

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: P951633

Luminaire Tested: **GALN-SB5D-722-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951633
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-SB5D-722-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42381 lumens
Efficiency: N/A
Efficacy: 116.1 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): 364.9
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

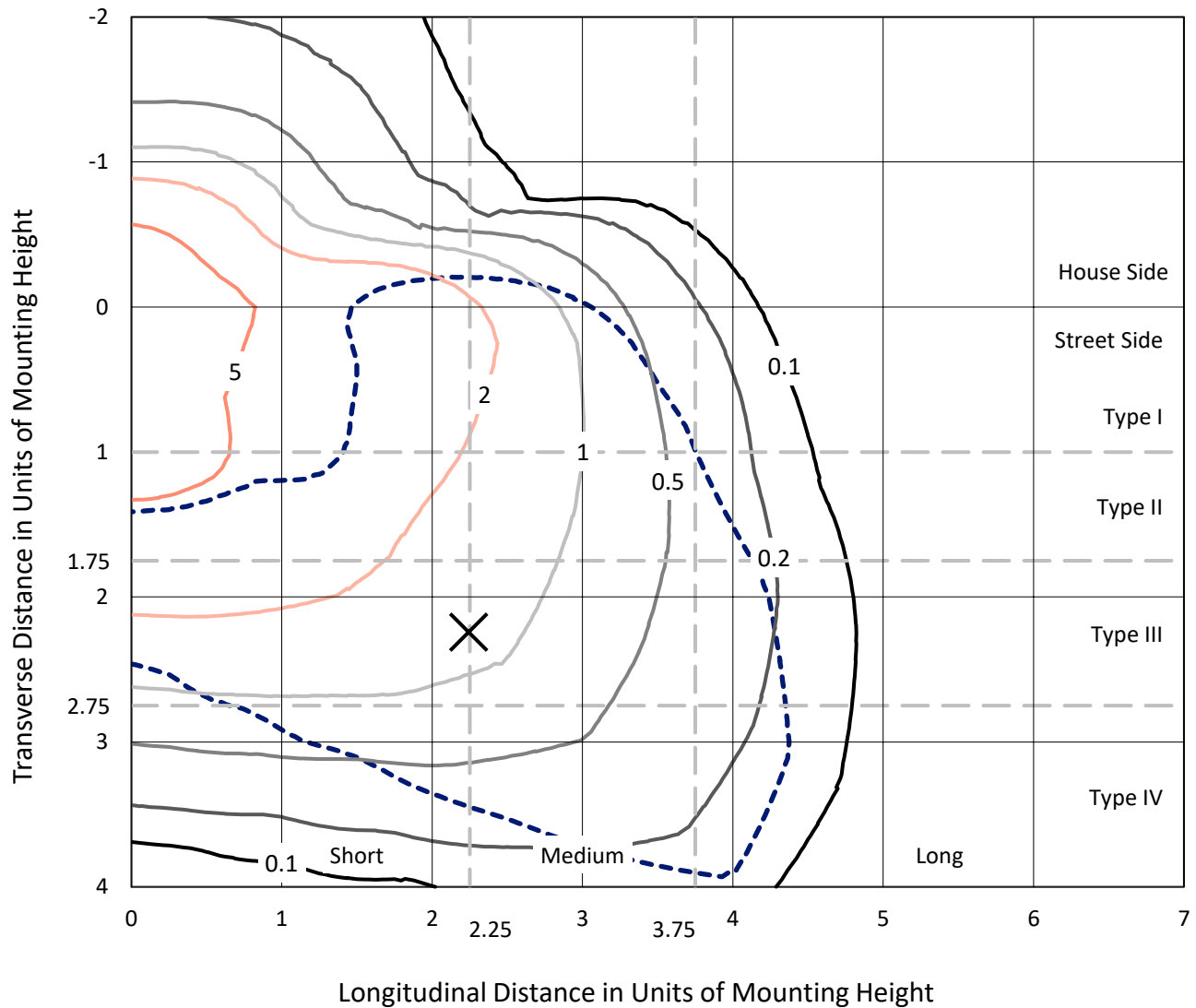


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

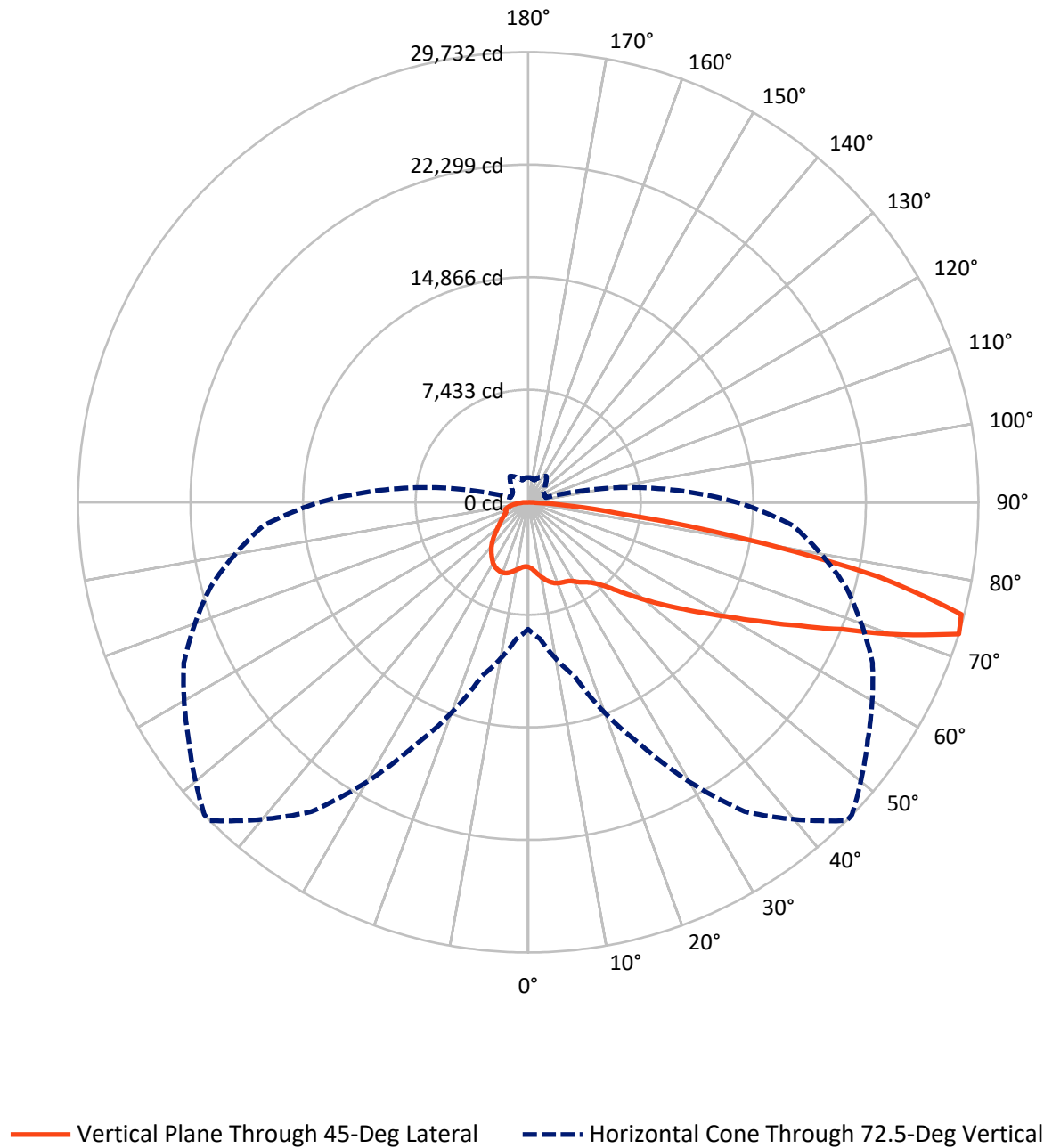


Based on 25 foot mounting height. Maximum calculated value = 8.5 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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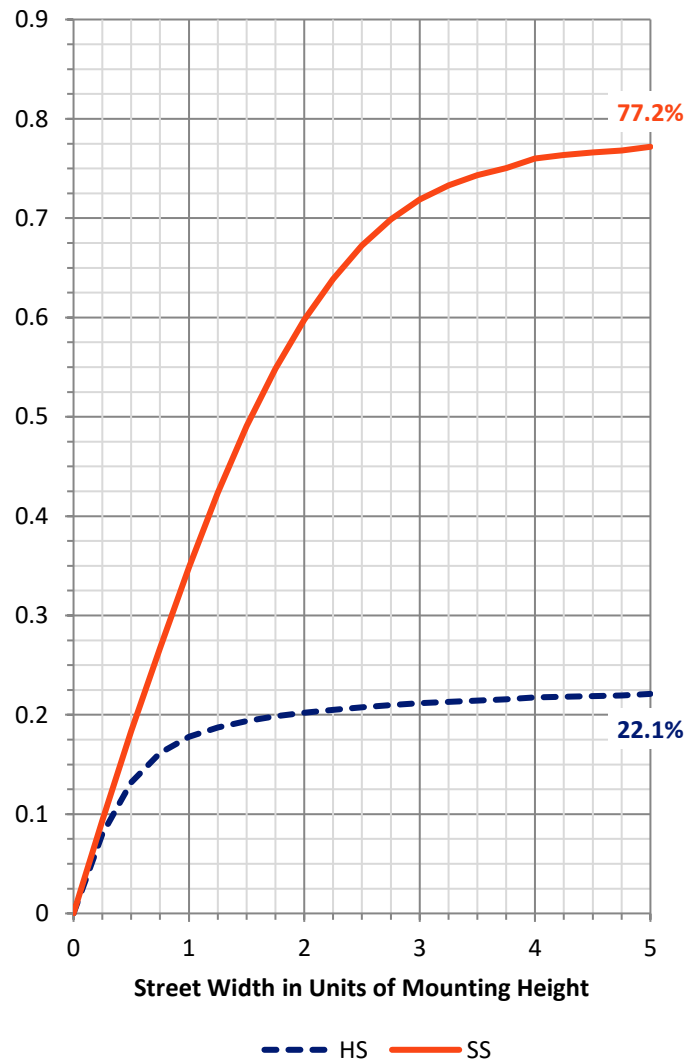
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9580.9	0.0	9580.9
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	32800.1	0.0	32800.1
	% Fixture	77.4	0.0	77.4
Total	Lumens	42381.0	0.0	42381.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	435.2	1.0
10°-20°	1450.9	3.4
20°-30°	2523.8	6.0
30°-40°	3618.1	8.5
40°-50°	5094.5	12.0
50°-60°	7803.2	18.4
60°-70°	11304.1	26.7
70°-80°	9027.0	21.3
80°-90°	1124.3	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°	42381.0	100.0
0°-180°	42381.0	100.0

Coefficient of Utilization



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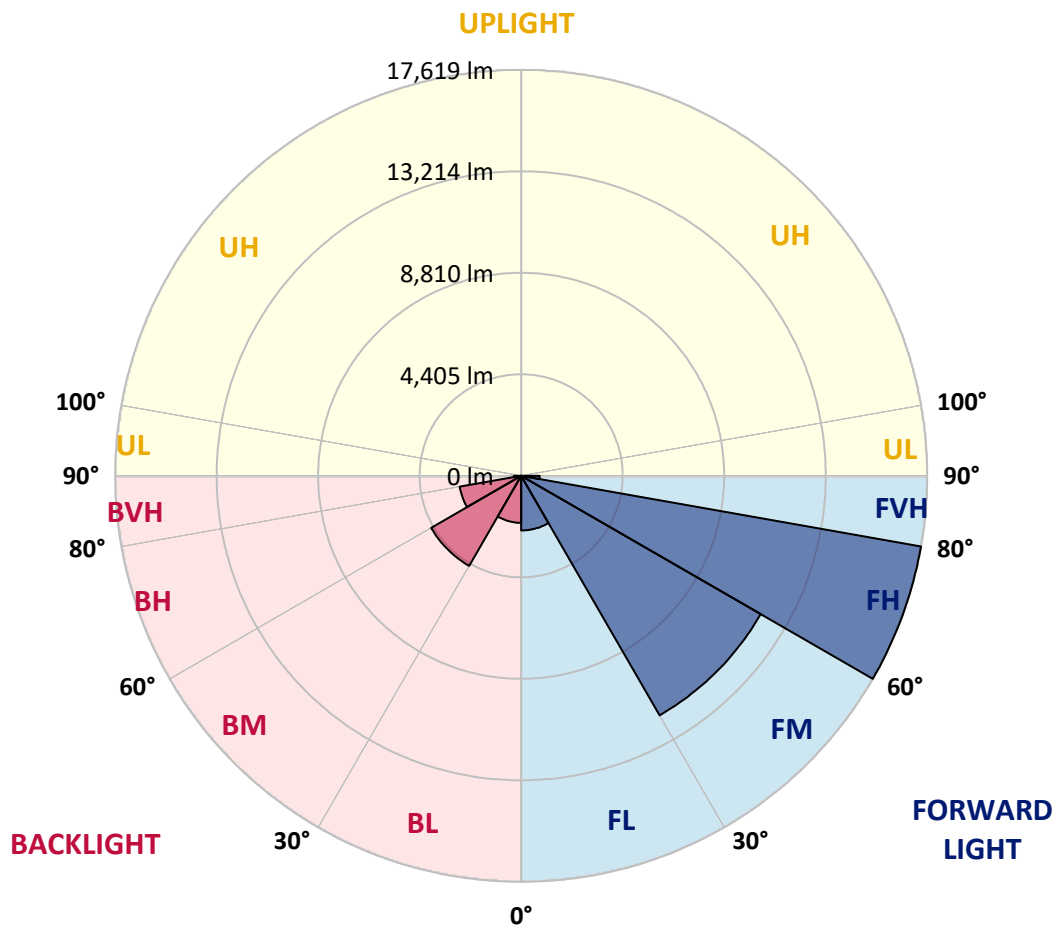
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2370.0	5.6			
FM	(30°-60°)	12004.5	28.3			
FH	(60°-80°)	17619.0	41.6			G5
FVH	(80°-90°)	806.6	1.9			G5
BL	(0°-30°)	2039.8	4.8	B3/2500		
BM	(30°-60°)	4511.2	10.6	B3/5000		
BH	(60°-80°)	2712.1	6.4	B4/5000		G4/5000
BVH	(80°-90°)	317.7	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°	4275.4	4275.4	4275.4	4275.4	4275.4	4275.4	4275.4	4275.4	4275.4	4275.4	4275.4
2.5°	4442.9	4471.9	4445.1	4420.5	4409.4	4380.3	4378.1	4360.3	4349.1	4317.8	4308.9
5°	4753.2	4791.1	4746.5	4697.4	4652.7	4581.3	4572.4	4521.0	4463.0	4396.0	4358.0
7.5°	5103.7	5137.2	5085.8	5012.2	4934.0	4815.7	4813.5	4719.7	4628.2	4514.3	4449.6
10°	5409.6	5454.2	5385.0	5284.6	5186.3	5052.4	5036.7	4929.6	4813.5	4666.1	4567.9
12.5°	5679.7	5711.0	5644.0	5521.2	5407.3	5273.4	5253.3	5135.0	5005.5	4838.0	4713.0
15°	5894.0	5934.2	5844.9	5713.2	5592.6	5460.9	5443.1	5335.9	5206.4	5030.0	4869.3
17.5°	6034.7	6068.2	5976.7	5829.3	5713.2	5603.8	5590.4	5501.1	5387.2	5208.6	5036.7
20°	6088.3	6124.0	6028.0	5878.4	5771.3	5686.4	5679.7	5615.0	5536.8	5373.9	5199.7
22.5°	6141.9	6175.4	6050.3	5894.0	5800.3	5746.7	5744.5	5702.0	5670.8	5536.8	5367.2
25°	6358.4	6367.4	6199.9	5974.4	5840.5	5793.6	5791.3	5789.1	5802.5	5697.6	5548.0
27.5°	6546.0	6543.7	6400.8	6188.8	5981.1	5882.9	5880.7	5903.0	5945.4	5858.3	5735.5
30°	6820.6	6796.0	6626.3	6405.3	6215.5	6063.7	6050.3	6030.2	6063.7	5994.5	5923.1
32.5°	7403.3	7325.1	7050.5	6657.6	6409.8	6293.7	6275.8	6150.8	6164.2	6121.8	6086.1
35°	8238.3	8135.6	7769.4	7135.4	6650.9	6485.7	6476.8	6318.2	6291.5	6253.5	6266.9
37.5°	9231.8	9104.5	8678.1	7827.5	7066.2	6708.9	6695.6	6552.7	6443.3	6403.1	6479.0
40°	10229.7	10069.0	9716.3	8671.4	7677.9	7081.8	7039.4	6822.8	6697.8	6630.8	6791.6
42.5°	11198.7	11064.7	10763.3	9618.0	8432.5	7626.5	7532.8	7162.2	7068.4	7005.9	7296.1
45°	12056.0	11935.4	11714.4	10629.4	9316.6	8367.8	8276.2	7671.2	7642.2	7642.2	8061.9
47.5°	12752.6	12725.8	12491.4	11660.8	10359.2	9211.7	9053.2	8378.9	8457.1	8577.6	9149.2
50°	13525.1	13451.4	13201.3	12676.7	11584.9	10178.4	10048.9	9247.4	9539.9	9870.3	10720.9
52.5°	14235.0	14275.2	13996.1	13734.9	12969.1	11256.7	11029.0	10272.2	10904.0	11451.0	12562.8
55°	14965.1	14967.3	14889.2	14853.4	14420.3	12448.9	12198.9	11504.6	12509.2	13187.9	14710.6
57.5°	15650.5	15655.0	15771.0	16085.8	16103.7	13824.2	13540.7	13018.3	14293.1	14985.2	16925.3
60°	16262.2	16293.5	16610.5	17347.3	17583.9	15400.4	15132.5	14806.6	16137.2	16833.8	19253.9
62.5°	16467.6	16581.5	17287.0	18334.1	19046.3	17333.9	17070.4	16876.2	18075.1	18722.5	21200.7
65°	16119.3	16380.5	17744.7	19149.0	20551.0	19631.2	19370.0	19157.9	20088.9	20698.4	22799.3
67.5°	15264.2	15601.4	17717.9	20004.0	22377.3	22395.2	22151.8	21653.9	22247.8	22482.2	23319.4
70°	13011.6	13516.1	16157.3	20323.3	24473.7	26174.9	25940.5	24659.0	24402.3	23268.1	21854.9
72.5°	8383.4	9062.1	11897.5	17695.5	24940.3	29731.5	29718.1	27371.6	25083.2	21741.0	17528.1
75°	3058.7	3473.9	5527.9	11107.2	20935.0	29550.6	29637.7	26907.2	22897.5	16793.6	10919.6
77.5°	1114.1	1219.0	1803.9	4268.7	12875.4	23710.2	23891.0	21511.0	16297.9	8428.0	4326.8
80°	584.9	643.0	924.3	1656.6	5516.7	14081.0	14364.5	12783.8	7660.0	2538.5	1297.1
82.5°	323.7	350.5	518.0	899.7	2484.9	6021.3	6191.0	5050.1	2694.7	1076.1	535.8
85°	174.1	185.3	243.4	491.2	1214.5	2087.5	2134.4	1509.2	1073.9	631.8	259.0
87.5°	51.3	62.5	80.4	156.3	475.5	468.8	480.0	299.2	424.2	319.3	84.8
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°	4275.4	4275.4	4275.4	4275.4	4275.4	4275.4	4275.4	4275.4	4275.4	4275.4	4275.4
2.5°	4295.5	4288.8	4264.3	4253.1	4239.7	4237.5	4248.6	4250.9	4253.1	4255.3	4264.3
5°	4335.7	4313.4	4291.0	4277.7	4282.1	4284.3	4306.7	4322.3	4333.5	4342.4	4346.9
7.5°	4413.8	4396.0	4358.0	4355.8	4362.5	4382.6	4411.6	4447.3	4467.4	4483.0	4487.5
10°	4529.9	4496.4	4451.8	4458.5	4471.9	4500.9	4561.2	4590.2	4623.7	4652.7	4646.0
12.5°	4648.3	4619.2	4567.9	4572.4	4594.7	4646.0	4704.1	4739.8	4762.1	4784.4	4793.4
15°	4802.3	4751.0	4695.1	4695.1	4735.3	4791.1	4817.9	4847.0	4860.4	4884.9	4893.8
17.5°	4960.8	4893.8	4820.2	4815.7	4864.8	4891.6	4907.2	4911.7	4916.2	4943.0	4951.9
20°	5119.3	5045.7	4940.7	4931.8	4943.0	4938.5	4936.3	4931.8	4938.5	4972.0	4985.4
22.5°	5275.6	5190.8	5045.7	5005.5	4974.2	4931.8	4929.6	4927.3	4931.8	4965.3	4987.6
25°	5458.7	5356.0	5161.8	5041.2	4936.3	4878.2	4884.9	4887.1	4891.6	4918.4	4954.1
27.5°	5657.4	5543.5	5268.9	5030.0	4840.3	4800.1	4788.9	4795.6	4811.2	4853.7	4896.1
30°	5856.1	5722.1	5367.2	4985.4	4719.7	4663.9	4628.2	4643.8	4692.9	4735.3	4782.2
32.5°	6036.9	5903.0	5445.3	4887.1	4565.7	4478.6	4431.7	4451.8	4500.9	4516.5	4572.4
35°	6249.0	6097.2	5478.8	4730.9	4398.2	4264.3	4201.7	4172.7	4197.3	4181.6	4230.8
37.5°	6485.7	6327.2	5474.3	4525.5	4201.7	4047.7	3960.6	3851.2	3799.9	3746.3	3779.8
40°	6836.2	6608.5	5420.7	4277.7	3958.4	3817.7	3661.5	3476.1	3360.1	3255.1	3261.8
42.5°	7314.0	6999.2	5322.5	4005.3	3683.8	3552.1	3340.0	3123.4	2940.3	2766.2	2750.6
45°	8026.2	7510.4	5199.7	3715.0	3386.8	3257.4	3027.4	2784.0	2576.4	2353.2	2326.4
47.5°	9053.2	8198.1	5083.6	3384.6	3074.3	2956.0	2748.3	2522.8	2277.2	2060.7	2036.1
50°	10464.2	9184.9	4976.5	3063.1	2766.2	2676.9	2511.7	2281.7	2033.9	1859.8	1848.6
52.5°	12259.2	10526.7	4931.8	2752.8	2478.2	2444.7	2313.0	2098.6	1864.2	1716.9	1705.7
55°	14319.9	12131.9	4931.8	2455.9	2225.9	2237.1	2145.5	1946.8	1743.7	1611.9	1598.5
57.5°	16423.0	13757.2	4842.5	2181.2	2011.6	2058.5	2000.4	1826.3	1643.2	1507.0	1484.7
60°	18360.9	15119.1	4480.8	1931.2	1821.8	1895.5	1857.5	1707.9	1484.7	1370.8	1353.0
62.5°	19850.0	15887.1	3784.2	1732.5	1665.5	1750.4	1730.3	1551.7	1455.7	1408.8	1393.1
65°	20595.7	15762.1	2893.4	1556.1	1533.8	1665.5	1623.1	1616.4	1540.5	1486.9	1469.0
67.5°	20138.0	14686.0	2098.6	1426.6	1457.9	1587.4	1750.4	1777.1	1636.5	1531.6	1513.7
70°	18130.9	12739.2	1562.8	1303.8	1361.9	1589.6	1995.9	1859.8	1605.2	1482.4	1462.3
72.5°	13793.0	9499.7	1212.3	1174.3	1236.9	1600.8	2105.3	1821.8	1515.9	1638.7	1625.3
75°	7887.8	5215.3	973.4	1015.8	1080.6	1495.8	2049.5	1723.6	1446.7	1504.8	1504.8
77.5°	3007.3	2004.9	803.7	859.5	868.5	1306.1	1960.2	1716.9	1377.5	1344.0	1225.7
80°	1042.6	783.6	665.3	683.2	672.0	1160.9	1879.8	1493.6	1127.5	1009.1	975.6
82.5°	426.4	390.7	526.9	504.6	477.8	902.0	1518.2	1221.2	922.1	814.9	806.0
85°	185.3	247.8	348.3	305.9	276.8	625.1	1216.8	1033.7	779.2	672.0	669.8
87.5°	38.0	93.8	147.4	138.4	142.9	417.5	864.0	734.5	551.5	413.0	323.7
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)