

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: P955953

Luminaire Tested: **GALN-SB8D-730-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955953
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-SB8D-730-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 83812 lumens
Efficiency: N/A
Efficacy: 143.3 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): 584.9
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



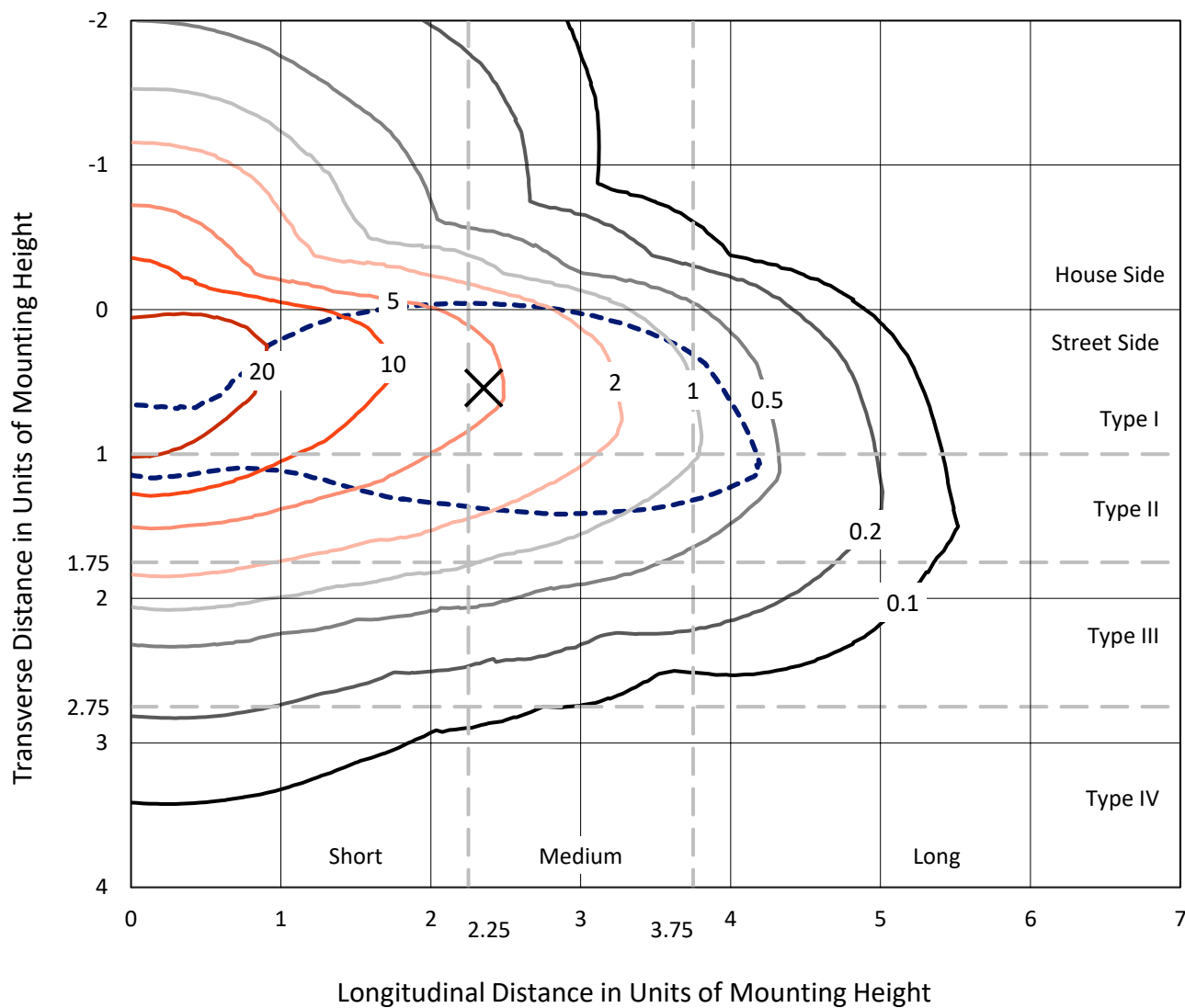
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Iso-Footcandle Lines of Horizontal Illumination

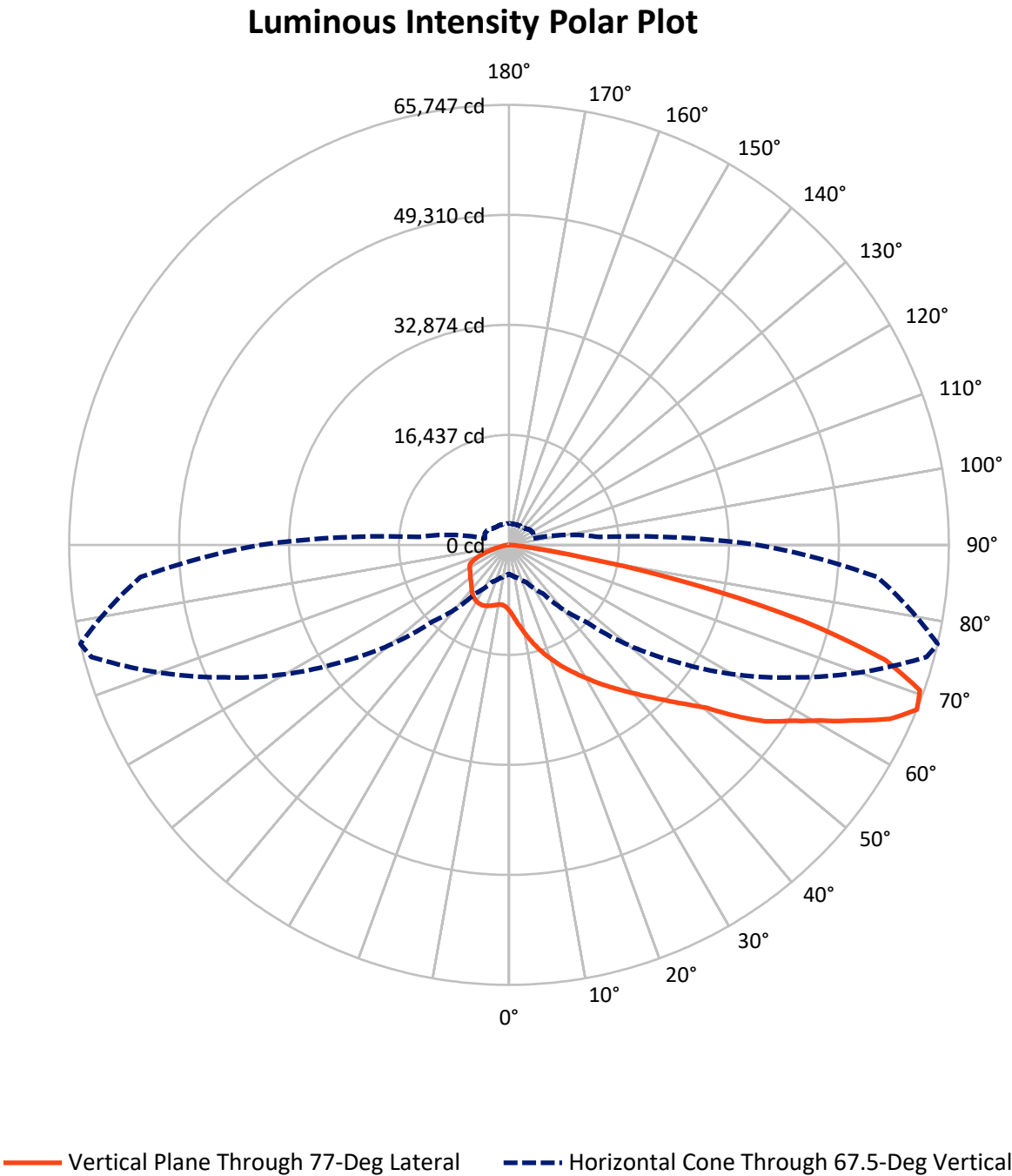
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 30.7 fc
 Type II - Medium - N/A

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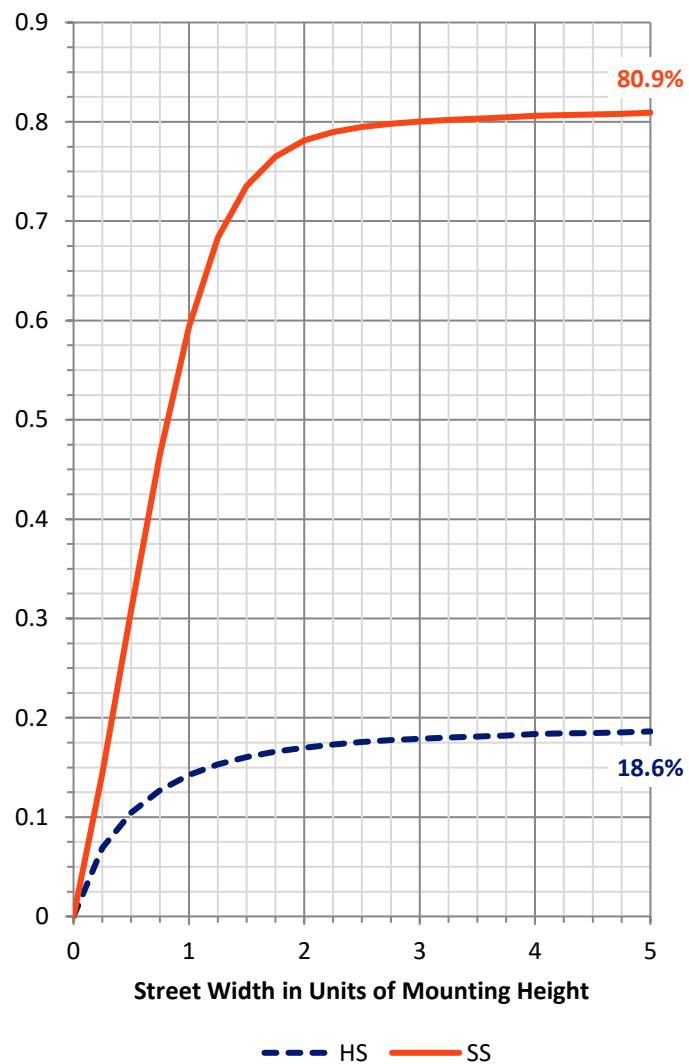
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15853.9	0.0	15853.9
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	67958.1	0.0	67958.1
	% Fixture	81.1	0.0	81.1
Total	Lumens	83812.0	0.0	83812.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1054.1	1.3
10°-20°	3786.8	4.5
20°-30°	7149.8	8.5
30°-40°	11518.2	13.7
40°-50°	15754.8	18.8
50°-60°	17771.5	21.2
60°-70°	16587.5	19.8
70°-80°	9092.7	10.8
80°-90°	1096.8	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°	83812.0	100.0
0°-180°	83812.0	100.0

Coefficient of Utilization



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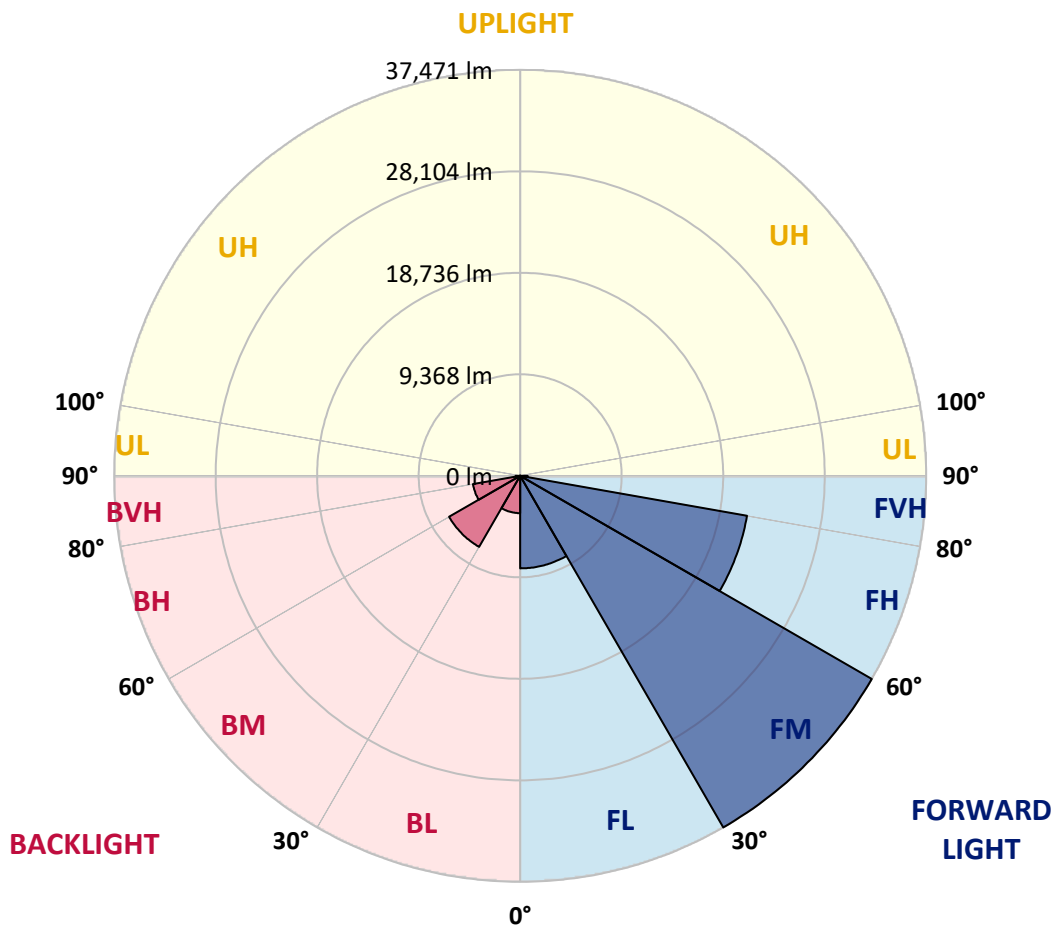
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	8543.6	10.2			
FM	(30°-60°)	37471.4	44.7			
FH	(60°-80°)	21257.2	25.4			G5
FVH	(80°-90°)	685.9	0.8			G4/750
BL	(0°-30°)	3447.0	4.1	B4/5000		
BM	(30°-60°)	7573.0	9.0	B4/8500		
BH	(60°-80°)	4423.0	5.3	B4/5000		G4/5000
BVH	(80°-90°)	410.9	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°	9833.8	9833.8	9833.8	9833.8	9833.8	9833.8	9833.8	9833.8	9833.8	9833.8	9833.8
2.5°	12312.7	12399.3	12291.1	12291.1	11927.7	11737.3	11373.9	11097.0	10599.5	10513.0	10184.2
5°	14553.8	14661.9	14510.5	14445.6	14017.3	13623.6	13013.6	12412.2	11525.3	11434.5	10660.1
7.5°	16288.6	16427.1	16293.0	16223.7	15843.0	15401.7	14687.9	13848.6	12598.3	12420.9	11300.4
10°	17703.3	17725.0	17681.7	17707.7	17409.2	17045.7	16314.6	15336.8	13775.0	13532.8	12074.8
12.5°	18503.7	18603.2	18689.8	18845.5	18793.6	18568.6	17911.0	16742.9	15021.0	14709.5	12918.4
15°	18880.1	19053.2	19247.8	19606.9	19896.8	19953.0	19451.2	18252.8	16288.6	15912.2	13770.7
17.5°	19014.2	19178.6	19485.8	20005.0	20627.9	21047.6	20822.6	19719.4	17543.3	17110.6	14666.3
20°	19693.5	19741.1	19927.1	20420.3	21095.2	21791.7	21960.5	21129.8	18784.9	18296.1	15592.1
22.5°	21147.1	21051.9	21103.8	21328.8	21813.4	22488.3	22873.3	22375.8	20061.2	19498.8	16526.6
25°	23548.2	23271.3	22994.5	22734.9	22981.5	23362.2	23799.1	23621.8	21398.0	20684.2	17469.7
27.5°	26581.0	26243.5	25633.5	24781.2	24482.7	24616.8	24811.5	24776.9	22635.4	21912.9	18443.2
30°	29566.1	29172.5	28445.6	27212.6	26425.2	26070.5	25923.4	25823.9	23980.9	23210.8	19425.2
32.5°	31950.0	31638.5	30924.6	29544.5	28402.4	27796.7	27307.8	26953.0	25386.9	24616.8	20463.5
35°	34035.2	33745.4	32927.7	31422.1	30180.5	29535.9	28895.6	28138.5	26849.2	26070.5	21579.7
37.5°	35938.8	35649.0	34528.5	32962.3	31712.0	31266.4	30695.3	29410.4	28315.8	27580.4	22760.8
40°	37141.6	37076.7	36029.7	34255.9	32958.0	32737.4	32547.0	30885.7	29942.5	29259.0	24058.7
42.5°	37448.7	37591.5	36760.8	35302.9	34065.5	33888.2	34333.8	32555.6	31768.3	31115.0	25529.7
45°	36708.9	37119.9	36574.8	35584.1	34852.9	34757.7	35917.2	34381.4	33788.6	33191.6	27303.5
47.5°	34835.6	35532.2	35307.2	35168.7	35064.9	35475.9	37310.3	36319.6	36077.3	35558.1	29328.2
50°	31054.4	32373.9	32767.6	33641.6	34645.3	36034.0	38577.9	38435.1	38751.0	38227.5	31794.2
52.5°	24517.3	26334.4	28618.7	30807.8	33356.0	35848.0	39971.0	41472.2	42804.7	42519.2	35713.9
55°	20238.6	21056.3	22812.7	26827.6	30855.4	35064.9	40598.3	43925.2	46828.2	46573.0	38686.1
57.5°	16950.6	17681.7	18763.3	22116.2	27074.2	33286.8	40987.7	45422.2	49584.1	49558.1	41619.3
60°	13424.6	14199.0	15306.6	17681.7	22657.0	30215.1	40901.1	47126.7	53101.4	53317.7	45197.2
62.5°	9444.4	10296.7	11525.3	13740.4	18144.6	26234.9	39136.0	48359.7	57241.7	57830.1	49501.9
65°	6208.3	6770.7	7696.5	9608.8	13519.8	21116.8	35765.8	48519.8	61671.9	62666.9	53542.7
67.5°	4352.3	4568.6	5113.7	6152.0	8912.2	16193.5	30396.8	46862.8	64626.7	65747.3	55294.8
70°	3396.2	3504.3	3781.2	4196.5	5598.3	10889.4	23293.0	42553.8	63995.1	65163.2	53464.8
72.5°	2933.3	3037.1	3140.9	3192.8	3755.3	6723.1	15778.1	35579.7	58046.4	58838.1	46486.4
75°	2660.7	2686.7	2773.2	2755.9	2864.0	4360.9	9106.9	25923.4	45798.5	45526.0	34316.5
77.5°	2236.7	2271.3	2414.1	2392.5	2543.9	2980.8	4728.7	16729.9	29691.6	27839.9	19100.8
80°	1894.9	1912.2	2068.0	2042.0	2210.8	2158.8	2414.1	8527.2	12594.0	10668.7	5507.4
82.5°	657.6	813.4	1579.1	1626.7	1687.3	1306.6	1393.1	3478.4	3846.1	2946.2	1155.1
85°	320.1	341.8	804.7	1142.2	1137.8	657.6	679.2	1241.7	1211.4	951.8	385.0
87.5°	51.9	64.9	95.2	445.6	354.8	173.1	233.6	242.3	250.9	216.3	86.5
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°	9833.8	9833.8	9833.8	9833.8	9833.8	9833.8	9833.8	9833.8	9833.8	9833.8	9833.8
2.5°	9941.9	9725.6	9271.3	8851.7	8522.9	8207.1	8029.7	7878.2	7791.7	7774.4	7774.4
5°	10210.1	9764.5	8938.2	8241.7	7787.4	7449.9	7272.6	7160.1	7103.8	7069.2	7064.9
7.5°	10595.2	9941.9	8765.1	7973.4	7497.5	7255.3	7164.4	7147.1	7142.8	7147.1	7160.1
10°	11127.3	10231.8	8747.8	7908.5	7510.5	7376.4	7372.1	7376.4	7393.7	7398.0	7402.4
12.5°	11702.7	10530.3	8817.1	7964.8	7674.9	7601.4	7588.4	7584.1	7597.0	7605.7	7610.0
15°	12330.0	10924.0	8933.9	8085.9	7856.6	7778.7	7765.8	7739.8	7735.5	7731.2	7726.8
17.5°	12974.7	11313.4	9063.7	8215.7	7973.4	7865.3	7817.7	7757.1	7709.5	7696.5	7709.5
20°	13627.9	11698.4	9154.5	8280.6	7982.1	7830.7	7735.5	7631.6	7549.4	7501.9	7519.2
22.5°	14324.5	12100.7	9210.8	8263.3	7904.2	7696.5	7523.5	7402.4	7276.9	7194.7	7199.0
25°	15003.7	12451.2	9206.4	8172.4	7752.8	7488.9	7268.2	7112.5	6939.4	6852.9	6852.9
27.5°	15657.0	12767.0	9098.3	8012.4	7536.5	7242.3	6978.4	6792.3	6623.6	6541.4	6537.1
30°	16331.9	13030.9	8929.5	7778.7	7281.2	6956.7	6666.9	6506.8	6355.4	6277.5	6273.2
32.5°	17002.5	13273.2	8691.6	7488.9	6987.0	6675.5	6390.0	6242.9	6152.0	6152.0	6156.4
35°	17712.0	13441.9	8375.8	7151.4	6675.5	6377.0	6152.0	6065.5	6056.9	6004.9	5992.0
37.5°	18460.5	13550.1	7990.7	6805.3	6368.4	6087.1	6017.9	5914.1	5827.6	5715.1	5697.8
40°	19247.8	13658.2	7527.8	6446.2	6043.9	5888.1	5857.9	5719.4	5472.8	5195.9	5157.0
42.5°	20204.0	13731.8	7047.6	6087.1	5702.1	5650.2	5693.5	5455.5	5061.8	4854.1	4858.5
45°	21311.5	13852.9	6606.3	5732.4	5351.7	5351.7	5533.4	5221.9	4897.4	4767.6	4789.2
47.5°	22747.9	14134.1	6195.3	5343.0	5027.2	5113.7	5178.6	4940.7	4759.0	4598.9	4594.6
50°	24824.5	14809.0	5771.3	4949.3	4780.6	4953.6	4862.8	4724.4	4512.4	4382.6	4369.6
52.5°	27403.0	15207.1	5394.9	4594.6	4568.6	4741.7	4611.9	4482.1	4322.0	4149.0	4114.3
55°	29159.5	15280.6	5079.1	4335.0	4425.8	4408.5	4360.9	4244.1	4157.6	3928.3	3932.6
57.5°	31123.6	15427.7	4819.5	4179.2	4335.0	4144.6	4127.3	4027.8	3915.3	3759.6	3707.7
60°	33472.8	15657.0	4594.6	4118.7	4257.1	3971.6	3885.0	3846.1	3733.6	3655.8	3677.4
62.5°	36034.0	15864.7	4365.3	4127.3	4166.3	3802.8	3673.1	3660.1	3590.9	3564.9	3564.9
65°	37781.9	15297.9	4079.7	4118.7	4023.5	3629.8	3465.4	3461.1	3404.8	3396.2	3391.8
67.5°	37171.8	13502.5	3694.7	3997.5	3876.4	3456.7	3275.0	3257.7	3184.2	3188.5	3188.5
70°	34117.4	10941.3	3162.5	3699.0	3694.7	3301.0	3076.0	3019.8	2920.3	2937.6	2954.9
72.5°	28389.4	8107.5	2448.7	3201.5	3404.8	3158.2	2846.7	2755.9	2630.4	2647.7	2643.4
75°	20502.5	5511.7	1782.4	2435.7	2963.5	2989.5	2621.8	2466.0	2314.6	2340.5	2349.2
77.5°	10491.4	3123.6	1310.9	1678.6	2327.6	2716.9	2418.4	2210.8	2176.1	2418.4	2383.8
80°	3422.1	1566.1	908.5	1176.8	1527.2	2223.7	2119.9	1882.0	1873.3	1929.5	1657.0
82.5°	1021.0	661.9	584.1	774.4	843.6	1704.6	1830.0	1423.4	1224.4	1289.2	1332.5
85°	350.4	320.1	333.1	385.0	402.3	999.4	1280.6	943.1	891.2	982.1	969.1
87.5°	82.2	112.5	95.2	86.5	86.5	242.3	497.5	393.7	545.1	363.4	350.4
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)