

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: P944149

Luminaire Tested: **GALN-SB8D-950-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944149
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-SB8D-950-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 56576 lumens
Efficiency: N/A
Efficacy: 96.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

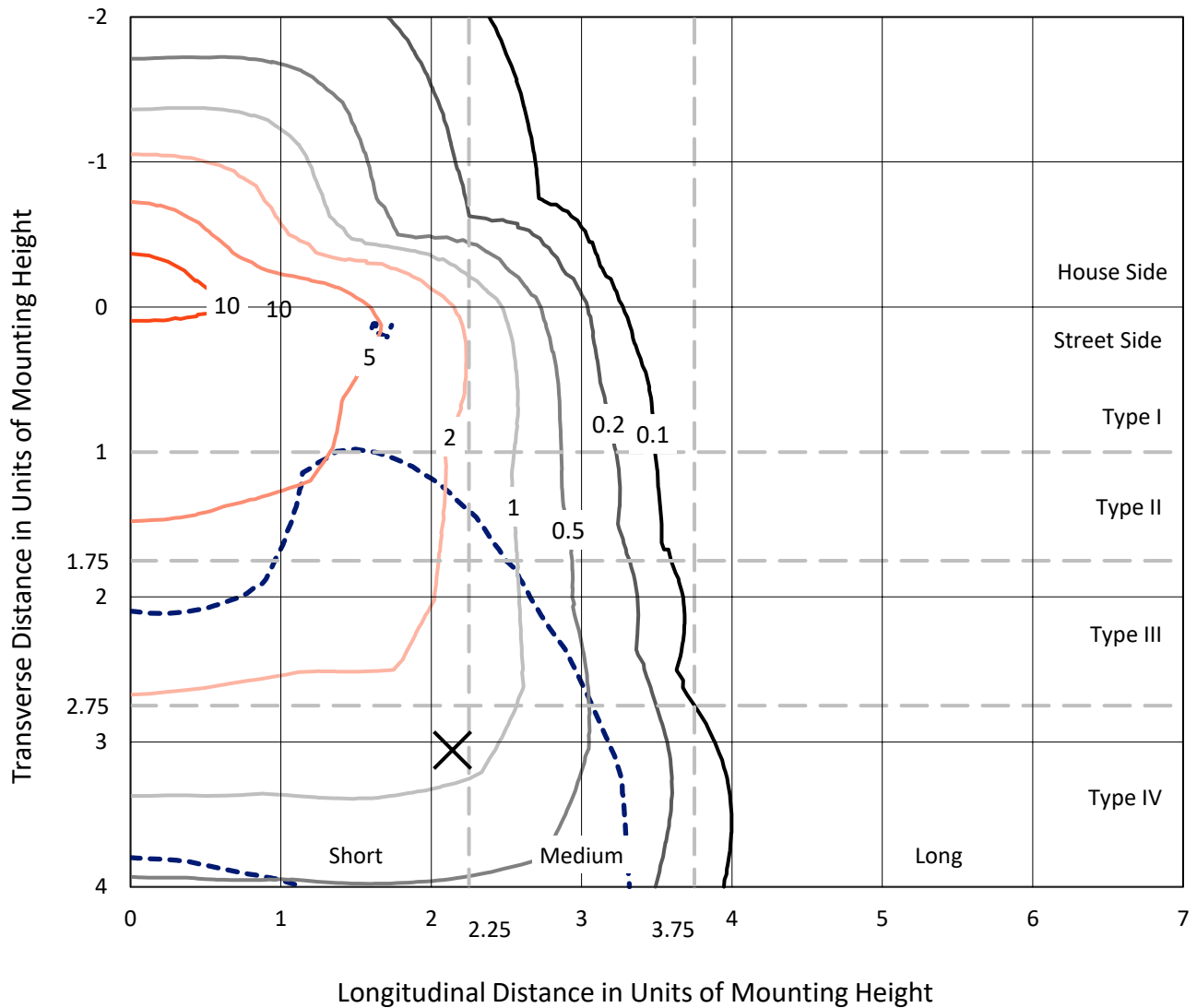
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

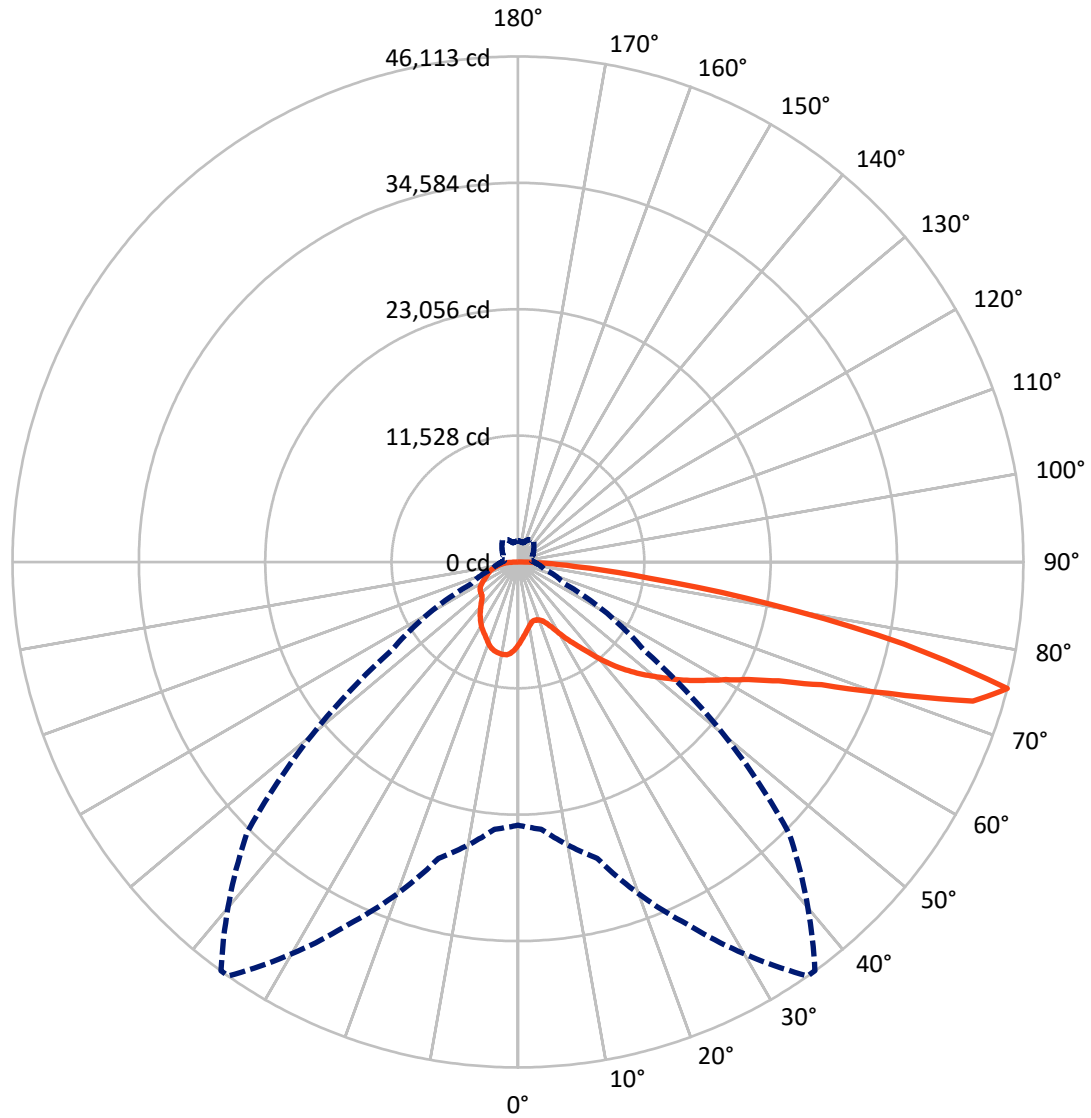
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.3 fc
 Type IV - Short - N/A

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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	13463.7	0.0	13463.7
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	43112.3	0.0	43112.3
	% Fixture	76.2	0.0	76.2
Total	Lumens	56576.0	0.0	56576.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	713.8	1.3
10°-20°	2058.9	3.6
20°-30°	3457.5	6.1
30°-40°	5373.4	9.5
40°-50°	7975.5	14.1
50°-60°	11010.7	19.5
60°-70°	13358.5	23.6
70°-80°	11039.8	19.5
80°-90°	1587.9	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°	56576.0	100.0
0°-180°	56576.0	100.0

Coefficient of Utilization



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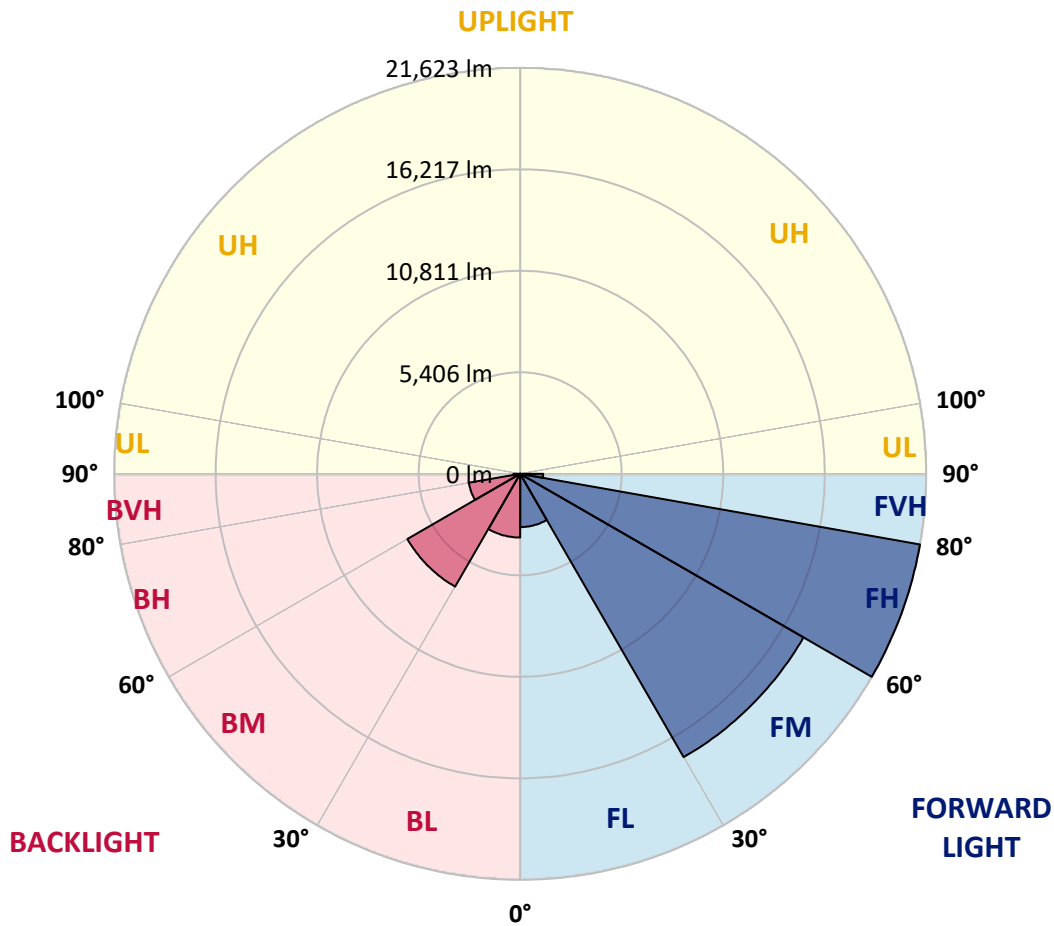
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2837.2	5.0			
FM (30°-60°)	17422.3	30.8			
FH (60°-80°)	21622.5	38.2			G5
FVH (80°-90°)	1230.3	2.2			G5
BL (0°-30°)	3393.0	6.0	B4/5000		
BM (30°-60°)	6937.3	12.3	B4/8500		
BH (60°-80°)	2775.8	4.9	B4/5000		G4/5000
BVH (80°-90°)	357.5	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	7539.1	7539.1	7539.1	7539.1	7539.1	7539.1	7539.1	7539.1	7539.1	7539.1
2.5°	6951.9	6994.7	7013.1	7003.9	7049.8	7043.7	7107.9	7187.4	7297.5	7404.6
5°	6416.7	6462.6	6502.3	6539.0	6627.7	6655.2	6756.2	6909.1	7110.9	7315.9
7.5°	5918.1	5957.9	6019.1	6086.4	6236.2	6263.8	6432.0	6670.5	6951.9	7251.6
10°	5511.4	5551.1	5615.4	5691.8	5878.4	5912.0	6126.1	6444.2	6811.2	7190.5
12.5°	5337.0	5349.3	5386.0	5462.4	5624.5	5645.9	5881.4	6245.4	6673.6	7144.6
15°	5327.9	5352.3	5355.4	5395.1	5529.7	5538.9	5756.0	6116.9	6587.9	7135.4
17.5°	5419.6	5438.0	5410.4	5434.9	5548.1	5563.4	5734.6	6055.8	6560.4	7175.2
20°	5664.3	5679.6	5597.0	5563.4	5645.9	5658.2	5826.4	6095.5	6587.9	7257.8
22.5°	6184.2	6193.4	5991.5	5853.9	5860.0	5866.2	6013.0	6257.6	6695.0	7407.6
25°	6994.7	6988.6	6667.5	6401.4	6248.5	6214.8	6312.7	6520.7	6875.4	7606.4
27.5°	7942.9	7897.0	7575.8	7178.2	6844.9	6795.9	6774.5	6863.2	7132.4	7869.4
30°	9013.3	8970.5	8624.9	8105.0	7643.1	7563.6	7361.7	7315.9	7514.7	8227.3
32.5°	10187.8	10160.2	9747.4	9117.3	8499.5	8407.7	8068.3	7945.9	8101.9	8768.6
35°	11172.6	11148.1	10805.6	10157.2	9401.7	9288.6	8943.0	8805.3	8884.9	9462.9
37.5°	12062.6	12050.4	11756.8	11246.0	10466.1	10328.5	9940.0	9894.2	9878.9	10377.4
40°	12888.4	12857.8	12552.0	12282.8	11704.8	11579.4	11236.8	11197.1	11080.8	11502.9
42.5°	13802.9	13723.4	13279.9	13154.5	12998.5	12894.5	12689.6	12695.7	12438.8	12772.2
45°	14549.2	14503.3	14047.6	13974.2	14142.4	14099.6	14276.9	14322.8	13824.3	14102.6
47.5°	15350.5	15307.7	14922.3	14870.3	15326.0	15338.2	15965.2	15980.5	15176.1	15485.0
50°	16338.4	16277.2	15894.9	15959.1	16469.9	16515.8	17662.7	17558.7	16420.9	16888.9
52.5°	16989.8	17026.5	16943.9	17047.9	17745.3	17788.1	19332.6	19066.5	17653.5	18274.4
55°	17470.0	17543.4	17800.3	18038.9	19091.0	19133.8	20907.7	20500.9	18675.0	19558.9
57.5°	18087.8	17983.8	18464.0	18928.9	20369.4	20482.6	22440.0	21883.4	19580.3	20666.1
60°	18974.8	18901.4	19274.5	19962.7	21800.8	21981.2	24061.0	23128.2	20244.0	21543.9
62.5°	20773.1	20589.6	20647.7	21256.4	23605.3	23843.9	25890.0	24213.9	20574.3	21886.4
65°	23461.5	23146.5	22852.9	23275.0	26146.9	26382.4	27954.4	25067.2	20452.0	21222.7
67.5°	26847.3	26535.3	26174.4	26572.0	29890.5	30077.0	30502.1	25547.4	19488.6	18665.9
70°	29639.7	29523.4	29954.7	31591.0	35869.8	35875.9	33768.6	25149.8	16849.1	13234.0
72.5°	29269.6	29199.2	31471.7	36530.4	43405.8	43243.7	36860.7	22140.3	11350.0	5970.1
75°	24012.1	24467.8	27988.1	36441.7	46112.6	46091.2	34967.5	14075.1	4694.8	2474.3
77.5°	12876.2	13598.0	18170.4	26905.4	35998.2	36539.6	24584.0	4924.1	2015.5	1584.3
80°	4199.3	4829.3	7242.5	13698.9	23391.2	23290.3	10536.4	1933.0	1379.4	1122.5
82.5°	1783.1	1856.5	3235.9	6468.7	12004.5	11817.9	3355.1	1110.2	969.5	767.7
85°	697.3	779.9	1428.3	2991.2	5199.4	5086.2	1211.2	550.5	620.9	501.6
87.5°	229.4	278.3	510.8	1024.6	1617.9	1559.8	296.7	189.6	269.1	229.4
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°
7539.1	0°	7539.1	7539.1	7539.1	7539.1	7539.1	7539.1	7539.1	7539.1	7539.1	7539.1
7560.5	2.5°	7603.4	7652.3	7710.4	7796.0	7869.4	7930.6	7994.8	8034.6	8049.9	8095.8
7572.8	5°	7658.4	7765.5	7909.2	8049.9	8187.5	8270.1	8343.5	8380.2	8413.9	8438.3
7606.4	7.5°	7750.2	7887.8	8114.1	8297.6	8413.9	8481.1	8530.1	8517.8	8530.1	8536.2
7643.1	10°	7829.7	8022.4	8291.5	8465.9	8554.5	8557.6	8545.4	8502.6	8481.1	8484.2
7698.2	12.5°	7924.5	8138.6	8429.2	8576.0	8600.4	8533.1	8481.1	8407.7	8380.2	8368.0
7780.8	15°	8053.0	8297.6	8579.0	8634.1	8572.9	8487.3	8398.6	8279.3	8218.1	8169.2
7921.4	17.5°	8208.9	8478.1	8695.2	8655.5	8524.0	8383.3	8239.5	8059.1	7933.7	7881.7
8114.1	20°	8426.1	8667.7	8783.9	8609.6	8410.8	8196.7	7952.0	7731.8	7615.6	7563.6
8358.8	22.5°	8689.1	8921.6	8869.6	8530.1	8248.7	7906.2	7600.3	7438.2	7380.1	7343.4
8673.8	25°	9004.1	9202.9	8930.7	8413.9	7982.6	7520.8	7285.3	7233.3	7205.8	7178.2
9059.2	27.5°	9414.0	9521.0	8976.6	8242.6	7566.7	7110.9	7025.3	7034.5	7025.3	6979.4
9594.4	30°	9955.3	9933.9	9019.4	7964.3	7089.5	6740.9	6747.0	6786.8	6792.9	6762.3
10340.7	32.5°	10668.0	10450.8	9040.8	7603.4	6633.8	6416.7	6422.8	6465.6	6496.2	6444.2
11316.3	35°	11530.4	11053.3	9007.2	7150.7	6282.1	6107.8	6061.9	6074.1	6083.3	6034.4
12500.0	37.5°	12536.7	11729.2	8857.3	6649.1	5991.5	5805.0	5707.1	5624.5	5575.6	5529.7
13839.6	40°	13640.8	12466.3	8582.1	6159.8	5667.3	5483.8	5337.0	5181.1	5015.9	4954.7
15258.7	42.5°	14796.9	13224.8	8248.7	5691.8	5294.2	5144.4	4988.4	4762.0	4514.3	4388.9
16732.9	45°	15995.8	14001.7	7921.4	5230.0	4911.9	4847.7	4667.2	4395.0	4125.9	3966.8
18210.1	47.5°	17170.3	14735.7	7441.3	4765.1	4554.1	4624.4	4483.7	4232.9	3933.2	3682.4
19675.2	50°	18292.7	15423.9	6655.2	4294.1	4263.5	4557.1	4422.6	4061.7	3719.1	3398.0
21112.6	52.5°	19406.0	15980.5	5649.0	3865.9	4107.5	4538.8	4343.0	3945.4	3526.4	3190.0
22464.5	55°	20351.1	16268.0	4679.5	3498.9	3881.2	4382.8	4248.2	3807.8	3254.2	2896.4
23391.2	57.5°	20889.4	16035.6	3872.0	3138.0	3569.2	4125.9	4086.1	3514.2	2930.0	2654.8
23571.6	60°	20656.9	15093.6	3211.4	2823.0	3272.6	3847.6	3804.7	3223.6	2682.3	2422.3
22605.2	62.5°	19375.4	13298.2	2688.4	2547.7	3003.4	3563.1	3523.4	3000.4	2492.7	2241.9
20039.1	65°	16794.1	10817.8	2281.6	2318.3	2731.2	3220.6	3278.7	2813.8	2342.8	2098.1
15503.4	67.5°	12808.9	7835.8	1963.5	2119.5	2465.1	2884.1	3052.4	2679.2	2217.4	1984.9
8970.5	70°	7300.6	4450.1	1694.4	1926.8	2229.6	2572.2	2878.0	2572.2	2082.8	1890.1
3361.3	72.5°	2767.9	2043.1	1465.0	1734.2	2003.3	2309.1	2685.3	2404.0	1926.8	1783.1
1737.2	75°	1477.2	1244.8	1232.6	1507.8	1743.3	2052.2	2443.7	2238.8	1810.6	1884.0
1202.0	77.5°	1006.2	880.8	1030.7	1290.7	1458.9	1767.8	2186.8	1988.0	1569.0	1562.9
831.9	80°	697.3	623.9	838.0	1039.9	1128.6	1486.4	1908.5	1706.6	1278.4	1192.8
513.8	82.5°	419.0	406.8	627.0	776.9	798.3	1146.9	1581.2	1431.4	1046.0	911.4
305.8	85°	229.4	241.6	400.7	455.7	464.9	801.3	1238.7	1107.2	804.4	675.9
110.1	87.5°	64.2	82.6	146.8	180.4	223.3	416.0	737.1	657.6	403.7	281.4
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>
7539.1
8092.7
8444.4
8545.4
8490.3
8361.9
8184.5
7884.7
7557.5
7349.5
7178.2
6988.6
6777.6
6468.7
6068.0
5560.3
4982.3
4404.2
3954.6
3654.9
3370.4
3153.3
2865.8
2618.1
2385.6
2202.1
2058.4
1948.2
1865.7
1758.6
1945.2
1440.5
1140.8
917.5
682.0
281.4
0.0

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