

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: P955224

Luminaire Tested: **GALN-SB8B-727-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955224
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8B-727-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42152 lumens
Efficiency: N/A
Efficacy: 144.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 292.8
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

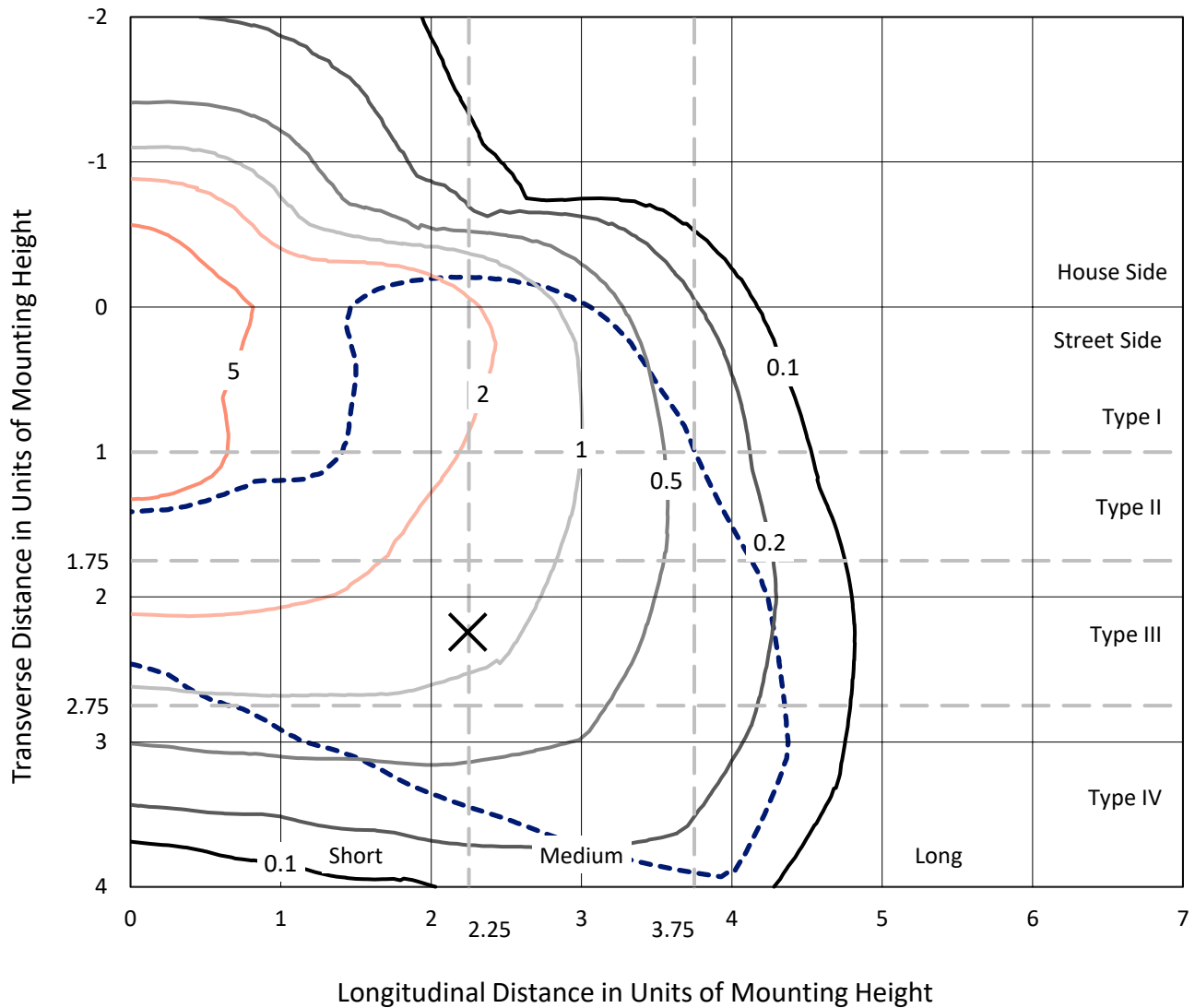


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd

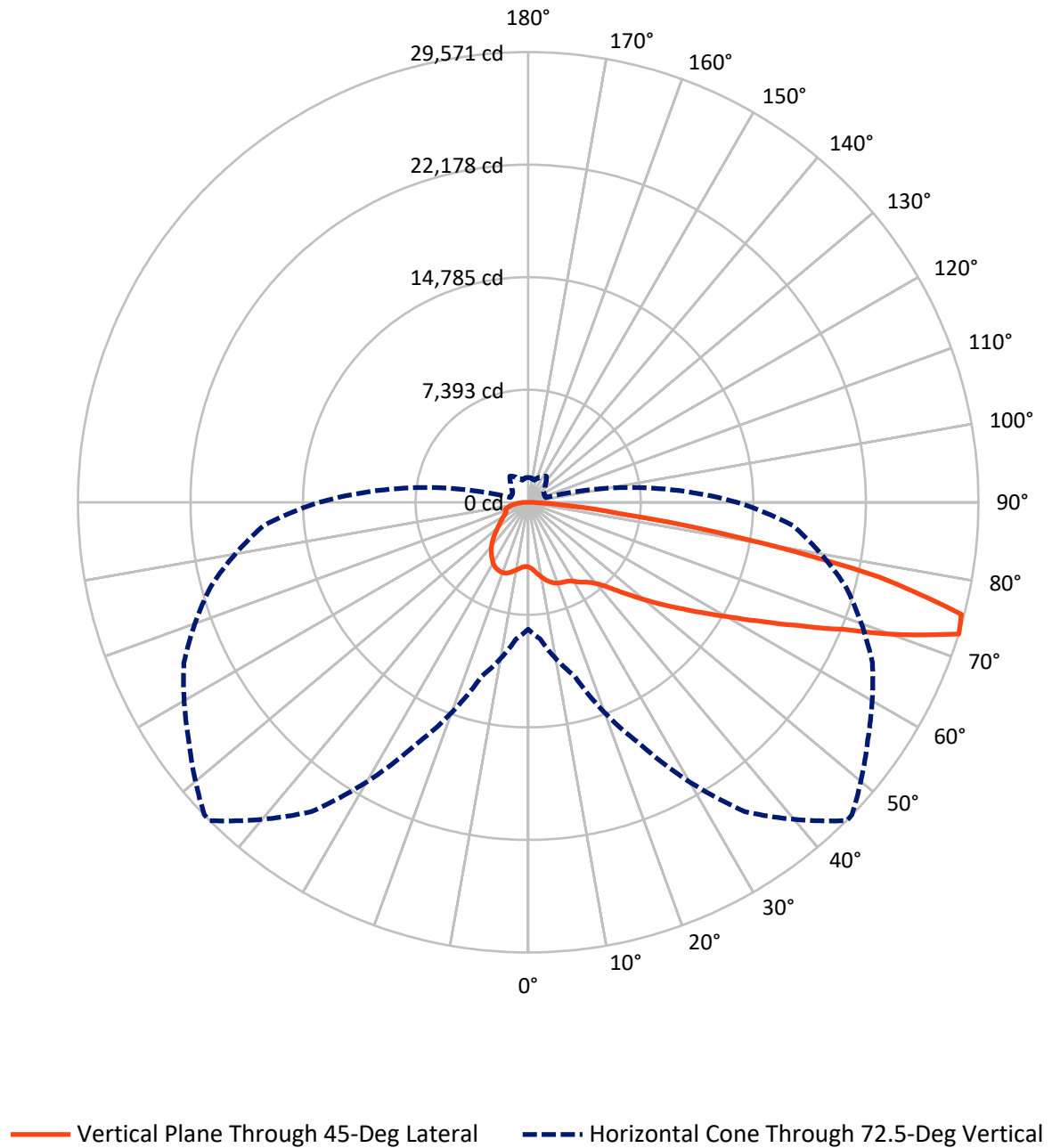


Based on 25 foot mounting height. Maximum calculated value = 8.4 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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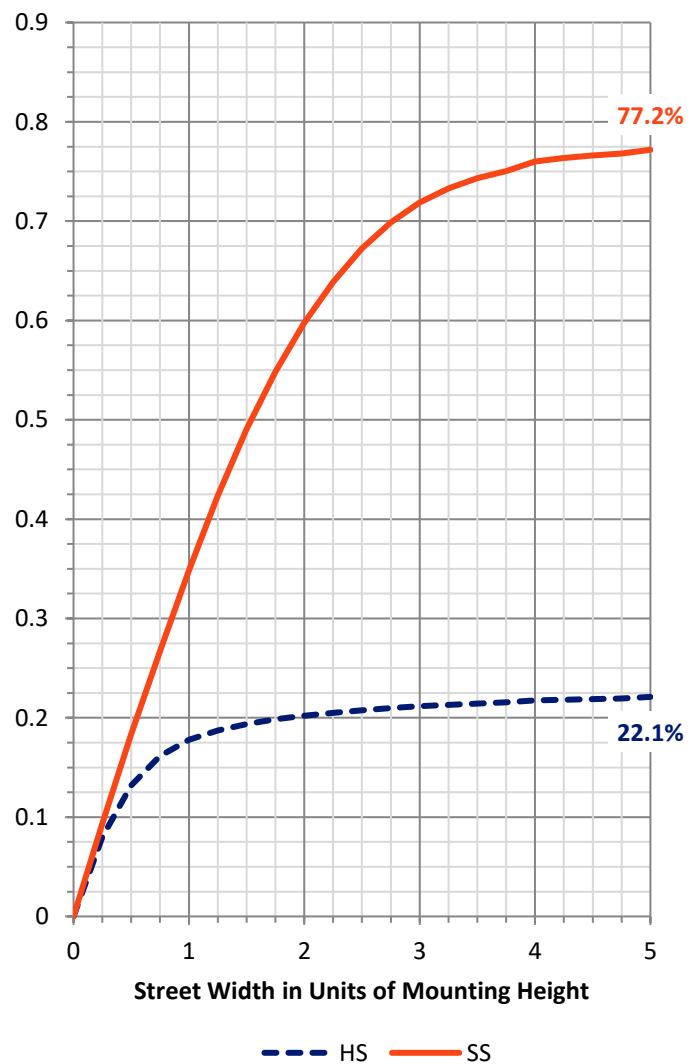
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9529.1	0.0	9529.1
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	32622.9	0.0	32622.9
	% Fixture	77.4	0.0	77.4
Total	Lumens	42152.0	0.0	42152.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	432.8	1.0
10°-20°	1443.0	3.4
20°-30°	2510.2	6.0
30°-40°	3598.5	8.5
40°-50°	5066.9	12.0
50°-60°	7761.1	18.4
60°-70°	11243.0	26.7
70°-80°	8978.2	21.3
80°-90°	1118.2	2.7
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°	42152.0	100.0
0°-180°	42152.0	100.0

Coefficient of Utilization



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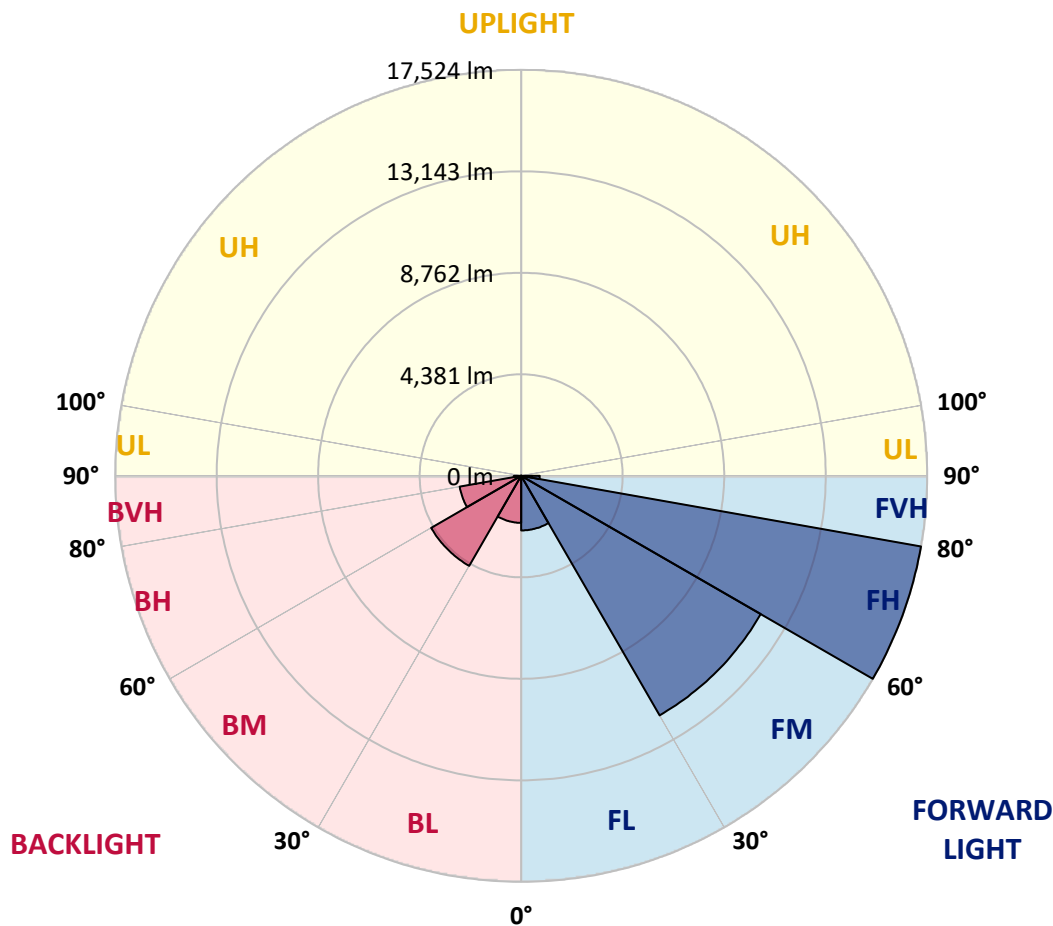
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2357.2	5.6			
FM	(30°-60°)	11939.6	28.3			
FH	(60°-80°)	17523.8	41.6			G5
FVH	(80°-90°)	802.2	1.9			G5
BL	(0°-30°)	2028.8	4.8	B3/2500		
BM	(30°-60°)	4486.9	10.6	B3/5000		
BH	(60°-80°)	2697.4	6.4	B4/5000		G4/5000
BVH	(80°-90°)	316.0	0.7			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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	4252.3	4252.3	4252.3	4252.3	4252.3	4252.3	4252.3	4252.3	4252.3	4252.3	4252.3
2.5°	4418.9	4447.7	4421.1	4396.7	4385.5	4356.7	4354.5	4336.7	4325.6	4294.5	4285.6
5°	4727.5	4765.3	4720.8	4672.0	4627.6	4556.5	4547.6	4496.6	4438.8	4372.2	4334.5
7.5°	5076.1	5109.4	5058.4	4985.1	4907.4	4789.7	4787.5	4694.2	4603.2	4489.9	4425.5
10°	5380.3	5424.8	5355.9	5256.0	5158.3	5025.1	5009.5	4902.9	4787.5	4640.9	4543.2
12.5°	5649.0	5680.1	5613.5	5491.4	5378.1	5244.9	5224.9	5107.2	4978.4	4811.9	4687.5
15°	5862.2	5902.2	5813.3	5682.3	5562.4	5431.4	5413.7	5307.1	5178.3	5002.9	4843.0
17.5°	6002.1	6035.4	5944.4	5797.8	5682.3	5573.5	5560.2	5471.4	5358.1	5180.5	5009.5
20°	6055.4	6090.9	5995.4	5846.7	5740.1	5655.7	5649.0	5584.6	5506.9	5344.8	5171.6
22.5°	6108.7	6142.0	6017.6	5862.2	5768.9	5715.6	5713.4	5671.2	5640.1	5506.9	5338.2
25°	6324.1	6333.0	6166.4	5942.1	5808.9	5762.3	5760.1	5757.8	5771.2	5666.8	5518.0
27.5°	6510.6	6508.4	6366.3	6155.3	5948.8	5851.1	5848.9	5871.1	5913.3	5826.7	5704.5
30°	6783.7	6759.3	6590.5	6370.7	6182.0	6031.0	6017.6	5997.7	6031.0	5962.1	5891.1
32.5°	7363.3	7285.6	7012.4	6621.6	6375.1	6259.7	6241.9	6117.6	6130.9	6088.7	6053.2
35°	8193.8	8091.6	7727.4	7096.8	6615.0	6450.6	6441.8	6284.1	6257.5	6219.7	6233.0
37.5°	9181.9	9055.3	8631.2	7785.2	7028.0	6672.7	6659.4	6517.3	6408.5	6368.5	6444.0
40°	10174.5	10014.6	9663.7	8624.5	7636.4	7043.5	7001.3	6785.9	6661.6	6595.0	6754.9
42.5°	11138.2	11005.0	10705.2	9566.0	8386.9	7585.3	7492.1	7123.5	7030.2	6968.0	7256.7
45°	11990.9	11871.0	11651.1	10571.9	9266.3	8322.5	8231.5	7629.7	7600.9	7600.9	8018.3
47.5°	12683.7	12657.0	12423.9	11597.8	10303.3	9161.9	9004.3	8333.7	8411.4	8531.3	9099.7
50°	13452.0	13378.7	13130.0	12608.2	11522.3	10123.4	9994.6	9197.4	9488.3	9817.0	10663.0
52.5°	14158.1	14198.1	13920.5	13660.7	12899.1	11195.9	10969.4	10216.7	10845.1	11389.1	12494.9
55°	14884.2	14886.4	14808.7	14773.2	14342.4	12381.7	12133.0	11442.4	12441.6	13116.7	14631.1
57.5°	15565.9	15570.4	15685.8	15998.9	16016.7	13749.5	13467.5	12947.9	14215.8	14904.2	16833.8
60°	16174.3	16205.4	16520.7	17253.5	17488.9	15317.2	15050.8	14726.6	16050.0	16742.8	19149.9
62.5°	16378.6	16491.9	17193.6	18235.0	18943.3	17240.2	16978.2	16785.0	17977.4	18621.4	21086.2
65°	16032.2	16292.0	17648.8	19045.5	20440.0	19525.1	19265.3	19054.4	19980.3	20586.5	22676.1
67.5°	15181.8	15517.1	17622.1	19896.0	22256.4	22274.1	22032.1	21536.9	22127.6	22360.7	23193.4
70°	12941.3	13443.1	16070.0	20213.5	24341.5	26033.5	25800.3	24525.8	24270.4	23142.4	21736.8
72.5°	8338.1	9013.1	11833.2	17599.9	24805.5	29570.8	29557.5	27223.7	24947.7	21623.5	17433.4
75°	3042.1	3455.1	5498.0	11047.1	20821.9	29390.9	29477.5	26761.8	22773.8	16702.8	10860.6
77.5°	1108.0	1212.4	1794.2	4245.7	12805.8	23582.0	23761.9	21394.8	16209.9	8382.5	4303.4
80°	581.8	639.5	919.3	1647.6	5486.9	14004.9	14286.9	12714.8	7618.6	2524.7	1290.1
82.5°	322.0	348.6	515.2	894.9	2471.5	5988.8	6157.5	5022.8	2680.2	1070.3	532.9
85°	173.2	184.3	242.0	488.5	1208.0	2076.2	2122.8	1501.1	1068.1	628.4	257.6
87.5°	51.1	62.2	79.9	155.4	473.0	466.3	477.4	297.6	421.9	317.5	84.4
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°	4252.3	4252.3	4252.3	4252.3	4252.3	4252.3	4252.3	4252.3	4252.3	4252.3	4252.3
2.5°	4272.3	4265.6	4241.2	4230.1	4216.8	4214.6	4225.7	4227.9	4230.1	4232.3	4241.2
5°	4312.3	4290.1	4267.9	4254.5	4259.0	4261.2	4283.4	4298.9	4310.1	4318.9	4323.4
7.5°	4390.0	4372.2	4334.5	4332.3	4338.9	4358.9	4387.8	4423.3	4443.3	4458.8	4463.3
10°	4505.5	4472.1	4427.7	4434.4	4447.7	4476.6	4536.5	4565.4	4598.7	4627.6	4620.9
12.5°	4623.1	4594.3	4543.2	4547.6	4569.9	4620.9	4678.7	4714.2	4736.4	4758.6	4767.5
15°	4776.4	4725.3	4669.8	4669.8	4709.7	4765.3	4791.9	4820.8	4834.1	4858.5	4867.4
17.5°	4934.0	4867.4	4794.1	4789.7	4838.5	4865.2	4880.7	4885.2	4889.6	4916.3	4925.1
20°	5091.7	5018.4	4914.0	4905.2	4916.3	4911.8	4909.6	4905.2	4911.8	4945.1	4958.4
22.5°	5247.1	5162.7	5018.4	4978.4	4947.3	4905.2	4902.9	4900.7	4905.2	4938.5	4960.7
25°	5429.2	5327.1	5133.9	5014.0	4909.6	4851.9	4858.5	4860.7	4865.2	4891.8	4927.4
27.5°	5626.8	5513.6	5240.5	5002.9	4814.1	4774.1	4763.0	4769.7	4785.2	4827.4	4869.6
30°	5824.5	5691.2	5338.2	4958.4	4694.2	4638.7	4603.2	4618.7	4667.6	4709.7	4756.4
32.5°	6004.3	5871.1	5415.9	4860.7	4541.0	4454.4	4407.8	4427.7	4476.6	4492.1	4547.6
35°	6215.3	6064.3	5449.2	4705.3	4374.4	4241.2	4179.0	4150.2	4174.6	4159.1	4207.9
37.5°	6450.6	6293.0	5444.7	4501.0	4179.0	4025.8	3939.2	3830.4	3779.3	3726.1	3759.4
40°	6799.3	6572.8	5391.4	4254.5	3937.0	3797.1	3641.7	3457.4	3341.9	3237.5	3244.2
42.5°	7274.5	6961.4	5293.7	3983.6	3663.9	3532.9	3321.9	3106.5	2924.4	2751.2	2735.7
45°	7982.8	7469.9	5171.6	3695.0	3368.5	3239.8	3011.0	2769.0	2562.5	2340.4	2313.8
47.5°	9004.3	8153.8	5056.1	3366.3	3057.7	2940.0	2733.5	2509.2	2264.9	2049.5	2025.1
50°	10407.6	9135.3	4949.6	3046.6	2751.2	2662.4	2498.1	2269.4	2022.9	1849.7	1838.6
52.5°	12192.9	10469.8	4905.2	2737.9	2464.8	2431.5	2300.5	2087.3	1854.1	1707.6	1696.5
55°	14242.5	12066.4	4905.2	2442.6	2213.9	2225.0	2133.9	1936.3	1734.2	1603.2	1589.9
57.5°	16334.2	13682.9	4816.3	2169.5	2000.7	2047.3	1989.6	1816.4	1634.3	1498.9	1476.7
60°	18261.6	15037.4	4456.6	1920.8	1812.0	1885.2	1847.5	1698.7	1476.7	1363.4	1345.6
62.5°	19742.7	15801.3	3763.8	1723.1	1656.5	1740.9	1720.9	1543.3	1447.8	1401.2	1385.6
65°	20484.4	15676.9	2877.8	1547.7	1525.5	1656.5	1614.3	1607.7	1532.2	1478.9	1461.1
67.5°	20029.2	14606.7	2087.3	1418.9	1450.0	1578.8	1740.9	1767.5	1627.6	1523.3	1505.5
70°	18032.9	12670.3	1554.4	1296.8	1354.5	1581.0	1985.2	1849.7	1596.6	1474.4	1454.4
72.5°	13718.4	9448.4	1205.7	1168.0	1230.2	1592.1	2094.0	1812.0	1507.7	1629.9	1616.5
75°	7845.1	5187.2	968.2	1010.3	1074.7	1487.8	2038.4	1714.2	1438.9	1496.6	1496.6
77.5°	2991.1	1994.0	799.4	854.9	863.8	1299.0	1949.6	1707.6	1370.1	1336.8	1219.1
80°	1037.0	779.4	661.7	679.5	668.4	1154.7	1869.7	1485.5	1121.4	1003.7	970.4
82.5°	424.1	388.6	524.0	501.8	475.2	897.1	1510.0	1214.6	917.1	810.5	801.6
85°	184.3	246.5	346.4	304.2	275.3	621.7	1210.2	1028.1	775.0	668.4	666.2
87.5°	37.7	93.3	146.6	137.7	142.1	415.2	859.3	730.6	548.5	410.8	322.0
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)