

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: P954483

Luminaire Tested: **GALN-SB7D-722-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954483
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-SB7D-722-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 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: 60892 lumens
Efficiency: N/A
Efficacy: 118.7 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): 512.8
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



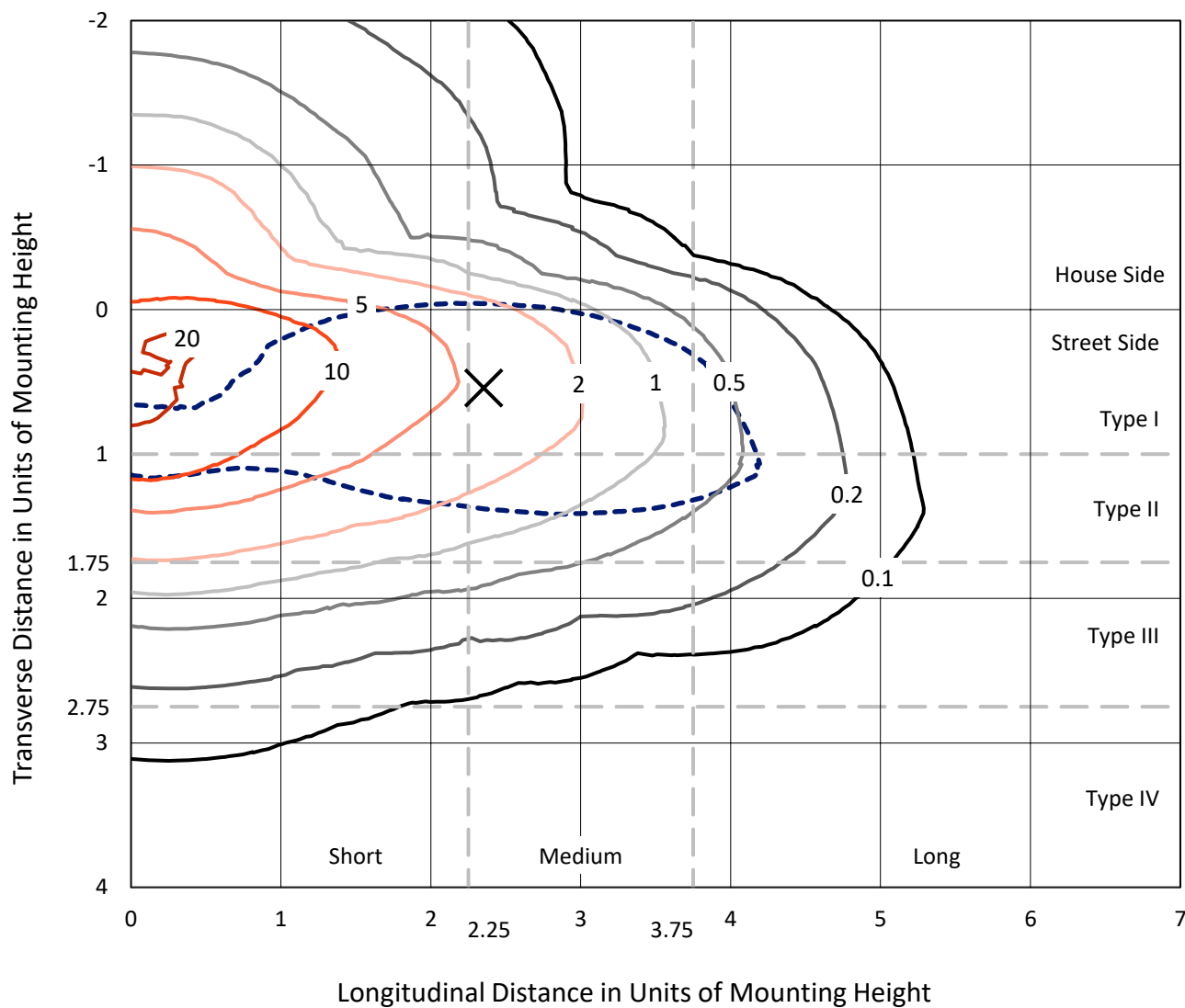
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Iso-Footcandle Lines of Horizontal Illumination

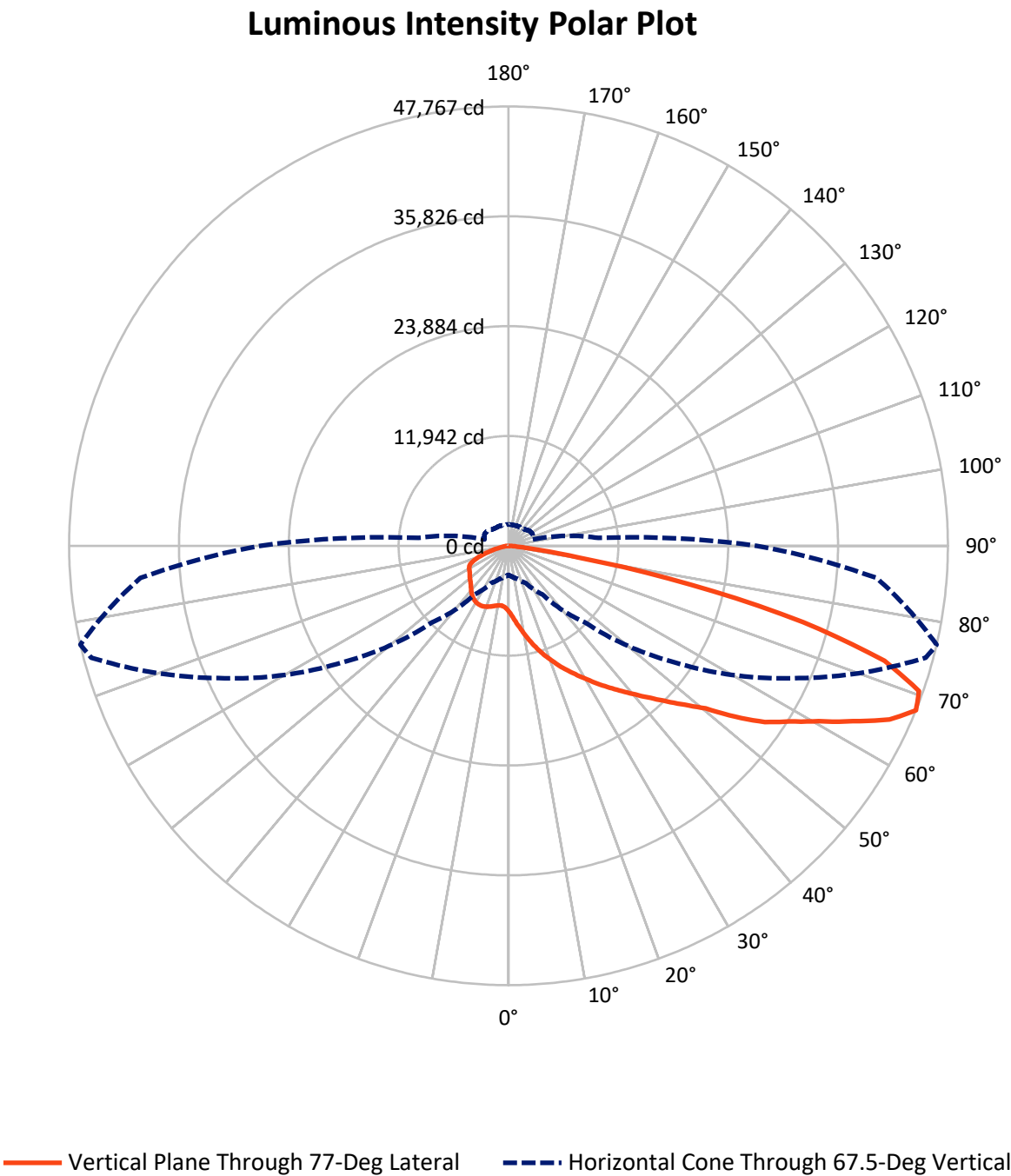
× Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.3 fc
Type II - Medium - N/A

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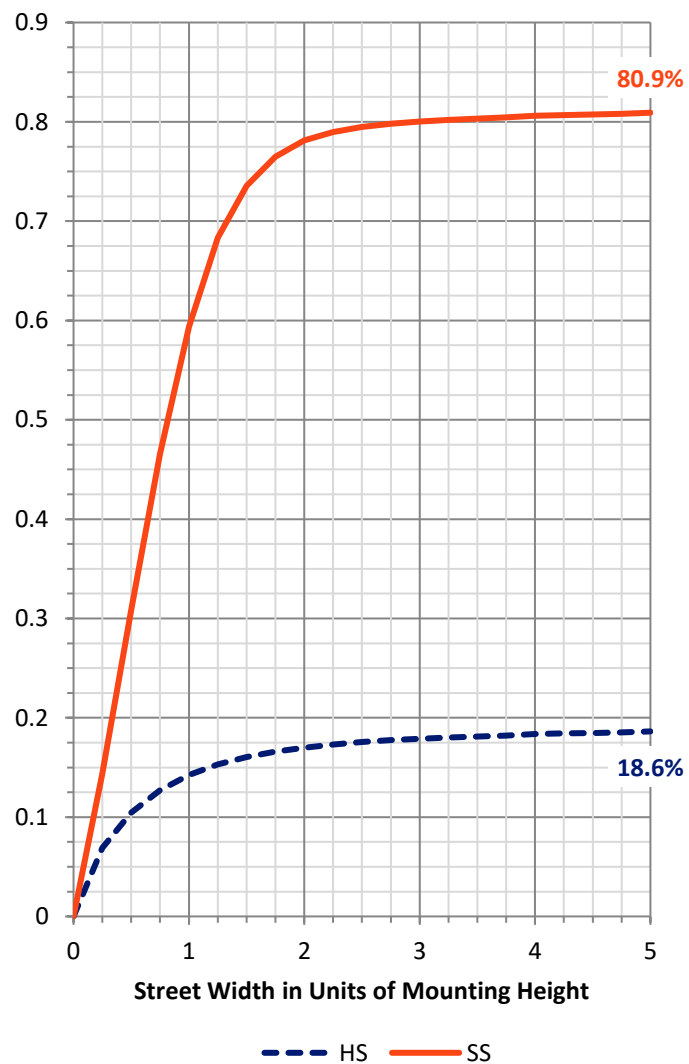
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11518.3	0.0	11518.3
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	49373.7	0.0	49373.7
	% Fixture	81.1	0.0	81.1
Total	Lumens	60892.0	0.0	60892.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	765.8	1.3
10°-20°	2751.2	4.5
20°-30°	5194.5	8.5
30°-40°	8368.3	13.7
40°-50°	11446.3	18.8
50°-60°	12911.5	21.2
60°-70°	12051.3	19.8
70°-80°	6606.1	10.8
80°-90°	796.9	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°	60892.0	100.0
0°-180°	60892.0	100.0

Coefficient of Utilization



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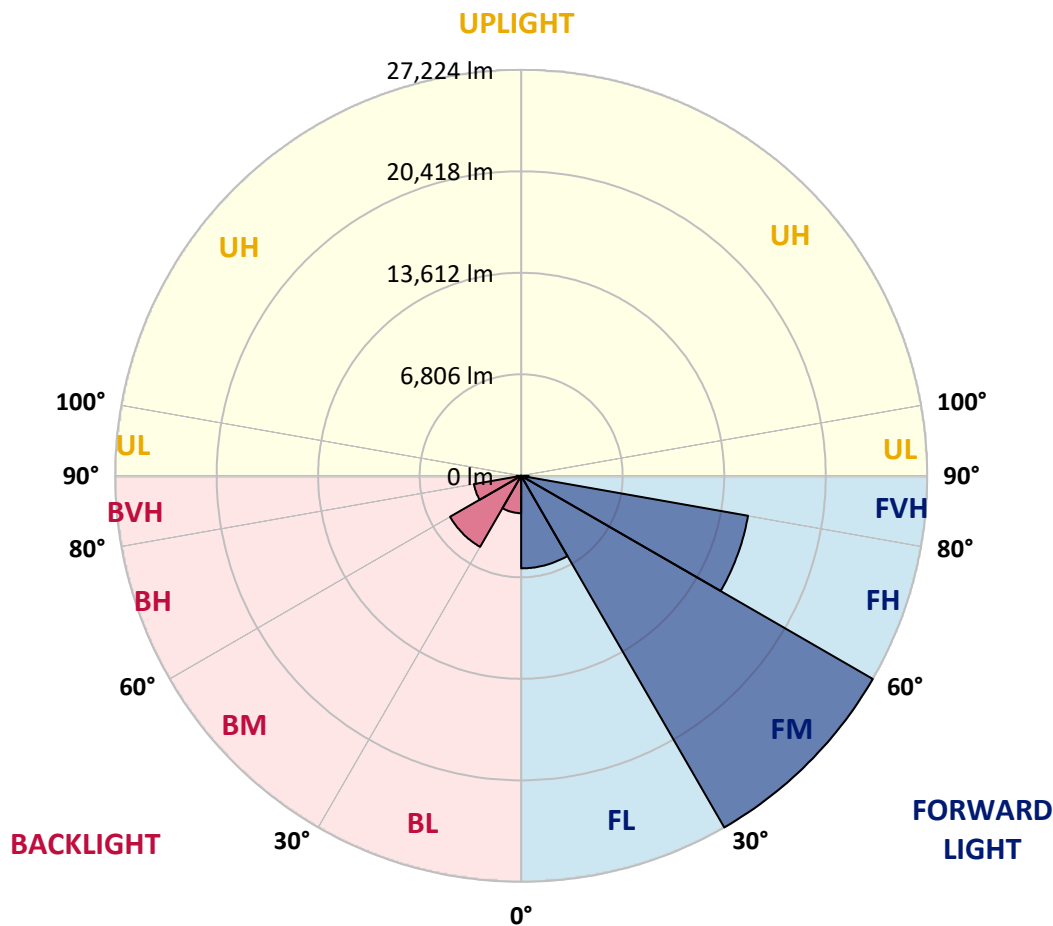
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6207.2	10.2			
FM	(30°-60°)	27224.1	44.7			
FH	(60°-80°)	15444.0	25.4			G5
FVH	(80°-90°)	498.3	0.8			G3/500
BL	(0°-30°)	2504.4	4.1	B4/5000		
BM	(30°-60°)	5502.0	9.0	B4/8500		
BH	(60°-80°)	3213.4	5.3	B4/5000		G4/5000
BVH	(80°-90°)	298.5	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°	7144.5	7144.5	7144.5	7144.5	7144.5	7144.5	7144.5	7144.5	7144.5	7144.5	7144.5
2.5°	8945.6	9008.4	8929.9	8929.9	8665.8	8527.5	8263.5	8062.3	7700.9	7638.0	7399.1
5°	10573.8	10652.3	10542.3	10495.2	10184.0	9898.0	9454.8	9017.9	8373.5	8307.5	7744.9
7.5°	11834.2	11934.8	11837.3	11787.0	11510.4	11189.8	10671.2	10061.4	9153.0	9024.2	8210.1
10°	12862.0	12877.7	12846.3	12865.2	12648.3	12384.3	11853.1	11142.7	10008.0	9832.0	8772.7
12.5°	13443.5	13515.8	13578.7	13691.8	13654.1	13490.7	13012.9	12164.2	10913.2	10686.9	9385.6
15°	13717.0	13842.7	13984.2	14245.0	14455.6	14496.5	14131.9	13261.2	11834.2	11560.7	10004.8
17.5°	13814.4	13933.9	14157.0	14534.2	14986.8	15291.7	15128.3	14326.8	12745.7	12431.4	10655.5
20°	14307.9	14342.5	14477.6	14836.0	15326.3	15832.4	15954.9	15351.5	13647.8	13292.6	11328.1
22.5°	15364.0	15294.9	15332.6	15496.0	15848.1	16338.4	16618.2	16256.7	14575.1	14166.5	12007.1
25°	17108.5	16907.3	16706.2	16517.6	16696.7	16973.4	17290.8	17161.9	15546.3	15027.7	12692.3
27.5°	19311.9	19066.7	18623.5	18004.3	17787.4	17884.9	18026.3	18001.2	16445.3	15920.4	13399.5
30°	21480.7	21194.7	20666.6	19770.8	19198.7	18941.0	18834.1	18761.8	17422.8	16863.3	14113.0
32.5°	23212.6	22986.3	22467.7	21465.0	20635.2	20195.1	19840.0	19582.2	18444.4	17884.9	14867.4
35°	24727.7	24517.1	23923.0	22829.2	21927.1	21458.7	20993.5	20443.5	19506.8	18941.0	15678.3
37.5°	26110.7	25900.1	25086.0	23948.1	23039.8	22716.0	22301.1	21367.6	20572.3	20038.0	16536.4
40°	26984.5	26937.3	26176.7	24888.0	23945.0	23784.7	23646.4	22439.4	21754.2	21257.6	17479.4
42.5°	27207.7	27311.4	26707.9	25648.6	24749.7	24620.8	24944.5	23652.7	23080.6	22606.0	18548.1
45°	26670.2	26968.8	26572.7	25852.9	25321.7	25252.6	26095.0	24979.1	24548.5	24114.7	19836.8
47.5°	25309.2	25815.2	25651.8	25551.2	25475.7	25774.3	27107.1	26387.3	26211.3	25834.1	21307.8
50°	22562.0	23520.7	23806.7	24441.6	25170.9	26179.8	28028.0	27924.3	28153.8	27773.4	23099.5
52.5°	17812.6	19132.7	20792.4	22382.8	24234.2	26044.7	29040.1	30130.8	31099.0	30891.5	25947.2
55°	14704.0	15298.0	16574.2	19491.1	22417.4	25475.7	29495.9	31913.0	34022.1	33836.7	28106.6
57.5°	12315.1	12846.3	13632.1	16068.1	19670.2	24183.9	29778.8	33000.6	36024.4	36005.5	30237.7
60°	9753.4	10316.0	11120.7	12846.3	16461.0	21952.2	29715.9	34239.0	38579.8	38737.0	32837.1
62.5°	6861.6	7480.8	8373.5	9982.8	13182.6	19060.4	28433.5	35134.8	41587.9	42015.3	35964.6
65°	4510.5	4919.1	5591.8	6981.1	9822.5	15342.0	25984.9	35251.1	44806.5	45529.4	38900.4
67.5°	3162.1	3319.2	3715.3	4469.6	6475.0	11765.0	22084.2	34047.3	46953.3	47767.4	40173.4
70°	2467.4	2546.0	2747.2	3048.9	4067.3	7911.5	16923.1	30916.6	46494.4	47343.1	38843.8
72.5°	2131.1	2206.5	2282.0	2319.7	2728.3	4884.6	11463.3	25849.8	42172.5	42747.7	33773.8
75°	1933.1	1951.9	2014.8	2002.2	2080.8	3168.4	6616.5	18834.1	33274.1	33076.0	24932.0
77.5°	1625.0	1650.2	1753.9	1738.2	1848.2	2165.7	3435.5	12154.8	21571.9	20226.6	13877.3
80°	1376.7	1389.3	1502.5	1483.6	1606.2	1568.5	1753.9	6195.3	9149.9	7751.2	4001.3
82.5°	477.8	590.9	1147.3	1181.8	1225.9	949.3	1012.1	2527.1	2794.3	2140.5	839.2
85°	232.6	248.3	584.6	829.8	826.7	477.8	493.5	902.1	880.1	691.5	279.7
87.5°	37.7	47.1	69.2	323.8	257.7	125.7	169.7	176.0	182.3	157.2	62.9
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°	7144.5	7144.5	7144.5	7144.5	7144.5	7144.5	7144.5	7144.5	7144.5	7144.5	7144.5
2.5°	7223.1	7065.9	6735.9	6431.0	6192.1	5962.7	5833.8	5723.8	5660.9	5648.4	5648.4
5°	7418.0	7094.2	6493.9	5987.8	5657.8	5412.6	5283.7	5202.0	5161.2	5136.0	5132.9
7.5°	7697.7	7223.1	6368.1	5792.9	5447.2	5271.2	5205.2	5192.6	5189.4	5192.6	5202.0
10°	8084.3	7433.7	6355.6	5745.8	5456.6	5359.2	5356.0	5359.2	5371.8	5374.9	5378.0
12.5°	8502.4	7650.6	6405.9	5786.7	5576.1	5522.6	5513.2	5510.1	5519.5	5525.8	5528.9
15°	8958.2	7936.6	6490.7	5874.7	5708.1	5651.5	5642.1	5623.2	5620.1	5616.9	5613.8
17.5°	9426.5	8219.5	6585.0	5969.0	5792.9	5714.4	5679.8	5635.8	5601.2	5591.8	5601.2
20°	9901.1	8499.2	6651.0	6016.1	5799.2	5689.2	5620.1	5544.6	5484.9	5450.3	5462.9
22.5°	10407.2	8791.6	6691.9	6003.5	5742.7	5591.8	5466.0	5378.0	5286.9	5227.2	5230.3
25°	10900.7	9046.2	6688.8	5937.5	5632.6	5440.9	5280.6	5167.4	5041.7	4978.8	4978.8
27.5°	11375.3	9275.6	6610.2	5821.2	5475.5	5261.7	5070.0	4934.8	4812.3	4752.5	4749.4
30°	11865.6	9467.4	6487.6	5651.5	5290.0	5054.3	4843.7	4727.4	4617.4	4560.8	4557.7
32.5°	12352.8	9643.4	6314.7	5440.9	5076.3	4850.0	4642.5	4535.7	4469.6	4469.6	4472.8
35°	12868.3	9766.0	6085.3	5195.7	4850.0	4633.1	4469.6	4406.8	4400.5	4362.8	4353.4
37.5°	13412.1	9844.5	5805.5	4944.3	4626.8	4422.5	4372.2	4296.8	4233.9	4152.2	4139.6
40°	13984.2	9923.1	5469.2	4683.4	4391.1	4277.9	4255.9	4155.3	3976.2	3775.0	3746.7
42.5°	14678.8	9976.6	5120.3	4422.5	4142.8	4105.0	4136.5	3963.6	3677.6	3526.7	3529.8
45°	15483.5	10064.6	4799.7	4164.8	3888.2	3888.2	4020.2	3793.9	3558.1	3463.8	3479.5
47.5°	16527.0	10268.9	4501.1	3881.9	3652.4	3715.3	3762.4	3589.5	3457.5	3341.2	3338.1
50°	18035.8	10759.2	4193.0	3595.8	3473.3	3599.0	3533.0	3432.4	3278.4	3184.1	3174.6
52.5°	19909.1	11048.4	3919.6	3338.1	3319.2	3445.0	3350.7	3256.4	3140.1	3014.3	2989.2
55°	21185.3	11101.8	3690.1	3149.5	3215.5	3202.9	3168.4	3083.5	3020.6	2854.0	2857.2
57.5°	22612.3	11208.7	3501.5	3036.3	3149.5	3011.2	2998.6	2926.3	2844.6	2731.5	2693.7
60°	24319.0	11375.3	3338.1	2992.3	3092.9	2885.5	2822.6	2794.3	2712.6	2656.0	2671.7
62.5°	26179.8	11526.2	3171.5	2998.6	3026.9	2762.9	2668.6	2659.2	2608.9	2590.0	2590.0
65°	27449.7	11114.4	2964.0	2992.3	2923.2	2637.2	2517.7	2514.6	2473.7	2467.4	2464.3
67.5°	27006.5	9810.0	2684.3	2904.3	2816.3	2511.4	2379.4	2366.8	2313.4	2316.5	2316.5
70°	24787.4	7949.2	2297.7	2687.4	2684.3	2398.3	2234.8	2194.0	2121.7	2134.2	2146.8
72.5°	20625.8	5890.4	1779.1	2326.0	2473.7	2294.5	2068.2	2002.2	1911.1	1923.6	1920.5
75°	14895.7	4004.5	1295.0	1769.6	2153.1	2172.0	1904.8	1791.6	1681.6	1700.5	1706.8
77.5°	7622.3	2269.4	952.4	1219.6	1691.0	1973.9	1757.1	1606.2	1581.0	1757.1	1731.9
80°	2486.3	1137.8	660.1	855.0	1109.6	1615.6	1540.2	1367.3	1361.0	1401.9	1203.9
82.5°	741.8	480.9	424.3	562.6	612.9	1238.4	1329.6	1034.1	889.5	936.7	968.1
85°	254.6	232.6	242.0	279.7	292.3	726.1	930.4	685.2	647.5	713.5	704.1
87.5°	59.7	81.7	69.2	62.9	62.9	176.0	361.5	286.0	396.0	264.0	254.6
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)