

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: P954170

Luminaire Tested: **GALN-SB7C-730-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954170
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7C-730-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 53974 lumens
Efficiency: N/A
Efficacy: 154.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 350.5
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



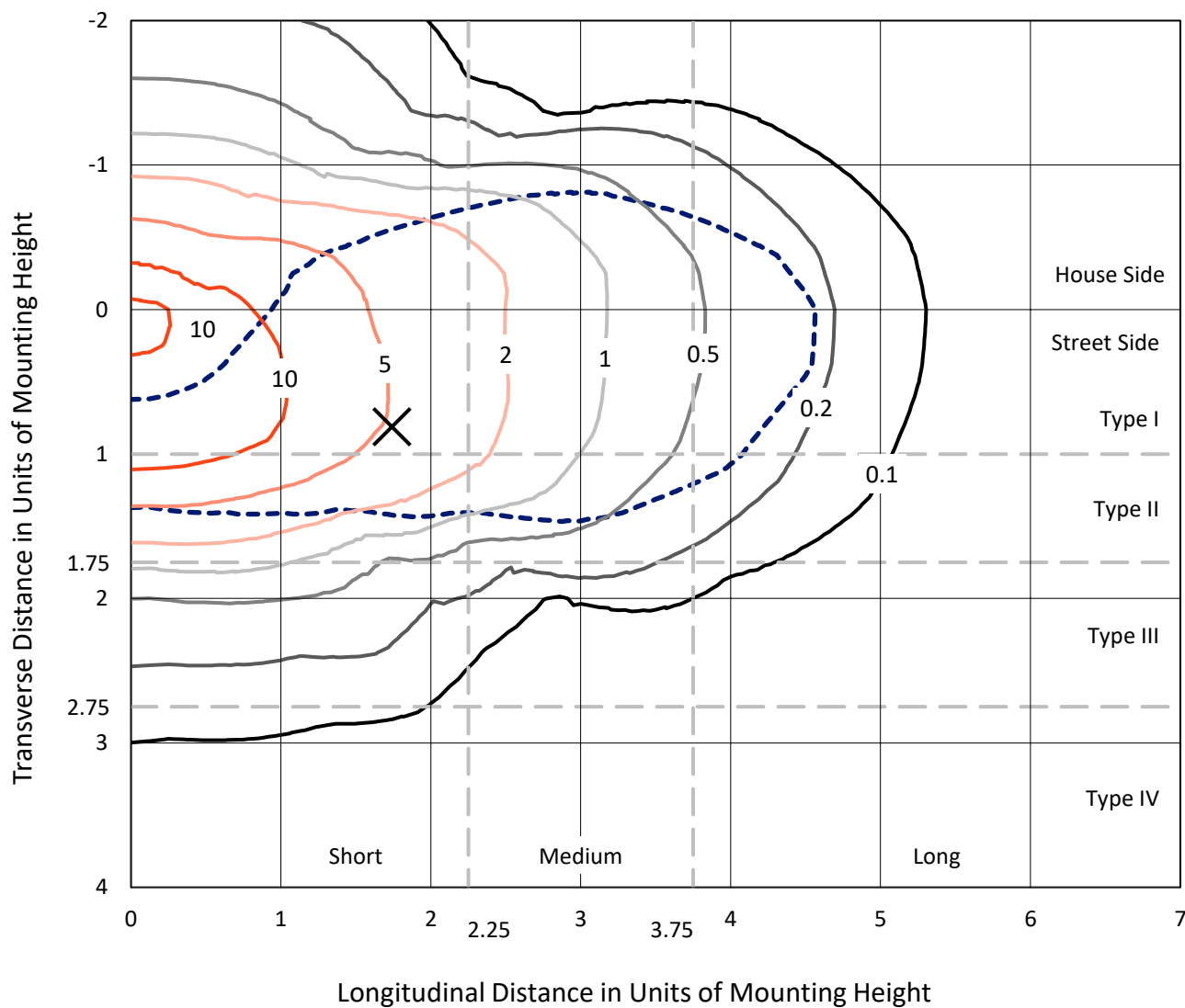
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

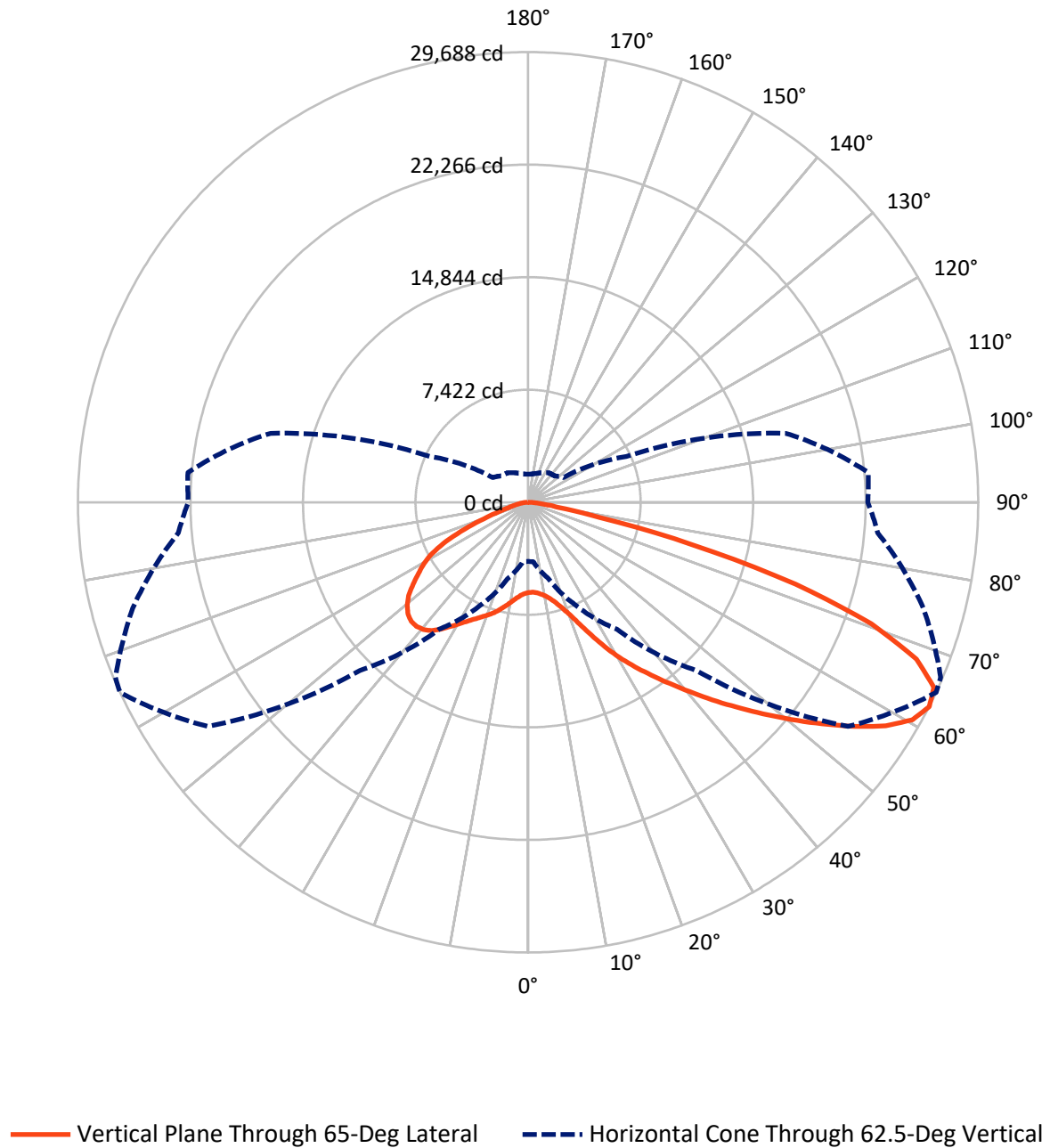


Based on 25 foot mounting height. Maximum calculated value = 15.1 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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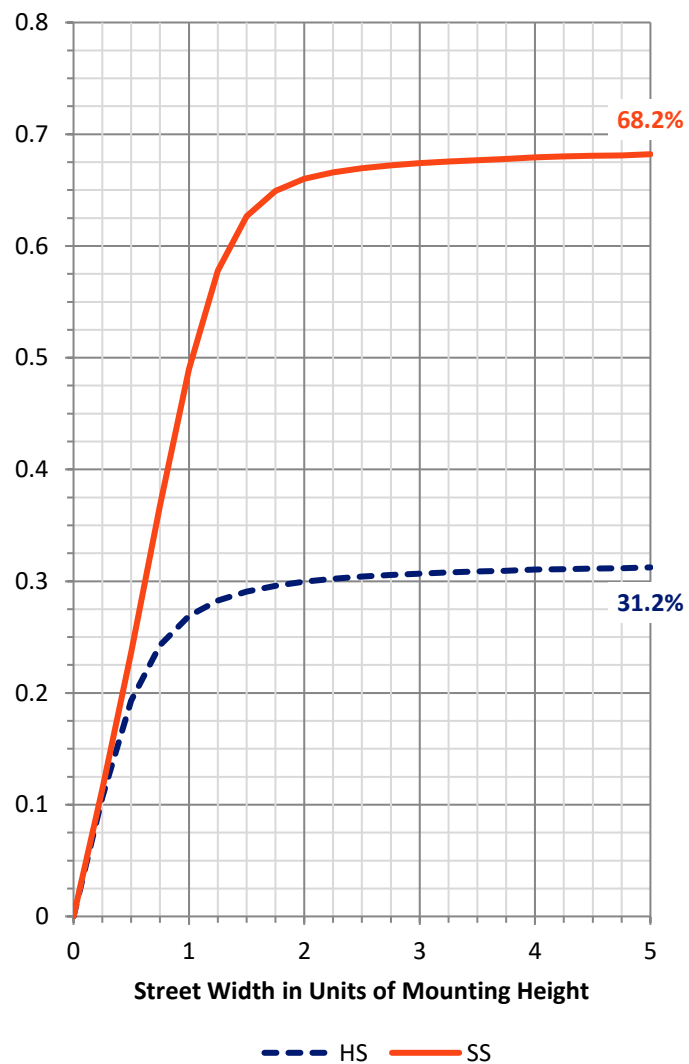
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17031.8	0.0	17031.8
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	36942.2	0.0	36942.2
	% Fixture	68.4	0.0	68.4
Total	Lumens	53974.0	0.0	53974.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	593.0	1.1
10°-20°	2010.8	3.7
20°-30°	4077.2	7.6
30°-40°	7055.5	13.1
40°-50°	10677.2	19.8
50°-60°	12518.3	23.2
60°-70°	10495.1	19.4
70°-80°	5794.2	10.7
80°-90°	752.6	1.4
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°	53974.0	100.0
0°-180°	53974.0	100.0

Coefficient of Utilization



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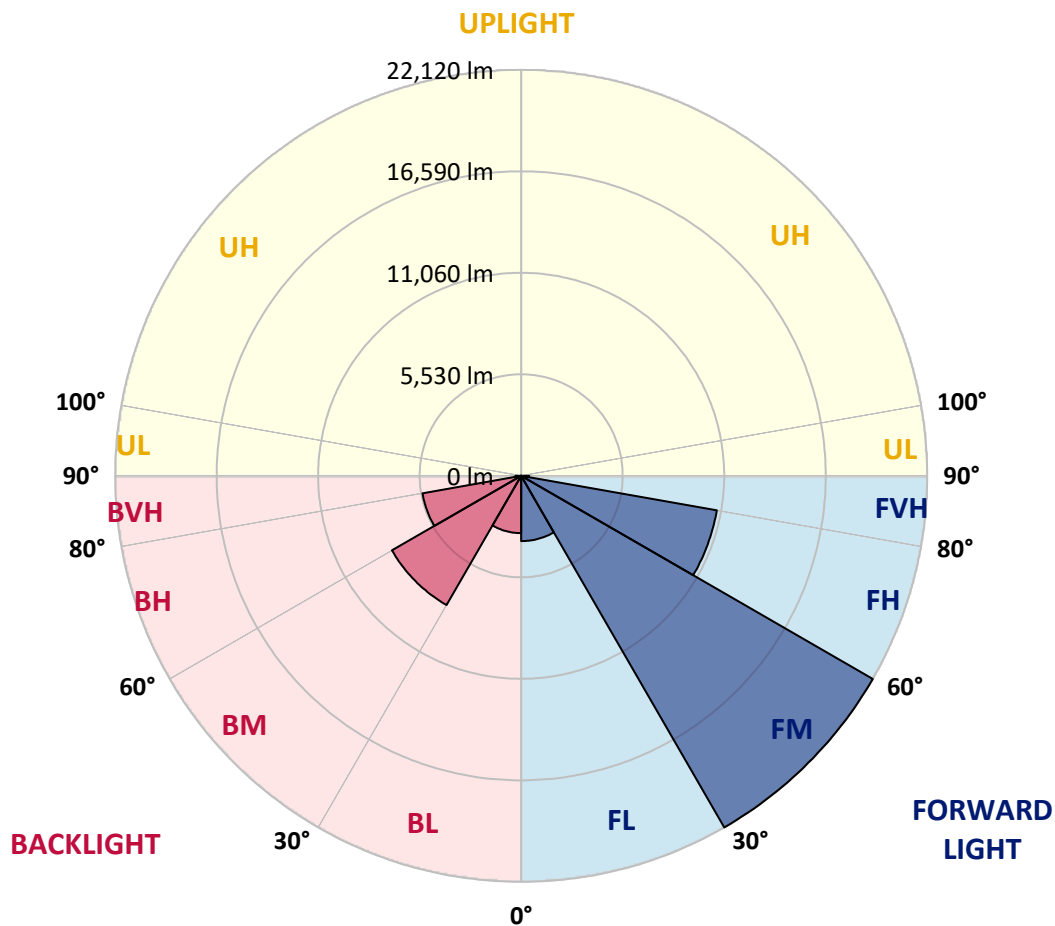
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3557.6	6.6			
FM	(30°-60°)	22120.3	41.0			
FH	(60°-80°)	10825.6	20.1			G4/12000
FVH	(80°-90°)	438.7	0.8			G3/500
BL	(0°-30°)	3123.4	5.8	B4/5000		
BM	(30°-60°)	8130.8	15.1	B4/8500		
BH	(60°-80°)	5463.7	10.1	B5		G5
BVH	(80°-90°)	314.0	0.6			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	5947.7	5947.7	5947.7	5947.7	5947.7	5947.7	5947.7	5947.7	5947.7	5947.7	5947.7
2.5°	5908.5	5891.7	5905.7	5905.7	5911.3	5908.5	5928.1	5933.7	5942.1	5958.9	5958.9
5°	5849.7	5846.9	5872.1	5894.5	5916.9	5936.5	5961.7	5998.1	6003.7	6023.3	6048.5
7.5°	5830.1	5813.3	5852.5	5880.5	5933.7	5981.3	6048.5	6110.1	6135.3	6143.7	6191.3
10°	5981.3	5953.3	5989.7	6006.5	6051.3	6098.9	6177.3	6275.3	6303.3	6336.9	6390.1
12.5°	6238.9	6208.1	6261.3	6286.5	6328.5	6370.5	6423.7	6518.9	6533.0	6594.6	6645.0
15°	6591.8	6555.4	6589.0	6619.8	6689.8	6729.0	6782.2	6874.6	6874.6	6922.2	6958.6
17.5°	7070.6	7023.0	7048.2	7059.4	7104.2	7163.0	7252.6	7333.8	7375.8	7359.0	7308.6
20°	7784.7	7725.9	7725.9	7669.8	7653.0	7700.6	7818.3	7930.3	7975.1	7888.3	7765.1
22.5°	8857.1	8773.1	8725.5	8535.1	8459.5	8465.1	8582.7	8719.9	8756.3	8602.3	8325.1
25°	10220.9	10089.2	10024.8	9744.8	9574.0	9425.6	9518.0	9694.4	9744.8	9554.4	9106.4
27.5°	11584.6	11593.0	11531.4	11195.3	10912.5	10640.9	10593.3	10778.1	10831.3	10615.7	10061.2
30°	13497.1	13298.3	13180.7	12777.5	12374.2	11993.4	11797.4	11873.0	11887.0	11629.4	10985.3
32.5°	15146.5	15096.1	14844.0	14491.2	13973.2	13376.7	13049.1	12928.7	12906.3	12539.5	11775.0
35°	17025.4	16997.4	16731.4	16311.4	15751.3	14922.5	14331.6	13987.2	13959.2	13443.9	12556.3
37.5°	18935.2	18935.2	18674.8	18215.5	17635.9	16599.8	15700.9	15154.9	15065.3	14393.2	13351.5
40°	20458.5	20366.1	20413.7	20220.5	19556.8	18456.4	17221.4	16429.0	16308.6	15502.1	14197.2
42.5°	21323.8	21293.0	21578.6	21794.2	21522.6	20643.3	18896.0	17809.5	17641.5	16723.0	15171.7
45°	21517.0	21483.4	21993.1	22782.7	23163.6	22802.3	20716.1	19262.8	19058.4	17999.9	16216.2
47.5°	21071.8	21004.6	21752.2	22998.3	24219.2	24854.9	22687.5	20839.4	20542.5	19243.2	17288.7
50°	19733.3	19668.9	20800.2	22455.1	24574.9	26249.4	24826.9	22511.1	22057.5	20576.1	18372.3
52.5°	16823.8	16854.6	18627.2	20901.0	24107.2	27117.5	26669.4	24272.4	23726.4	21939.8	19388.8
55°	13105.1	13172.3	15350.9	17854.3	22236.7	26985.9	27926.8	26087.0	25543.8	23222.4	20438.9
57.5°	9383.6	9680.4	11721.8	14200.0	18644.0	24899.7	28201.2	27811.9	27285.5	24622.5	21466.6
60°	6082.1	6135.3	8235.5	10733.3	14197.2	21192.2	27643.9	29119.7	28708.0	26050.6	22326.3
62.5°	3897.9	3934.3	5214.0	7507.4	10218.1	15678.5	25767.8	29688.1	29562.1	26994.3	23152.3
65°	2864.6	2836.6	3503.1	4962.0	6883.0	9669.2	22124.7	29413.7	29662.9	27585.1	23835.6
67.5°	2391.4	2352.2	2679.8	3435.9	5071.2	5491.3	16370.2	27629.9	28542.8	27517.9	24336.8
70°	2178.6	2145.0	2343.8	2551.0	3956.7	3676.7	8252.3	24020.4	25426.1	26753.5	24255.6
72.5°	1845.4	1786.6	2058.2	2265.4	3077.5	2819.8	3410.7	18450.8	20164.5	24303.2	23113.1
75°	1430.9	1391.7	1624.1	1993.8	2313.0	2201.0	2156.2	11203.7	13074.3	18795.2	20220.5
77.5°	1134.1	1080.9	1293.7	1554.1	2080.6	1660.5	1570.9	4824.8	6678.6	11999.0	15129.7
80°	854.1	806.5	982.9	1229.3	1598.9	1251.7	1016.5	1968.6	2517.4	6079.3	7608.2
82.5°	607.7	565.6	686.1	901.7	1075.3	1122.9	624.5	1103.3	1240.5	2343.8	1699.7
85°	389.2	364.0	459.2	565.6	683.3	722.5	380.8	576.8	632.9	966.1	708.5
87.5°	212.8	173.6	246.4	263.2	316.4	288.4	182.0	210.0	226.8	350.0	299.6
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°	5947.7	5947.7	5947.7	5947.7	5947.7	5947.7	5947.7	5947.7	5947.7	5947.7	5947.7
2.5°	5970.1	5978.5	6006.5	6014.9	6034.5	6059.7	6076.5	6093.3	6093.3	6110.1	6110.1
5°	6051.3	6070.9	6129.7	6160.5	6210.9	6261.3	6292.1	6328.5	6350.9	6362.1	6367.7
7.5°	6208.1	6238.9	6322.9	6376.1	6462.9	6533.0	6580.6	6631.0	6642.2	6673.0	6661.8
10°	6420.9	6457.3	6552.6	6653.4	6757.0	6843.8	6888.6	6925.0	6939.0	6944.6	6930.6
12.5°	6664.6	6717.8	6841.0	6964.2	7073.4	7149.0	7160.2	7151.8	7112.6	7079.0	7079.0
15°	6964.2	7011.8	7149.0	7283.4	7389.8	7403.8	7333.8	7289.0	7241.4	7233.0	7233.0
17.5°	7322.6	7347.8	7473.8	7605.4	7613.8	7566.2	7462.6	7420.6	7375.8	7345.0	7347.8
20°	7739.9	7731.5	7821.1	7877.1	7818.3	7672.6	7515.8	7445.8	7401.0	7364.6	7367.4
22.5°	8238.3	8173.9	8162.7	8148.7	7991.9	7686.6	7473.8	7384.2	7314.2	7263.8	7280.6
25°	8963.6	8717.1	8546.3	8451.1	8098.3	7611.0	7339.4	7140.6	7009.0	6922.2	6955.8
27.5°	9870.8	9456.4	9025.2	8792.7	8098.3	7457.0	7014.6	6692.6	6476.9	6387.3	6432.1
30°	10736.1	10302.1	9666.4	9204.4	8078.7	7205.0	6490.9	6042.9	5790.9	5701.3	5754.5
32.5°	11475.4	11002.1	10346.9	9655.2	8031.1	6796.2	5841.3	5345.7	5102.0	4995.6	5048.8
35°	12161.4	11657.4	11030.1	10150.9	7905.1	6196.9	5127.2	4749.2	4477.6	4306.8	4362.8
37.5°	12864.3	12265.0	11677.0	10598.9	7678.2	5496.9	4578.4	4256.4	3937.1	3707.5	3769.1
40°	13628.7	12911.9	12368.6	10864.9	7305.8	4830.4	4152.7	3858.7	3519.9	3276.3	3323.9
42.5°	14522.0	13687.6	13138.7	11002.1	6796.2	4357.2	3875.5	3587.1	3267.9	3069.1	3108.3
45°	15454.5	14541.6	13841.6	10999.3	6227.7	4135.9	3785.9	3500.3	3147.5	2940.2	2973.9
47.5°	16431.8	15434.9	14449.2	10820.1	5734.9	4166.8	3735.5	3312.7	2923.4	2721.8	2749.8
50°	17411.9	16412.2	15037.3	10484.1	5524.9	4099.5	3547.9	3049.5	2590.2	2408.2	2419.4
52.5°	18383.5	17451.1	15544.1	10005.2	5312.0	3850.3	3307.1	2707.8	2453.0	2327.0	2327.0
55°	19360.8	18478.8	16095.8	9308.0	4780.0	3559.1	2903.8	2579.0	2343.8	2229.0	2217.8
57.5°	20340.9	19666.1	16619.4	8610.7	4110.7	3200.7	2682.6	2422.2	2234.6	2136.6	2119.8
60°	21360.2	21024.2	17159.8	7969.5	3449.9	2741.4	2520.2	2296.2	2105.8	1996.6	1988.2
62.5°	22410.3	22519.5	17582.7	7143.4	2842.2	2461.4	2374.6	2145.0	1960.2	1856.6	1853.8
65°	23468.8	23961.6	17859.9	5998.1	2304.6	2195.4	2217.8	1979.8	1792.2	1702.5	1699.7
67.5°	24266.8	25000.5	17781.5	4539.2	1890.2	1943.4	2021.8	1806.2	1629.7	1559.7	1562.5
70°	24356.5	24877.3	17008.6	3108.3	1582.1	1696.9	1803.4	1635.3	1453.3	1402.9	1405.7
72.5°	23163.6	23197.2	14855.3	2030.2	1338.5	1489.7	1573.7	1461.7	1285.3	1234.9	1232.1
75°	20035.7	19184.4	10906.9	1338.5	1120.1	1279.7	1358.1	1279.7	1108.9	1120.1	1080.9
77.5°	15180.1	13586.7	6622.6	952.1	935.3	1075.3	1181.7	1125.7	980.1	1100.5	968.9
80°	7821.1	7350.6	2954.2	711.3	739.3	859.7	971.7	898.9	775.7	739.3	674.9
82.5°	1792.2	2083.4	1164.9	509.6	534.8	618.9	742.1	674.9	557.2	470.4	464.8
85°	627.3	686.1	515.2	319.2	313.6	386.4	504.0	450.8	378.0	302.4	319.2
87.5°	198.8	260.4	193.2	128.8	134.4	173.6	232.4	212.8	176.4	114.8	120.4
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)