

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: P953477

Luminaire Tested: **GALN-SB7A-735-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953477
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-SB7A-735-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32329 lumens
Efficiency: N/A
Efficacy: 162.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

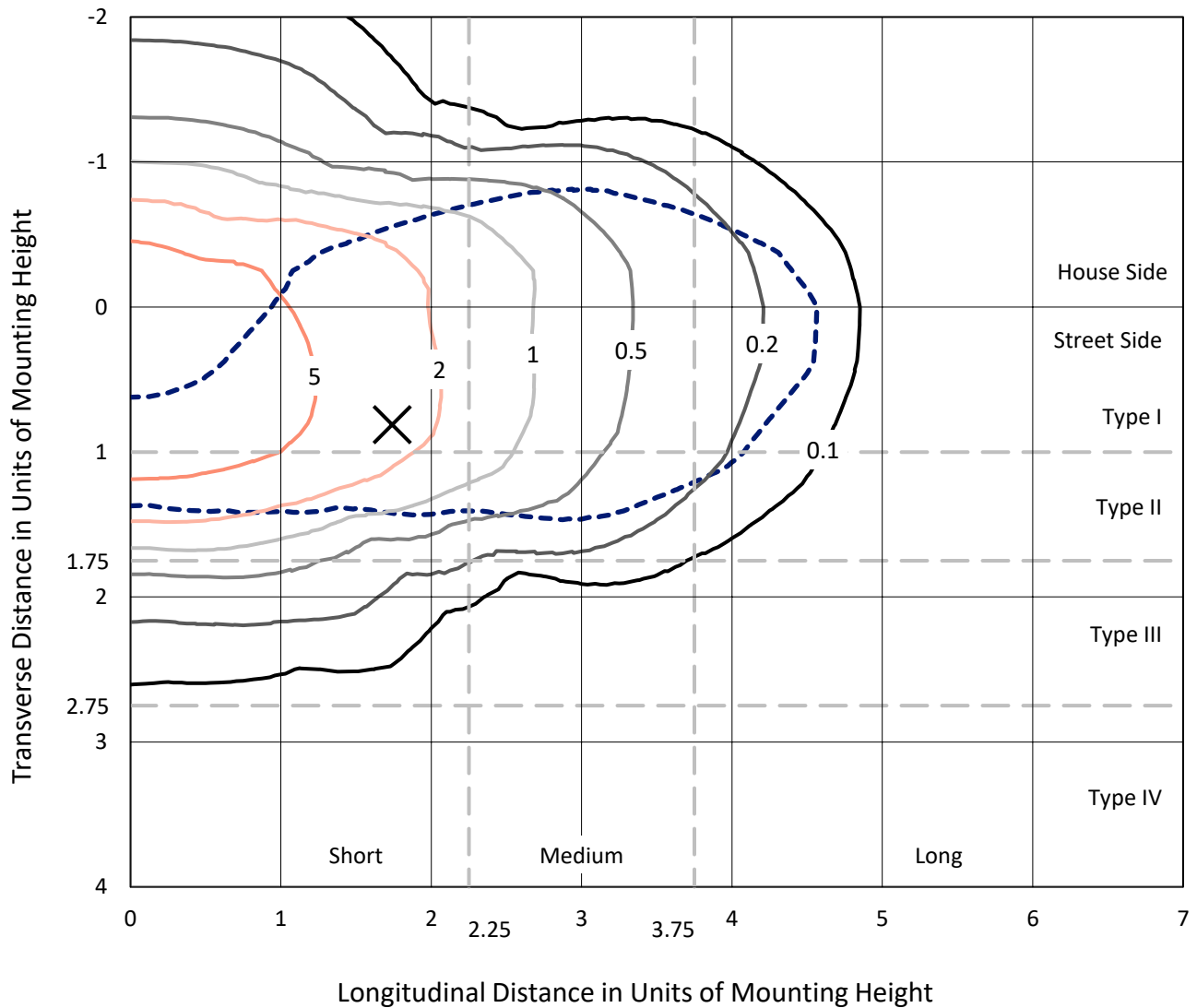
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

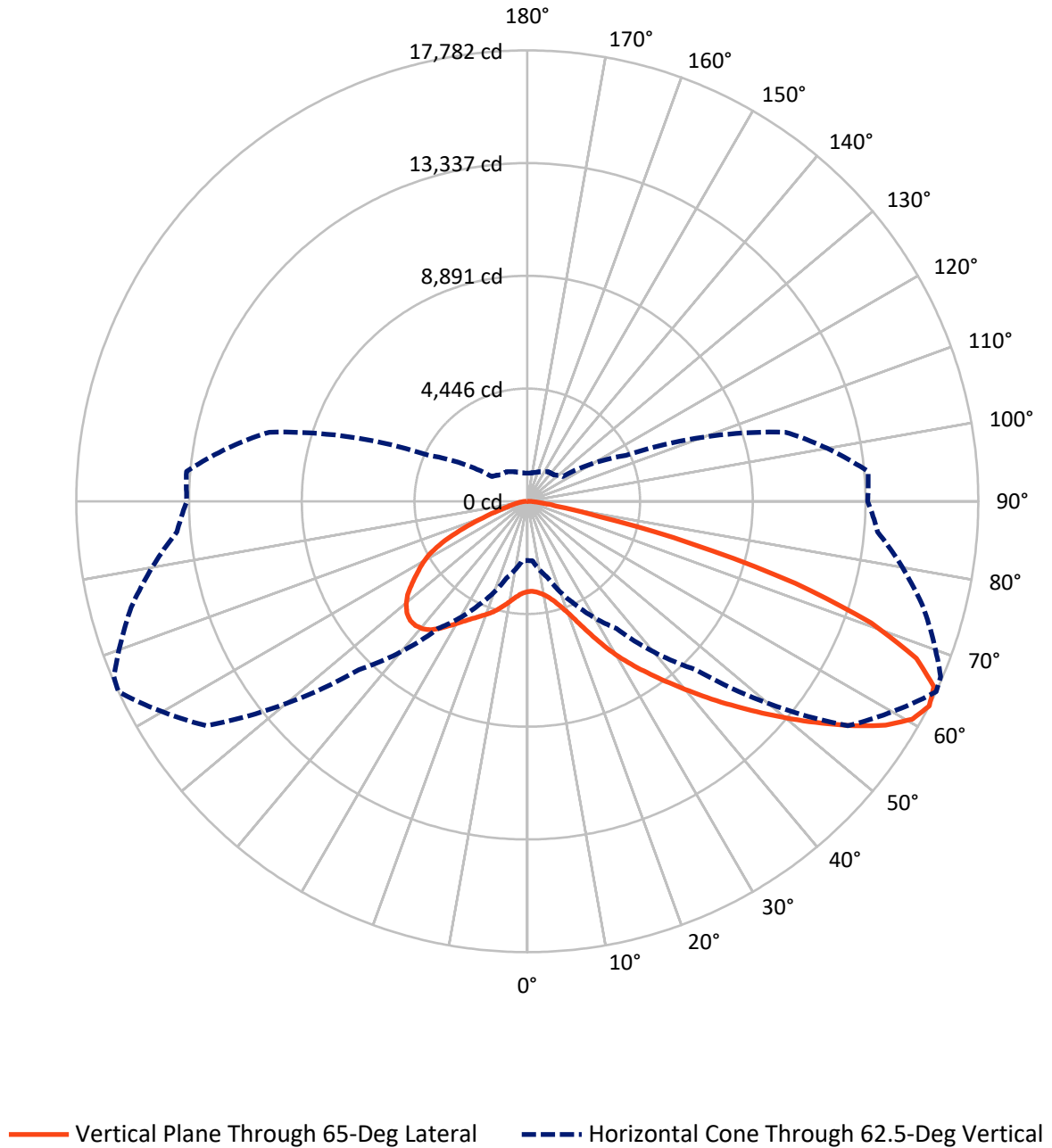
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 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	10201.6	0.0	10201.6
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	22127.4	0.0	22127.4
	% Fixture	68.4	0.0	68.4
Total	Lumens	32329.0	0.0	32329.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	355.2	1.1
10°-20°	1204.4	3.7
20°-30°	2442.1	7.6
30°-40°	4226.1	13.1
40°-50°	6395.4	19.8
50°-60°	7498.2	23.2
60°-70°	6286.3	19.4
70°-80°	3470.5	10.7
80°-90°	450.8	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°	32329.0	100.0
0°-180°	32329.0	100.0



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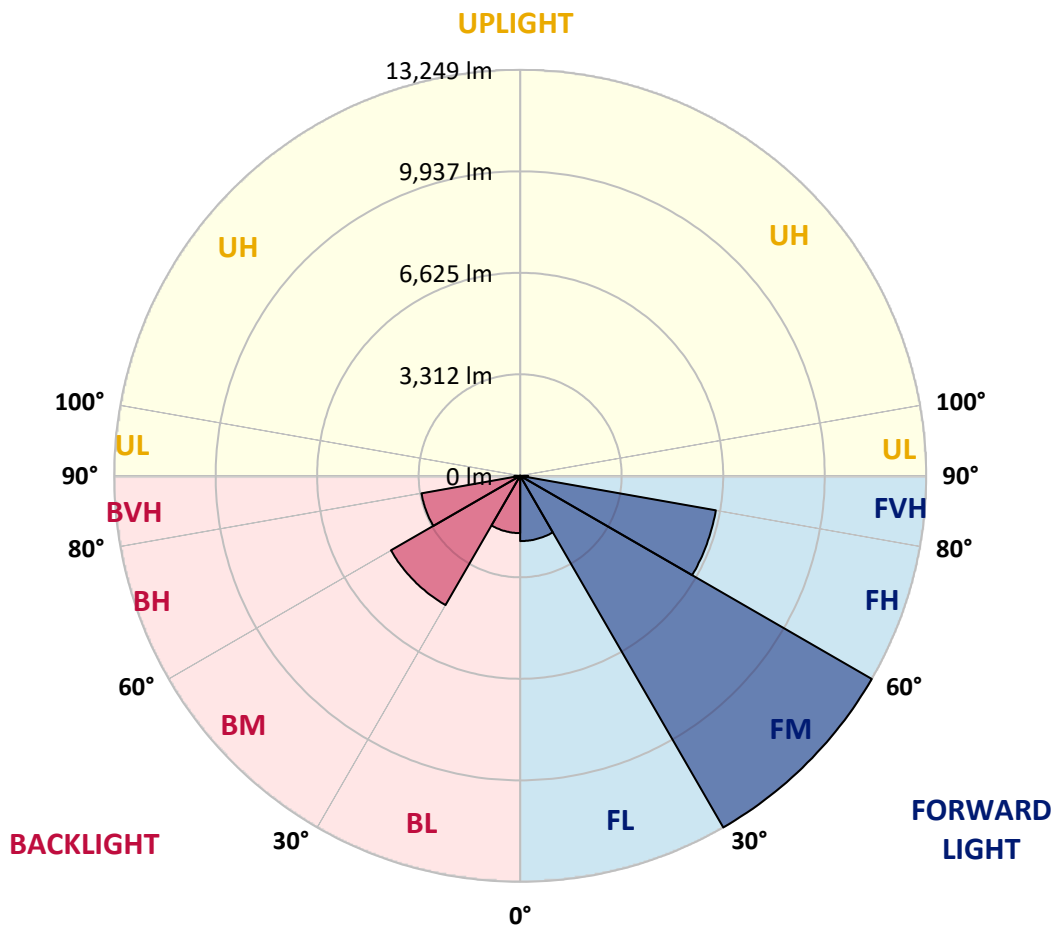
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2130.9	6.6			
FM (30°-60°)	13249.5	41.0			
FH (60°-80°)	6484.2	20.1			G3/7500
FVH (80°-90°)	262.7	0.8			G3/500
BL (0°-30°)	1870.9	5.8	B3/2500		
BM (30°-60°)	4870.1	15.1	B3/5000		
BH (60°-80°)	3272.6	10.1	B4/5000		G4/5000
BVH (80°-90°)	188.1	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	3562.5	3562.5	3562.5	3562.5	3562.5	3562.5	3562.5	3562.5	3562.5	3562.5
2.5°	3539.0	3529.0	3537.4	3537.4	3540.7	3539.0	3550.8	3554.1	3559.2	3569.2
5°	3503.8	3502.1	3517.2	3530.6	3544.1	3555.8	3570.9	3592.7	3596.1	3607.8
7.5°	3492.1	3482.0	3505.5	3522.3	3554.1	3582.6	3622.9	3659.8	3674.9	3679.9
10°	3582.6	3565.9	3587.7	3597.7	3624.6	3653.1	3700.1	3758.8	3775.5	3795.7
12.5°	3737.0	3718.5	3750.4	3765.5	3790.6	3815.8	3847.7	3904.7	3913.1	3950.0
15°	3948.3	3926.5	3946.6	3965.1	4007.0	4030.5	4062.3	4117.7	4117.7	4146.2
17.5°	4235.1	4206.6	4221.7	4228.4	4255.2	4290.4	4344.1	4392.8	4417.9	4407.9
20°	4662.8	4627.6	4627.6	4594.0	4584.0	4612.5	4682.9	4750.0	4776.9	4724.9
22.5°	5305.2	5254.9	5226.4	5112.3	5067.0	5070.4	5140.8	5223.0	5244.8	5152.6
25°	6122.0	6043.2	6004.6	5836.9	5734.6	5645.7	5701.0	5806.7	5836.9	5722.8
27.5°	6938.9	6943.9	6907.0	6705.7	6536.3	6373.6	6345.1	6455.8	6487.7	6358.5
30°	8084.4	7965.3	7894.9	7653.4	7411.8	7183.7	7066.3	7111.6	7120.0	6965.7
32.5°	9072.3	9042.1	8891.2	8679.9	8369.6	8012.3	7816.1	7743.9	7730.5	7510.8
35°	10197.8	10181.0	10021.7	9770.1	9434.6	8938.2	8584.3	8377.9	8361.2	8052.6
37.5°	11341.7	11341.7	11185.7	10910.6	10563.4	9942.8	9404.4	9077.4	9023.7	8621.2
40°	12254.1	12198.8	12227.3	12111.5	11714.0	11054.9	10315.2	9840.5	9768.4	9285.4
42.5°	12772.4	12753.9	12925.0	13054.2	12891.5	12364.8	11318.2	10667.4	10566.8	10016.6
45°	12888.1	12868.0	13173.3	13646.2	13874.4	13658.0	12408.4	11537.9	11415.5	10781.5
47.5°	12621.4	12581.2	13029.0	13775.4	14506.7	14887.4	13589.2	12482.2	12304.4	11526.2
50°	11819.7	11781.1	12458.7	13450.0	14719.7	15722.7	14870.7	13483.6	13211.8	12324.6
52.5°	10077.0	10095.5	11157.2	12519.1	14439.6	16242.7	15974.3	14538.6	14211.5	13141.4
55°	7849.6	7889.9	9194.8	10694.3	13319.2	16163.8	16727.4	15625.4	15300.0	13909.6
57.5°	5620.5	5798.3	7021.0	8505.4	11167.2	14914.3	16891.8	16658.6	16343.3	14748.2
60°	3643.0	3674.9	4932.8	6429.0	8503.7	12693.6	16558.0	17441.9	17195.3	15603.6
62.5°	2334.8	2356.6	3123.1	4496.8	6120.3	9391.0	15434.2	17782.4	17706.9	16168.9
65°	1715.8	1699.1	2098.3	2972.1	4122.7	5791.6	13252.1	17618.0	17767.3	16522.8
67.5°	1432.4	1408.9	1605.1	2058.0	3037.5	3289.1	9805.3	16549.6	17096.4	16482.5
70°	1304.9	1284.8	1403.9	1528.0	2370.0	2202.3	4942.9	14387.6	15229.6	16024.6
72.5°	1105.3	1070.1	1232.8	1356.9	1843.3	1689.0	2042.9	11051.5	12078.0	14557.0
75°	857.1	833.6	972.8	1194.2	1385.4	1318.3	1291.5	6710.7	7831.2	11257.8
77.5°	679.3	647.4	774.9	930.9	1246.2	994.6	940.9	2889.9	4000.3	7187.1
80°	511.6	483.1	588.7	736.3	957.7	749.7	608.8	1179.1	1507.9	3641.3
82.5°	364.0	338.8	410.9	540.1	644.1	672.6	374.0	660.8	743.0	1403.9
85°	233.1	218.0	275.1	338.8	409.3	432.7	228.1	345.5	379.1	578.7
87.5°	127.5	104.0	147.6	157.7	189.5	172.8	109.0	125.8	135.9	209.7
90°	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):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3562.5	0°	3562.5	3562.5	3562.5	3562.5	3562.5	3562.5	3562.5	3562.5	3562.5	3562.5
3569.2	2.5°	3575.9	3581.0	3597.7	3602.8	3614.5	3629.6	3639.7	3649.7	3649.7	3659.8
3622.9	5°	3624.6	3636.3	3671.5	3690.0	3720.2	3750.4	3768.8	3790.6	3804.0	3810.8
3708.4	7.5°	3718.5	3737.0	3787.3	3819.1	3871.1	3913.1	3941.6	3971.8	3978.5	3996.9
3827.5	10°	3846.0	3867.8	3924.8	3985.2	4047.2	4099.2	4126.1	4147.9	4156.3	4159.6
3980.2	12.5°	3991.9	4023.8	4097.6	4171.4	4236.8	4282.1	4288.8	4283.7	4260.3	4240.1
4168.0	15°	4171.4	4199.9	4282.1	4362.6	4426.3	4434.7	4392.8	4365.9	4337.4	4332.4
4377.7	17.5°	4386.1	4401.1	4476.6	4555.5	4560.5	4532.0	4469.9	4444.8	4417.9	4399.5
4651.1	20°	4636.0	4630.9	4684.6	4718.2	4682.9	4595.7	4501.8	4459.9	4433.0	4411.2
4986.5	22.5°	4934.5	4895.9	4889.2	4880.8	4786.9	4604.1	4476.6	4423.0	4381.0	4350.8
5454.5	25°	5368.9	5221.3	5119.0	5062.0	4850.7	4558.8	4396.1	4277.0	4198.2	4146.2
6026.4	27.5°	5912.4	5664.1	5405.8	5266.6	4850.7	4466.6	4201.6	4008.7	3879.5	3825.8
6579.9	30°	6430.6	6170.7	5789.9	5513.2	4838.9	4315.6	3887.9	3619.5	3468.6	3414.9
7052.9	32.5°	6873.4	6590.0	6197.5	5783.2	4810.4	4070.7	3498.8	3201.9	3056.0	2992.2
7520.9	35°	7284.4	6982.5	6606.8	6080.1	4734.9	3711.8	3071.1	2844.6	2682.0	2579.6
7997.2	37.5°	7705.4	7346.4	6994.2	6348.5	4599.1	3292.5	2742.3	2549.4	2358.2	2220.7
8503.7	40°	8163.3	7733.9	7408.5	6507.8	4376.0	2893.3	2487.4	2311.3	2108.3	1962.4
9087.4	42.5°	8698.3	8198.5	7869.7	6590.0	4070.7	2609.8	2321.3	2148.6	1957.4	1838.3
9713.1	45°	9256.8	8710.0	8290.7	6588.3	3730.2	2477.3	2267.7	2096.6	1885.2	1761.1
10355.4	47.5°	9842.2	9245.1	8654.7	6481.0	3435.0	2495.8	2237.5	1984.2	1751.1	1630.3
11004.6	50°	10429.2	9830.5	9006.9	6279.7	3309.2	2455.5	2125.1	1826.5	1551.5	1442.4
11613.4	52.5°	11011.3	10452.7	9310.5	5992.9	3181.8	2306.2	1980.9	1621.9	1469.3	1393.8
12242.4	55°	11596.6	11068.3	9640.9	5575.2	2863.1	2131.8	1739.3	1544.8	1403.9	1335.1
12857.9	57.5°	12183.7	11779.4	9954.6	5157.6	2462.2	1917.1	1606.8	1450.8	1338.5	1279.8
13372.9	60°	12794.2	12592.9	10278.3	4773.5	2066.4	1642.0	1509.5	1375.4	1261.3	1195.9
13867.6	62.5°	13423.2	13488.6	10531.6	4278.7	1702.4	1474.3	1422.3	1284.8	1174.1	1112.0
14276.9	65°	14057.2	14352.4	10697.6	3592.7	1380.4	1315.0	1328.4	1185.8	1073.5	1019.8
14577.1	67.5°	14535.2	14974.6	10650.6	2718.9	1132.2	1164.0	1211.0	1081.8	976.2	934.2
14528.5	70°	14588.9	14900.8	10187.7	1861.8	947.7	1016.4	1080.2	979.5	870.5	840.3
13844.2	72.5°	13874.4	13894.5	8897.9	1216.0	801.7	892.3	942.6	875.5	769.9	739.7
12111.5	75°	12000.8	11491.0	6533.0	801.7	670.9	766.5	813.5	766.5	664.2	670.9
9062.3	77.5°	9092.5	8138.1	3966.7	570.3	560.2	644.1	707.8	674.3	587.0	659.2
4557.1	80°	4684.6	4402.8	1769.5	426.0	442.8	514.9	582.0	538.4	464.6	442.8
1018.1	82.5°	1073.5	1247.9	697.7	305.3	320.4	370.7	444.5	404.2	333.8	281.8
424.3	85°	375.7	410.9	308.6	191.2	187.9	231.5	301.9	270.0	226.4	181.1
179.5	87.5°	119.1	156.0	115.7	77.2	80.5	104.0	139.2	127.5	105.7	68.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END O

<u>180°</u>
3562.5
3659.8
3814.1
3990.2
4151.2
4240.1
4332.4
4401.1
4412.9
4360.9
4166.3
3852.7
3446.8
3024.1
2613.2
2257.6
1990.9
1861.8
1781.3
1647.1
1449.2
1393.8
1328.4
1269.7
1190.9
1110.4
1018.1
935.9
842.0
738.0
647.4
580.3
404.2
278.4
191.2
72.1
0.0

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