

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: P956167

Luminaire Tested: **GALN-SB8D-927-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956167
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-SB8D-927-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51419 lumens
Efficiency: N/A
Efficacy: 87.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

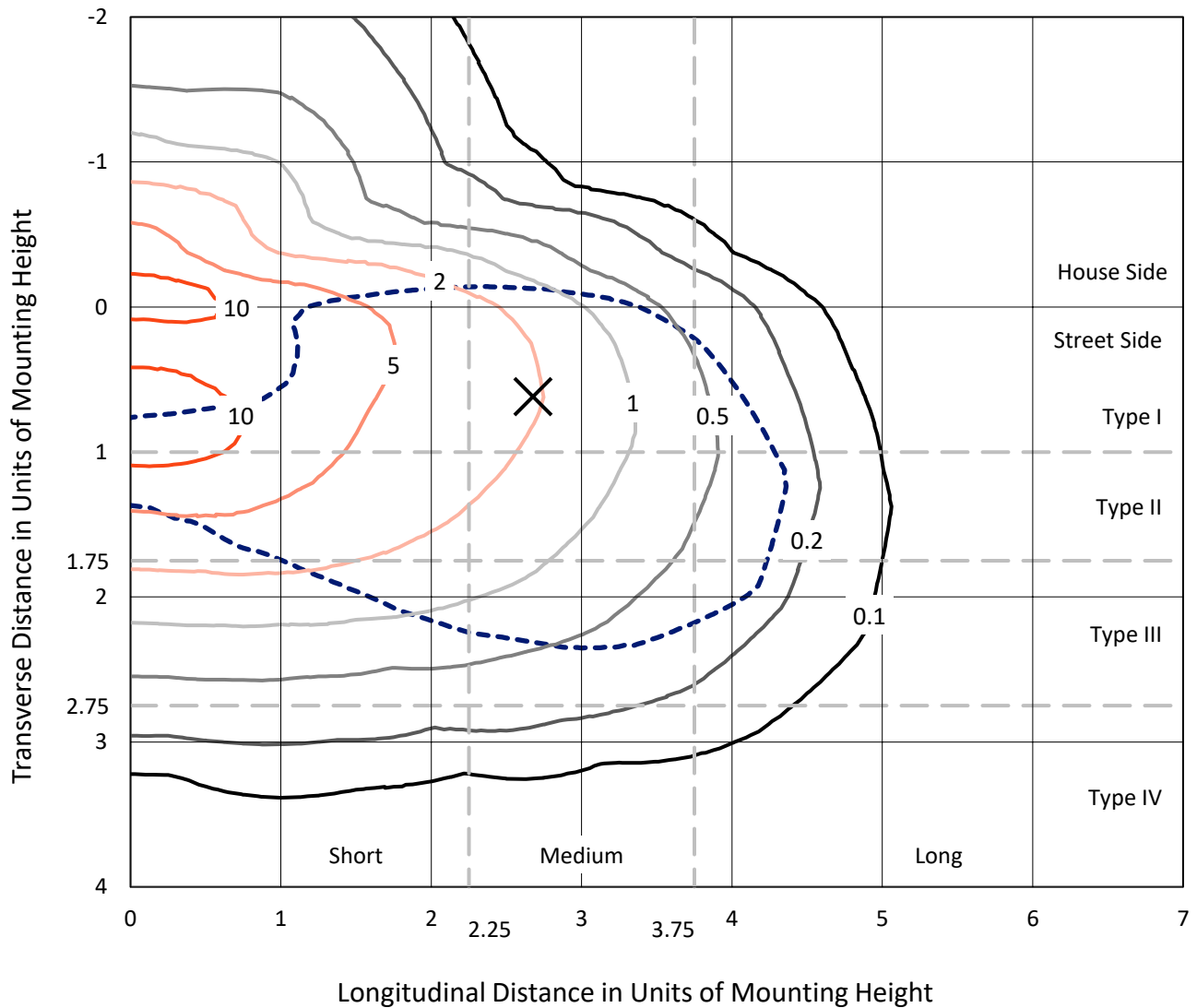
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

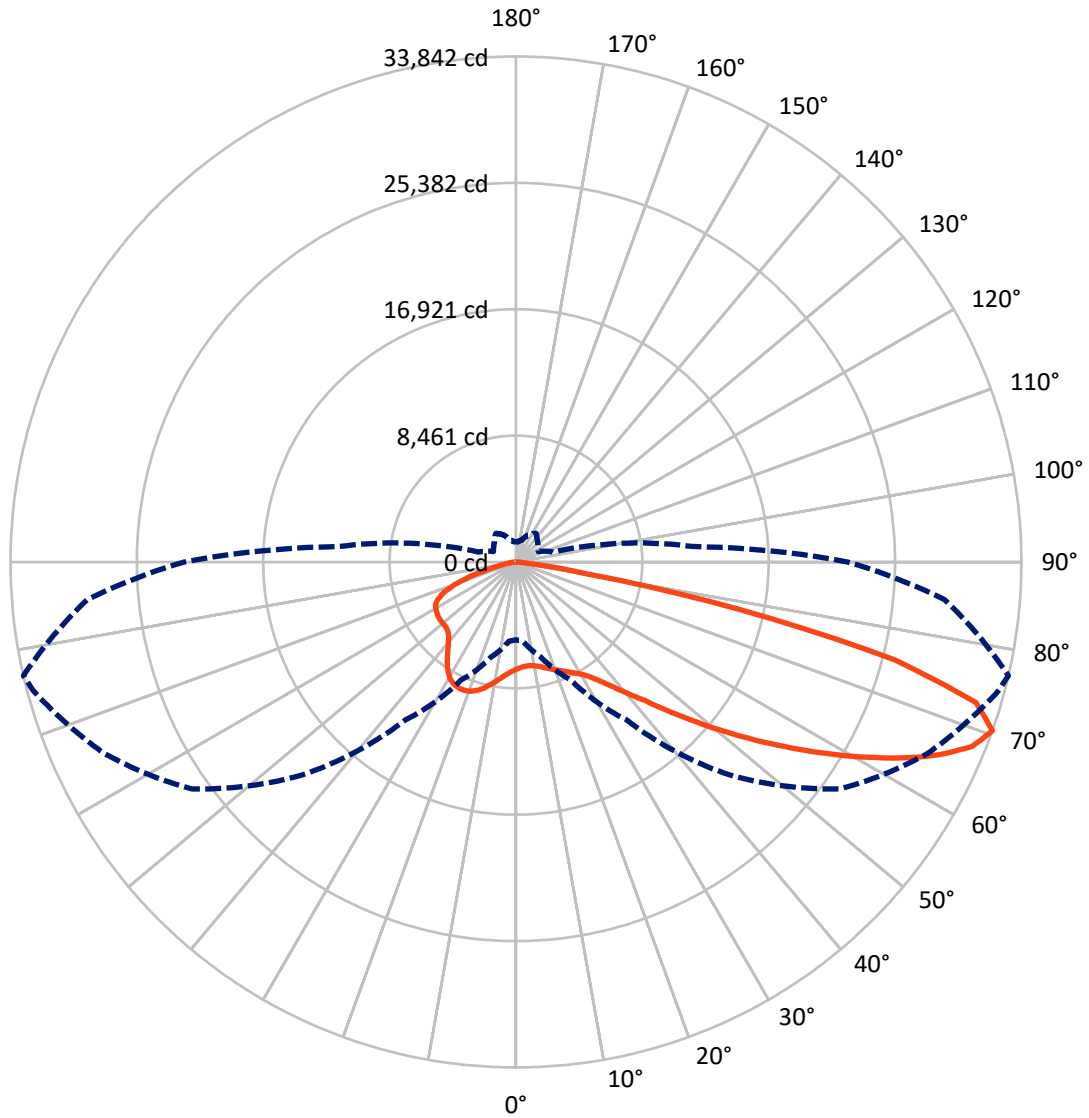
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.6 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	11260.0	0.0	11260.0
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	40159.0	0.0	40159.0
	% Fixture	78.1	0.0	78.1
Total	Lumens	51419.0	0.0	51419.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	684.1	1.3
10°-20°	1974.5	3.8
20°-30°	3376.7	6.6
30°-40°	5430.1	10.6
40°-50°	8477.8	16.5
50°-60°	11324.4	22.0
60°-70°	12070.0	23.5
70°-80°	7430.2	14.5
80°-90°	651.1	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°	51419.0	100.0
0°-180°	51419.0	100.0

Coefficient of Utilization



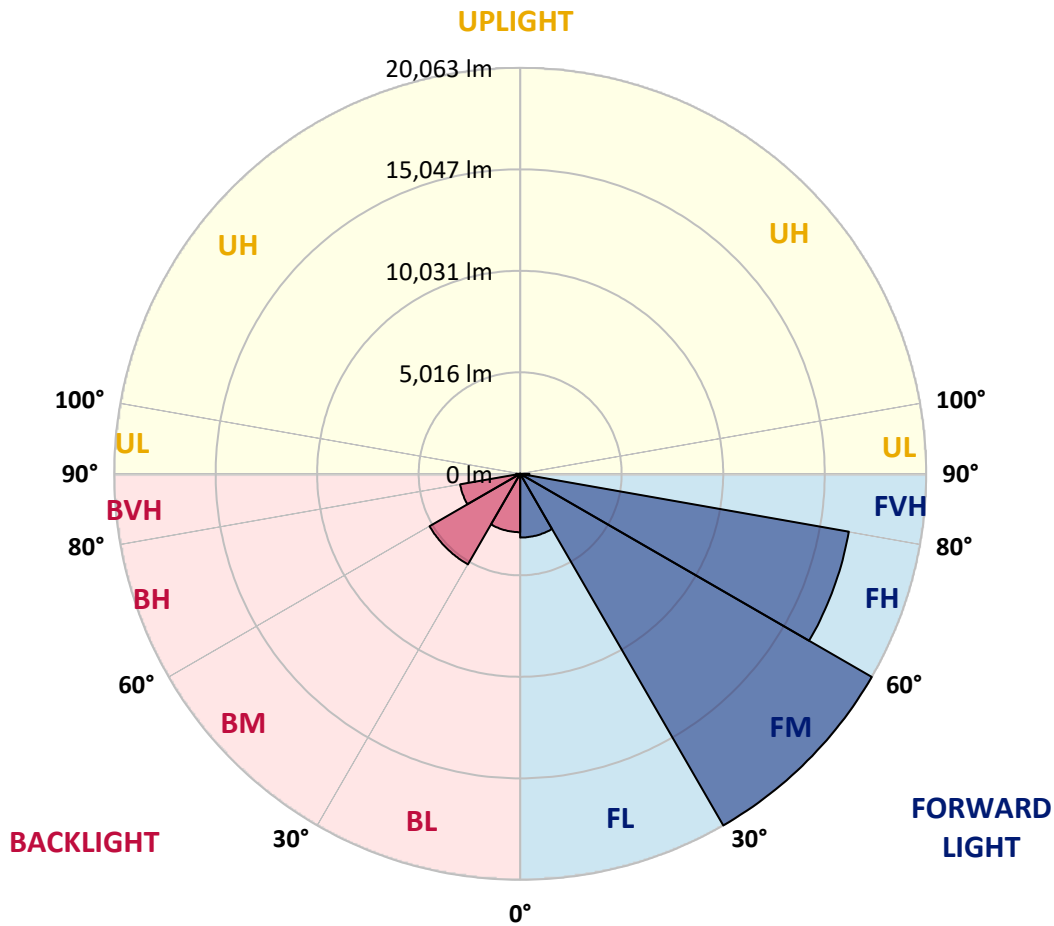
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3150.2	6.1			
FM (30°-60°)	20062.6	39.0			
FH (60°-80°)	16490.9	32.1			G5
FVH (80°-90°)	455.3	0.9			G3/500
BL (0°-30°)	2885.2	5.6	B4/5000		
BM (30°-60°)	5169.7	10.1	B4/8500		
BH (60°-80°)	3009.3	5.9	B4/5000		G4/5000
BVH (80°-90°)	195.8	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	7173.4	7173.4	7173.4	7173.4	7173.4	7173.4	7173.4	7173.4	7173.4	7173.4
2.5°	6612.5	6609.9	6644.1	6654.6	6717.8	6762.6	6846.9	6936.4	7052.3	7065.4
5°	6230.7	6230.7	6270.2	6312.3	6393.9	6483.5	6612.5	6767.9	6968.0	6999.6
7.5°	5906.7	5927.8	5962.0	6043.7	6138.5	6267.5	6465.0	6686.2	6949.6	6999.6
10°	5646.0	5669.7	5711.9	5777.7	5919.9	6099.0	6357.1	6641.5	6994.3	7073.3
12.5°	5564.4	5588.1	5611.8	5661.8	5793.5	6004.2	6312.3	6662.5	7102.3	7181.3
15°	5754.0	5783.0	5764.5	5751.4	5819.8	6012.1	6333.4	6738.9	7236.6	7349.9
17.5°	6191.2	6201.7	6159.6	6035.8	6025.3	6128.0	6433.4	6844.2	7405.2	7528.9
20°	6896.9	6878.5	6791.6	6546.7	6407.1	6386.0	6604.6	7002.2	7579.0	7710.6
22.5°	7855.5	7834.4	7660.6	7273.5	6962.7	6757.3	6852.1	7207.7	7773.8	7921.3
25°	9051.0	9022.1	8766.6	8240.0	7758.0	7249.8	7189.2	7478.9	8013.5	8150.4
27.5°	10446.8	10423.1	10146.5	9451.3	8756.1	7923.9	7607.9	7797.5	8263.7	8419.0
30°	11947.8	12016.3	11526.5	10778.6	9899.0	8803.5	8171.5	8189.9	8587.6	8727.1
32.5°	13712.2	13830.7	13240.8	12292.8	11091.9	9759.4	8882.5	8737.7	9058.9	9174.8
35°	15460.8	15595.1	15105.3	14057.2	12674.6	10886.5	9625.1	9367.1	9685.7	9812.1
37.5°	16972.4	17151.4	16898.6	15987.5	14367.9	12245.4	10594.2	10107.0	10457.3	10615.3
40°	18165.3	18439.2	18420.7	17851.9	16364.0	13893.9	11824.0	11020.8	11415.8	11587.0
42.5°	19134.4	19371.4	19576.8	19547.8	18447.1	15766.2	13269.8	12208.5	12508.7	12706.2
45°	19803.3	20056.1	20498.5	20975.1	20451.1	17770.3	14926.2	13617.4	13891.3	14188.8
47.5°	20401.1	20688.1	21262.2	22018.0	22152.3	19782.2	16740.6	15258.0	15508.2	15816.3
50°	20453.7	20701.3	21591.4	22663.2	23361.0	21715.1	18689.3	17098.8	17333.1	17662.3
52.5°	19181.8	19571.5	21125.2	22644.7	23916.7	23332.0	20624.9	19013.2	19276.6	19671.6
55°	14889.3	15460.8	19758.5	21939.0	23719.2	24377.5	22465.7	21048.9	21386.0	21799.4
57.5°	12824.7	13074.9	15684.6	20653.9	22818.5	24648.8	24019.4	23105.6	23648.1	24101.0
60°	11526.5	11734.5	13277.7	18655.1	21633.5	24219.5	25220.2	25022.7	25960.2	26500.0
62.5°	10136.0	10333.5	11737.1	15576.6	20116.6	23505.9	25978.6	26792.4	28330.3	28920.2
65°	8756.1	8924.6	10270.3	13088.1	18189.0	22792.2	26371.0	28322.4	30523.9	31134.9
67.5°	7218.2	7357.8	8629.7	11041.9	15845.3	21815.2	26565.9	29525.8	32433.1	32957.2
70°	5208.9	5316.9	6630.9	8732.4	12903.7	20135.1	26486.9	30379.1	33423.3	33842.0
72.5°	2462.2	2559.7	4102.9	5669.7	9114.2	16864.4	24888.4	29702.3	32417.3	32209.3
75°	1314.1	1398.3	2356.9	3110.1	4813.9	11560.7	20366.8	25586.2	27221.6	26210.4
77.5°	890.1	955.9	1458.9	1867.1	2198.9	5488.0	13090.7	17715.0	17043.5	15373.9
80°	705.8	774.2	1195.6	1264.0	1063.9	1983.0	5409.0	8200.5	5890.9	4711.2
82.5°	542.5	618.9	1006.0	916.4	579.4	813.7	1574.8	2593.9	1508.9	1148.2
85°	331.8	413.4	790.0	584.6	326.5	371.3	534.6	721.6	460.8	384.5
87.5°	168.5	237.0	400.3	213.3	147.5	86.9	142.2	142.2	121.1	105.3
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°
7173.4	0°	7173.4	7173.4	7173.4	7173.4	7173.4	7173.4	7173.4	7173.4	7173.4	7173.4
7136.6	2.5°	7199.8	7252.4	7342.0	7426.2	7492.1	7555.3	7618.5	7652.7	7663.2	7705.4
7176.1	5°	7284.0	7381.5	7555.3	7718.5	7821.2	7884.4	7929.2	7955.5	7960.8	7974.0
7284.0	7.5°	7439.4	7594.8	7837.0	8000.3	8076.7	8071.4	8053.0	7987.1	7960.8	7937.1
7442.0	10°	7658.0	7863.4	8160.9	8274.2	8226.8	8100.4	7937.1	7744.9	7655.3	7568.4
7658.0	12.5°	7929.2	8189.9	8482.2	8477.0	8242.6	7918.7	7539.5	7244.5	7057.5	6923.2
7923.9	15°	8258.4	8558.6	8782.4	8603.4	8089.8	7507.9	6952.2	6567.7	6399.2	6251.7
8192.6	17.5°	8598.1	8919.4	9022.1	8563.9	7705.4	6899.5	6270.2	5967.3	5801.4	5722.4
8482.2	20°	8929.9	9248.5	9164.3	8337.4	7120.8	6209.6	5648.7	5482.8	5448.5	5467.0
8764.0	22.5°	9280.2	9564.6	9193.2	7900.2	6375.5	5503.8	5195.7	5201.0	5277.4	5332.7
9058.9	25°	9638.3	9830.5	9116.9	7268.2	5574.9	4985.1	4908.7	4993.0	5143.1	5251.0
9390.8	27.5°	9983.3	10067.5	8951.0	6486.1	4887.6	4613.7	4626.9	4800.7	5027.2	5177.3
9793.7	30°	10373.0	10278.2	8632.3	5606.5	4411.0	4295.1	4405.7	4608.5	4834.9	4969.3
10301.9	32.5°	10812.8	10459.9	8126.7	4792.8	4073.9	4039.7	4221.4	4353.0	4453.1	4492.6
10976.1	35°	11360.5	10715.4	7478.9	4221.4	3771.0	3852.7	4026.5	3960.7	3921.2	3900.1
11882.0	37.5°	12071.6	11060.3	6720.5	3850.1	3526.1	3718.4	3789.5	3584.1	3428.7	3352.3
12980.1	40°	12927.4	11566.0	5991.0	3563.0	3370.8	3602.5	3478.7	3231.2	3033.7	2925.7
14215.2	42.5°	13878.1	12095.3	5377.4	3347.1	3283.9	3507.7	3249.6	2954.7	2636.0	2601.8
15687.2	45°	14876.2	12640.4	4958.7	3181.2	3241.7	3426.1	3118.0	2641.3	2414.8	2554.4
17164.6	47.5°	15874.2	13140.7	4705.9	3057.4	3220.7	3333.9	3002.1	2467.5	2306.9	2509.6
18747.3	50°	16985.5	13588.4	4592.7	2967.9	3197.0	3297.0	2828.3	2422.7	2193.6	2327.9
20385.3	52.5°	18088.9	13936.0	4508.4	2878.3	3162.7	3268.1	2744.0	2370.1	2056.7	2064.6
22033.8	55°	19189.7	14162.5	4416.2	2759.8	3086.4	3204.9	2736.1	2312.1	1954.0	1917.1
23777.1	57.5°	20364.2	14291.5	4303.0	2628.1	2954.7	3044.2	2728.2	2267.4	1922.4	1861.8
25559.9	60°	21559.8	14481.1	4155.5	2467.5	2778.3	2852.0	2709.8	2251.6	1904.0	1801.3
27240.0	62.5°	22631.6	14547.0	3979.1	2314.8	2551.8	2662.4	2670.3	2238.4	1853.9	1677.5
28635.7	65°	23334.7	14262.6	3671.0	2141.0	2306.9	2467.5	2593.9	2193.6	1764.4	1587.9
29325.7	67.5°	23305.7	13451.5	3189.1	1917.1	2069.9	2251.6	2483.3	2117.3	1656.4	1477.3
28804.3	70°	22220.7	11850.4	2578.1	1656.4	1809.2	2019.8	2341.1	2004.0	1527.4	1356.2
25612.6	72.5°	19058.0	9274.9	1872.4	1350.9	1506.3	1780.2	2156.8	1867.1	1395.7	1248.2
18929.0	75°	13614.8	5869.9	1269.3	1037.6	1171.9	1508.9	1927.7	1706.5	1274.6	1253.5
9480.3	77.5°	6954.8	2804.6	840.1	758.4	816.4	1190.3	1619.5	1524.7	1293.0	1034.9
2696.6	80°	2262.1	1034.9	529.3	516.1	542.5	792.7	1253.5	1250.9	979.6	703.1
653.1	82.5°	721.6	445.0	345.0	331.8	318.6	497.7	874.3	990.2	661.0	445.0
234.4	85°	287.0	266.0	202.8	187.0	134.3	234.4	458.2	658.4	492.4	321.3
60.6	87.5°	105.3	105.3	55.3	39.5	29.0	79.0	123.8	197.5	281.8	165.9
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>
7173.4
7729.1
7995.0
7942.4
7542.1
6891.6
6235.9
5746.1
5459.1
5345.8
5280.0
5214.2
5000.9
4513.7
3921.2
3370.8
2933.6
2636.0
2628.1
2604.4
2428.0
2119.9
1943.5
1869.7
1809.2
1677.5
1587.9
1485.2
1372.0
1240.3
1182.4
921.7
621.5
442.4
329.2
163.3
0.0

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