

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: P955932

Luminaire Tested: **GALN-SB8D-727-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955932
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-727-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 77738 lumens
Efficiency: N/A
Efficacy: 132.9 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

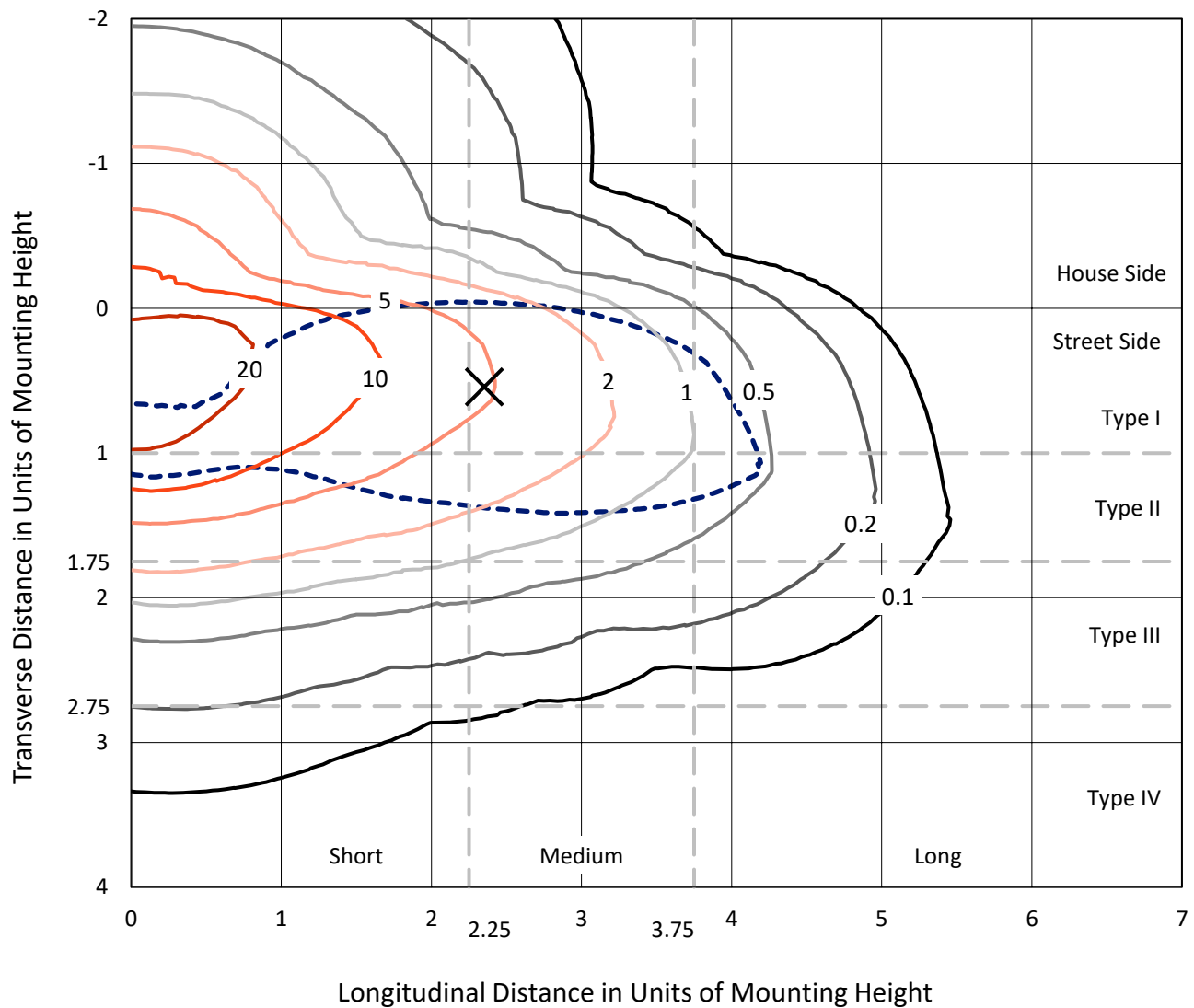


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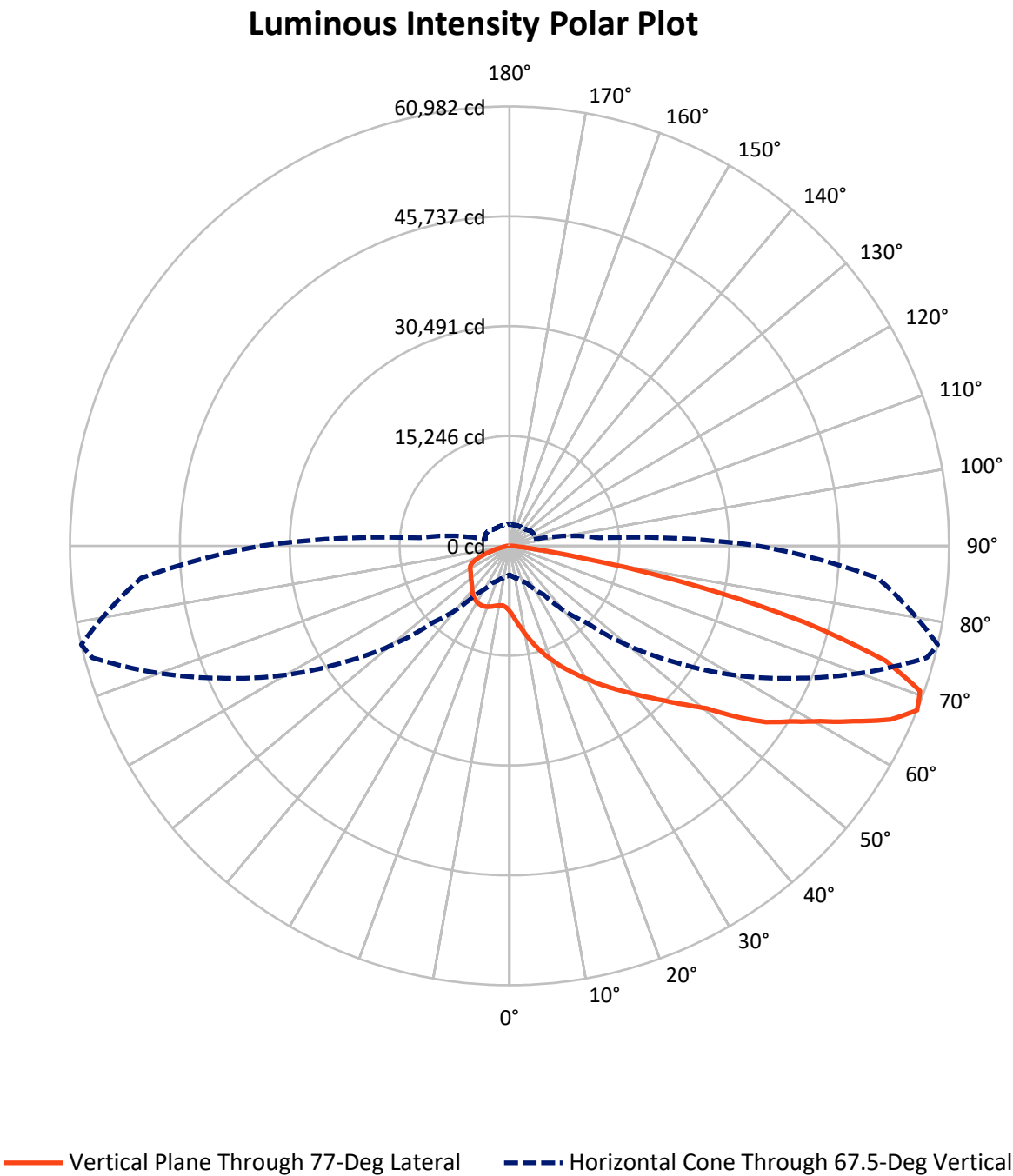
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 28.5 fc
Type II - Medium - N/A

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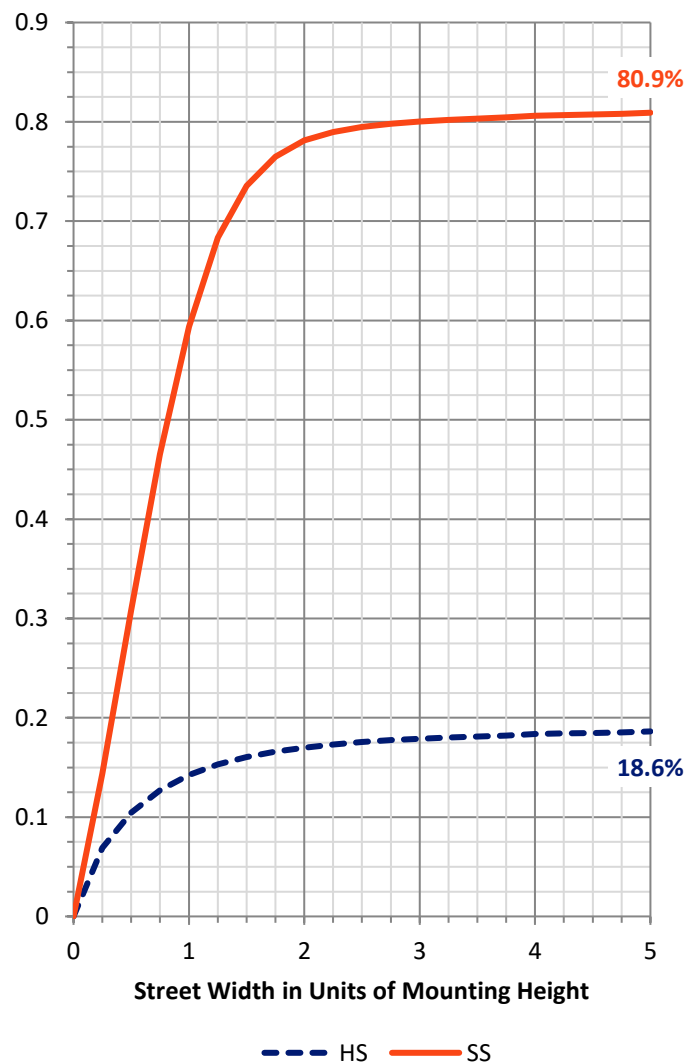
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14704.9	0.0	14704.9
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	63033.1	0.0	63033.1
	% Fixture	81.1	0.0	81.1
Total	Lumens	77738.0	0.0	77738.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	977.7	1.3
10°-20°	3512.3	4.5
20°-30°	6631.6	8.5
30°-40°	10683.4	13.7
40°-50°	14613.0	18.8
50°-60°	16483.6	21.2
60°-70°	15385.3	19.8
70°-80°	8433.8	10.8
80°-90°	1017.3	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°	77738.0	100.0
0°-180°	77738.0	100.0

Coefficient of Utilization



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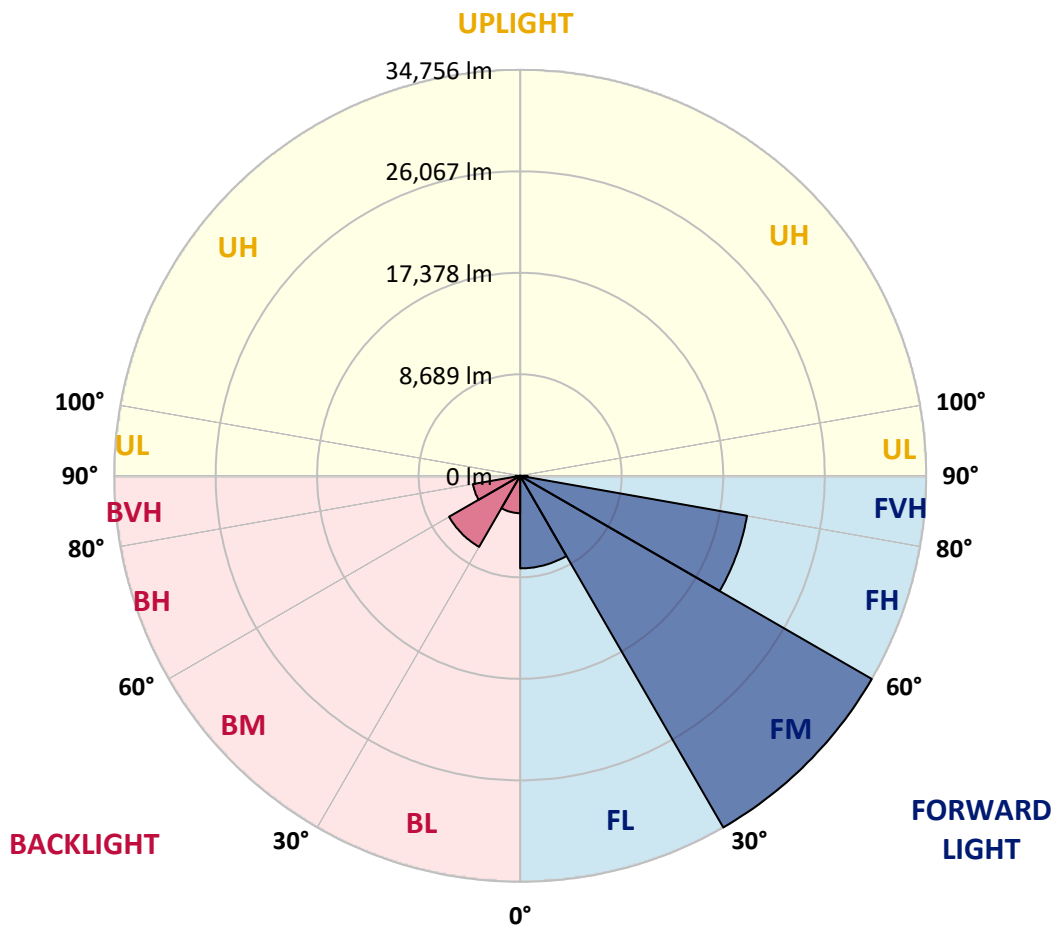
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	7924.4	10.2			
FM	(30°-60°)	34755.8	44.7			
FH	(60°-80°)	19716.7	25.4			G5
FVH	(80°-90°)	636.2	0.8			G4/750
BL	(0°-30°)	3197.2	4.1	B4/5000		
BM	(30°-60°)	7024.2	9.0	B4/8500		
BH	(60°-80°)	4102.4	5.3	B4/5000		G4/5000
BVH	(80°-90°)	381.1	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°	9121.1	9121.1	9121.1	9121.1	9121.1	9121.1	9121.1	9121.1	9121.1	9121.1	9121.1
2.5°	11420.4	11500.7	11400.3	11400.3	11063.3	10886.7	10549.6	10292.8	9831.3	9751.1	9446.1
5°	13499.0	13599.4	13458.9	13398.7	13001.5	12636.3	12070.5	11512.7	10690.1	10605.8	9887.5
7.5°	15108.2	15236.6	15112.2	15048.0	14694.9	14285.5	13623.4	12845.0	11685.3	11520.7	10481.4
10°	16420.4	16440.4	16400.3	16424.4	16147.5	15810.4	15132.2	14225.4	12776.7	12552.0	11199.7
12.5°	17162.7	17255.0	17335.3	17479.7	17431.6	17222.9	16613.0	15529.5	13932.4	13643.5	11982.2
15°	17511.8	17672.3	17852.9	18186.0	18454.8	18507.0	18041.5	16930.0	15108.2	14759.1	12772.7
17.5°	17636.2	17788.7	18073.6	18555.2	19133.0	19522.2	19313.6	18290.3	16271.9	15870.6	13603.4
20°	18266.2	18310.4	18482.9	18940.4	19566.4	20212.4	20368.9	19598.5	17423.6	16970.1	14462.1
22.5°	19614.5	19526.3	19574.4	19783.1	20232.5	20858.5	21215.6	20754.2	18607.3	18085.7	15328.9
25°	21841.6	21584.8	21328.0	21087.2	21316.0	21669.1	22074.4	21909.9	19847.3	19185.2	16203.7
27.5°	24654.6	24341.6	23775.8	22985.3	22708.4	22832.8	23013.4	22981.3	20994.9	20324.8	17106.5
30°	27423.4	27058.3	26384.1	25240.5	24510.2	24181.1	24044.7	23952.4	22242.9	21528.6	18017.4
32.5°	29634.5	29345.6	28683.5	27403.4	26344.0	25782.2	25328.8	24999.7	23547.1	22832.8	18980.5
35°	31568.7	31299.8	30541.4	29144.9	27993.3	27395.3	26801.5	26099.2	24903.4	24181.1	20015.8
37.5°	33334.3	33065.4	32026.1	30573.5	29413.8	29000.5	28470.8	27279.0	26263.7	25581.6	21111.3
40°	34449.8	34389.7	33418.6	31773.3	30569.5	30364.8	30188.3	28647.3	27772.6	27138.5	22315.2
42.5°	34734.8	34867.2	34096.7	32744.4	31596.7	31432.2	31845.5	30196.3	29466.0	28860.0	23679.5
45°	34048.6	34429.8	33924.2	33005.2	32327.1	32238.8	33314.2	31889.7	31339.9	30786.2	25324.7
47.5°	32311.0	32957.1	32748.4	32620.0	32523.7	32904.9	34606.3	33687.4	33462.7	32981.2	27202.7
50°	28803.8	30027.7	30392.9	31203.5	32134.5	33422.6	35782.1	35649.7	35942.6	35457.1	29490.0
52.5°	22740.5	24425.9	26544.6	28575.1	30938.6	33250.0	37074.2	38466.7	39702.6	39437.7	33125.6
55°	18771.9	19530.3	21159.5	24883.3	28619.3	32523.7	37656.1	40741.9	43434.5	43197.7	35882.4
57.5°	15722.1	16400.3	17403.5	20513.4	25112.1	30874.4	38017.2	42130.3	45990.6	45966.6	38603.1
60°	12451.7	13170.0	14197.3	16400.3	21015.0	28025.4	37937.0	43711.4	49253.0	49453.7	41921.7
62.5°	8759.9	9550.5	10690.1	12744.6	16829.7	24333.6	36299.7	44855.0	53093.3	53639.0	45914.4
65°	5758.4	6280.0	7138.8	8912.4	12540.0	19586.5	33173.8	45003.5	57202.4	58125.3	49662.3
67.5°	4036.9	4237.5	4743.1	5706.2	8266.4	15019.9	28193.9	43466.6	59943.1	60982.4	51287.5
70°	3150.0	3250.4	3507.2	3892.4	5192.6	10100.2	21604.9	39469.8	59357.3	60440.7	49590.1
72.5°	2720.7	2817.0	2913.3	2961.4	3483.1	6235.9	14634.7	33001.2	53839.7	54574.0	43117.5
75°	2467.9	2491.9	2572.2	2556.2	2656.5	4044.9	8446.9	24044.7	42479.4	42226.6	31829.5
77.5°	2074.6	2106.7	2239.1	2219.1	2359.5	2764.8	4386.0	15517.5	27539.8	25822.3	17716.5
80°	1757.6	1773.7	1918.1	1894.0	2050.5	2002.4	2239.1	7909.2	11681.2	9895.6	5108.3
82.5°	609.9	754.4	1464.7	1508.8	1565.0	1211.9	1292.1	3226.3	3567.4	2732.7	1071.4
85°	296.9	317.0	746.4	1059.4	1055.4	609.9	630.0	1151.7	1123.6	882.8	357.1
87.5°	48.2	60.2	88.3	413.3	329.0	160.5	216.7	224.7	232.7	200.6	80.3
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°	9121.1	9121.1	9121.1	9121.1	9121.1	9121.1	9121.1	9121.1	9121.1	9121.1	9121.1
2.5°	9221.4	9020.8	8599.4	8210.2	7905.2	7612.3	7447.7	7307.3	7227.0	7211.0	7211.0
5°	9470.2	9056.9	8290.4	7644.4	7223.0	6910.0	6745.5	6641.2	6589.0	6556.9	6552.9
7.5°	9827.3	9221.4	8129.9	7395.6	6954.2	6729.5	6645.2	6629.1	6625.1	6629.1	6641.2
10°	10320.9	9490.3	8113.9	7335.4	6966.2	6841.8	6837.8	6841.8	6857.9	6861.9	6865.9
12.5°	10854.6	9767.1	8178.1	7387.6	7118.7	7050.5	7038.4	7034.4	7046.5	7054.5	7058.5
15°	11436.5	10132.3	8286.4	7499.9	7287.2	7215.0	7203.0	7178.9	7174.9	7170.9	7166.9
17.5°	12034.4	10493.5	8406.8	7620.3	7395.6	7295.3	7251.1	7194.9	7150.8	7138.8	7150.8
20°	12640.3	10850.6	8491.1	7680.5	7403.6	7263.2	7174.9	7078.6	7002.3	6958.2	6974.2
22.5°	13286.4	11223.8	8543.2	7664.4	7331.4	7138.8	6978.3	6865.9	6749.5	6673.3	6677.3
25°	13916.4	11548.8	8539.2	7580.2	7190.9	6946.1	6741.5	6597.0	6436.5	6356.3	6356.3
27.5°	14522.3	11841.8	8438.9	7431.7	6990.3	6717.4	6472.6	6300.1	6143.6	6067.3	6063.3
30°	15148.3	12086.5	8282.4	7215.0	6753.5	6452.6	6183.7	6035.2	5894.8	5822.6	5818.6
32.5°	15770.3	12311.3	8061.7	6946.1	6480.7	6191.7	5926.9	5790.5	5706.2	5706.2	5710.2
35°	16428.4	12467.8	7768.8	6633.1	6191.7	5914.9	5706.2	5625.9	5617.9	5569.8	5557.7
37.5°	17122.6	12568.1	7411.6	6312.1	5906.8	5646.0	5581.8	5485.5	5405.2	5300.9	5284.9
40°	17852.9	12668.4	6982.3	5979.1	5605.9	5461.4	5433.3	5304.9	5076.2	4819.4	4783.3
42.5°	18739.8	12736.6	6536.8	5646.0	5288.9	5240.7	5280.8	5060.1	4695.0	4502.4	4506.4
45°	19767.0	12849.0	6127.5	5317.0	4963.8	4963.8	5132.4	4843.4	4542.5	4422.1	4442.2
47.5°	21099.3	13109.8	5746.3	4955.8	4662.9	4743.1	4803.3	4582.6	4414.1	4265.6	4261.6
50°	23025.4	13735.8	5353.1	4590.6	4434.1	4594.7	4510.4	4382.0	4185.3	4065.0	4052.9
52.5°	25417.0	14105.0	5004.0	4261.6	4237.5	4398.0	4277.6	4157.3	4008.8	3848.3	3816.2
55°	27046.2	14173.2	4711.0	4020.8	4105.1	4089.0	4044.9	3936.6	3856.3	3643.6	3647.6
57.5°	28868.0	14309.6	4470.3	3876.4	4020.8	3844.3	3828.2	3735.9	3631.6	3487.1	3439.0
60°	31047.0	14522.3	4261.6	3820.2	3948.6	3683.7	3603.5	3567.4	3463.0	3390.8	3410.9
62.5°	33422.6	14714.9	4048.9	3828.2	3864.3	3527.2	3406.9	3394.8	3330.6	3306.5	3306.5
65°	35043.7	14189.2	3784.1	3820.2	3731.9	3366.7	3214.2	3210.2	3158.1	3150.0	3146.0
67.5°	34477.9	12523.9	3426.9	3707.8	3595.5	3206.2	3037.7	3021.6	2953.4	2957.4	2957.4
70°	31644.9	10148.4	2933.4	3430.9	3426.9	3061.8	2853.1	2800.9	2708.6	2724.7	2740.7
72.5°	26332.0	7520.0	2271.2	2969.5	3158.1	2929.3	2640.4	2556.2	2439.8	2455.8	2451.8
75°	19016.6	5112.3	1653.3	2259.2	2748.8	2772.8	2431.8	2287.3	2146.8	2170.9	2178.9
77.5°	9731.0	2897.2	1215.9	1557.0	2158.9	2520.0	2243.2	2050.5	2018.4	2243.2	2211.0
80°	3174.1	1452.6	842.7	1091.5	1416.5	2062.6	1966.3	1745.6	1737.5	1789.7	1536.9
82.5°	947.0	614.0	541.7	718.3	782.5	1581.0	1697.4	1320.2	1135.6	1195.8	1235.9
85°	325.0	296.9	309.0	357.1	373.2	927.0	1187.8	874.8	826.6	910.9	898.9
87.5°	76.2	104.3	88.3	80.3	80.3	224.7	461.5	365.2	505.6	337.1	325.0
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)