

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: P954527

Luminaire Tested: **GALN-SB7D-730-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954527
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-SB7D-730-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 73338 lumens
Efficiency: N/A
Efficacy: 143.0 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): 512.8
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



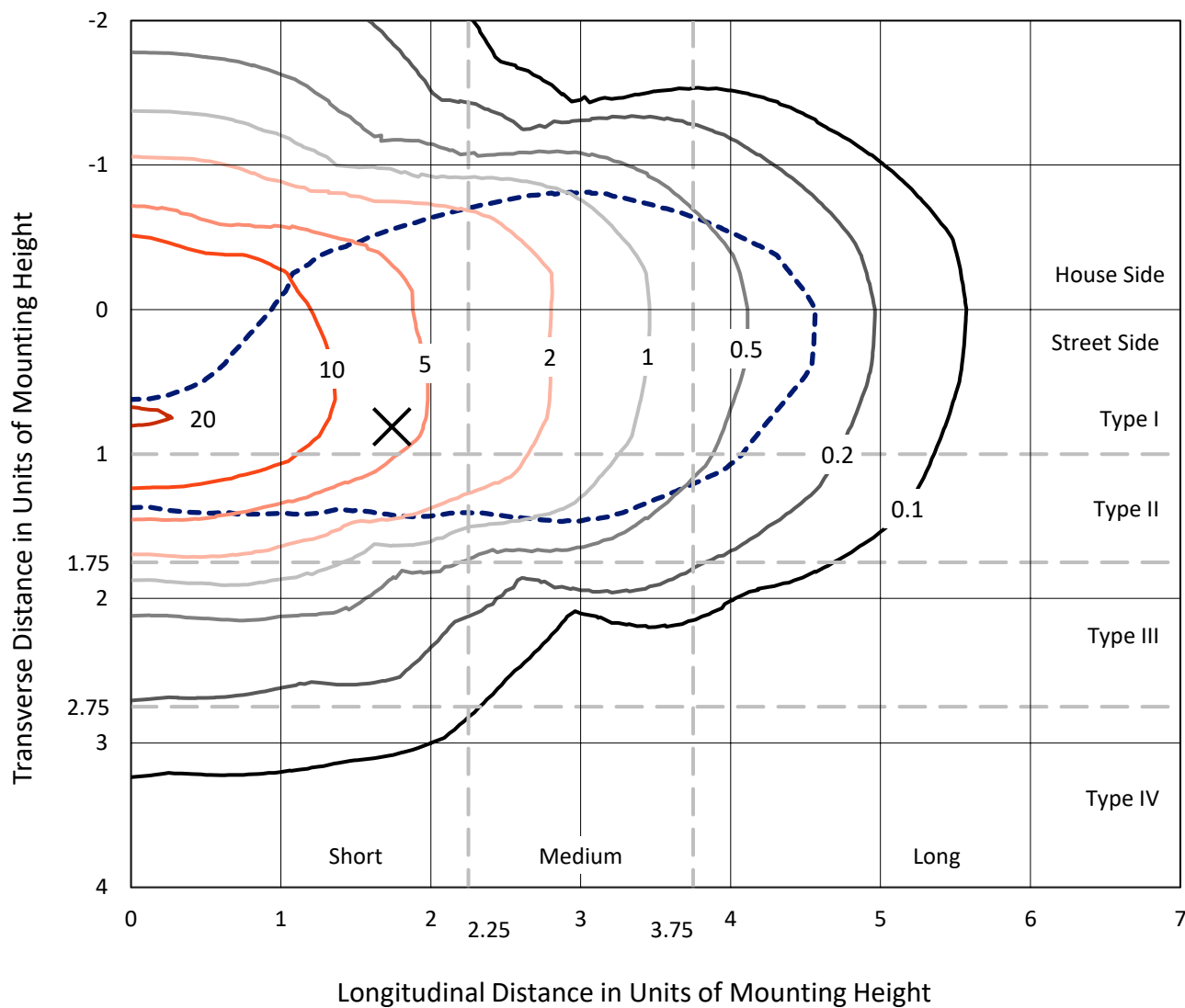
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

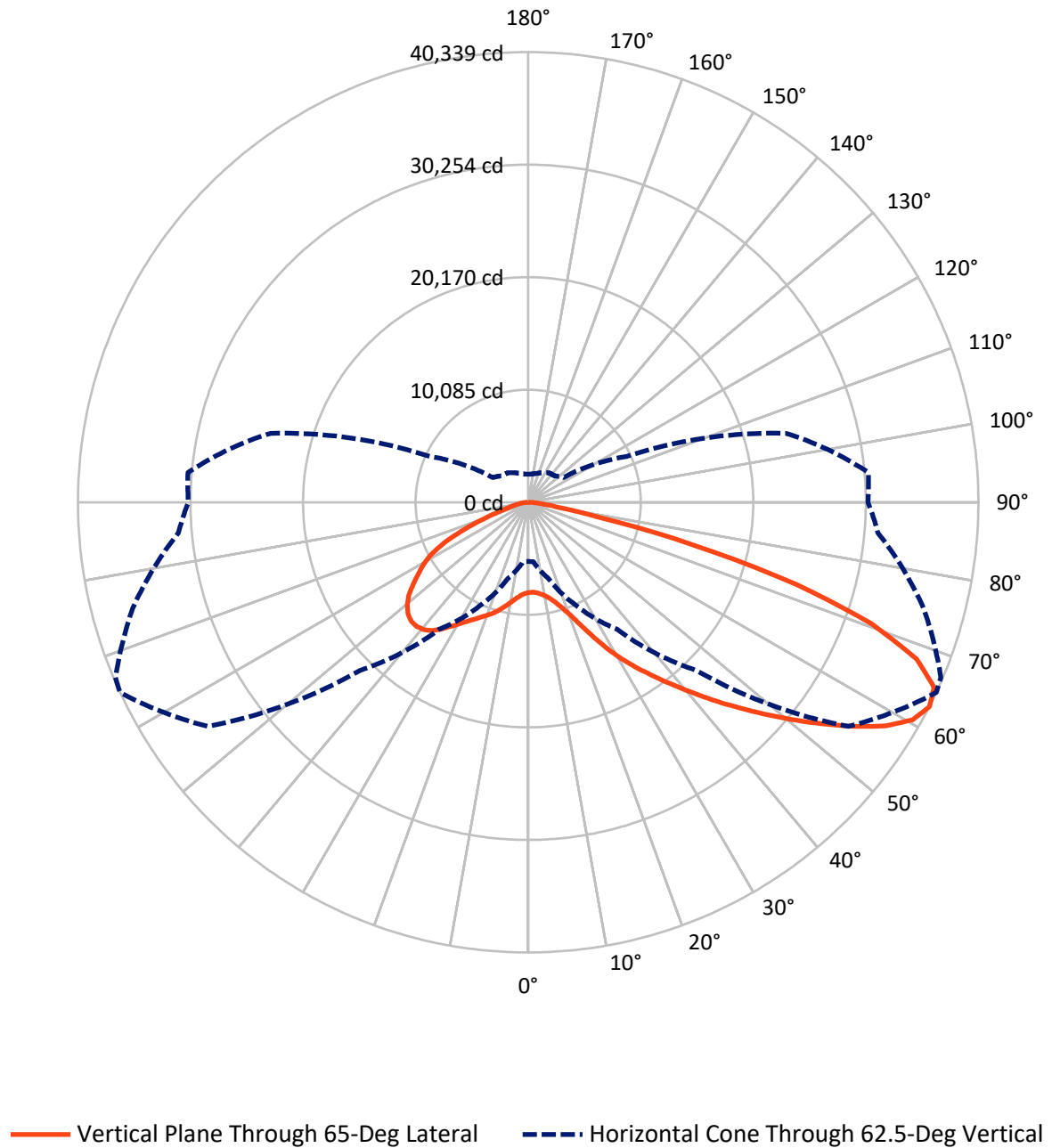


Based on 25 foot mounting height. Maximum calculated value = 20.5 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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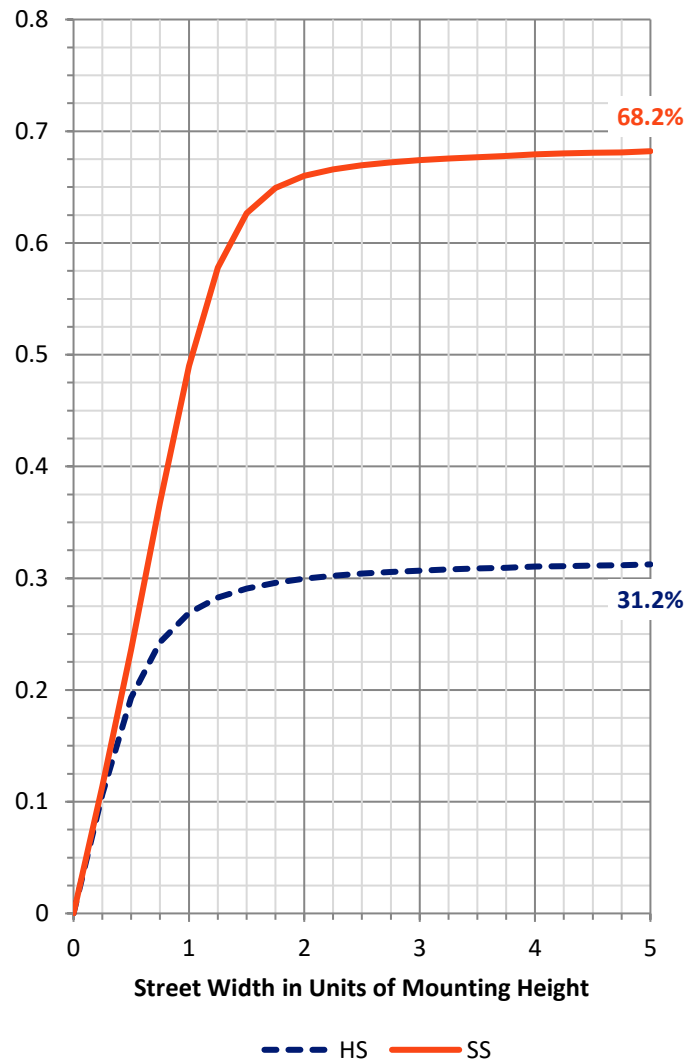
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	23142.3	0.0	23142.3
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	50195.7	0.0	50195.7
	% Fixture	68.4	0.0	68.4
Total	Lumens	73338.0	0.0	73338.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	805.7	1.1
10°-20°	2732.3	3.7
20°-30°	5540.0	7.6
30°-40°	9586.8	13.1
40°-50°	14507.8	19.8
50°-60°	17009.5	23.2
60°-70°	14260.4	19.4
70°-80°	7872.9	10.7
80°-90°	1022.7	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°	73338.0	100.0
0°-180°	73338.0	100.0

Coefficient of Utilization



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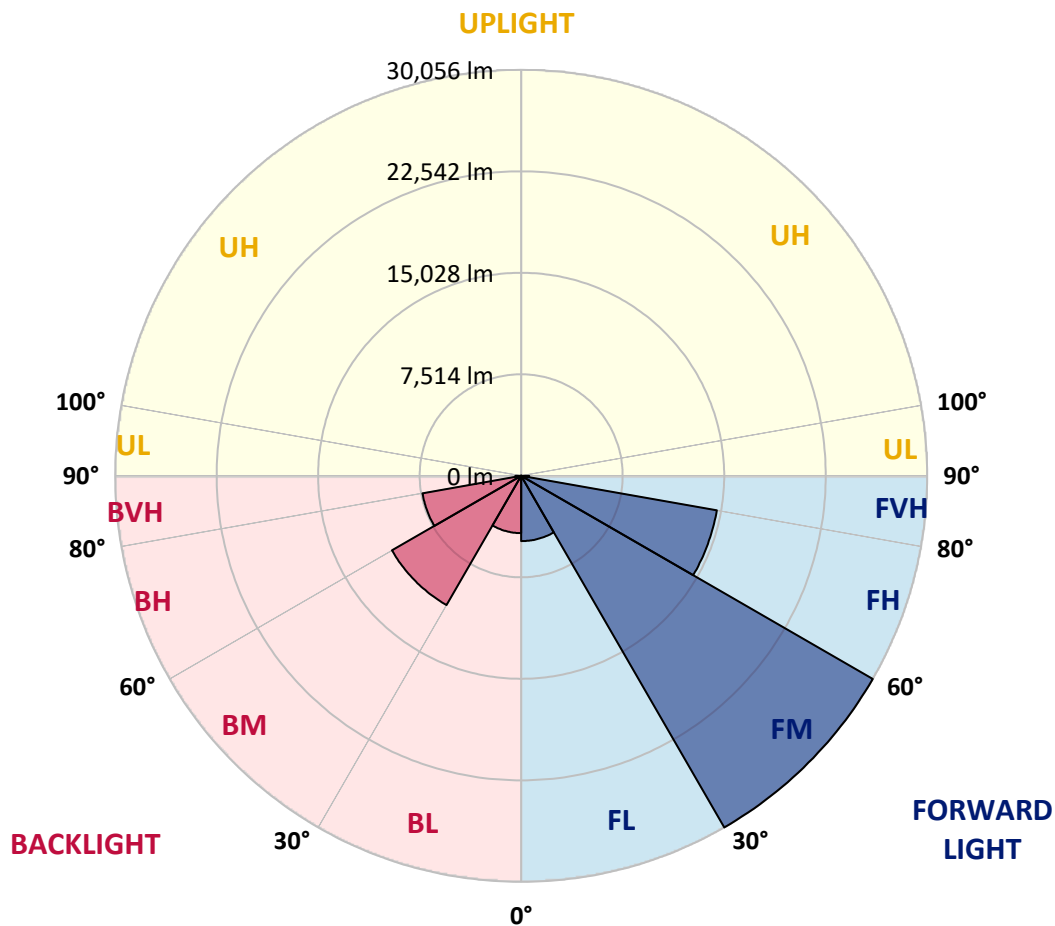
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4833.9	6.6			
FM	(30°-60°)	30056.3	41.0			
FH	(60°-80°)	14709.4	20.1			G5
FVH	(80°-90°)	596.0	0.8			G4/750
BL	(0°-30°)	4244.0	5.8	B4/5000		
BM	(30°-60°)	11047.8	15.1	B5		
BH	(60°-80°)	7423.8	10.1	B5		G5
BVH	(80°-90°)	426.6	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°	8081.5	8081.5	8081.5	8081.5	8081.5	8081.5	8081.5	8081.5	8081.5	8081.5	8081.5
2.5°	8028.3	8005.4	8024.5	8024.5	8032.1	8028.3	8054.9	8062.5	8073.9	8096.7	8096.7
5°	7948.4	7944.6	7978.8	8009.2	8039.7	8066.3	8100.6	8150.0	8157.6	8184.3	8218.5
7.5°	7921.7	7898.9	7952.2	7990.2	8062.5	8127.2	8218.5	8302.2	8336.5	8347.9	8412.6
10°	8127.2	8089.1	8138.6	8161.4	8222.3	8287.0	8393.5	8526.7	8564.7	8610.4	8682.7
12.5°	8477.2	8435.4	8507.7	8541.9	8599.0	8656.1	8728.4	8857.7	8876.7	8960.5	9028.9
15°	8956.6	8907.2	8952.8	8994.7	9089.8	9143.1	9215.4	9340.9	9340.9	9405.6	9455.1
17.5°	9607.3	9542.6	9576.8	9592.1	9652.9	9732.8	9854.6	9964.9	10022.0	9999.2	9930.7
20°	10577.5	10497.6	10497.6	10421.5	10398.7	10463.4	10623.2	10775.4	10836.3	10718.3	10550.9
22.5°	12034.8	11920.6	11856.0	11597.2	11494.5	11502.1	11661.9	11848.3	11897.8	11688.5	11311.9
25°	13887.8	13708.9	13621.4	13240.9	13008.8	12807.2	12932.7	13172.4	13240.9	12982.2	12373.4
27.5°	15740.7	15752.1	15668.4	15211.8	14827.6	14458.5	14393.8	14644.9	14717.2	14424.2	13670.9
30°	18339.4	18069.3	17909.5	17361.6	16813.7	16296.2	16029.9	16132.6	16151.6	15801.6	14926.5
32.5°	20580.5	20512.0	20169.6	19690.2	18986.3	18175.8	17730.7	17567.1	17536.6	17038.2	15999.5
35°	23133.6	23095.5	22734.1	22163.3	21402.4	20276.1	19473.3	19005.3	18967.2	18267.1	17061.0
37.5°	25728.5	25728.5	25374.6	24750.6	23963.0	22555.2	21333.9	20591.9	20470.2	19557.0	18141.6
40°	27798.3	27672.8	27737.5	27474.9	26573.2	25077.9	23399.9	22323.1	22159.5	21063.7	19290.7
42.5°	28974.0	28932.2	29320.3	29613.3	29244.2	28049.5	25675.2	24198.9	23970.6	22722.6	20614.7
45°	29236.6	29190.9	29883.4	30956.4	31473.8	30983.0	28148.4	26173.7	25895.9	24457.7	22034.0
47.5°	28631.6	28540.3	29556.2	31249.3	32908.3	33772.0	30827.0	28315.8	27912.5	26147.0	23491.2
50°	26812.9	26725.4	28262.5	30511.2	33391.5	35666.8	33733.9	30587.3	29970.9	27958.1	24963.7
52.5°	22859.6	22901.5	25310.0	28399.5	32756.1	36846.3	36237.5	32980.6	32238.6	29811.1	26344.9
55°	17806.8	17898.1	20858.3	24259.8	30214.4	36667.5	37945.9	35446.1	34708.0	31553.7	27771.7
57.5°	12750.1	13153.4	15927.2	19294.5	25332.8	33832.8	38318.8	37789.9	37074.6	33456.2	29168.1
60°	8264.2	8336.5	11190.1	14584.0	19290.7	28795.2	37561.6	39566.8	39007.5	35396.6	30336.2
62.5°	5296.4	5345.8	7084.7	10200.8	13883.9	21303.4	35012.4	40339.2	40167.9	36678.9	31458.6
65°	3892.4	3854.3	4759.9	6742.2	9352.4	13138.2	30062.2	39966.3	40304.9	37481.7	32387.0
67.5°	3249.4	3196.1	3641.3	4668.6	6890.6	7461.3	22243.2	37542.6	38783.0	37390.4	33068.1
70°	2960.2	2914.5	3184.7	3466.2	5376.3	4995.8	11212.9	32638.1	34548.2	36351.7	32957.7
72.5°	2507.4	2427.5	2796.6	3078.1	4181.5	3831.5	4634.3	25070.2	27398.8	33022.4	31405.3
75°	1944.3	1891.0	2206.8	2709.1	3142.8	2990.6	2929.7	15223.3	17764.9	25538.2	27474.9
77.5°	1541.0	1468.7	1757.8	2111.7	2827.0	2256.3	2134.5	6555.8	9074.6	16303.8	20557.7
80°	1160.5	1095.8	1335.5	1670.3	2172.6	1700.8	1381.2	2674.8	3420.6	8260.4	10337.8
82.5°	825.7	768.6	932.2	1225.2	1461.1	1525.8	848.5	1499.1	1685.6	3184.7	2309.6
85°	528.9	494.6	624.0	768.6	928.4	981.7	517.5	783.8	859.9	1312.7	962.6
87.5°	289.2	235.9	334.8	357.7	429.9	391.9	247.3	285.4	308.2	475.6	407.1
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°	8081.5	8081.5	8081.5	8081.5	8081.5	8081.5	8081.5	8081.5	8081.5	8081.5	8081.5
2.5°	8112.0	8123.4	8161.4	8172.8	8199.5	8233.7	8256.6	8279.4	8279.4	8302.2	8302.2
5°	8222.3	8248.9	8328.8	8370.7	8439.2	8507.7	8549.5	8599.0	8629.4	8644.6	8652.3
7.5°	8435.4	8477.2	8591.4	8663.7	8781.6	8876.7	8941.4	9009.9	9025.1	9067.0	9051.8
10°	8724.6	8774.0	8903.4	9040.4	9181.1	9299.1	9360.0	9409.4	9428.5	9436.1	9417.0
12.5°	9055.6	9127.9	9295.3	9462.7	9611.1	9713.8	9729.0	9717.6	9664.4	9618.7	9618.7
15°	9462.7	9527.4	9713.8	9896.4	10041.0	10060.1	9964.9	9904.1	9839.4	9828.0	9828.0
17.5°	9949.7	9984.0	10155.2	10334.0	10345.4	10280.7	10140.0	10082.9	10022.0	9980.2	9984.0
20°	10516.6	10505.2	10627.0	10703.1	10623.2	10425.3	10212.3	10117.1	10056.3	10006.8	10010.6
22.5°	11193.9	11106.4	11091.2	11072.2	10859.1	10444.3	10155.2	10033.4	9938.3	9869.8	9892.6
25°	12179.4	11844.5	11612.4	11483.1	11003.7	10341.6	9972.5	9702.4	9523.6	9405.6	9451.3
27.5°	13412.1	12849.0	12263.1	11947.3	11003.7	10132.4	9531.2	9093.6	8800.6	8678.9	8739.8
30°	14587.8	13998.1	13134.4	12506.6	10977.0	9789.9	8819.7	8210.9	7868.5	7746.7	7819.0
32.5°	15592.3	14949.3	14059.0	13119.2	10912.3	9234.4	7936.9	7263.5	6932.5	6787.9	6860.2
35°	16524.5	15839.6	14987.4	13792.6	10741.1	8420.2	6966.7	6453.0	6084.0	5851.9	5928.0
37.5°	17479.5	16665.3	15866.3	14401.4	10432.9	7468.9	6221.0	5783.4	5349.6	5037.6	5121.3
40°	18518.3	17544.2	16806.1	14762.9	9926.9	6563.4	5642.6	5243.1	4782.7	4451.7	4516.4
42.5°	19732.0	18598.2	17852.4	14949.3	9234.4	5920.4	5265.9	4874.0	4440.3	4170.1	4223.4
45°	20999.0	19758.7	18807.4	14945.5	8462.0	5619.8	5144.2	4756.1	4276.7	3995.1	4040.8
47.5°	22326.9	20972.4	19633.1	14702.0	7792.4	5661.6	5075.7	4501.2	3972.3	3698.3	3736.4
50°	23658.6	22300.3	20432.1	14245.4	7507.0	5570.3	4820.8	4143.5	3519.5	3272.2	3287.4
52.5°	24978.9	23711.9	21120.8	13594.8	7217.8	5231.7	4493.5	3679.3	3333.1	3161.8	3161.8
55°	26306.8	25108.3	21870.4	12647.4	6494.9	4836.0	3945.6	3504.3	3184.7	3028.7	3013.5
57.5°	27638.5	26721.6	22581.9	11700.0	5585.5	4349.0	3645.1	3291.2	3036.3	2903.1	2880.3
60°	29023.5	28566.9	23316.2	10828.6	4687.6	3725.0	3424.4	3120.0	2861.3	2712.9	2701.5
62.5°	30450.3	30598.7	23890.7	9706.2	3861.9	3344.5	3226.5	2914.5	2663.4	2522.6	2518.8
65°	31888.6	32558.2	24267.4	8150.0	3131.4	2983.0	3013.5	2690.0	2435.1	2313.4	2309.6
67.5°	32972.9	33969.8	24160.9	6167.7	2568.3	2640.6	2747.1	2454.1	2214.4	2119.3	2123.1
70°	33094.7	33802.4	23110.7	4223.4	2149.7	2305.7	2450.3	2222.0	1974.7	1906.2	1910.0
72.5°	31473.8	31519.5	20184.8	2758.5	1818.7	2024.2	2138.3	1986.1	1746.4	1677.9	1674.1
75°	27223.8	26067.1	14819.9	1818.7	1521.9	1738.8	1845.4	1738.8	1506.7	1521.9	1468.7
77.5°	20626.2	18461.2	8998.5	1293.7	1270.8	1461.1	1605.7	1529.6	1331.7	1495.3	1316.5
80°	10627.0	9987.8	4014.1	966.4	1004.5	1168.1	1320.3	1221.4	1053.9	1004.5	917.0
82.5°	2435.1	2830.8	1582.8	692.5	726.7	840.9	1008.3	917.0	757.2	639.2	631.6
85°	852.3	932.2	700.1	433.8	426.1	525.1	684.9	612.6	513.7	410.9	433.8
87.5°	270.1	353.9	262.5	175.0	182.6	235.9	315.8	289.2	239.7	156.0	163.6
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)