

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: P957362

Luminaire Tested: **GALN-SB9D-727-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957362
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-SB9D-727-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 87123 lumens
Efficiency: N/A
Efficacy: 132.4 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): 658
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

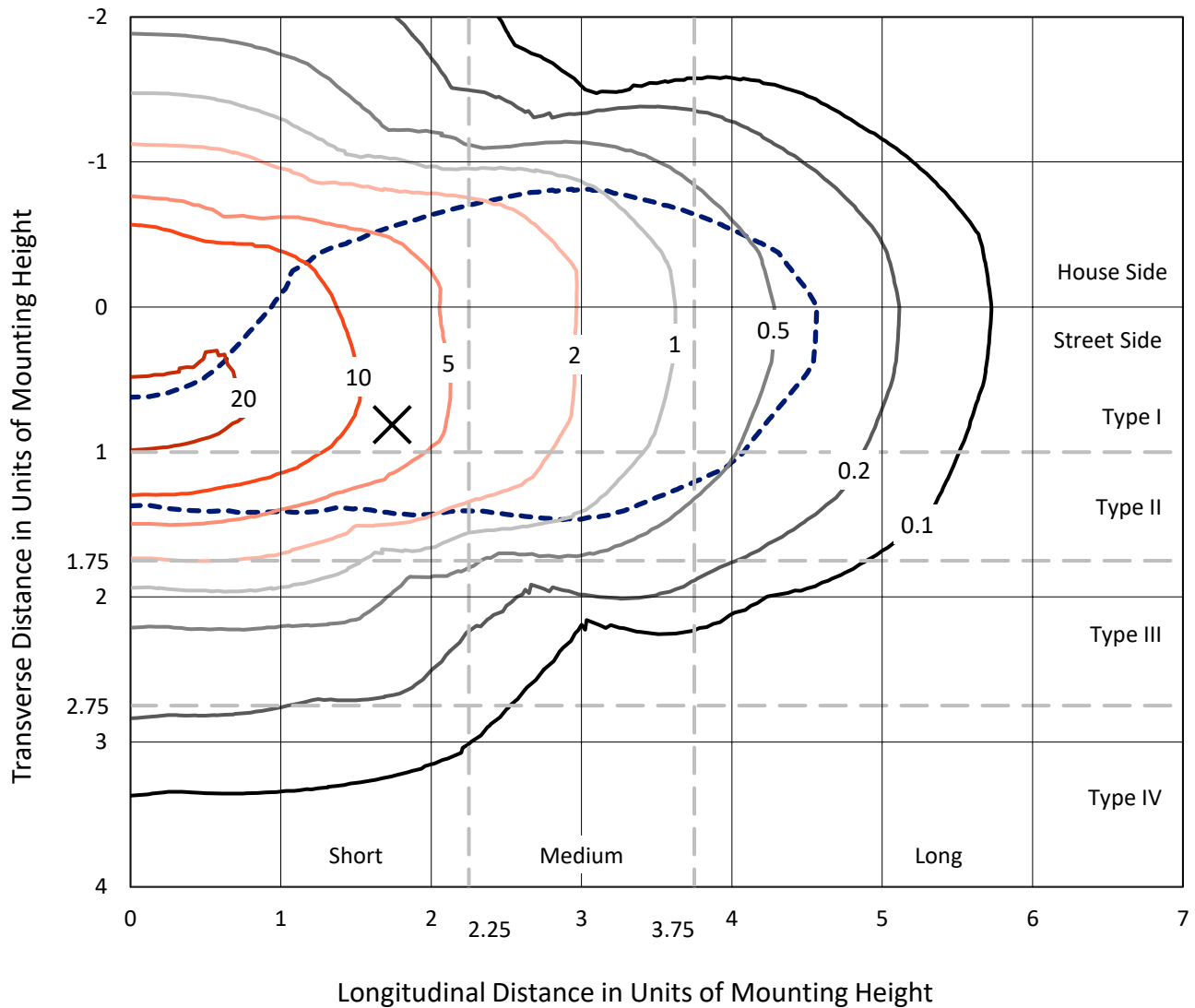


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

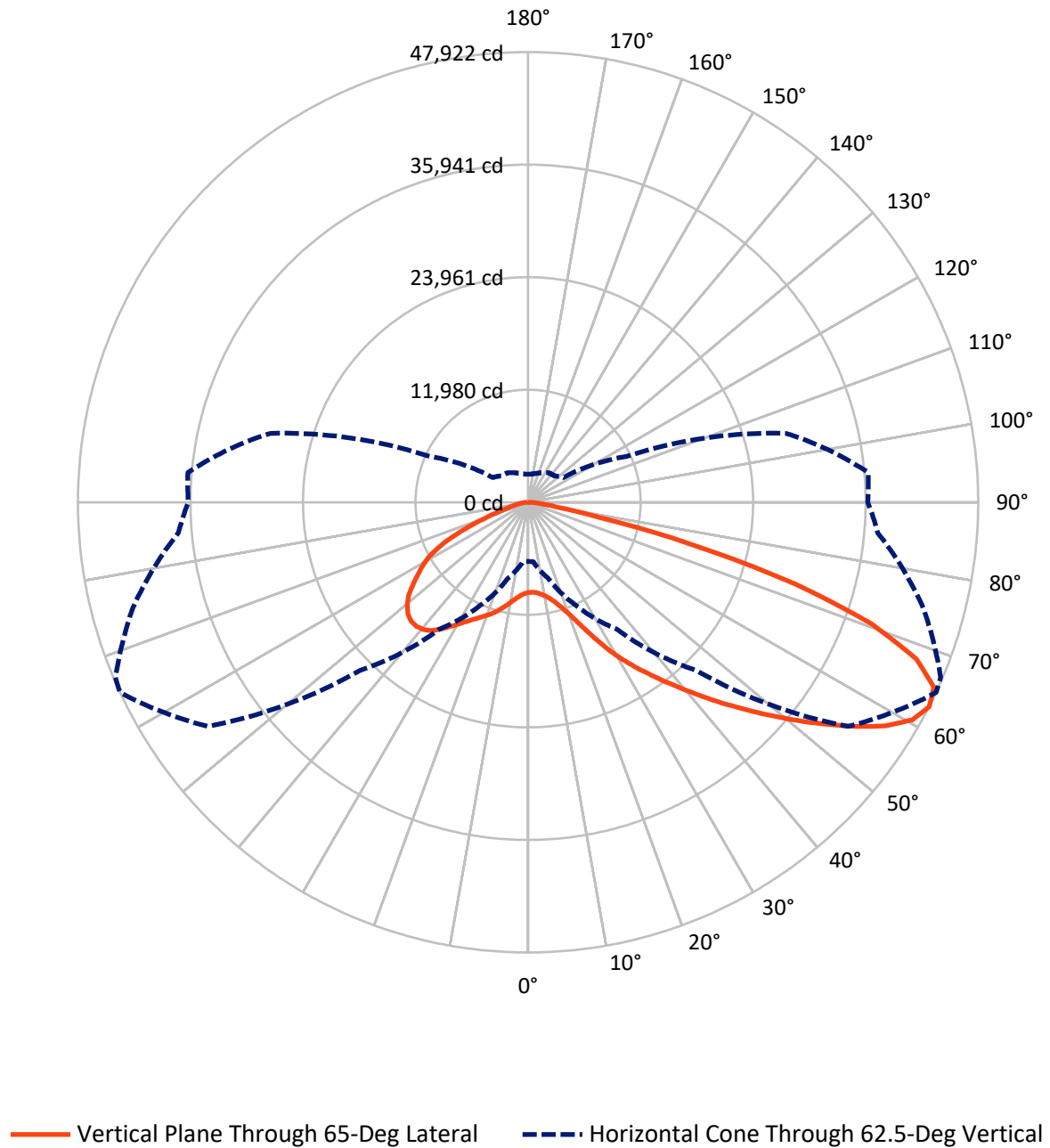


Based on 25 foot mounting height. Maximum calculated value = 24.4 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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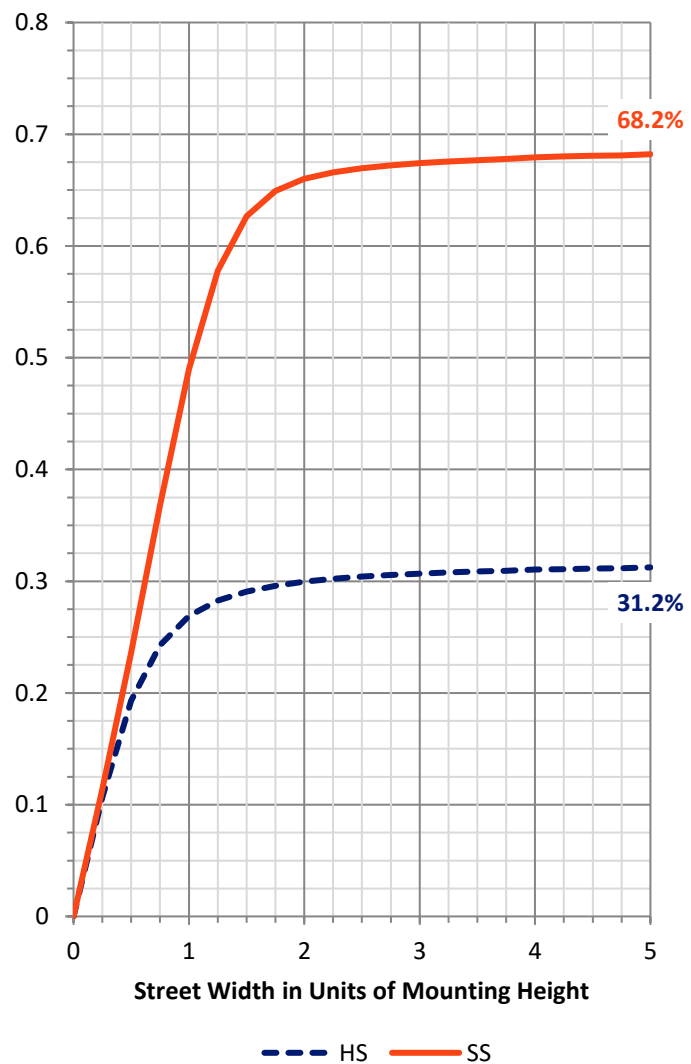
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	27492.2	0.0	27492.2
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	59630.8	0.0	59630.8
	% Fixture	68.4	0.0	68.4
Total	Lumens	87123.0	0.0	87123.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	957.2	1.1
10°-20°	3245.8	3.7
20°-30°	6581.3	7.6
30°-40°	11388.8	13.1
40°-50°	17234.8	19.8
50°-60°	20206.7	23.2
60°-70°	16940.9	19.4
70°-80°	9352.7	10.7
80°-90°	1214.9	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°	87123.0	100.0
0°-180°	87123.0	100.0

Coefficient of Utilization



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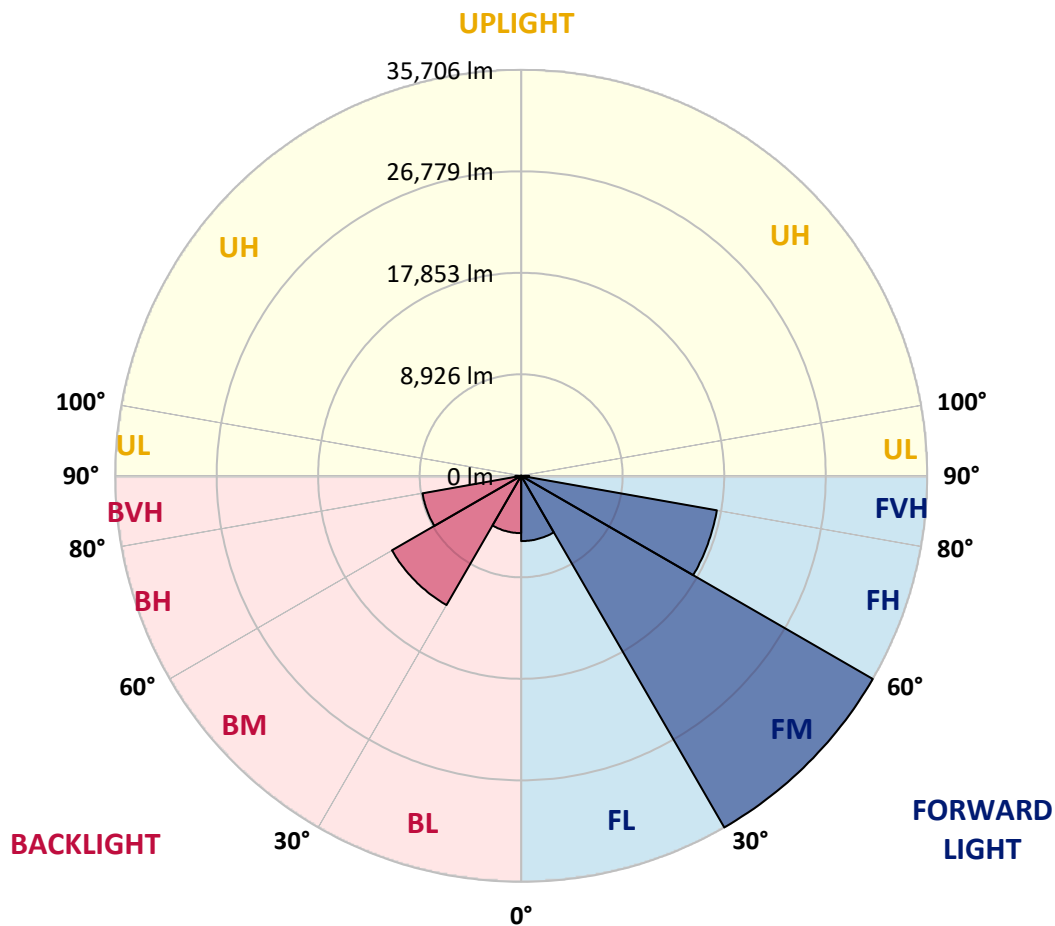
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5742.6	6.6			
FM	(30°-60°)	35705.8	41.0			
FH	(60°-80°)	17474.3	20.1			G5
FVH	(80°-90°)	708.1	0.8			G4/750
BL	(0°-30°)	5041.7	5.8	B5		
BM	(30°-60°)	13124.4	15.1	B5		
BH	(60°-80°)	8819.3	10.1	B5		G5
BVH	(80°-90°)	506.8	0.6			G4/750
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°	9600.6	9600.6	9600.6	9600.6	9600.6	9600.6	9600.6	9600.6	9600.6	9600.6	9600.6
2.5°	9537.3	9510.2	9532.8	9532.8	9541.8	9537.3	9568.9	9578.0	9591.5	9618.7	9618.7
5°	9442.4	9437.9	9478.5	9514.7	9550.9	9582.5	9623.2	9681.9	9691.0	9722.6	9763.3
7.5°	9410.7	9383.6	9446.9	9492.1	9578.0	9654.8	9763.3	9862.7	9903.4	9917.0	9993.8
10°	9654.8	9609.6	9668.4	9695.5	9767.8	9844.7	9971.2	10129.4	10174.6	10228.9	10314.7
12.5°	10070.7	10020.9	10106.8	10147.5	10215.3	10283.1	10369.0	10522.7	10545.3	10644.7	10726.1
15°	10640.2	10581.4	10635.7	10685.4	10798.4	10861.7	10947.6	11096.7	11096.7	11173.6	11232.3
17.5°	11413.1	11336.3	11377.0	11395.0	11467.4	11562.3	11706.9	11838.0	11905.8	11878.7	11797.3
20°	12565.7	12470.8	12470.8	12380.4	12353.3	12430.1	12620.0	12800.8	12873.1	12733.0	12534.1
22.5°	14296.9	14161.3	14084.5	13777.1	13655.1	13664.1	13853.9	14075.4	14134.2	13885.6	13438.1
25°	16498.2	16285.7	16181.8	15729.8	15454.0	15214.5	15363.6	15648.4	15729.8	15422.4	14699.2
27.5°	18699.4	18713.0	18613.5	18071.1	17614.6	17176.2	17099.3	17397.7	17483.5	17135.5	16240.5
30°	21786.6	21465.7	21275.9	20625.0	19974.1	19359.4	19043.0	19165.0	19187.6	18771.7	17732.1
32.5°	24448.9	24367.6	23960.8	23391.2	22555.0	21592.3	21063.4	20869.1	20832.9	20240.8	19006.8
35°	27481.9	27436.7	27007.3	26329.3	25425.3	24087.3	23133.6	22577.6	22532.4	21700.7	20267.9
37.5°	30564.5	30564.5	30144.2	29402.9	28467.2	26794.8	25343.9	24462.5	24317.8	23233.0	21551.6
40°	33023.5	32874.3	32951.1	32639.2	31568.0	29791.6	27798.3	26519.1	26324.7	25023.0	22916.6
42.5°	34420.1	34370.4	34831.5	35179.5	34741.1	33321.8	30501.3	28747.5	28476.3	26993.7	24489.6
45°	34732.0	34677.8	35500.4	36775.1	37389.8	36806.7	33439.3	31093.4	30763.4	29054.9	26175.6
47.5°	34013.3	33904.9	35111.7	37123.1	39093.9	40119.9	36621.4	33638.2	33159.1	31061.8	27906.8
50°	31852.8	31748.8	33574.9	36246.2	39667.9	42370.9	40074.7	36336.6	35604.4	33213.3	29656.0
52.5°	27156.4	27206.2	30067.3	33737.6	38913.1	43772.1	43048.9	39179.8	38298.3	35414.6	31296.8
55°	21153.8	21262.3	24778.9	28819.8	35893.7	43559.7	45078.4	42108.7	41231.9	37484.7	32991.8
57.5°	15146.7	15625.8	18920.9	22921.2	30094.5	40192.2	45521.4	44893.1	44043.3	39744.8	34650.7
60°	9817.5	9903.4	13293.5	17325.3	22916.6	34207.7	44621.9	47004.0	46339.5	42050.0	36038.3
62.5°	6291.9	6350.7	8416.3	12118.2	16493.6	25307.7	41593.5	47921.5	47718.1	43573.2	37371.7
65°	4624.0	4578.8	5654.6	8009.5	11110.3	15607.7	35712.9	47478.6	47880.8	44527.0	38474.6
67.5°	3860.1	3796.8	4325.7	5546.1	8185.8	8863.8	26424.2	44599.3	46072.8	44418.5	39283.7
70°	3516.6	3462.4	3783.3	4117.8	6386.8	5934.8	13320.6	38773.0	41042.0	43184.5	39152.6
72.5°	2978.7	2883.8	3322.2	3656.7	4967.5	4551.7	5505.4	29782.6	32548.8	39229.5	37308.5
75°	2309.7	2246.5	2621.6	3218.3	3733.6	3552.8	3480.4	18084.7	21104.1	30338.5	32639.2
77.5°	1830.6	1744.7	2088.3	2508.6	3358.4	2680.4	2535.7	7788.0	10780.3	19368.4	24421.8
80°	1378.6	1301.8	1586.5	1984.3	2580.9	2020.5	1640.8	3177.6	4063.5	9813.0	12281.0
82.5°	980.8	913.0	1107.4	1455.5	1735.7	1812.5	1008.0	1780.9	2002.4	3783.3	2743.7
85°	628.3	587.6	741.3	913.0	1102.9	1166.2	614.7	931.1	1021.5	1559.4	1143.6
87.5°	343.5	280.2	397.8	424.9	510.8	465.6	293.8	339.0	366.1	565.0	483.6
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°	9600.6	9600.6	9600.6	9600.6	9600.6	9600.6	9600.6	9600.6	9600.6	9600.6	9600.6
2.5°	9636.7	9650.3	9695.5	9709.1	9740.7	9781.4	9808.5	9835.6	9835.6	9862.7	9862.7
5°	9767.8	9799.5	9894.4	9944.1	10025.5	10106.8	10156.5	10215.3	10251.5	10269.5	10278.6
7.5°	10020.9	10070.7	10206.3	10292.1	10432.3	10545.3	10622.1	10703.5	10721.5	10771.3	10753.2
10°	10364.5	10423.2	10576.9	10739.6	10906.9	11047.0	11119.3	11178.1	11200.7	11209.7	11187.1
12.5°	10757.7	10843.6	11042.5	11241.4	11417.6	11539.7	11557.8	11544.2	11480.9	11426.7	11426.7
15°	11241.4	11318.2	11539.7	11756.6	11928.4	11951.0	11838.0	11765.7	11688.8	11675.3	11675.3
17.5°	11819.9	11860.6	12064.0	12276.4	12290.0	12213.2	12045.9	11978.1	11905.8	11856.1	11860.6
20°	12493.4	12479.8	12624.5	12714.9	12620.0	12384.9	12131.8	12018.8	11946.5	11887.7	11892.2
22.5°	13298.0	13194.0	13175.9	13153.3	12900.2	12407.5	12064.0	11919.4	11806.4	11725.0	11752.1
25°	14468.7	14070.9	13795.2	13641.5	13072.0	12285.5	11847.0	11526.1	11313.7	11173.6	11227.8
27.5°	15933.2	15264.2	14568.1	14192.9	13072.0	12036.9	11322.7	10802.9	10454.9	10310.2	10382.5
30°	17329.9	16629.2	15603.2	14857.4	13040.3	11630.1	10477.5	9754.3	9347.5	9202.8	9288.7
32.5°	18523.1	17759.3	16701.6	15585.1	12963.5	10970.2	9428.8	8628.8	8235.5	8063.8	8149.6
35°	19630.6	18816.9	17804.5	16385.2	12760.1	10002.9	8276.2	7666.0	7227.6	6951.8	7042.2
37.5°	20765.1	19797.8	18848.6	17108.4	12394.0	8872.8	7390.3	6870.5	6355.2	5984.5	6084.0
40°	21999.1	20841.9	19965.0	17537.8	11792.8	7797.1	6703.2	6228.6	5681.7	5288.5	5365.3
42.5°	23441.0	22094.0	21208.1	17759.3	10970.2	7033.2	6255.7	5790.2	5274.9	4954.0	5017.3
45°	24946.1	23472.6	22342.6	17754.7	10052.6	6676.1	6111.1	5650.1	5080.5	4746.0	4800.3
47.5°	26523.6	24914.5	23323.4	17465.5	9257.1	6725.8	6029.7	5347.2	4718.9	4393.5	4438.7
50°	28105.6	26492.0	24272.6	16923.1	8918.0	6617.3	5726.9	4922.3	4181.0	3887.2	3905.3
52.5°	29674.1	28168.9	25090.8	16150.1	8574.5	6215.1	5338.2	4370.9	3959.6	3756.2	3756.2
55°	31251.6	29827.8	25981.2	15024.6	7715.7	5745.0	4687.3	4163.0	3783.3	3598.0	3579.9
57.5°	32833.6	31744.3	26826.5	13899.1	6635.4	5166.4	4330.2	3909.8	3607.0	3448.8	3421.7
60°	34478.9	33936.5	27698.8	12864.0	5568.7	4425.1	4068.0	3706.4	3399.1	3222.8	3209.2
62.5°	36173.9	36350.2	28381.4	11530.6	4587.8	3973.1	3833.0	3462.4	3164.0	2996.8	2992.3
65°	37882.5	38678.0	28828.9	9681.9	3720.0	3543.7	3579.9	3195.7	2892.8	2748.2	2743.7
67.5°	39170.7	40355.0	28702.3	7327.0	3051.0	3136.9	3263.5	2915.4	2630.7	2517.7	2522.2
70°	39315.4	40156.1	27454.8	5017.3	2553.8	2739.1	2910.9	2639.7	2345.9	2264.5	2269.1
72.5°	37389.8	37444.1	23978.8	3277.0	2160.6	2404.7	2540.3	2359.5	2074.7	1993.3	1988.8
75°	32340.9	30966.8	17605.6	2160.6	1808.0	2065.7	2192.2	2065.7	1789.9	1808.0	1744.7
77.5°	24503.2	21931.3	10689.9	1536.8	1509.7	1735.7	1907.5	1817.1	1582.0	1776.4	1563.9
80°	12624.5	11865.1	4768.6	1148.1	1193.3	1387.7	1568.5	1450.9	1252.1	1193.3	1089.3
82.5°	2892.8	3362.9	1880.3	822.6	863.3	998.9	1197.8	1089.3	899.5	759.4	750.3
85°	1012.5	1107.4	831.7	515.3	506.2	623.8	813.6	727.7	610.2	488.2	515.3
87.5°	320.9	420.4	311.9	207.9	217.0	280.2	375.2	343.5	284.8	185.3	194.4
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)