

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: P955554

Luminaire Tested: **GALN-SB8C-722-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955554
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-SB8C-722-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50954 lumens
Efficiency: N/A
Efficacy: 127.4 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): 399.8
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



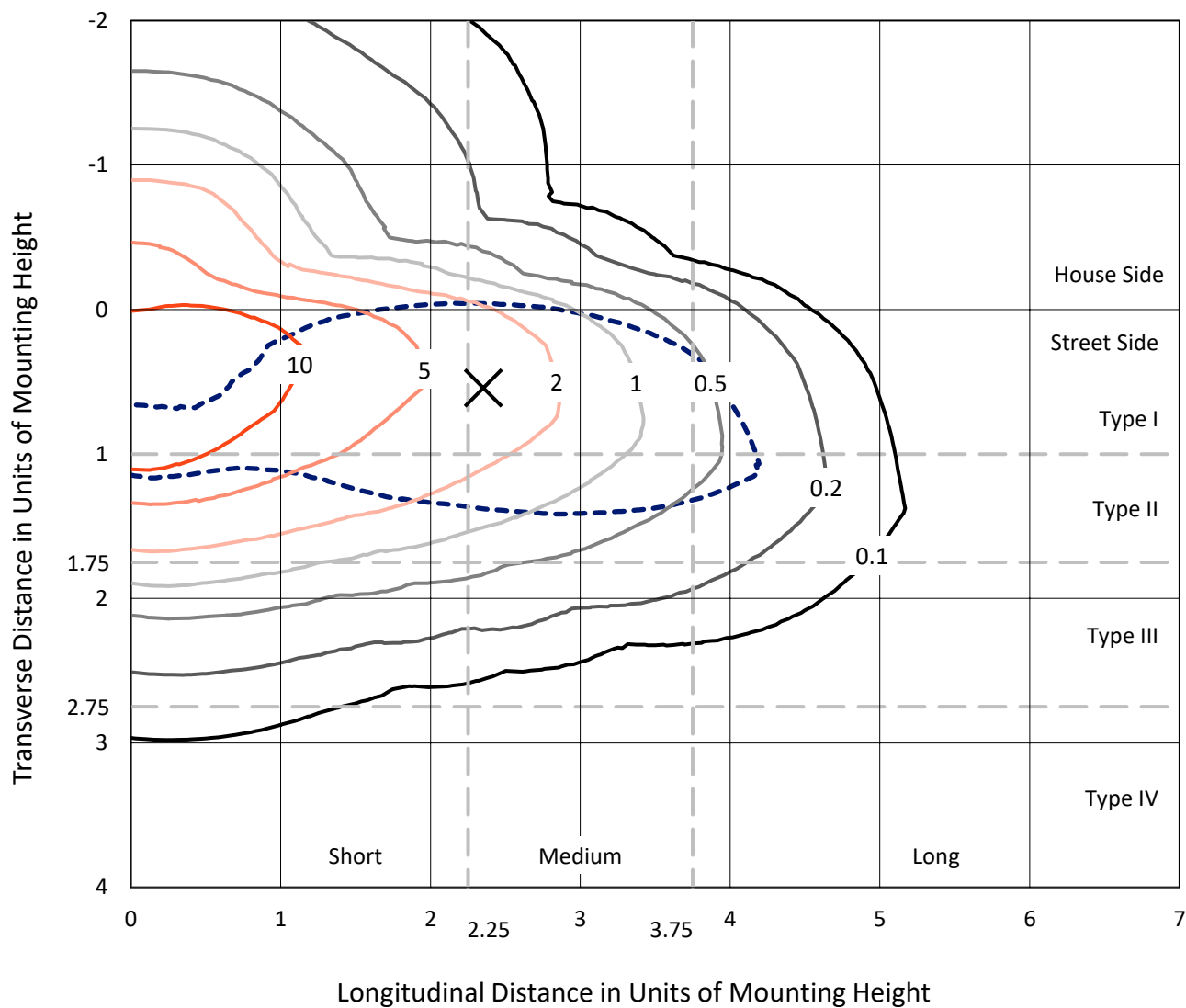
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Iso-Footcandle Lines of Horizontal Illumination

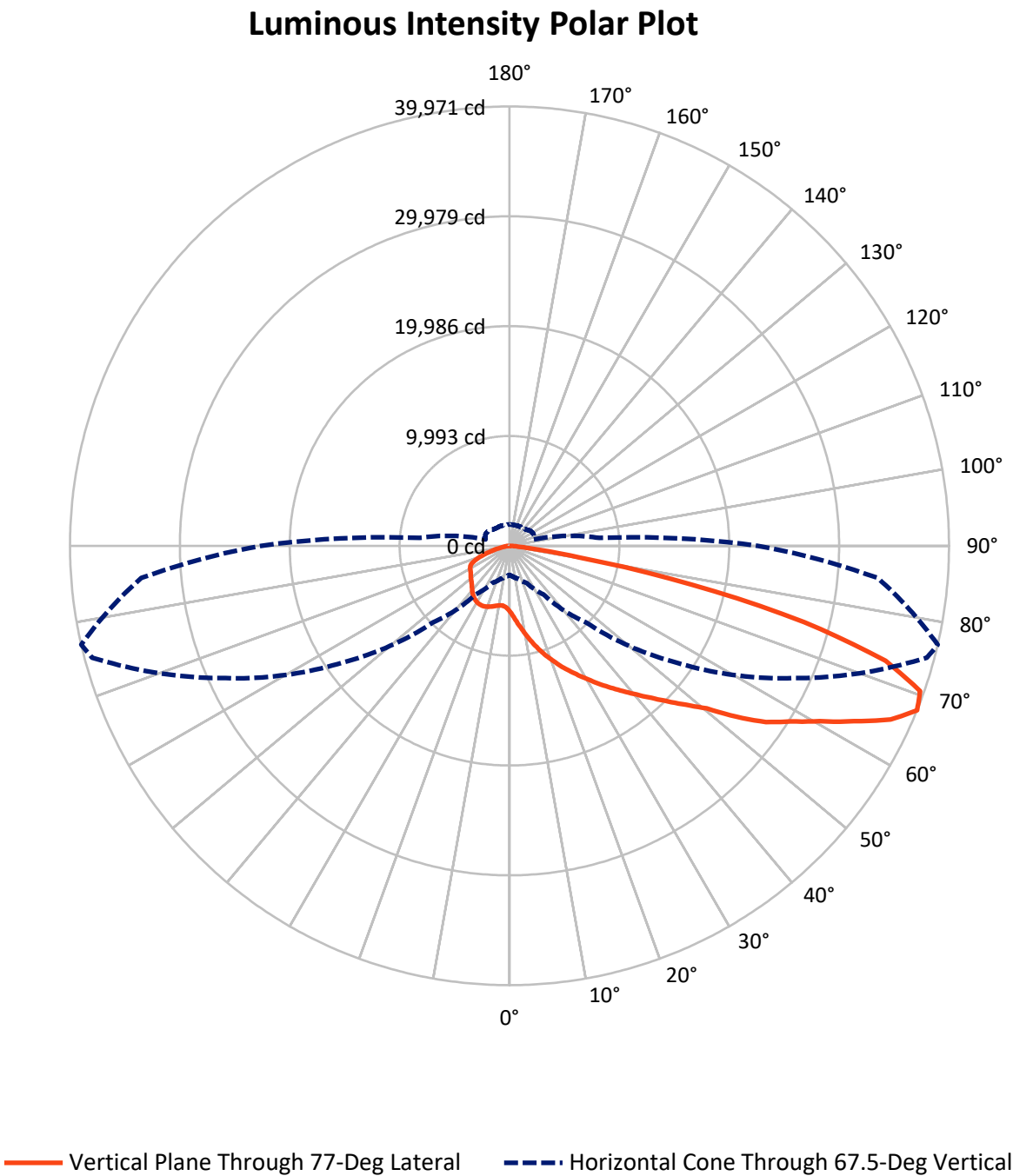
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.7 fc
 Type II - Medium - N/A

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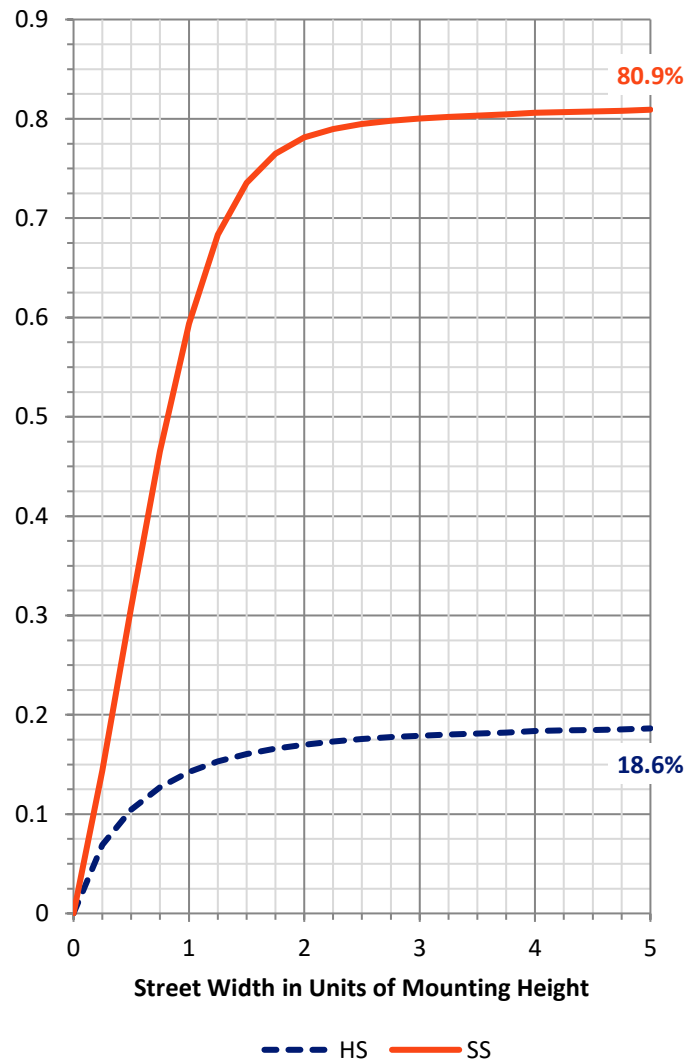
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9638.5	0.0	9638.5
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	41315.5	0.0	41315.5
	% Fixture	81.1	0.0	81.1
Total	Lumens	50954.0	0.0	50954.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	640.8	1.3
10°-20°	2302.2	4.5
20°-30°	4346.7	8.5
30°-40°	7002.5	13.7
40°-50°	9578.2	18.8
50°-60°	10804.3	21.2
60°-70°	10084.5	19.8
70°-80°	5528.0	10.8
80°-90°	666.8	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°	50954.0	100.0
0°-180°	50954.0	100.0

Coefficient of Utilization



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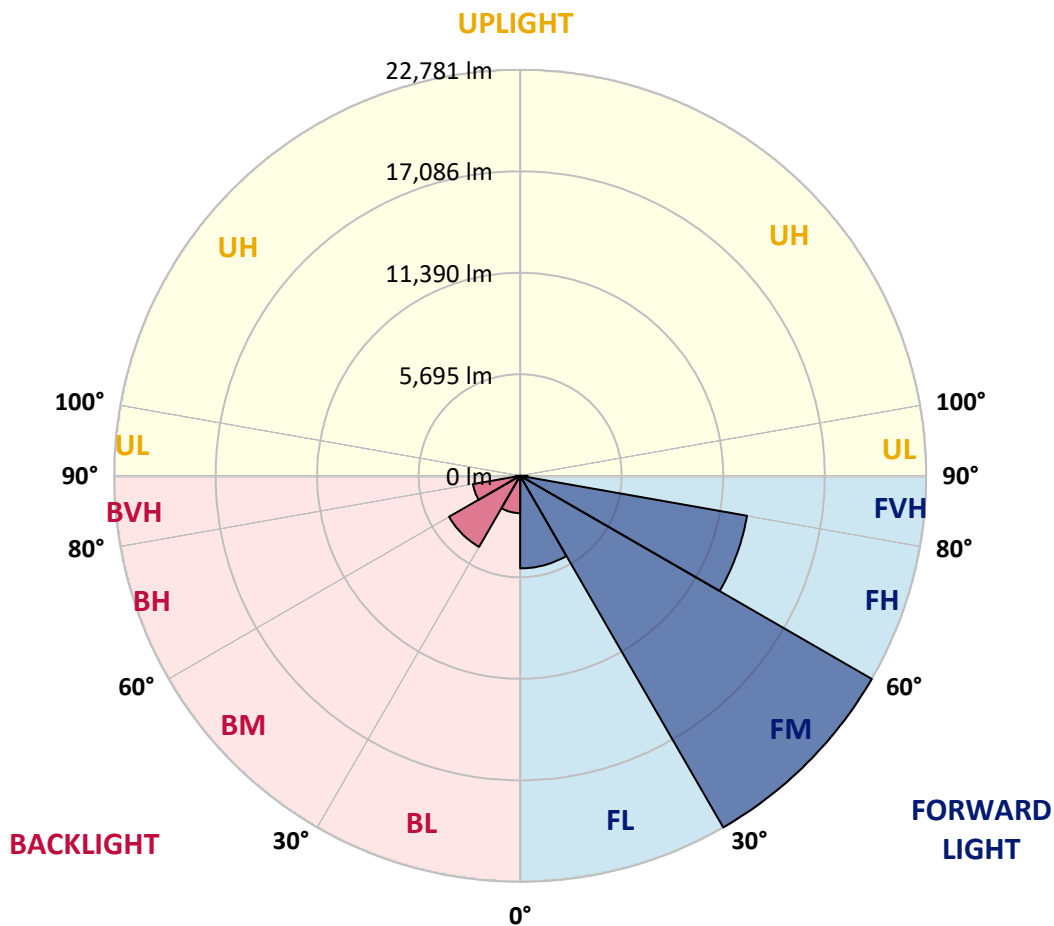
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5194.1	10.2			
FM	(30°-60°)	22781.0	44.7			
FH	(60°-80°)	12923.4	25.4			G5
FVH	(80°-90°)	417.0	0.8			G3/500
BL	(0°-30°)	2095.6	4.1	B3/2500		
BM	(30°-60°)	4604.0	9.0	B3/5000		
BH	(60°-80°)	2689.0	5.3	B4/5000		G4/5000
BVH	(80°-90°)	249.8	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°	5978.5	5978.5	5978.5	5978.5	5978.5	5978.5	5978.5	5978.5	5978.5	5978.5	5978.5
2.5°	7485.6	7538.2	7472.5	7472.5	7251.5	7135.8	6914.8	6746.5	6444.0	6391.4	6191.5
5°	8848.1	8913.8	8821.8	8782.3	8521.9	8282.6	7911.7	7546.1	7006.9	6951.7	6480.9
7.5°	9902.8	9986.9	9905.4	9863.3	9631.9	9363.6	8929.6	8419.3	7659.2	7551.4	6870.1
10°	10762.9	10776.0	10749.7	10765.5	10584.0	10363.1	9918.6	9324.1	8374.6	8227.3	7340.9
12.5°	11249.4	11309.9	11362.5	11457.2	11425.7	11288.9	10889.1	10178.9	9132.1	8942.7	7853.8
15°	11478.3	11583.5	11701.8	11920.2	12096.4	12130.6	11825.5	11096.9	9902.8	9673.9	8372.0
17.5°	11559.8	11659.8	11846.5	12162.1	12540.9	12796.0	12659.2	11988.5	10665.5	10402.5	8916.4
20°	11972.8	12001.7	12114.8	12414.6	12824.9	13248.4	13351.0	12846.0	11420.4	11123.2	9479.3
22.5°	12856.5	12798.6	12830.2	12967.0	13261.6	13671.9	13906.0	13603.5	12196.3	11854.4	10047.4
25°	14316.3	14147.9	13979.6	13821.8	13971.7	14203.2	14468.8	14361.0	13009.1	12575.1	10620.8
27.5°	16160.1	15954.9	15584.0	15065.9	14884.4	14965.9	15084.3	15063.3	13761.3	13322.1	11212.6
30°	17974.9	17735.6	17293.7	16544.1	16065.4	15849.7	15760.3	15699.8	14579.3	14111.1	11809.7
32.5°	19424.2	19234.8	18800.8	17961.8	17267.4	16899.2	16601.9	16386.3	15434.1	14965.9	12440.9
35°	20691.9	20515.7	20018.6	19103.3	18348.4	17956.5	17567.2	17106.9	16323.1	15849.7	13119.5
37.5°	21849.2	21673.0	20991.8	20039.6	19279.5	19008.6	18661.4	17880.2	17214.8	16767.6	13837.6
40°	22580.4	22541.0	21904.5	20826.1	20037.0	19902.9	19787.1	18777.1	18203.7	17788.2	14626.6
42.5°	22767.2	22854.0	22349.0	21462.6	20710.3	20602.5	20873.4	19792.4	19313.7	18916.5	15520.9
45°	22317.4	22567.3	22235.9	21633.5	21189.0	21131.2	21836.1	20902.3	20542.0	20179.0	16599.3
47.5°	21178.5	21602.0	21465.2	21381.0	21317.9	21567.8	22683.0	22080.7	21933.4	21617.8	17830.3
50°	18879.7	19681.9	19921.3	20452.6	21062.8	21907.1	23453.7	23366.9	23558.9	23240.6	19329.5
52.5°	14905.4	16010.1	17398.9	18729.8	20279.0	21794.0	24300.6	25213.3	26023.4	25849.8	21712.5
55°	12304.2	12801.3	13869.1	16310.0	18758.7	21317.9	24682.0	26704.6	28469.5	28314.3	23519.4
57.5°	10305.2	10749.7	11407.3	13445.7	16459.9	20236.9	24918.7	27614.7	30144.9	30129.2	25302.7
60°	8161.6	8632.4	9305.7	10749.7	13774.5	18369.4	24866.1	28651.0	32283.3	32414.8	27477.9
62.5°	5741.8	6259.9	7006.9	8353.6	11031.1	15949.6	23793.0	29400.6	34800.4	35158.1	30095.0
65°	3774.4	4116.3	4679.2	5841.7	8219.4	12838.1	21744.0	29497.9	37493.8	38098.7	32551.6
67.5°	2646.0	2777.5	3108.9	3740.2	5418.3	9844.9	18479.9	28490.5	39290.2	39971.4	33616.8
70°	2064.7	2130.5	2298.8	2551.3	3403.5	6620.3	14161.1	25870.8	38906.2	39616.4	32504.2
72.5°	1783.3	1846.4	1909.5	1941.1	2283.0	4087.4	9592.4	21630.9	35289.6	35771.0	28261.7
75°	1617.6	1633.4	1686.0	1675.4	1741.2	2651.3	5536.6	15760.3	27843.5	27677.8	20862.9
77.5°	1359.8	1380.9	1467.7	1454.5	1546.6	1812.2	2874.8	10171.1	18051.2	16925.5	11612.4
80°	1152.0	1162.6	1257.2	1241.5	1344.0	1312.5	1467.7	5184.2	7656.6	6486.1	3348.3
82.5°	399.8	494.5	960.0	989.0	1025.8	794.3	846.9	2114.7	2338.3	1791.2	702.3
85°	194.6	207.8	489.2	694.4	691.7	399.8	412.9	754.9	736.5	578.6	234.1
87.5°	31.6	39.5	57.9	270.9	215.7	105.2	142.0	147.3	152.6	131.5	52.6
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°	5978.5	5978.5	5978.5	5978.5	5978.5	5978.5	5978.5	5978.5	5978.5	5978.5	5978.5
2.5°	6044.2	5912.7	5636.6	5381.4	5181.5	4989.5	4881.7	4789.6	4737.0	4726.5	4726.5
5°	6207.3	5936.4	5434.0	5010.6	4734.4	4529.2	4421.4	4353.0	4318.8	4297.8	4295.1
7.5°	6441.4	6044.2	5328.8	4847.5	4558.2	4410.9	4355.6	4345.1	4342.5	4345.1	4353.0
10°	6764.9	6220.5	5318.3	4808.0	4566.1	4484.5	4481.9	4484.5	4495.0	4497.7	4500.3
12.5°	7114.7	6402.0	5360.4	4842.2	4666.0	4621.3	4613.4	4610.8	4618.7	4623.9	4626.6
15°	7496.1	6641.3	5431.4	4915.9	4776.5	4729.1	4721.2	4705.5	4702.8	4700.2	4697.6
17.5°	7888.0	6878.0	5510.3	4994.8	4847.5	4781.7	4752.8	4716.0	4687.0	4679.2	4687.0
20°	8285.2	7112.1	5565.5	5034.2	4852.8	4760.7	4702.8	4639.7	4589.7	4560.8	4571.3
22.5°	8708.7	7356.7	5599.7	5023.7	4805.4	4679.2	4574.0	4500.3	4424.0	4374.1	4376.7
25°	9121.6	7569.8	5597.1	4968.5	4713.4	4552.9	4418.8	4324.1	4218.9	4166.3	4166.3
27.5°	9518.8	7761.8	5531.4	4871.2	4581.8	4403.0	4242.5	4129.4	4026.9	3976.9	3974.3
30°	9929.1	7922.2	5428.8	4729.1	4426.7	4229.4	4053.2	3955.8	3863.8	3816.4	3813.8
32.5°	10336.8	8069.5	5284.1	4552.9	4247.8	4058.4	3884.8	3795.4	3740.2	3740.2	3742.8
35°	10768.1	8172.1	5092.1	4347.8	4058.4	3876.9	3740.2	3687.6	3682.3	3650.7	3642.9
37.5°	11223.1	8237.8	4858.0	4137.3	3871.7	3700.7	3658.6	3595.5	3542.9	3474.5	3464.0
40°	11701.8	8303.6	4576.6	3919.0	3674.4	3579.7	3561.3	3477.1	3327.2	3158.9	3135.2
42.5°	12283.1	8348.3	4284.6	3700.7	3466.6	3435.1	3461.4	3316.7	3077.4	2951.1	2953.7
45°	12956.5	8422.0	4016.3	3485.0	3253.6	3253.6	3364.0	3174.7	2977.4	2898.5	2911.7
47.5°	13829.7	8592.9	3766.5	3248.3	3056.3	3108.9	3148.4	3003.7	2893.2	2795.9	2793.3
50°	15092.2	9003.2	3508.7	3009.0	2906.4	3011.6	2956.4	2872.2	2743.3	2664.4	2656.5
52.5°	16659.8	9245.2	3279.9	2793.3	2777.5	2882.7	2803.8	2724.9	2627.6	2522.4	2501.3
55°	17727.7	9289.9	3087.9	2635.5	2690.7	2680.2	2651.3	2580.2	2527.6	2388.2	2390.9
57.5°	18921.8	9379.4	2930.1	2540.8	2635.5	2519.7	2509.2	2448.7	2380.3	2285.7	2254.1
60°	20350.0	9518.8	2793.3	2504.0	2588.1	2414.5	2361.9	2338.3	2269.9	2222.5	2235.7
62.5°	21907.1	9645.0	2653.9	2509.2	2532.9	2312.0	2233.1	2225.2	2183.1	2167.3	2167.3
65°	22969.7	9300.5	2480.3	2504.0	2446.1	2206.8	2106.8	2104.2	2070.0	2064.7	2062.1
67.5°	22598.8	8208.9	2246.2	2430.3	2356.7	2101.5	1991.1	1980.6	1935.8	1938.5	1938.5
70°	20741.9	6651.8	1922.7	2248.8	2246.2	2006.9	1870.1	1835.9	1775.4	1785.9	1796.4
72.5°	17259.5	4929.0	1488.7	1946.4	2070.0	1920.1	1730.7	1675.4	1599.2	1609.7	1607.1
75°	12464.6	3350.9	1083.7	1480.8	1801.7	1817.5	1593.9	1499.2	1407.2	1422.9	1428.2
77.5°	6378.3	1899.0	797.0	1020.5	1415.1	1651.8	1470.3	1344.0	1323.0	1470.3	1449.3
80°	2080.5	952.1	552.3	715.4	928.5	1351.9	1288.8	1144.1	1138.9	1173.1	1007.4
82.5°	620.7	402.4	355.1	470.8	512.9	1036.3	1112.6	865.3	744.4	783.8	810.1
85°	213.0	194.6	202.5	234.1	244.6	607.6	778.5	573.4	541.8	597.1	589.2
87.5°	50.0	68.4	57.9	52.6	52.6	147.3	302.5	239.3	331.4	220.9	213.0
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)