.8	12804.2	12786.4	11681.2	11308.3	9517.8
30°	15257.9	15054.7	14679.6	14043.3	13637.0	13453.9	13378.0	13326.7	12375.6	11978.1	10024.6
32.5°	16488.1	16327.3	15959.0	15246.7	14657.3	14344.7	14092.5	13909.4	13101.2	12703.8	10560.4
35°	17564.2	17414.6	16992.7	16215.7	15574.9	15242.3	14911.8	14521.1	13855.8	13453.9	11136.4
37.5°	18546.6	18397.0	17818.7	17010.5	16365.3	16135.3	15840.6	15177.5	14612.7	14233.1	11745.9
40°	19167.3	19133.8	18593.5	17678.1	17008.3	16894.4	16796.2	15938.9	15452.1	15099.4	12415.7
42.5°	19325.8	19399.5	18970.8	18218.4	17579.9	17488.3	17718.3	16800.7	16394.3	16057.2	13174.8
45°	18944.0	19156.1	18874.8	18363.5	17986.2	17937.1	18535.4	17742.8	17437.0	17128.9	14090.2
47.5°	17977.3	18336.7	18220.6	18149.2	18095.6	18307.7	19254.3	18743.1	18618.0	18350.1	15135.1
50°	16025.9	16706.9	16910.1	17361.1	17879.0	18595.7	19908.5	19834.8	19997.8	19727.7	16407.7
52.5°	12652.4	13590.1	14769.0	15898.7	17213.7	18499.7	20627.4	21402.1	22089.8	21942.4	18430.5
55°	10444.3	10866.3	11772.7	13844.6	15923.2	18095.6	20951.1	22668.1	24166.2	24034.4	19964.3
57.5°	8747.5	9124.8	9683.0	11413.3	13971.9	17178.0	21152.1	23440.5	25588.4	25575.0	21478.1
60°	6927.9	7327.5	7899.1	9124.8	11692.4	15592.8	21107.4	24320.2	27403.5	27515.1	23324.4
62.5°	4873.9	5313.7	5947.8	7090.9	9363.7	13538.8	20196.5	24956.5	29540.1	29843.8	25545.9
65°	3203.8	3494.1	3971.9	4958.7	6977.0	10897.5	18457.3	25039.1	31826.4	32339.9	27631.2
67.5°	2246.0	2357.7	2639.0	3174.8	4599.2	8356.8	15686.6	24184.0	33351.3	33929.5	28535.4
70°	1752.6	1808.4	1951.3	2165.7	2889.0	5619.6	12020.6	21960.3	33025.3	33628.1	27591.0
72.5°	1513.7	1567.3	1620.9	1647.7	1937.9	3469.5	8142.5	18361.3	29955.4	30364.0	23989.8
75°	1373.1	1386.5	1431.1	1422.2	1478.0	2250.5	4699.7	13378.0	23634.8	23494.1	17709.3
77.5°	1154.3	1172.1	1245.8	1234.7	1312.8	1538.3	2440.3	8633.6	15322.6	14367.1	9857.1
80°	977.9	986.8	1067.2	1053.8	1140.9	1114.1	1245.8	4400.5	6499.2	5505.7	2842.2
82.5°	339.4	419.7	814.9	839.5	870.7	674.3	718.9	1795.0	1984.8	1520.4	596.1
85°	165.2	176.4	415.3	589.4	587.2	339.4	350.5	640.8	625.1	491.2	198.7
87.5°	26.8	33.5	49.1	230.0	183.1	89.3	120.6	125.0	129.5	111.6	44.7
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°	5074.8	5074.8	5074.8	5074.8	5074.8	5074.8	5074.8	5074.8	5074.8	5074.8	5074.8
2.5°	5130.6	5019.0	4784.6	4568.0	4398.3	4235.3	4143.8	4065.6	4021.0	4012.1	4012.1
5°	5269.0	5039.1	4612.6	4253.2	4018.8	3844.6	3753.1	3695.0	3666.0	3648.1	3645.9
7.5°	5467.7	5130.6	4523.3	4114.8	3869.2	3744.1	3697.3	3688.3	3686.1	3688.3	3695.0
10°	5742.4	5280.2	4514.4	4081.3	3875.9	3806.7	3804.4	3806.7	3815.6	3817.8	3820.1
12.5°	6039.3	5434.3	4550.1	4110.3	3960.7	3922.8	3916.1	3913.8	3920.5	3925.0	3927.2
15°	6363.0	5637.4	4610.4	4172.8	4054.5	4014.3	4007.6	3994.2	3992.0	3989.7	3987.5
17.5°	6695.7	5838.4	4677.4	4239.8	4114.8	4058.9	4034.4	4003.1	3978.6	3971.9	3978.6
20°	7032.8	6037.1	4724.3	4273.3	4119.2	4041.1	3992.0	3938.4	3896.0	3871.4	3880.3
22.5°	7392.3	6244.7	4753.3	4264.4	4079.0	3971.9	3882.6	3820.1	3755.3	3712.9	3715.1
25°	7742.8	6425.6	4751.1	4217.5	4000.9	3864.7	3750.8	3670.5	3581.2	3536.5	3536.5
27.5°	8079.9	6588.5	4695.3	4134.9	3889.3	3737.4	3601.3	3505.3	3418.2	3375.8	3373.5
30°	8428.2	6724.7	4608.2	4014.3	3757.5	3590.1	3440.5	3357.9	3279.8	3239.6	3237.3
32.5°	8774.3	6849.8	4485.4	3864.7	3605.7	3445.0	3297.6	3221.7	3174.8	3174.8	3177.1
35°	9140.5	6936.8	4322.4	3690.6	3445.0	3290.9	3174.8	3130.2	3125.7	3098.9	3092.2
37.5°	9526.7	6992.6	4123.7	3512.0	3286.5	3141.3	3105.6	3052.0	3007.4	2949.3	2940.4
40°	9933.0	7048.5	3884.8	3326.6	3119.0	3038.6	3023.0	2951.6	2824.3	2681.4	2661.3
42.5°	10426.5	7086.4	3637.0	3141.3	2942.6	2915.8	2938.2	2815.4	2612.2	2505.0	2507.3
45°	10998.0	7148.9	3409.2	2958.3	2761.8	2761.8	2855.6	2694.8	2527.4	2460.4	2471.5
47.5°	11739.3	7294.1	3197.1	2757.3	2594.3	2639.0	2672.5	2549.7	2455.9	2373.3	2371.1
50°	12810.9	7642.3	2978.3	2554.1	2467.1	2556.4	2509.5	2438.0	2328.6	2261.7	2255.0
52.5°	14141.6	7847.7	2784.1	2371.1	2357.7	2447.0	2380.0	2313.0	2230.4	2141.1	2123.2
55°	15048.0	7885.7	2621.1	2237.1	2284.0	2275.1	2250.5	2190.2	2145.6	2027.2	2029.5
57.5°	16061.7	7961.6	2487.2	2156.7	2237.1	2138.9	2129.9	2078.6	2020.5	1940.2	1913.4
60°	17274.0	8079.9	2371.1	2125.5	2196.9	2049.6	2004.9	1984.8	1926.8	1886.6	1897.7
62.5°	18595.7	8187.1	2252.7	2129.9	2150.0	1962.5	1895.5	1888.8	1853.1	1839.7	1839.7
65°	19497.7	7894.6	2105.4	2125.5	2076.4	1873.2	1788.3	1786.1	1757.1	1752.6	1750.4
67.5°	19182.9	6968.1	1906.7	2063.0	2000.5	1783.9	1690.1	1681.2	1643.2	1645.5	1645.5
70°	17606.6	5646.4	1632.1	1908.9	1906.7	1703.5	1587.4	1558.4	1507.0	1516.0	1524.9
72.5°	14650.6	4184.0	1263.7	1652.2	1757.1	1629.8	1469.1	1422.2	1357.4	1366.4	1364.1
75°	10580.5	2844.4	919.8	1257.0	1529.4	1542.8	1353.0	1272.6	1194.5	1207.9	1212.3
77.5°	5414.2	1612.0	676.5	866.3	1201.2	1402.1	1248.0	1140.9	1123.0	1248.0	1230.2
80°	1766.0	808.2	468.9	607.3	788.1	1147.6	1094.0	971.2	966.7	995.8	855.1
82.5°	526.9	341.6	301.4	399.6	435.4	879.7	944.4	734.5	631.8	665.3	687.7
85°	180.8	165.2	171.9	198.7	207.6	515.7	660.9	486.7	459.9	506.8	500.1
87.5°	42.4	58.0	49.1	44.7	44.7	125.0	256.8	203.2	281.3	187.5	180.8
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)