

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: P956881

Luminaire Tested: **GALN-SB9B-927-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956881
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB9B-927-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32050 lumens
Efficiency: N/A
Efficacy: 97.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

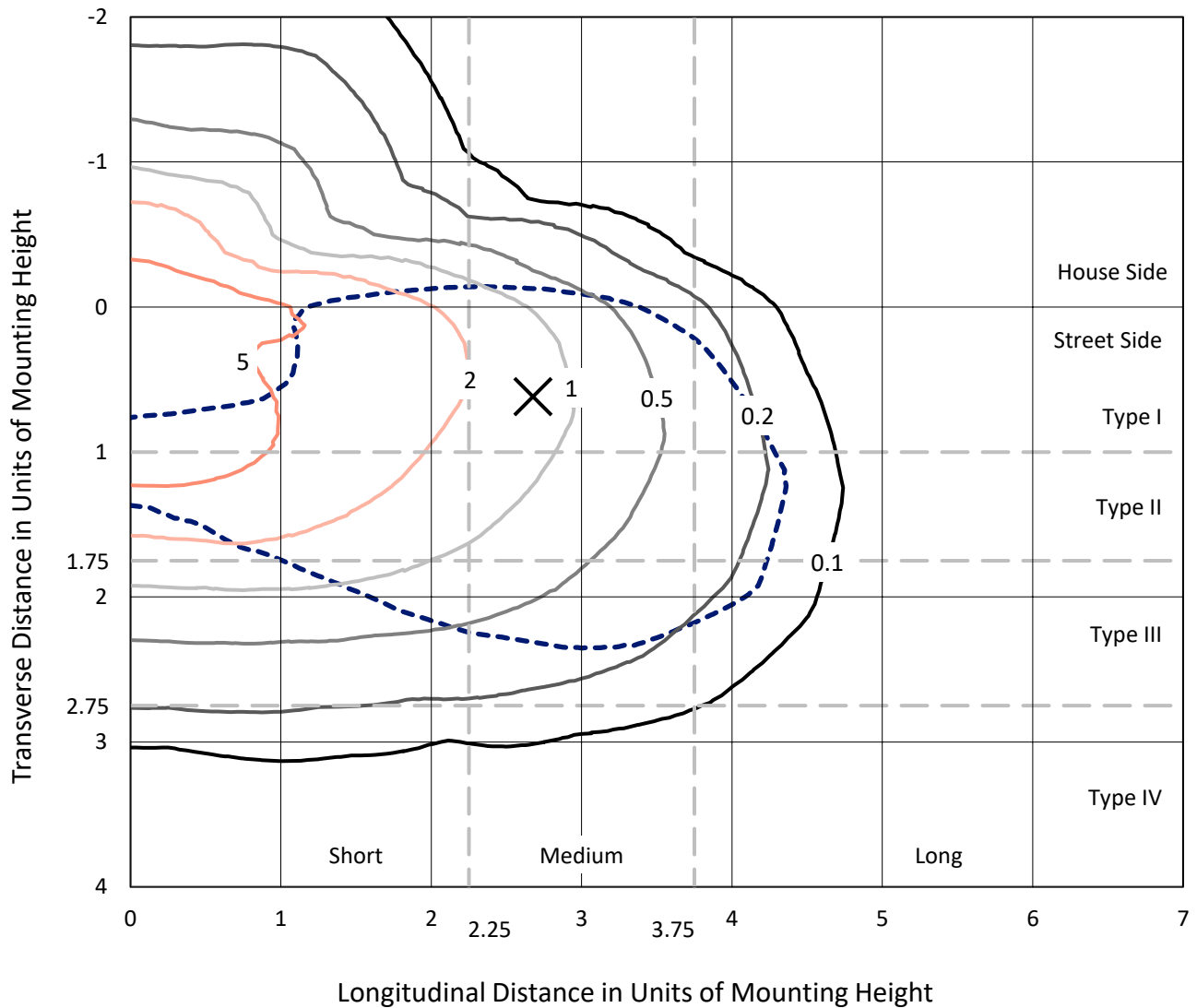
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

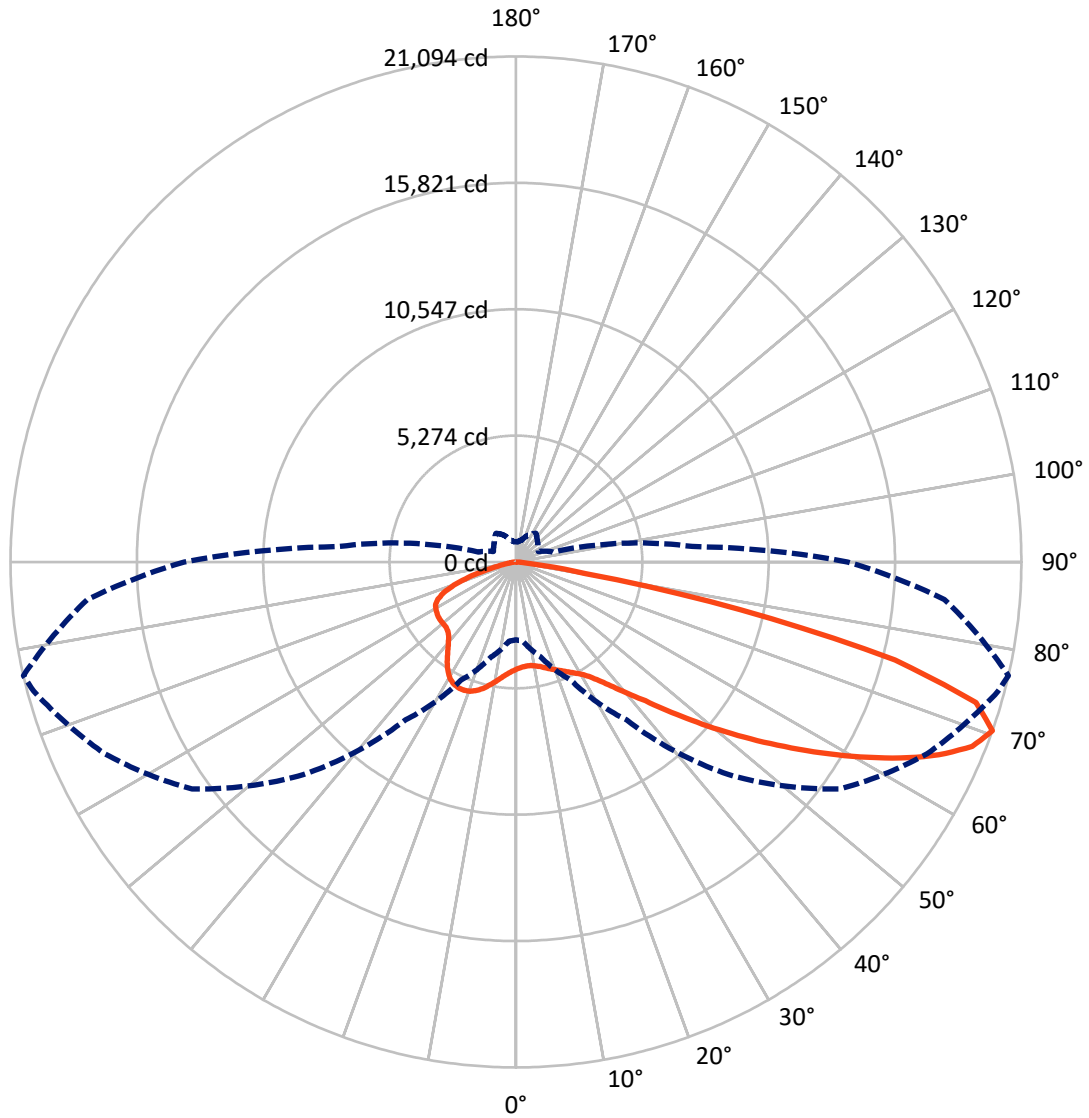
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7018.5	0.0	7018.5
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	25031.6	0.0	25031.6
	% Fixture	78.1	0.0	78.1
Total	Lumens	32050.0	0.0	32050.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	426.4	1.3
10°-20°	1230.7	3.8
20°-30°	2104.7	6.6
30°-40°	3384.6	10.6
40°-50°	5284.3	16.5
50°-60°	7058.6	22.0
60°-70°	7523.4	23.5
70°-80°	4631.3	14.5
80°-90°	405.8	1.3
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°	32050.0	100.0
0°-180°	32050.0	100.0



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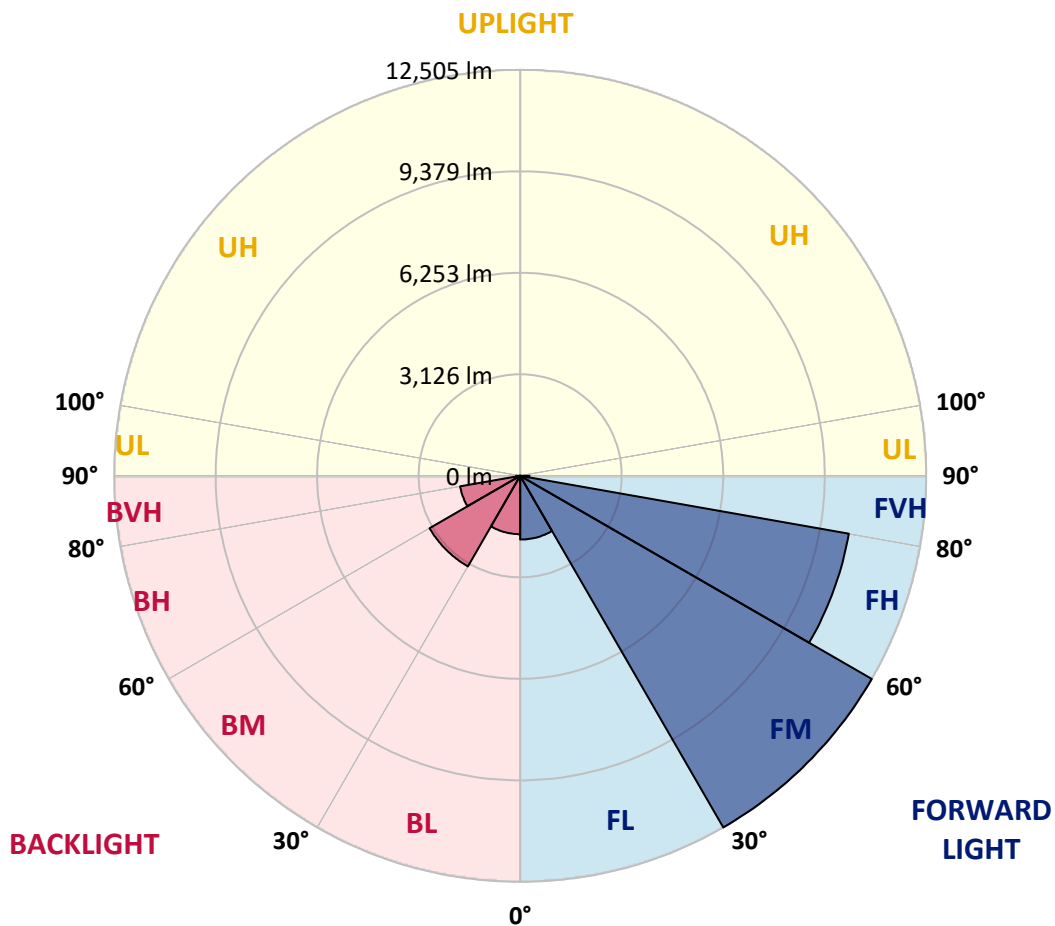
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1963.6	6.1			
FM (30°-60°)	12505.2	39.0			
FH (60°-80°)	10279.0	32.1			G4/12000
FVH (80°-90°)	283.8	0.9			G3/500
BL (0°-30°)	1798.3	5.6	B3/2500		
BM (30°-60°)	3222.3	10.1	B3/5000		
BH (60°-80°)	1875.7	5.9	B3/2500		G3/2500
BVH (80°-90°)	122.0	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	4471.3	4471.3	4471.3	4471.3	4471.3	4471.3	4471.3	4471.3	4471.3	4471.3
2.5°	4121.6	4120.0	4141.3	4147.9	4187.3	4215.2	4267.7	4323.5	4395.8	4404.0
5°	3883.6	3883.6	3908.3	3934.5	3985.4	4041.2	4121.6	4218.5	4343.2	4362.9
7.5°	3681.7	3694.9	3716.2	3767.1	3826.2	3906.6	4029.7	4167.6	4331.7	4362.9
10°	3519.2	3534.0	3560.3	3601.3	3689.9	3801.6	3962.4	4139.7	4359.6	4408.9
12.5°	3468.4	3483.1	3497.9	3529.1	3611.2	3742.5	3934.5	4152.8	4426.9	4476.2
15°	3586.5	3604.6	3593.1	3584.9	3627.6	3747.4	3947.6	4200.4	4510.7	4581.2
17.5°	3859.0	3865.6	3839.3	3762.2	3755.6	3819.6	4010.0	4266.1	4615.7	4692.9
20°	4298.9	4287.4	4233.3	4080.6	3993.6	3980.5	4116.7	4364.6	4724.0	4806.1
22.5°	4896.4	4883.3	4774.9	4533.6	4340.0	4211.9	4271.0	4492.6	4845.5	4937.4
25°	5641.6	5623.6	5464.3	5136.0	4835.7	4518.9	4481.1	4661.7	4994.9	5080.2
27.5°	6511.6	6496.8	6324.4	5891.1	5457.8	4939.1	4742.1	4860.3	5150.8	5247.7
30°	7447.2	7489.9	7184.6	6718.4	6170.2	5487.3	5093.4	5104.9	5352.7	5439.7
32.5°	8546.9	8620.8	8253.1	7662.2	6913.7	6083.2	5536.6	5446.3	5646.5	5718.8
35°	9636.9	9720.6	9415.3	8762.0	7900.2	6785.7	5999.4	5838.6	6037.2	6116.0
37.5°	10579.0	10690.7	10533.1	9965.1	8955.7	7632.7	6603.5	6299.8	6518.1	6616.6
40°	11322.6	11493.3	11481.8	11127.3	10199.9	8660.2	7370.0	6869.4	7115.6	7222.3
42.5°	11926.7	12074.4	12202.4	12184.4	11498.2	9827.3	8271.2	7609.7	7796.8	7919.9
45°	12343.6	12501.2	12776.9	13074.0	12747.4	11076.4	9303.7	8487.9	8658.6	8844.0
47.5°	12716.2	12895.1	13252.9	13724.0	13807.7	12330.5	10434.6	9510.5	9666.4	9858.5
50°	12749.0	12903.3	13458.1	14126.2	14561.2	13535.3	11649.3	10657.8	10803.9	11009.1
52.5°	11956.2	12199.1	13167.6	14114.7	14907.5	14543.1	12855.7	11851.2	12015.3	12261.5
55°	9280.7	9636.9	12315.7	13674.8	14784.4	15194.8	14003.1	13120.0	13330.1	13587.8
57.5°	7993.8	8149.7	9776.4	12873.8	14223.0	15363.8	14971.5	14401.9	14740.1	15022.4
60°	7184.6	7314.2	8276.1	11627.9	13484.4	15096.3	15720.0	15596.9	16181.3	16517.8
62.5°	6317.9	6441.0	7315.9	9709.1	12538.9	14651.4	16192.8	16700.0	17658.6	18026.2
65°	5457.8	5562.8	6401.6	8157.9	11337.4	14206.6	16437.3	17653.6	19025.9	19406.7
67.5°	4499.2	4586.2	5379.0	6882.5	9876.5	13597.6	16558.8	18403.8	20215.9	20542.6
70°	3246.8	3314.1	4133.1	5443.0	8043.0	12550.4	16509.5	18935.6	20833.1	21094.1
72.5°	1534.7	1595.5	2557.4	3534.0	5681.0	10511.7	15513.2	18513.7	20206.1	20076.4
75°	819.1	871.6	1469.1	1938.5	3000.5	7205.9	12694.9	15948.2	16967.5	16337.2
77.5°	554.8	595.8	909.4	1163.8	1370.6	3420.7	8159.6	11041.9	10623.4	9582.7
80°	439.9	482.6	745.2	787.9	663.1	1236.0	3371.5	5111.4	3671.9	2936.5
82.5°	338.1	385.7	627.0	571.2	361.1	507.2	981.6	1616.8	940.5	715.7
85°	206.8	257.7	492.4	364.4	203.5	231.4	333.2	449.8	287.3	239.6
87.5°	105.1	147.7	249.5	133.0	91.9	54.2	88.6	88.6	75.5	65.7
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°
4471.3	0°	4471.3	4471.3	4471.3	4471.3	4471.3	4471.3	4471.3	4471.3	4471.3	4471.3
4448.3	2.5°	4487.7	4520.5	4576.3	4628.8	4669.9	4709.3	4748.7	4770.0	4776.6	4802.8
4472.9	5°	4540.2	4600.9	4709.3	4811.0	4875.1	4914.5	4942.4	4958.8	4962.1	4970.3
4540.2	7.5°	4637.1	4733.9	4884.9	4986.7	5034.3	5031.0	5019.5	4978.5	4962.1	4947.3
4638.7	10°	4773.3	4901.3	5086.8	5157.4	5127.8	5049.1	4947.3	4827.5	4771.6	4717.5
4773.3	12.5°	4942.4	5104.9	5287.1	5283.8	5137.7	4935.8	4699.4	4515.6	4399.0	4315.3
4939.1	15°	5147.5	5334.7	5474.2	5362.6	5042.5	4679.7	4333.4	4093.7	3988.7	3896.8
5106.5	17.5°	5359.3	5559.5	5623.6	5337.9	4802.8	4300.6	3908.3	3719.5	3616.1	3566.8
5287.1	20°	5566.1	5764.7	5712.2	5196.8	4438.4	3870.5	3520.9	3417.5	3396.1	3407.6
5462.7	22.5°	5784.4	5961.7	5730.2	4924.3	3973.9	3430.6	3238.6	3241.8	3289.4	3323.9
5646.5	25°	6007.7	6127.5	5682.6	4530.4	3474.9	3107.2	3059.6	3112.2	3205.7	3273.0
5853.4	27.5°	6222.7	6275.2	5579.2	4042.9	3046.5	2875.8	2884.0	2992.3	3133.5	3227.1
6104.5	30°	6465.6	6406.5	5380.6	3494.6	2749.4	2677.2	2746.1	2872.5	3013.7	3097.4
6421.3	32.5°	6739.7	6519.8	5065.5	2987.4	2539.3	2518.0	2631.2	2713.3	2775.7	2800.3
6841.5	35°	7081.1	6679.0	4661.7	2631.2	2350.5	2401.4	2509.8	2468.7	2444.1	2431.0
7406.2	37.5°	7524.3	6894.0	4188.9	2399.8	2197.9	2317.7	2362.0	2234.0	2137.1	2089.5
8090.6	40°	8057.8	7209.2	3734.3	2220.9	2101.0	2245.5	2168.3	2014.0	1890.9	1823.6
8860.5	42.5°	8650.4	7539.1	3351.8	2086.3	2046.9	2186.4	2025.5	1841.7	1643.1	1621.7
9778.0	45°	9272.5	7878.9	3090.8	1982.9	2020.6	2135.5	1943.5	1646.4	1505.2	1592.2
10698.9	47.5°	9894.6	8190.8	2933.2	1905.7	2007.5	2078.1	1871.2	1538.0	1437.9	1564.3
11685.4	50°	10587.3	8469.8	2862.7	1849.9	1992.7	2055.1	1762.9	1510.1	1367.3	1451.0
12706.3	52.5°	11275.0	8686.5	2810.1	1794.1	1971.4	2037.0	1710.4	1477.3	1282.0	1286.9
13733.9	55°	11961.1	8827.6	2752.7	1720.2	1923.8	1997.6	1705.5	1441.2	1217.9	1195.0
14820.5	57.5°	12693.2	8908.1	2682.1	1638.2	1841.7	1897.5	1700.5	1413.3	1198.2	1160.5
15931.8	60°	13438.4	9026.2	2590.2	1538.0	1731.7	1777.7	1689.0	1403.4	1186.8	1122.7
16979.0	62.5°	14106.5	9067.3	2480.2	1442.8	1590.5	1659.5	1664.4	1395.2	1155.6	1045.6
17849.0	65°	14544.8	8890.0	2288.2	1334.5	1437.9	1538.0	1616.8	1367.3	1099.8	989.8
18279.0	67.5°	14526.7	8384.4	1987.8	1195.0	1290.2	1403.4	1547.9	1319.7	1032.5	920.8
17954.0	70°	13850.4	7386.5	1607.0	1032.5	1127.7	1259.0	1459.2	1249.1	952.0	845.3
15964.6	72.5°	11879.1	5781.1	1167.1	842.1	938.9	1109.6	1344.3	1163.8	870.0	778.0
11798.6	75°	8486.2	3658.8	791.2	646.7	730.4	940.5	1201.5	1063.6	794.5	781.3
5909.2	77.5°	4335.0	1748.1	523.6	472.7	508.8	741.9	1009.5	950.4	805.9	645.1
1680.8	80°	1410.0	645.1	329.9	321.7	338.1	494.1	781.3	779.7	610.6	438.3
407.1	82.5°	449.8	277.4	215.0	206.8	198.6	310.2	545.0	617.2	412.0	277.4
146.1	85°	178.9	165.8	126.4	116.5	83.7	146.1	285.6	410.4	306.9	200.3
37.8	87.5°	65.7	65.7	34.5	24.6	18.1	49.2	77.1	123.1	175.6	103.4
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>
4471.3
4817.6
4983.4
4950.6
4701.1
4295.6
3886.9
3581.6
3402.7
3332.1
3291.1
3250.0
3117.1
2813.4
2444.1
2101.0
1828.6
1643.1
1638.2
1623.4
1513.4
1321.4
1211.4
1165.4
1127.7
1045.6
989.8
925.8
855.2
773.1
737.0
574.5
387.4
275.8
205.2
101.8
0.0

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