

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: P952725

Luminaire Tested: **GALN-SB6C-727-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952725
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-SB6C-727-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42041 lumens
Efficiency: N/A
Efficacy: 139.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 300.9
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



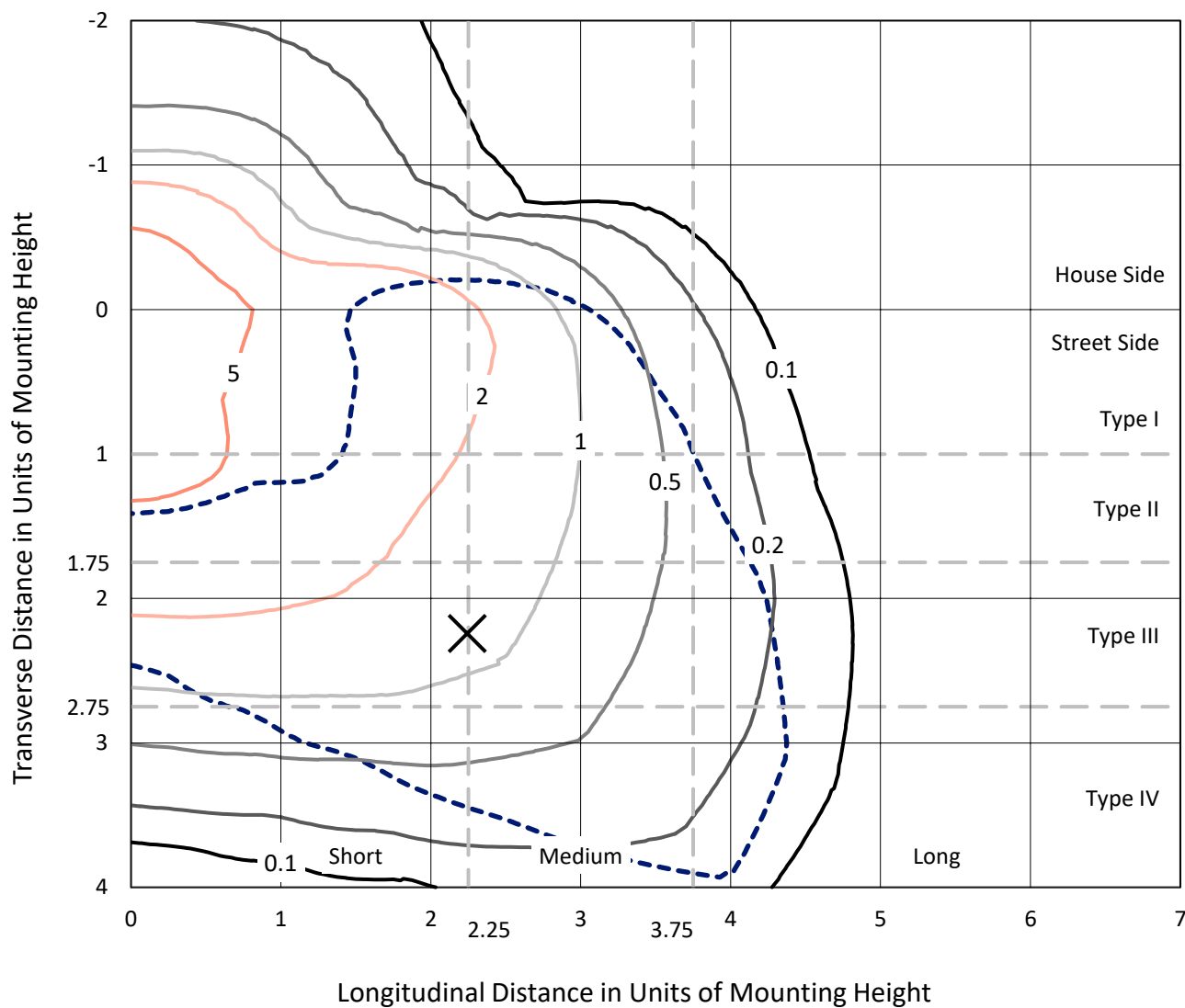
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



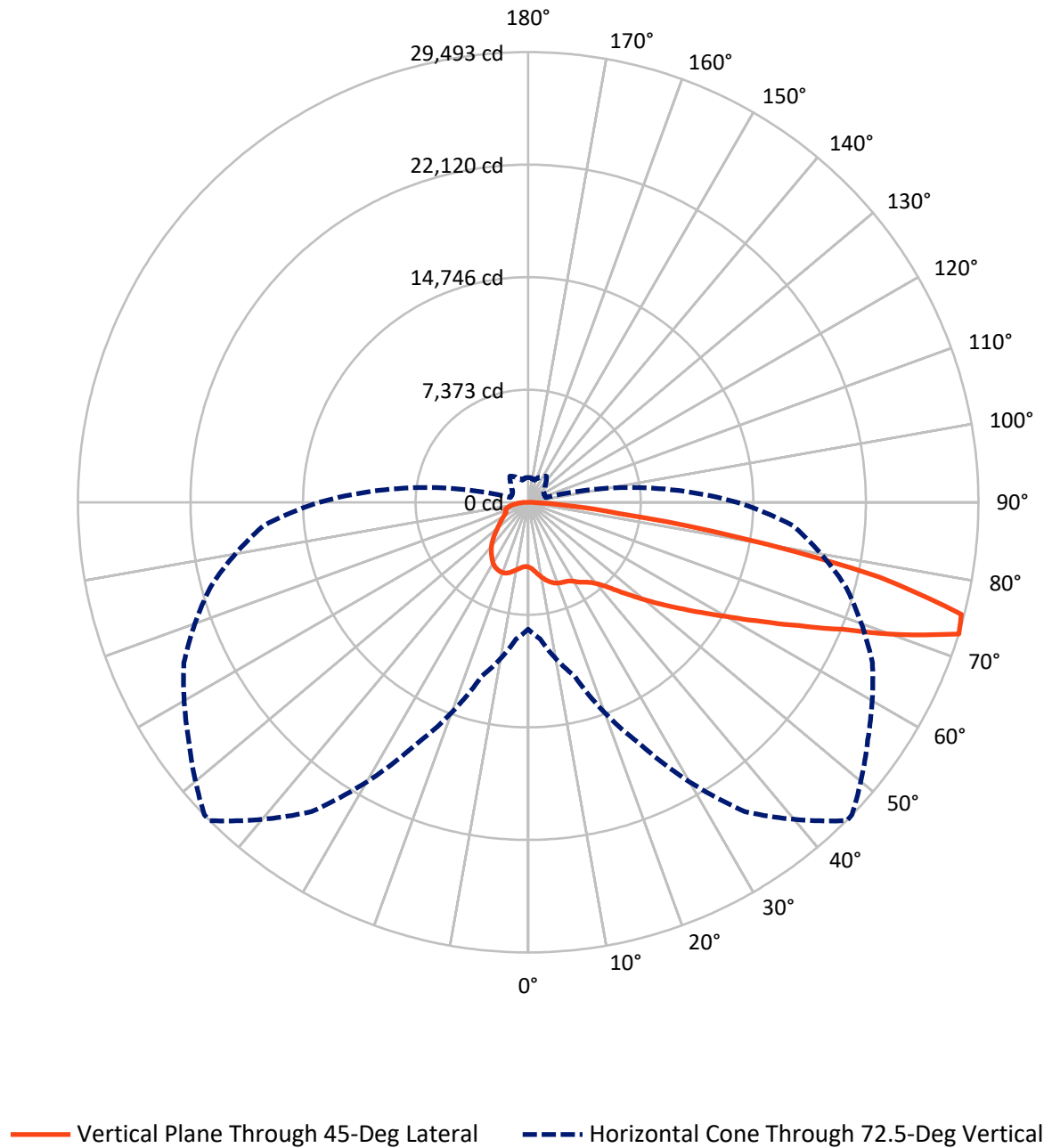
Based on 25 foot mounting height. Maximum calculated value = 8.4 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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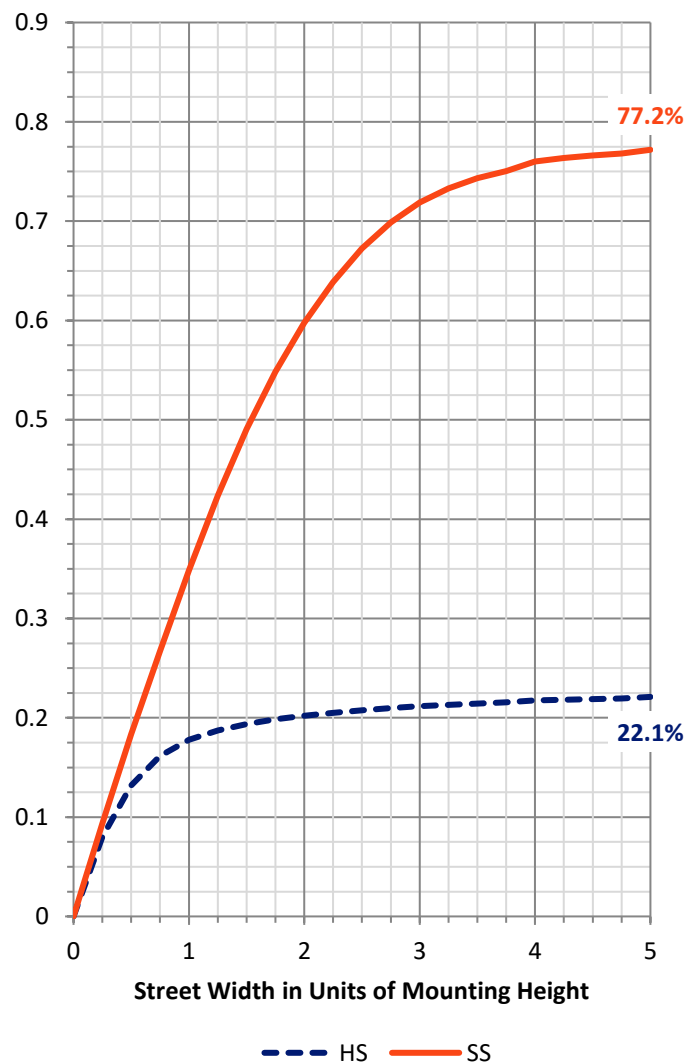
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9504.0	0.0	9504.0
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	32537.0	0.0	32537.0
	% Fixture	77.4	0.0	77.4
Total	Lumens	42041.0	0.0	42041.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	431.7	1.0
10°-20°	1439.2	3.4
20°-30°	2503.6	6.0
30°-40°	3589.0	8.5
40°-50°	5053.6	12.0
50°-60°	7740.6	18.4
60°-70°	11213.4	26.7
70°-80°	8954.6	21.3
80°-90°	1115.2	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°	42041.0	100.0
0°-180°	42041.0	100.0

Coefficient of Utilization



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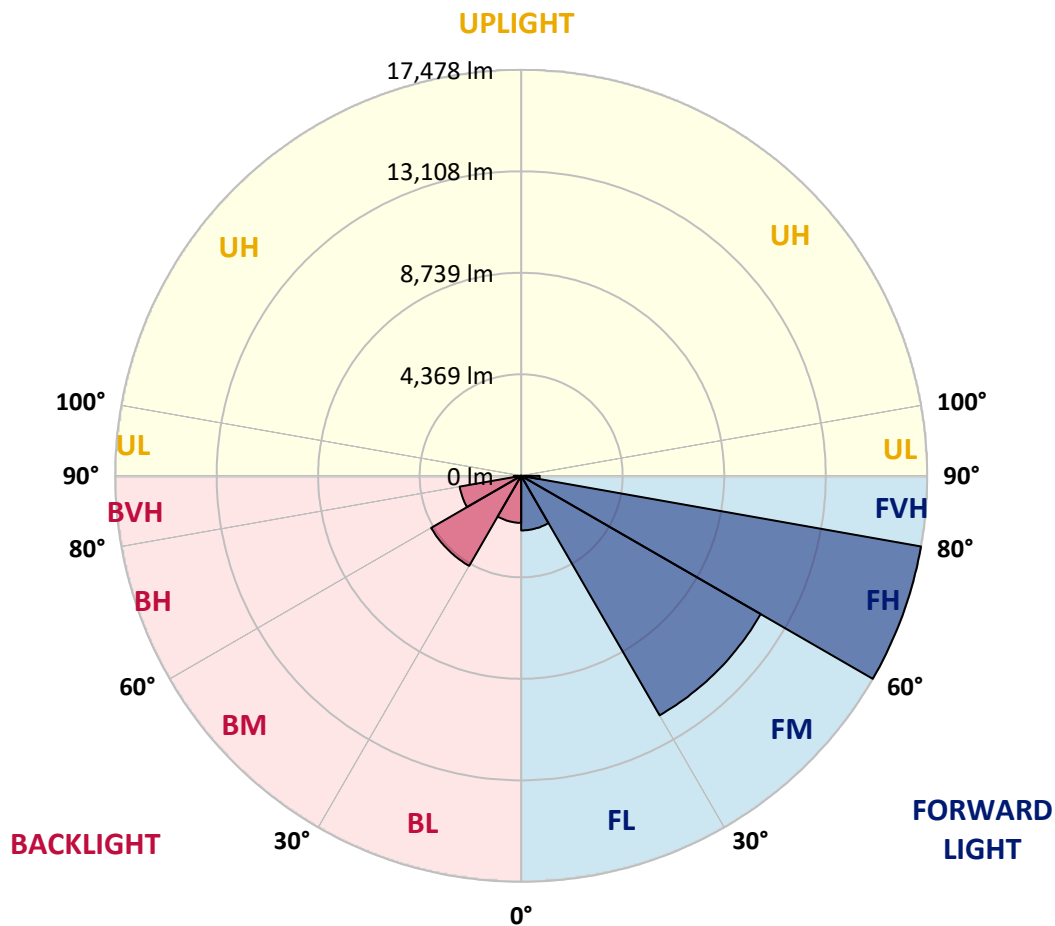
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2351.0	5.6			
FM	(30°-60°)	11908.2	28.3			
FH	(60°-80°)	17477.7	41.6			G5
FVH	(80°-90°)	800.1	1.9			G5
BL	(0°-30°)	2023.5	4.8	B3/2500		
BM	(30°-60°)	4475.0	10.6	B3/5000		
BH	(60°-80°)	2690.3	6.4	B4/5000		G4/5000
BVH	(80°-90°)	315.2	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°	4241.1	4241.1	4241.1	4241.1	4241.1	4241.1	4241.1	4241.1	4241.1	4241.1	4241.1
2.5°	4407.2	4436.0	4409.4	4385.1	4374.0	4345.2	4343.0	4325.3	4314.2	4283.2	4274.3
5°	4715.1	4752.7	4708.4	4659.7	4615.4	4544.5	4535.7	4484.7	4427.2	4360.7	4323.1
7.5°	5062.8	5096.0	5045.0	4972.0	4894.5	4777.1	4774.9	4681.8	4591.0	4478.1	4413.9
10°	5366.2	5410.5	5341.8	5242.2	5144.7	5011.8	4996.3	4890.0	4774.9	4628.7	4531.2
12.5°	5634.2	5665.2	5598.7	5476.9	5364.0	5231.1	5211.1	5093.8	4965.3	4799.2	4675.2
15°	5846.8	5886.6	5798.0	5667.4	5547.8	5417.1	5399.4	5293.1	5164.6	4989.7	4830.2
17.5°	5986.3	6019.5	5928.7	5782.5	5667.4	5558.9	5545.6	5457.0	5344.0	5166.9	4996.3
20°	6039.4	6074.9	5979.6	5831.3	5725.0	5640.8	5634.2	5569.9	5492.4	5330.7	5158.0
22.5°	6092.6	6125.8	6001.8	5846.8	5753.7	5700.6	5698.4	5656.3	5625.3	5492.4	5324.1
25°	6307.4	6316.3	6150.2	5926.5	5793.6	5747.1	5744.9	5742.7	5756.0	5651.9	5503.5
27.5°	6493.5	6491.2	6349.5	6139.1	5933.1	5835.7	5833.5	5855.6	5897.7	5811.3	5689.5
30°	6765.9	6741.5	6573.2	6353.9	6165.7	6015.1	6001.8	5981.9	6015.1	5946.4	5875.6
32.5°	7343.9	7266.4	6994.0	6604.2	6358.4	6243.2	6225.5	6101.5	6114.7	6072.7	6037.2
35°	8172.2	8070.3	7707.1	7078.1	6597.5	6433.7	6424.8	6267.6	6241.0	6203.3	6216.6
37.5°	9157.7	9031.5	8608.5	7764.7	7009.5	6655.1	6641.8	6500.1	6391.6	6351.7	6427.0
40°	10147.7	9988.2	9638.3	8601.8	7616.3	7025.0	6982.9	6768.1	6644.1	6577.6	6737.1
42.5°	11108.9	10976.0	10677.0	9540.9	8364.9	7565.4	7472.3	7104.7	7011.7	6949.7	7237.6
45°	11959.3	11839.7	11620.4	10544.1	9241.9	8300.6	8209.8	7609.7	7580.9	7580.9	7997.2
47.5°	12650.3	12623.7	12391.2	11567.3	10276.1	9137.8	8980.5	8311.7	8389.2	8508.8	9075.8
50°	13416.6	13343.5	13095.4	12575.0	11492.0	10096.7	9968.3	9173.2	9463.3	9791.1	10634.9
52.5°	14120.8	14160.7	13883.8	13624.7	12865.1	11166.4	10940.5	10189.8	10816.5	11359.1	12462.0
55°	14845.0	14847.2	14769.7	14734.3	14304.6	12349.1	12101.0	11412.3	12408.9	13082.1	14592.5
57.5°	15524.9	15529.4	15644.5	15956.8	15974.5	13713.3	13432.1	12913.8	14178.4	14865.0	16789.5
60°	16131.8	16162.8	16477.2	17208.1	17442.8	15276.9	15011.1	14687.8	16007.7	16698.7	19099.4
62.5°	16335.5	16448.5	17148.3	18187.0	18893.5	17194.8	16933.5	16740.8	17930.1	18572.3	21030.6
65°	15990.0	16249.1	17602.3	18995.3	20386.2	19473.7	19214.6	19004.2	19927.7	20532.3	22616.3
67.5°	15141.8	15476.2	17575.7	19843.6	22197.8	22215.5	21974.1	21480.2	22069.3	22301.9	23132.4
70°	12907.2	13407.7	16027.7	20160.3	24277.4	25964.9	25732.4	24461.2	24206.5	23081.4	21679.5
72.5°	8316.1	8989.4	11802.0	17553.6	24740.2	29492.9	29479.7	27152.0	24882.0	21566.6	17387.5
75°	3034.1	3446.0	5483.6	11018.0	20767.1	29313.5	29399.9	26691.4	22713.8	16658.8	10832.0
77.5°	1105.1	1209.2	1789.5	4234.5	12772.1	23519.9	23699.3	21338.5	16167.2	8360.4	4292.1
80°	580.2	637.8	916.9	1643.3	5472.5	13968.0	14249.3	12681.3	7598.6	2518.1	1286.7
82.5°	321.1	347.7	513.8	892.5	2464.9	5973.0	6141.3	5009.6	2673.1	1067.5	531.5
85°	172.7	183.8	241.4	487.2	1204.8	2070.7	2117.2	1497.1	1065.3	626.8	256.9
87.5°	50.9	62.0	79.7	155.0	471.7	465.1	476.2	296.8	420.8	316.7	84.2
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°	4241.1	4241.1	4241.1	4241.1	4241.1	4241.1	4241.1	4241.1	4241.1	4241.1	4241.1
2.5°	4261.1	4254.4	4230.0	4219.0	4205.7	4203.5	4214.5	4216.8	4219.0	4221.2	4230.0
5°	4300.9	4278.8	4256.6	4243.3	4247.8	4250.0	4272.1	4287.6	4298.7	4307.6	4312.0
7.5°	4378.4	4360.7	4323.1	4320.8	4327.5	4347.4	4376.2	4411.6	4431.6	4447.1	4451.5
10°	4493.6	4460.4	4416.1	4422.7	4436.0	4464.8	4524.6	4553.4	4586.6	4615.4	4608.8
12.5°	4611.0	4582.2	4531.2	4535.7	4557.8	4608.8	4666.3	4701.8	4723.9	4746.1	4754.9
15°	4763.8	4712.8	4657.5	4657.5	4697.3	4752.7	4779.3	4808.1	4821.4	4845.7	4854.6
17.5°	4921.0	4854.6	4781.5	4777.1	4825.8	4852.4	4867.9	4872.3	4876.7	4903.3	4912.2
20°	5078.3	5005.2	4901.1	4892.2	4903.3	4898.9	4896.7	4892.2	4898.9	4932.1	4945.4
22.5°	5233.3	5149.1	5005.2	4965.3	4934.3	4892.2	4890.0	4887.8	4892.2	4925.5	4947.6
25°	5414.9	5313.0	5120.3	5000.8	4896.7	4839.1	4845.7	4847.9	4852.4	4878.9	4914.4
27.5°	5612.0	5499.1	5226.7	4989.7	4801.4	4761.6	4750.5	4757.1	4772.6	4814.7	4856.8
30°	5809.1	5676.2	5324.1	4945.4	4681.8	4626.5	4591.0	4606.5	4655.3	4697.3	4743.9
32.5°	5988.5	5855.6	5401.6	4847.9	4529.0	4442.7	4396.1	4416.1	4464.8	4480.3	4535.7
35°	6198.9	6048.3	5434.8	4692.9	4362.9	4230.0	4168.0	4139.2	4163.6	4148.1	4196.8
37.5°	6433.7	6276.4	5430.4	4489.2	4168.0	4015.2	3928.8	3820.3	3769.4	3716.2	3749.5
40°	6781.4	6555.5	5377.3	4243.3	3926.6	3787.1	3632.1	3448.3	3333.1	3229.0	3235.7
42.5°	7255.3	6943.0	5279.8	3973.1	3654.2	3523.6	3313.2	3098.3	2916.7	2744.0	2728.5
45°	7961.8	7450.2	5158.0	3685.2	3359.7	3231.2	3003.1	2761.7	2555.7	2334.3	2307.7
47.5°	8980.5	8132.3	5042.8	3357.5	3049.6	2932.2	2726.3	2502.6	2259.0	2044.2	2019.8
50°	10380.2	9111.2	4936.5	3038.5	2744.0	2655.4	2491.5	2263.4	2017.6	1844.8	1833.8
52.5°	12160.8	10442.2	4892.2	2730.7	2458.3	2425.1	2294.4	2081.8	1849.3	1703.1	1692.0
55°	14205.0	12034.6	4892.2	2436.2	2208.0	2219.1	2128.3	1931.2	1729.7	1599.0	1585.7
57.5°	16291.2	13646.9	4803.6	2163.7	1995.4	2041.9	1984.4	1811.6	1630.0	1494.9	1472.8
60°	18213.6	14997.8	4444.9	1915.7	1807.2	1880.3	1842.6	1694.2	1472.8	1359.8	1342.1
62.5°	19690.7	15759.7	3753.9	1718.6	1652.2	1736.3	1716.4	1539.2	1444.0	1397.5	1382.0
65°	20430.5	15635.7	2870.2	1543.6	1521.5	1652.2	1610.1	1603.4	1528.1	1475.0	1457.3
67.5°	19976.4	14568.2	2081.8	1415.2	1446.2	1574.6	1736.3	1762.9	1623.4	1519.3	1501.6
70°	17985.4	12637.0	1550.3	1293.4	1351.0	1576.9	1979.9	1844.8	1592.4	1470.5	1450.6
72.5°	13682.3	9423.5	1202.6	1164.9	1226.9	1587.9	2088.4	1807.2	1503.8	1625.6	1612.3
75°	7824.5	5173.5	965.6	1007.7	1071.9	1483.8	2033.1	1709.7	1435.1	1492.7	1492.7
77.5°	2983.2	1988.8	797.3	852.7	861.5	1295.6	1944.5	1703.1	1366.5	1333.2	1215.9
80°	1034.3	777.4	660.0	677.7	666.6	1151.6	1864.8	1481.6	1118.4	1001.0	967.8
82.5°	423.0	387.6	522.7	500.5	473.9	894.7	1506.0	1211.4	914.7	808.4	799.5
85°	183.8	245.8	345.5	303.4	274.6	620.1	1207.0	1025.4	772.9	666.6	664.4
87.5°	37.6	93.0	146.2	137.3	141.7	414.1	857.1	728.6	547.0	409.7	321.1
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)