

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: P941317

Luminaire Tested: **GALN-SB4D-750-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941317
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4D-750-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43177 lumens
Efficiency: N/A
Efficacy: 147.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

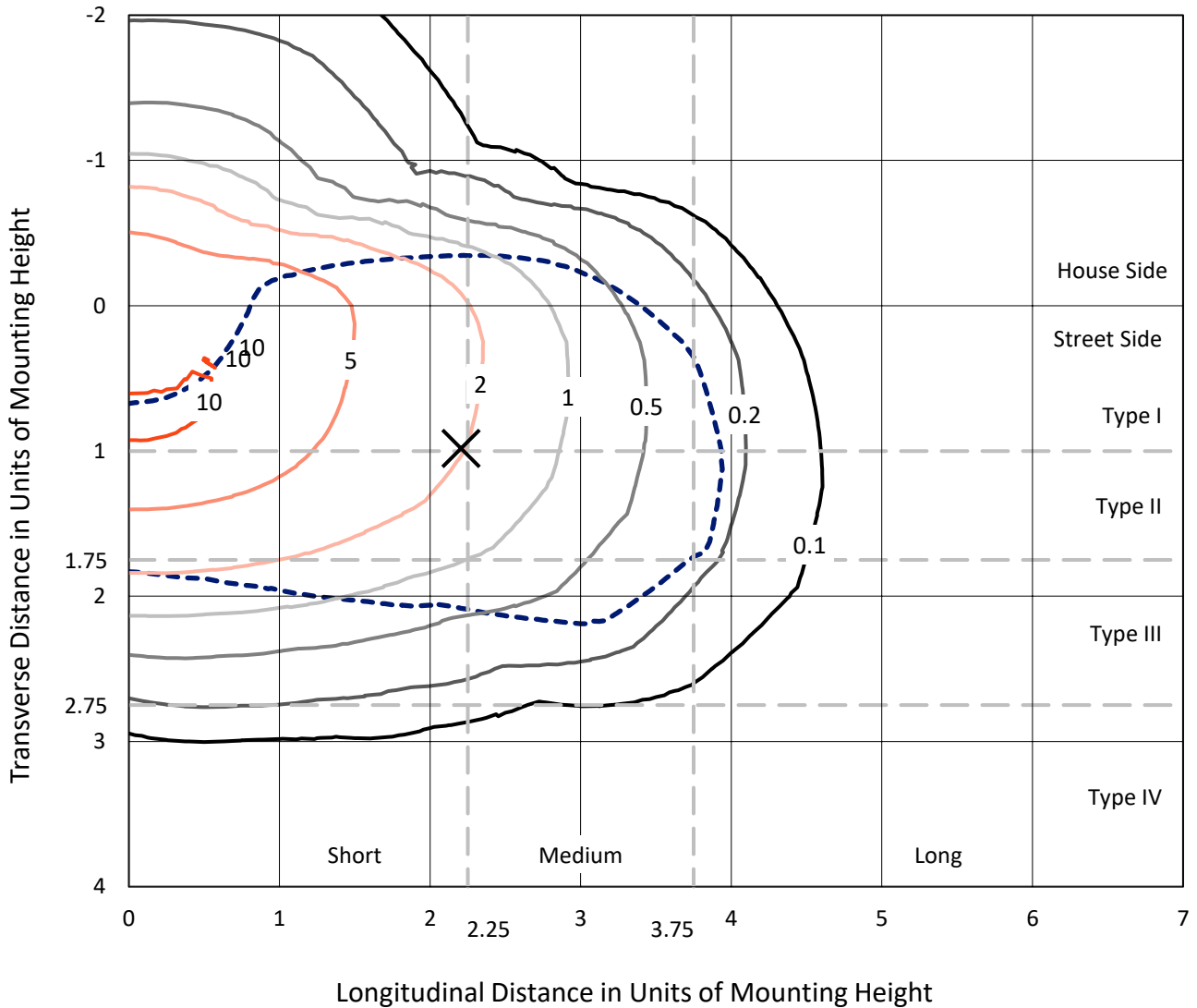
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

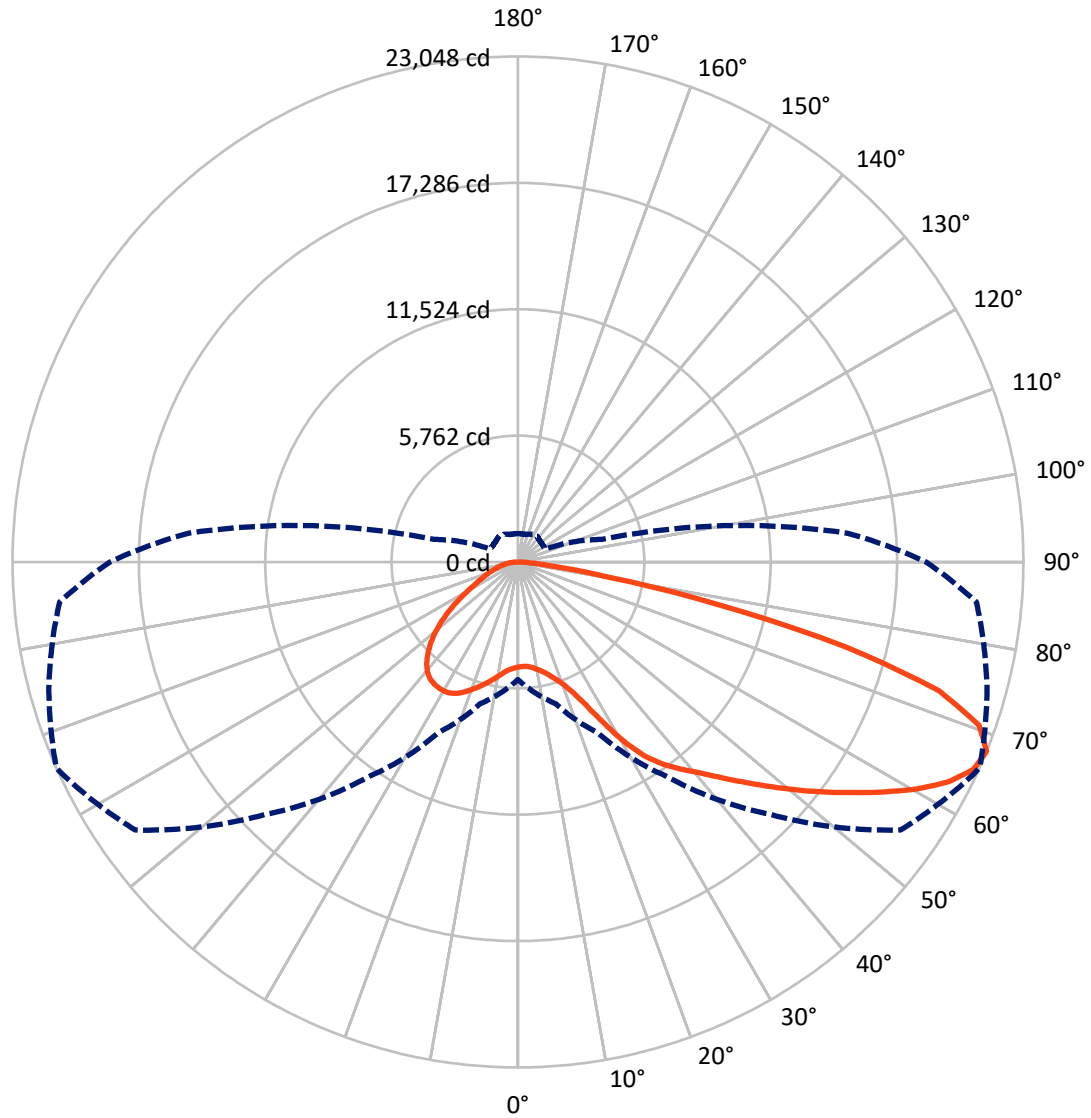
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10735.8	0.0	10735.8
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	32441.2	0.0	32441.2
	% Fixture	75.1	0.0	75.1
Total	Lumens	43177.0	0.0	43177.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	474.8	1.1
10°-20°	1568.7	3.6
20°-30°	3023.5	7.0
30°-40°	5301.4	12.3
40°-50°	7881.4	18.3
50°-60°	9990.5	23.1
60°-70°	9775.4	22.6
70°-80°	4663.0	10.8
80°-90°	498.3	1.2
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°	43177.0	100.0
0°-180°	43177.0	100.0

Coefficient of Utilization



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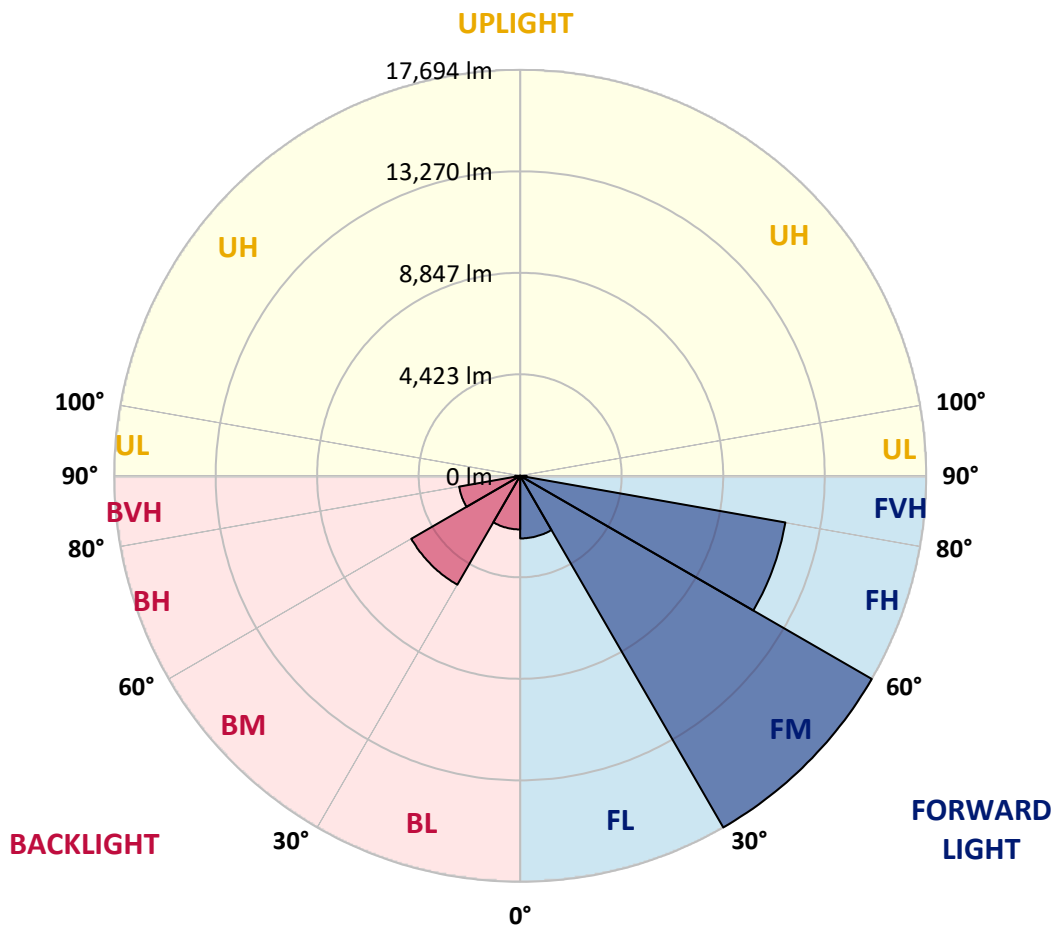
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2728.4	6.3			
FM (30°-60°)	17693.6	41.0			
FH (60°-80°)	11736.7	27.2			G4/12000
FVH (80°-90°)	282.5	0.7			G3/500
BL (0°-30°)	2338.7	5.4	B3/2500		
BM (30°-60°)	5479.7	12.7	B4/8500		
BH (60°-80°)	2701.7	6.3	B4/5000		G4/5000
BVH (80°-90°)	215.8	0.5			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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	4788.9	4788.9	4788.9	4788.9	4788.9	4788.9	4788.9	4788.9	4788.9	4788.9
2.5°	4739.0	4766.2	4759.4	4748.1	4745.8	4750.3	4757.1	4763.9	4761.7	4773.0
5°	4725.4	4752.6	4750.3	4750.3	4759.4	4777.6	4788.9	4800.2	4788.9	4802.5
7.5°	4734.5	4754.9	4763.9	4773.0	4795.7	4829.7	4857.0	4881.9	4868.3	4884.2
10°	4850.2	4866.0	4875.1	4875.1	4891.0	4929.5	4956.8	5002.1	4990.8	5015.8
12.5°	5061.1	5077.0	5077.0	5067.9	5079.3	5104.2	5113.3	5163.2	5142.8	5183.6
15°	5319.7	5351.5	5326.5	5310.7	5315.2	5340.2	5337.9	5376.5	5356.0	5390.1
17.5°	5605.6	5646.4	5605.6	5603.3	5594.2	5621.5	5623.7	5657.8	5621.5	5646.4
20°	5943.6	6000.3	5966.3	5977.6	5957.2	5968.5	5979.9	6029.8	5973.1	5991.2
22.5°	6420.0	6488.0	6451.7	6494.8	6481.2	6472.2	6469.9	6558.4	6469.9	6476.7
25°	7114.2	7195.8	7132.3	7191.3	7191.3	7220.8	7254.8	7368.2	7220.8	7177.7
27.5°	8139.5	8221.2	8096.4	8132.7	8121.4	8194.0	8157.7	8439.0	8280.2	8209.9
30°	9373.6	9518.8	9282.9	9273.8	9262.5	9378.2	9430.3	9616.4	9455.3	9385.0
32.5°	10707.5	10859.5	10578.2	10496.6	10453.5	10523.8	10480.7	10630.4	10519.2	10410.4
35°	12118.6	12268.3	12000.6	11841.8	11669.4	11521.9	11367.7	11406.2	11301.9	11136.3
37.5°	13452.5	13727.0	13443.4	13273.3	12955.7	12667.6	12236.5	12057.3	11959.8	11807.8
40°	14811.3	14967.9	14752.4	14607.2	14262.3	13810.9	13121.3	12742.4	12610.8	12463.4
42.5°	15811.8	15961.5	15845.8	15746.0	15476.0	14952.0	14060.4	13586.3	13395.8	13230.2
45°	16605.8	16716.9	16644.3	16680.6	16564.9	16056.8	15033.7	14491.5	14294.1	14092.2
47.5°	16925.6	17043.6	17159.3	17374.8	17572.2	17197.8	16079.5	15471.5	15262.8	15056.3
50°	16889.3	17009.6	17345.3	17803.5	18416.1	18291.3	17182.0	16515.0	16322.2	16086.3
52.5°	16598.9	16735.1	17166.1	17928.3	18903.8	19110.2	18304.9	17592.6	17411.1	17129.8
55°	15836.7	15918.4	16564.9	17644.7	19019.5	19681.9	19405.1	18740.5	18559.0	18166.5
57.5°	14423.4	14541.4	15482.8	16880.2	18729.1	20069.8	20371.5	19947.3	19772.6	19207.8
60°	12579.1	12767.4	13844.9	15596.3	17989.6	20067.6	21249.5	21133.8	20988.6	20233.2
62.5°	10492.0	10709.8	11746.5	13781.4	16696.5	19498.2	21798.5	22127.4	22052.5	21179.1
65°	8057.9	8207.6	9239.8	11433.5	14684.3	18275.4	21862.0	22805.7	22819.3	21898.3
67.5°	5365.1	5796.1	6692.2	8579.6	11989.3	16276.8	21303.9	22916.8	23048.4	22145.5
70°	2617.9	3185.0	4063.0	5576.1	8579.6	13212.0	19845.2	22004.9	22297.5	21424.1
72.5°	1086.6	1270.4	1749.0	2751.7	4925.0	8915.4	16914.3	19532.2	20074.4	18983.2
75°	732.7	794.0	1000.4	1411.0	2243.6	4396.4	12198.0	14564.1	15437.5	14337.2
77.5°	564.9	603.4	728.2	986.8	1333.9	1662.8	6528.9	8777.0	9228.4	8543.3
80°	444.6	474.1	544.5	719.1	946.0	889.3	2225.4	3976.8	4237.6	3554.8
82.5°	385.7	397.0	390.2	487.7	628.4	519.5	730.5	1467.7	1619.7	1175.1
85°	279.0	310.8	324.4	301.7	333.5	263.2	299.4	519.5	571.7	510.4
87.5°	113.4	167.9	206.4	195.1	122.5	74.9	93.0	152.0	174.7	190.6
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°
4788.9	0°	4788.9	4788.9	4788.9	4788.9	4788.9	4788.9	4788.9	4788.9	4788.9	4788.9
4791.2	2.5°	4793.4	4809.3	4820.7	4834.3	4843.3	4857.0	4884.2	4900.1	4902.3	4913.7
4827.5	5°	4836.5	4859.2	4884.2	4920.5	4961.3	4995.3	5047.5	5083.8	5097.4	5108.8
4915.9	7.5°	4929.5	4961.3	5006.7	5070.2	5129.2	5174.6	5238.1	5281.2	5324.3	5340.2
5056.6	10°	5067.9	5113.3	5179.1	5265.3	5328.8	5387.8	5453.6	5489.9	5533.0	5551.1
5224.5	12.5°	5240.3	5288.0	5374.2	5494.4	5553.4	5594.2	5616.9	5607.8	5616.9	5632.8
5426.4	15°	5437.7	5489.9	5587.4	5716.7	5757.6	5721.3	5671.4	5626.0	5619.2	5623.7
5671.4	17.5°	5671.4	5709.9	5823.4	5932.2	5902.8	5753.0	5644.1	5571.5	5535.3	5523.9
5984.4	20°	5998.0	5998.0	6091.0	6159.1	5961.7	5707.7	5537.5	5419.6	5344.7	5312.9
6410.9	22.5°	6395.0	6358.7	6417.7	6370.1	5950.4	5580.6	5344.7	5140.5	5027.1	4981.7
7007.5	25°	6898.6	6855.5	6839.7	6544.8	5868.7	5378.7	4995.3	4748.1	4648.3	4623.3
7867.3	27.5°	7658.6	7549.7	7343.3	6640.0	5719.0	5061.1	4587.0	4357.9	4301.2	4303.4
8972.1	30°	8670.4	8452.6	7946.7	6655.9	5474.0	4612.0	4169.6	4006.3	3979.0	3990.4
9899.9	32.5°	9607.3	9400.9	8563.8	6583.3	5097.4	4171.9	3795.3	3686.4	3645.6	3659.2
10607.7	35°	10342.3	10285.6	9135.4	6481.2	4634.6	3759.0	3459.5	3366.5	3287.1	3269.0
11274.7	37.5°	11036.5	11013.8	9564.2	6338.3	4176.4	3466.3	3189.6	3067.1	2951.4	2887.9
12011.9	40°	11798.7	11776.0	9845.5	6118.3	3770.3	3212.3	2946.8	2785.8	2642.9	2527.2
12846.8	42.5°	12656.2	12522.4	9979.3	5802.9	3425.5	2996.7	2749.5	2531.7	2343.4	2236.8
13790.5	45°	13593.1	13291.4	9977.1	5401.4	3135.1	2799.4	2538.5	2230.0	2055.3	1955.5
14759.2	47.5°	14586.7	14026.4	9854.6	4956.8	2853.8	2581.6	2211.8	1975.9	1860.2	1799.0
15811.8	50°	15612.1	14713.8	9645.9	4446.3	2565.7	2334.3	2007.7	1846.6	1758.1	1701.4
16855.3	52.5°	16576.3	15337.6	9394.0	3867.9	2273.1	2093.9	1916.9	1792.2	1699.1	1635.6
17867.1	55°	17472.3	15875.3	9037.9	3275.8	2034.9	1932.8	1873.8	1769.5	1662.8	1588.0
18894.7	57.5°	18268.6	16224.6	8423.1	2720.0	1864.7	1821.6	1828.4	1730.9	1608.4	1544.9
19906.5	60°	18931.0	16481.0	7513.4	2205.0	1726.4	1712.8	1758.1	1658.3	1515.4	1442.8
20761.7	62.5°	19328.0	16476.4	6397.3	1805.8	1608.4	1612.9	1665.1	1567.6	1422.4	1354.3
21208.6	65°	19294.0	16072.6	5172.3	1544.9	1495.0	1499.5	1567.6	1467.7	1345.2	1304.4
20984.0	67.5°	18611.1	15088.1	3967.7	1374.7	1370.2	1390.6	1470.0	1399.7	1297.6	1293.1
19645.6	70°	16762.3	13044.1	2858.4	1238.6	1240.9	1270.4	1374.7	1356.6	1272.7	1281.7
16517.3	72.5°	13441.1	9945.3	1919.2	1095.7	1098.0	1145.6	1284.0	1322.6	1247.7	1367.9
11719.3	75°	8951.7	6202.2	1234.1	943.7	946.0	1007.2	1204.6	1256.8	1179.6	1363.4
6097.9	77.5°	4301.2	2788.0	893.8	794.0	794.0	850.7	1041.3	1125.2	1005.0	1059.4
1960.0	80°	1485.9	1048.1	703.2	639.7	626.1	664.7	877.9	975.5	866.6	798.5
639.7	82.5°	585.3	544.5	564.9	496.8	451.4	476.4	682.8	805.3	637.5	576.2
360.7	85°	335.7	353.9	399.3	328.9	260.9	292.6	501.3	578.5	480.9	424.2
118.0	87.5°	90.7	124.8	183.8	170.1	118.0	124.8	238.2	319.9	276.8	213.2
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>
4788.9
4911.4
5106.5
5342.4
5560.2
5637.3
5639.6
5539.8
5306.1
4974.9
4627.8
4310.2
4028.9
3677.3
3282.6
2890.1
2538.5
2243.6
1950.9
1785.3
1681.0
1608.4
1558.5
1504.0
1411.0
1333.9
1302.1
1299.9
1279.5
1386.1
1374.7
970.9
748.6
573.9
433.3
220.0
0.0

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