

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: P956923

Luminaire Tested: **GALN-SB9B-935-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956923
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-935-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36629 lumens
Efficiency: N/A
Efficacy: 111.2 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

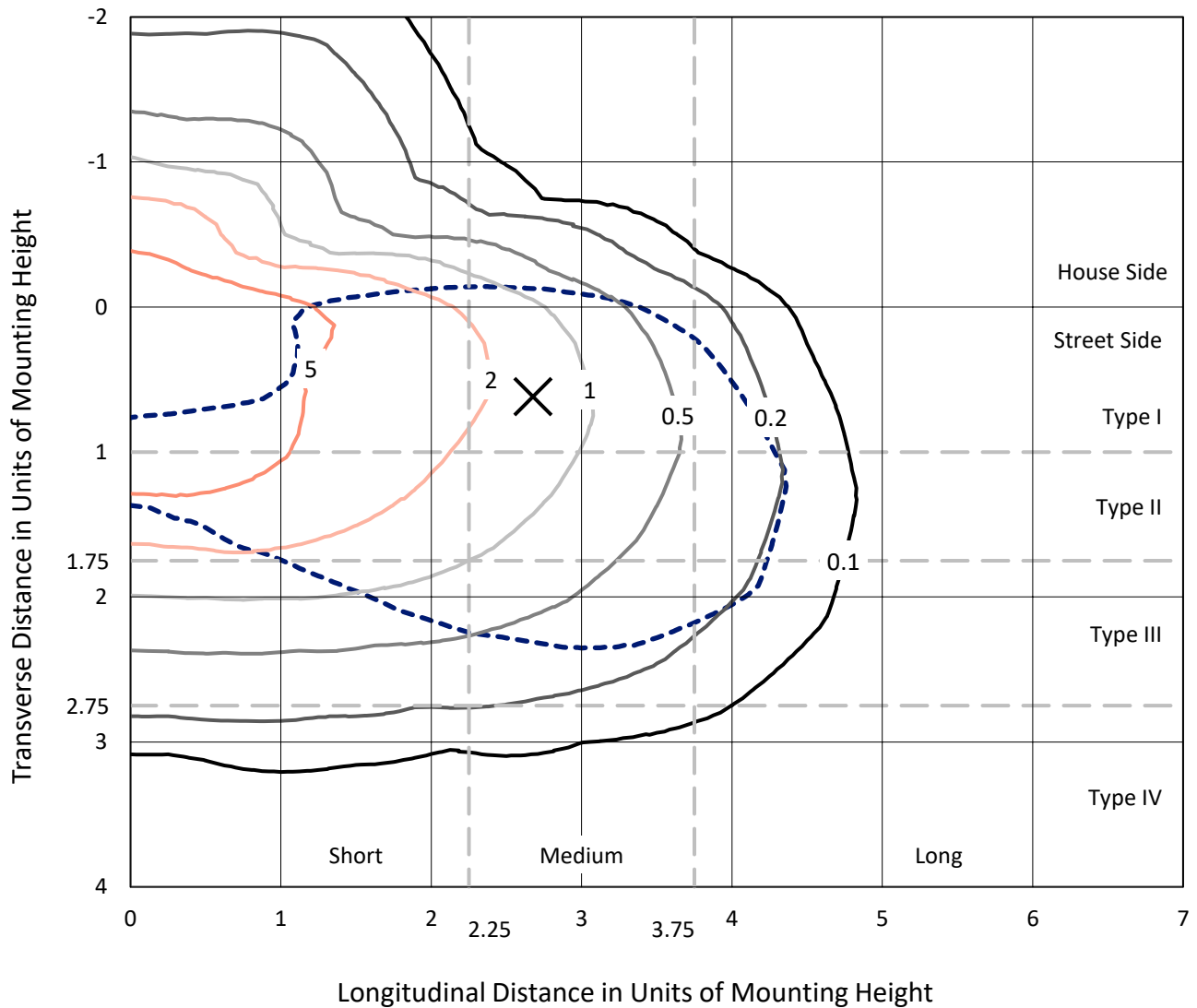
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

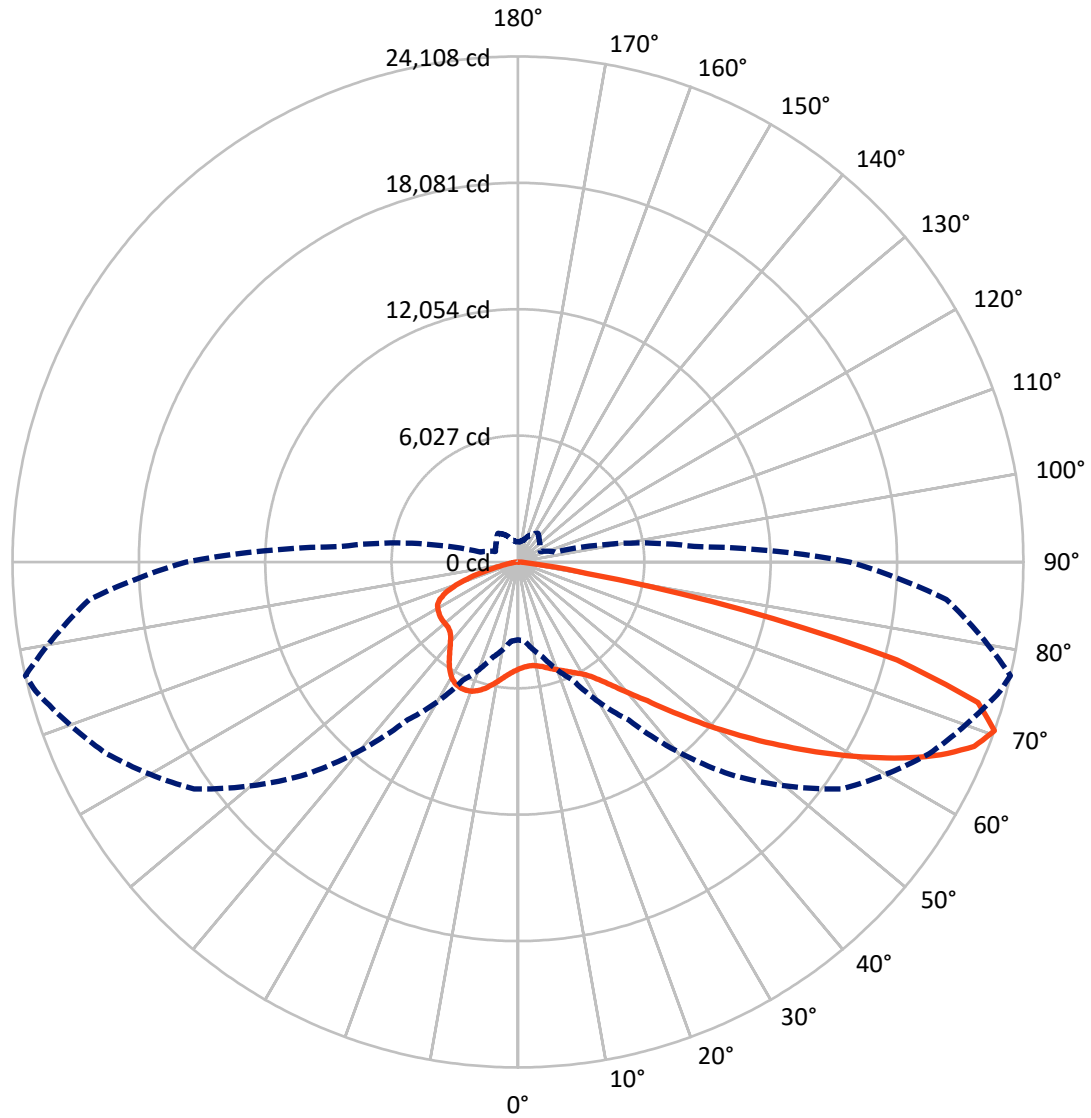
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 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	8021.2	0.0	8021.2
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	28607.8	0.0	28607.8
	% Fixture	78.1	0.0	78.1
Total	Lumens	36629.0	0.0	36629.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	487.4	1.3
10°-20°	1406.6	3.8
20°-30°	2405.4	6.6
30°-40°	3868.2	10.6
40°-50°	6039.3	16.5
50°-60°	8067.1	22.0
60°-70°	8598.2	23.5
70°-80°	5293.0	14.5
80°-90°	463.8	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°	36629.0	100.0
0°-180°	36629.0	100.0



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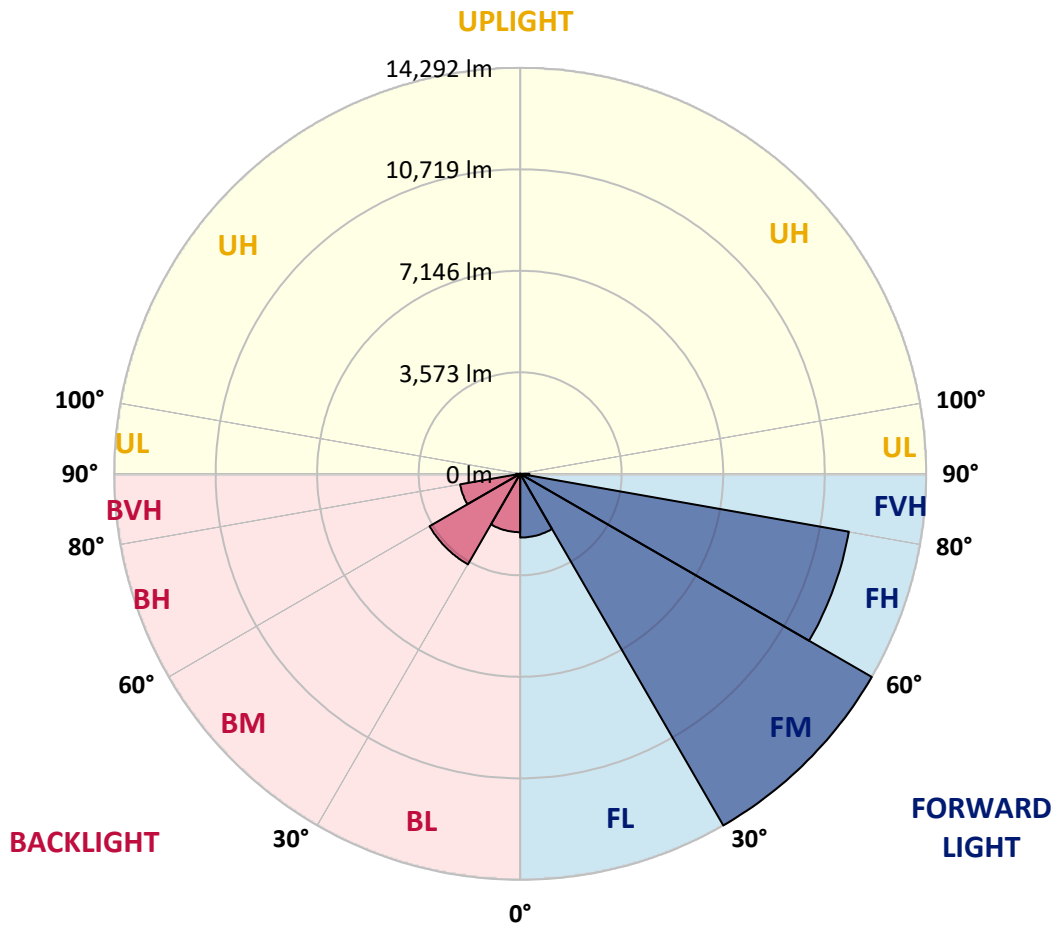
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2244.1	6.1			
FM (30°-60°)	14291.8	39.0			
FH (60°-80°)	11747.5	32.1			G4/12000
FVH (80°-90°)	324.3	0.9			G3/500
BL (0°-30°)	2055.3	5.6	B3/2500		
BM (30°-60°)	3682.7	10.1	B3/5000		
BH (60°-80°)	2143.7	5.9	B3/2500		G3/2500
BVH (80°-90°)	139.5	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°	5110.1	5110.1	5110.1	5110.1	5110.1	5110.1	5110.1	5110.1	5110.1	5110.1
2.5°	4710.5	4708.6	4733.0	4740.5	4785.5	4817.4	4877.5	4941.2	5023.8	5033.2
5°	4438.5	4438.5	4466.6	4496.6	4554.8	4618.6	4710.5	4821.2	4963.8	4986.3
7.5°	4207.7	4222.8	4247.1	4305.3	4372.8	4464.8	4605.4	4763.0	4950.6	4986.3
10°	4022.0	4038.9	4068.9	4115.8	4217.1	4344.7	4528.5	4731.1	4982.5	5038.8
12.5°	3963.9	3980.8	3997.6	4033.3	4127.1	4277.2	4496.6	4746.1	5059.4	5115.7
15°	4098.9	4119.6	4106.4	4097.1	4145.8	4282.8	4511.7	4800.5	5155.1	5235.8
17.5°	4410.4	4417.9	4387.8	4299.7	4292.2	4365.3	4582.9	4875.6	5275.2	5363.3
20°	4913.1	4900.0	4838.1	4663.6	4564.2	4549.2	4704.9	4988.1	5399.0	5492.8
22.5°	5595.9	5580.9	5457.1	5181.4	4960.0	4813.7	4881.2	5134.5	5537.8	5642.8
25°	6447.6	6427.0	6245.0	5869.8	5526.5	5164.5	5121.3	5327.7	5708.5	5806.1
27.5°	7441.9	7425.0	7228.0	6732.8	6237.5	5644.7	5419.6	5554.7	5886.7	5997.4
30°	8511.2	8559.9	8211.0	7678.3	7051.7	6271.3	5821.1	5834.2	6117.5	6216.9
32.5°	9768.1	9852.5	9432.3	8756.9	7901.5	6952.3	6327.6	6224.4	6453.3	6535.8
35°	11013.7	11109.4	10760.4	10013.8	9028.9	7755.2	6856.6	6672.7	6899.7	6989.8
37.5°	12090.5	12218.0	12038.0	11388.9	10235.2	8723.2	7546.9	7199.9	7449.4	7561.9
40°	12940.3	13135.4	13122.2	12717.0	11657.1	9897.5	8423.0	7850.8	8132.2	8254.2
42.5°	13630.6	13799.5	13945.8	13925.2	13141.0	11231.3	9452.9	8696.9	8910.7	9051.4
45°	14107.1	14287.2	14602.4	14941.9	14568.6	12658.9	10632.9	9700.5	9895.6	10107.6
47.5°	14533.0	14737.4	15146.4	15684.8	15780.5	14092.1	11925.4	10869.2	11047.5	11266.9
50°	14570.5	14746.8	15380.9	16144.4	16641.5	15469.1	13313.6	12180.5	12347.5	12582.0
52.5°	13664.4	13942.0	15048.8	16131.3	17037.4	16620.9	14692.4	13544.3	13731.9	14013.3
55°	10606.6	11013.7	14075.2	15628.5	16896.7	17365.6	16003.7	14994.4	15234.6	15529.1
57.5°	9135.9	9314.1	11173.1	14713.1	16255.1	17558.9	17110.5	16459.6	16846.0	17168.7
60°	8211.0	8359.2	9458.5	13289.2	15410.9	17253.1	17965.9	17825.2	18493.1	18877.7
62.5°	7220.5	7361.2	8361.1	11096.2	14330.4	16744.7	18506.2	19085.9	20181.4	20601.7
65°	6237.5	6357.6	7316.2	9323.5	12957.2	16236.3	18785.7	20175.8	21744.1	22179.3
67.5°	5142.0	5241.4	6147.5	7865.8	11287.6	15540.3	18924.6	21033.1	23104.2	23477.5
70°	3710.6	3787.5	4723.6	6220.6	9192.1	14343.5	18868.3	21640.9	23809.5	24107.8
72.5°	1754.0	1823.4	2922.7	4038.9	6492.7	12013.6	17729.6	21158.8	23092.9	22944.7
75°	936.1	996.1	1679.0	2215.5	3429.2	8235.4	14508.6	18226.7	19391.7	18671.3
77.5°	634.1	681.0	1039.3	1330.0	1566.4	3909.5	9325.3	12619.5	12141.1	10951.8
80°	502.8	551.5	851.7	900.5	757.9	1412.6	3853.2	5841.7	4196.5	3356.1
82.5°	386.4	440.8	716.6	652.8	412.7	579.7	1121.8	1847.8	1074.9	817.9
85°	236.4	294.5	562.8	416.5	232.6	264.5	380.8	514.0	328.3	273.9
87.5°	120.1	168.8	285.1	152.0	105.1	61.9	101.3	101.3	86.3	75.0
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°
5110.1	0°	5110.1	5110.1	5110.1	5110.1	5110.1	5110.1	5110.1	5110.1	5110.1	5110.1
5083.8	2.5°	5128.8	5166.4	5230.1	5290.2	5337.1	5382.1	5427.1	5451.5	5459.0	5489.0
5112.0	5°	5188.9	5258.3	5382.1	5498.4	5571.6	5616.6	5648.5	5667.2	5671.0	5680.4
5188.9	7.5°	5299.6	5410.2	5582.8	5699.1	5753.5	5749.8	5736.6	5689.7	5671.0	5654.1
5301.4	10°	5455.3	5601.6	5813.6	5894.2	5860.5	5770.4	5654.1	5517.2	5453.4	5391.5
5455.3	12.5°	5648.5	5834.2	6042.4	6038.7	5871.7	5641.0	5370.8	5160.7	5027.5	4931.9
5644.7	15°	5883.0	6096.8	6256.3	6128.7	5762.9	5348.3	4952.5	4678.6	4558.6	4453.5
5836.1	17.5°	6125.0	6353.8	6427.0	6100.6	5489.0	4915.0	4466.6	4250.9	4132.7	4076.4
6042.4	20°	6361.3	6588.3	6528.3	5939.2	5072.6	4423.5	4023.9	3905.7	3881.3	3894.5
6243.2	22.5°	6610.8	6813.4	6548.9	5627.8	4541.7	3920.7	3701.2	3705.0	3759.4	3798.8
6453.3	25°	6866.0	7002.9	6494.5	5177.6	3971.4	3551.2	3496.8	3556.8	3663.7	3740.6
6689.6	27.5°	7111.7	7171.7	6376.3	4620.5	3481.8	3286.7	3296.0	3419.9	3581.2	3688.1
6976.6	30°	7389.4	7321.8	6149.4	3993.9	3142.2	3059.7	3138.5	3282.9	3444.2	3539.9
7338.7	32.5°	7702.6	7451.3	5789.2	3414.2	2902.1	2877.7	3007.1	3100.9	3172.2	3200.4
7818.9	35°	8092.8	7633.2	5327.7	3007.1	2686.4	2744.5	2868.3	2821.4	2793.3	2778.3
8464.3	37.5°	8599.3	7879.0	4787.4	2742.6	2511.9	2648.8	2699.5	2553.2	2442.5	2388.1
9246.5	40°	9209.0	8239.2	4267.8	2538.2	2401.2	2566.3	2478.1	2301.8	2161.1	2084.2
10126.4	42.5°	9886.2	8616.2	3830.7	2384.3	2339.3	2498.8	2314.9	2104.8	1877.8	1853.4
11175.0	45°	10597.2	9004.5	3532.4	2266.1	2309.3	2440.6	2221.1	1881.6	1720.2	1819.7
12227.4	47.5°	11308.2	9361.0	3352.3	2178.0	2294.3	2374.9	2138.6	1757.8	1643.3	1787.8
13354.9	50°	12099.9	9679.9	3271.7	2114.2	2277.4	2348.7	2014.8	1725.9	1562.7	1658.3
14521.7	52.5°	12885.9	9927.5	3211.6	2050.4	2253.0	2328.1	1954.7	1688.4	1465.1	1470.7
15696.0	55°	13670.0	10088.8	3146.0	1966.0	2198.6	2283.0	1949.1	1647.1	1392.0	1365.7
16937.9	57.5°	14506.7	10180.8	3065.3	1872.2	2104.8	2168.6	1943.5	1615.2	1369.4	1326.3
18207.9	60°	15358.4	10315.8	2960.2	1757.8	1979.1	2031.7	1930.3	1603.9	1356.3	1283.1
19404.8	62.5°	16121.9	10362.7	2834.6	1649.0	1817.8	1896.6	1902.2	1594.6	1320.7	1195.0
20399.0	65°	16622.8	10160.1	2615.1	1525.1	1643.3	1757.8	1847.8	1562.7	1256.9	1131.2
20890.5	67.5°	16602.1	9582.3	2271.8	1365.7	1474.5	1603.9	1769.0	1508.3	1180.0	1052.4
20519.1	70°	15829.2	8441.8	1836.6	1180.0	1288.8	1438.9	1667.7	1427.6	1088.0	966.1
18245.5	72.5°	13576.2	6607.1	1333.8	962.4	1073.0	1268.1	1536.4	1330.0	994.3	889.2
13484.3	75°	9698.6	4181.5	904.2	739.1	834.8	1074.9	1373.2	1215.6	908.0	893.0
6753.4	77.5°	4954.4	1997.9	598.4	540.3	581.5	847.9	1153.7	1086.2	921.1	737.2
1921.0	80°	1611.4	737.2	377.1	367.7	386.4	564.7	893.0	891.1	697.9	500.9
465.2	82.5°	514.0	317.0	245.7	236.4	227.0	354.6	622.8	705.4	470.9	317.0
167.0	85°	204.5	189.5	144.4	133.2	95.7	167.0	326.4	469.0	350.8	228.9
43.1	87.5°	75.0	75.0	39.4	28.1	20.6	56.3	88.2	140.7	200.7	118.2
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>
5110.1
5505.9
5695.4
5657.9
5372.7
4909.4
4442.2
4093.3
3888.8
3808.2
3761.3
3714.4
3562.4
3215.4
2793.3
2401.2
2089.8
1877.8
1872.2
1855.3
1729.6
1510.1
1384.4
1331.9
1288.8
1195.0
1131.2
1058.0
977.4
883.6
842.3
656.6
442.7
315.2
234.5
116.3
0.0

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