

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: P943939

Luminaire Tested: **GALN-SB8C-927-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943939
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8C-927-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36433 lumens
Efficiency: N/A
Efficacy: 91.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

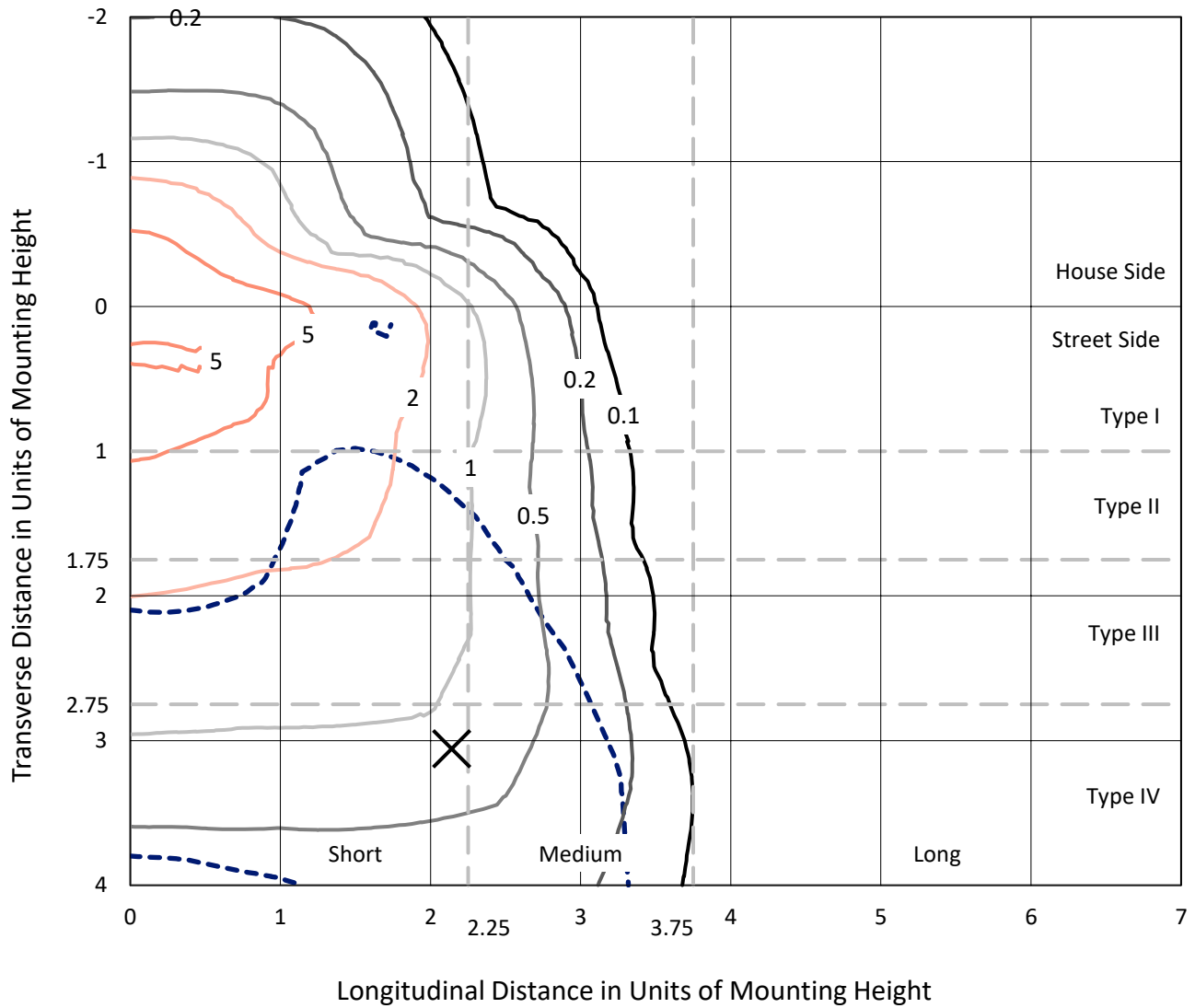
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P943939
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Iso-Footcandle Lines of Horizontal Illumination

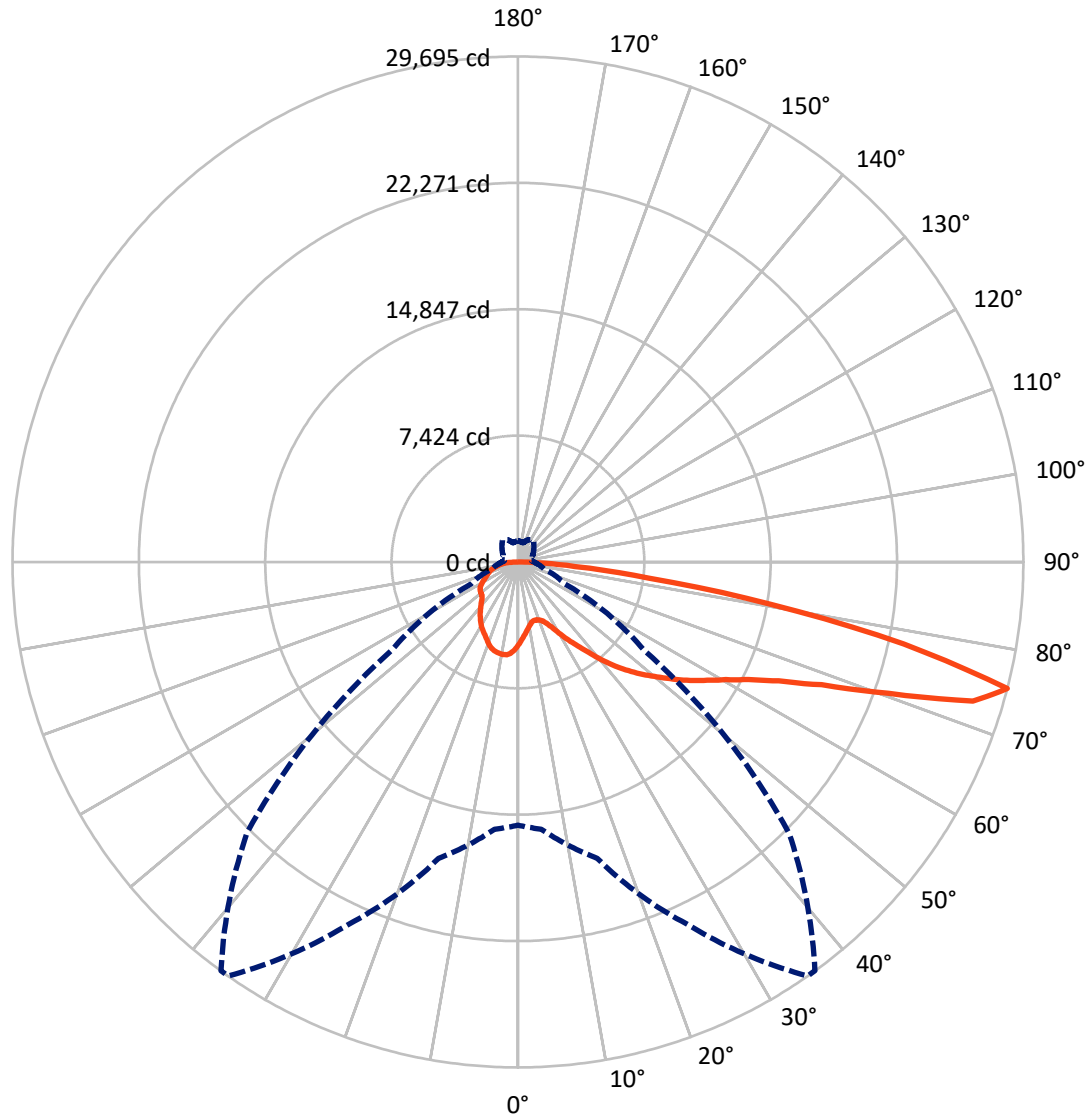
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
 Type IV - Short - N/A

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CATALOG NUMBER: GALN-SB8C-927-U-T4FT

Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8670.1	0.0	8670.1
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	27762.9	0.0	27762.9
	% Fixture	76.2	0.0	76.2
Total	Lumens	36433.0	0.0	36433.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	459.7	1.3
10°-20°	1325.9	3.6
20°-30°	2226.5	6.1
30°-40°	3460.3	9.5
40°-50°	5136.0	14.1
50°-60°	7090.5	19.5
60°-70°	8602.4	23.6
70°-80°	7109.2	19.5
80°-90°	1022.5	2.8
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°	36433.0	100.0
0°-180°	36433.0	100.0

Coefficient of Utilization



REPORT NUMBER: P943939

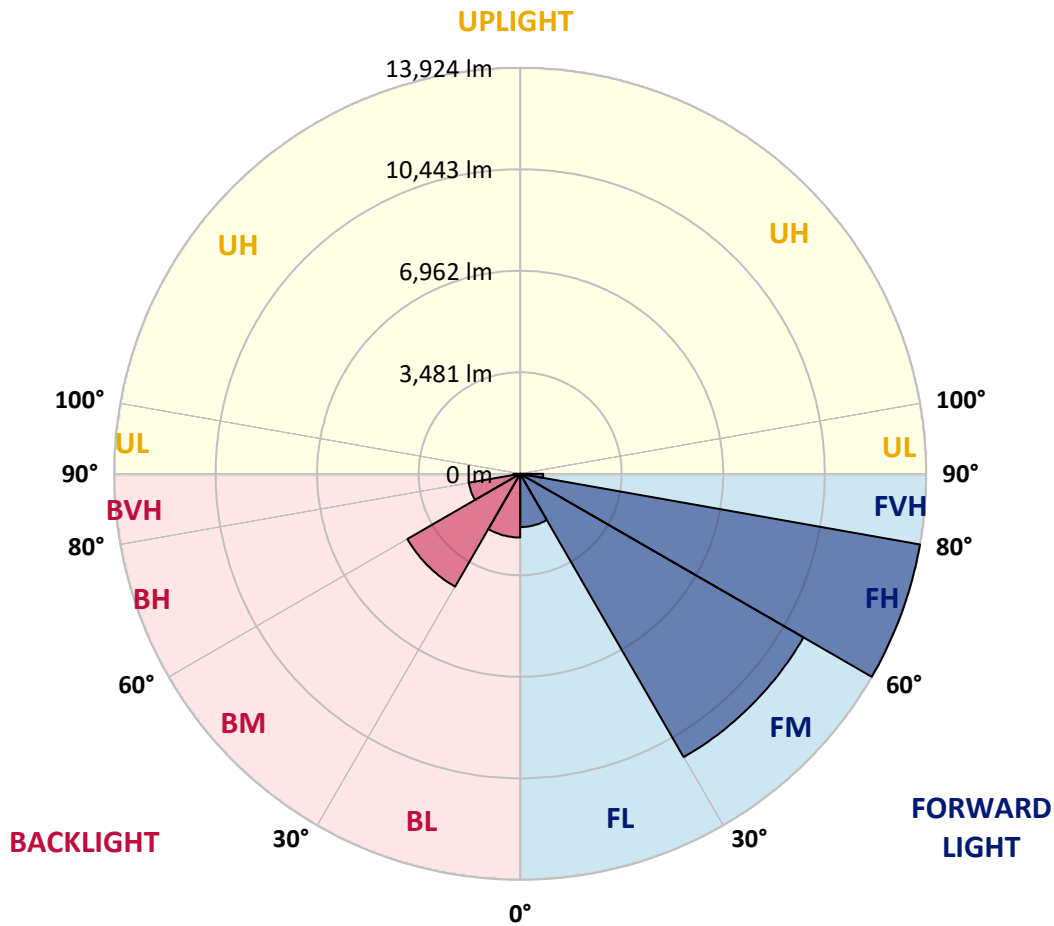
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1827.0	5.0			
FM (30°-60°)	11219.4	30.8			
FH (60°-80°)	13924.1	38.2			G5
FVH (80°-90°)	792.3	2.2			G5
BL (0°-30°)	2185.0	6.0	B3/2500		
BM (30°-60°)	4467.4	12.3	B3/5000		
BH (60°-80°)	1787.5	4.9	B3/2500		G3/2500
BVH (80°-90°)	230.3	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



REPORT NUMBER: P943939
 CATALOG NUMBER: GALN-SB8C-927-U-T4FT

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	4854.9	4854.9	4854.9	4854.9	4854.9	4854.9	4854.9	4854.9	4854.9	4854.9
2.5°	4476.8	4504.4	4516.2	4510.3	4539.8	4535.9	4577.2	4628.4	4699.3	4768.3
5°	4132.1	4161.7	4187.3	4210.9	4268.0	4285.7	4350.7	4449.2	4579.2	4711.2
7.5°	3811.1	3836.7	3876.1	3919.4	4015.9	4033.6	4142.0	4295.6	4476.8	4669.8
10°	3549.1	3574.7	3616.1	3665.3	3785.5	3807.1	3945.0	4149.8	4386.2	4630.4
12.5°	3436.9	3444.7	3468.4	3517.6	3622.0	3635.8	3787.4	4021.8	4297.6	4600.9
15°	3431.0	3446.7	3448.7	3474.3	3560.9	3566.9	3706.7	3939.1	4242.4	4595.0
17.5°	3490.0	3501.9	3484.1	3499.9	3572.8	3582.6	3692.9	3899.7	4224.7	4620.6
20°	3647.6	3657.5	3604.3	3582.6	3635.8	3643.7	3752.0	3925.3	4242.4	4673.7
22.5°	3982.4	3988.3	3858.4	3769.7	3773.7	3777.6	3872.1	4029.7	4311.3	4770.3
25°	4504.4	4500.4	4293.6	4122.3	4023.8	4002.1	4065.2	4199.1	4427.6	4898.3
27.5°	5114.9	5085.4	4878.6	4622.5	4407.9	4376.3	4362.6	4419.7	4593.0	5067.7
30°	5804.3	5776.7	5554.1	5219.3	4921.9	4870.7	4740.7	4711.2	4839.2	5298.1
32.5°	6560.6	6542.8	6277.0	5871.2	5473.4	5414.3	5195.7	5116.9	5217.3	5646.7
35°	7194.8	7179.0	6958.4	6540.9	6054.4	5981.5	5759.0	5670.3	5721.5	6093.8
37.5°	7767.9	7760.0	7571.0	7242.0	6739.8	6651.2	6401.0	6371.5	6361.7	6682.7
40°	8299.7	8280.0	8083.0	7909.7	7537.5	7456.7	7236.1	7210.5	7135.7	7407.5
42.5°	8888.6	8837.4	8551.8	8471.0	8370.6	8303.6	8171.7	8175.6	8010.2	8224.8
45°	9369.2	9339.6	9046.1	8998.9	9107.2	9079.6	9193.9	9223.4	8902.4	9081.6
47.5°	9885.2	9857.6	9609.4	9576.0	9869.4	9877.3	10281.1	10290.9	9772.9	9971.8
50°	10521.3	10482.0	10235.8	10277.1	10606.0	10635.6	11374.2	11307.2	10574.5	10875.9
52.5°	10940.9	10964.5	10911.3	10978.3	11427.3	11454.9	12449.5	12278.2	11368.2	11768.1
55°	11250.1	11297.3	11462.8	11616.4	12293.9	12321.5	13463.9	13201.9	12026.1	12595.3
57.5°	11647.9	11581.0	11890.2	12189.6	13117.2	13190.1	14450.6	14092.1	12609.1	13308.3
60°	12219.1	12171.8	12412.1	12855.3	14039.0	14155.2	15494.5	14893.7	13036.5	13873.5
62.5°	13377.2	13259.0	13296.4	13688.4	15201.0	15354.6	16672.3	15592.9	13249.2	14094.1
65°	15108.4	14905.6	14716.5	14988.3	16837.7	16989.3	18001.7	16142.4	13170.4	13666.7
67.5°	17288.7	17087.8	16855.4	17111.5	19248.4	19368.6	19642.3	16451.7	12550.0	12020.2
70°	19086.9	19012.1	19289.8	20343.5	23098.9	23102.8	21745.8	16195.6	10850.3	8522.2
72.5°	18848.6	18803.3	20266.7	23524.3	27951.9	27847.5	23737.0	14257.6	7309.0	3844.6
75°	15462.9	15756.4	18023.4	23467.2	29694.9	29681.1	22517.9	9063.9	3023.3	1593.4
77.5°	8291.8	8756.6	11701.1	17326.1	23181.6	23530.2	15831.3	3171.0	1297.9	1020.2
80°	2704.2	3109.9	4663.9	8821.6	15063.1	14998.1	6785.1	1244.8	888.3	722.8
82.5°	1148.2	1195.5	2083.8	4165.6	7730.5	7610.3	2160.6	714.9	624.3	494.4
85°	449.1	502.2	919.8	1926.2	3348.2	3275.4	779.9	354.5	399.8	323.0
87.5°	147.7	179.2	328.9	659.8	1041.9	1004.5	191.0	122.1	173.3	147.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P943939
 CATALOG NUMBER: GALN-SB8C-927-U-T4FT

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4854.9	0°	4854.9	4854.9	4854.9	4854.9	4854.9	4854.9	4854.9	4854.9	4854.9	4854.9
4868.7	2.5°	4896.3	4927.8	4965.2	5020.4	5067.7	5107.0	5148.4	5174.0	5183.9	5213.4
4876.6	5°	4931.8	5000.7	5093.3	5183.9	5272.5	5325.7	5372.9	5396.6	5418.2	5434.0
4898.3	7.5°	4990.8	5079.5	5225.2	5343.4	5418.2	5461.6	5493.1	5485.2	5493.1	5497.0
4921.9	10°	5042.1	5166.1	5339.5	5451.7	5508.8	5510.8	5502.9	5475.4	5461.6	5463.5
4957.4	12.5°	5103.1	5241.0	5428.1	5522.6	5538.4	5495.0	5461.6	5414.3	5396.6	5388.7
5010.5	15°	5185.8	5343.4	5524.6	5560.0	5520.7	5465.5	5408.4	5331.6	5292.2	5260.7
5101.1	17.5°	5286.3	5459.6	5599.4	5573.8	5489.1	5398.5	5306.0	5189.8	5109.0	5075.5
5225.2	20°	5426.1	5581.7	5656.6	5544.3	5416.3	5278.4	5120.8	4979.0	4904.2	4870.7
5382.8	22.5°	5595.5	5745.2	5711.7	5493.1	5311.9	5091.3	4894.3	4789.9	4752.5	4728.9
5585.6	25°	5798.4	5926.4	5751.1	5418.2	5140.5	4843.1	4691.5	4658.0	4640.3	4622.5
5833.8	27.5°	6062.3	6131.2	5780.6	5307.9	4872.7	4579.2	4524.1	4530.0	4524.1	4494.5
6178.5	30°	6410.9	6397.1	5808.2	5128.7	4565.4	4340.9	4344.8	4370.4	4374.4	4354.7
6659.1	32.5°	6869.8	6730.0	5822.0	4896.3	4272.0	4132.1	4136.1	4163.6	4183.3	4149.8
7287.3	35°	7425.2	7118.0	5800.3	4604.8	4045.5	3933.2	3903.7	3911.5	3917.4	3885.9
8049.6	37.5°	8073.2	7553.2	5703.8	4281.8	3858.4	3738.2	3675.2	3622.0	3590.5	3560.9
8912.2	40°	8784.2	8027.9	5526.6	3966.7	3649.6	3531.4	3436.9	3336.4	3230.1	3190.7
9826.1	42.5°	9528.7	8516.3	5311.9	3665.3	3409.3	3312.8	3212.3	3066.6	2907.1	2826.3
10775.4	45°	10300.8	9016.6	5101.1	3367.9	3163.1	3121.7	3005.5	2830.2	2656.9	2554.5
11726.7	47.5°	11057.1	9489.3	4791.9	3068.6	2932.7	2978.0	2887.4	2725.9	2532.8	2371.3
12670.1	50°	11779.9	9932.4	4285.7	2765.2	2745.6	2934.6	2848.0	2615.6	2395.0	2188.2
13595.8	52.5°	12496.8	10290.9	3637.8	2489.5	2645.1	2922.8	2796.8	2540.7	2270.9	2054.2
14466.4	55°	13105.4	10476.0	3013.4	2253.2	2499.4	2822.4	2735.7	2452.1	2095.6	1865.2
15063.1	57.5°	13452.0	10326.4	2493.5	2020.8	2298.5	2656.9	2631.3	2263.0	1886.8	1709.6
15179.3	60°	13302.3	9719.7	2068.0	1817.9	2107.4	2477.7	2450.1	2075.9	1727.3	1559.9
14557.0	62.5°	12477.1	8563.6	1731.2	1640.6	1934.1	2294.5	2268.9	1932.1	1605.2	1443.7
12904.5	65°	10814.8	6966.3	1469.3	1492.9	1758.8	2073.9	2111.4	1812.0	1508.7	1351.1
9983.7	67.5°	8248.5	5046.0	1264.5	1364.9	1587.5	1857.3	1965.6	1725.3	1427.9	1278.2
5776.7	70°	4701.3	2865.7	1091.1	1240.8	1435.8	1656.4	1853.3	1656.4	1341.3	1217.2
2164.5	72.5°	1782.4	1315.7	943.4	1116.7	1290.1	1487.0	1729.3	1548.1	1240.8	1148.2
1118.7	75°	951.3	801.6	793.7	971.0	1122.6	1321.6	1573.7	1441.7	1166.0	1213.2
774.0	77.5°	648.0	567.2	663.7	831.2	939.5	1138.4	1408.2	1280.2	1010.4	1006.4
535.7	80°	449.1	401.8	539.7	669.6	726.8	957.2	1229.0	1099.0	823.3	768.1
330.9	82.5°	269.8	262.0	403.8	500.3	514.1	738.6	1018.3	921.7	673.6	586.9
197.0	85°	147.7	155.6	258.0	293.5	299.4	516.0	797.7	713.0	518.0	435.3
70.9	87.5°	41.4	53.2	94.5	116.2	143.8	267.9	474.7	423.5	260.0	181.2
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>
4854.9
5211.4
5437.9
5502.9
5467.5
5384.8
5270.5
5077.5
4866.8
4732.8
4622.5
4500.4
4364.5
4165.6
3907.6
3580.6
3208.4
2836.2
2546.6
2353.6
2170.4
2030.6
1845.5
1685.9
1536.2
1418.1
1325.5
1254.6
1201.4
1132.5
1252.6
927.7
734.6
590.9
439.2
181.2
0.0

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