

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: P943889

Luminaire Tested: **GALN-SB8C-827-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943889
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-827-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 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: 52047 lumens
Efficiency: N/A
Efficacy: 130.2 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

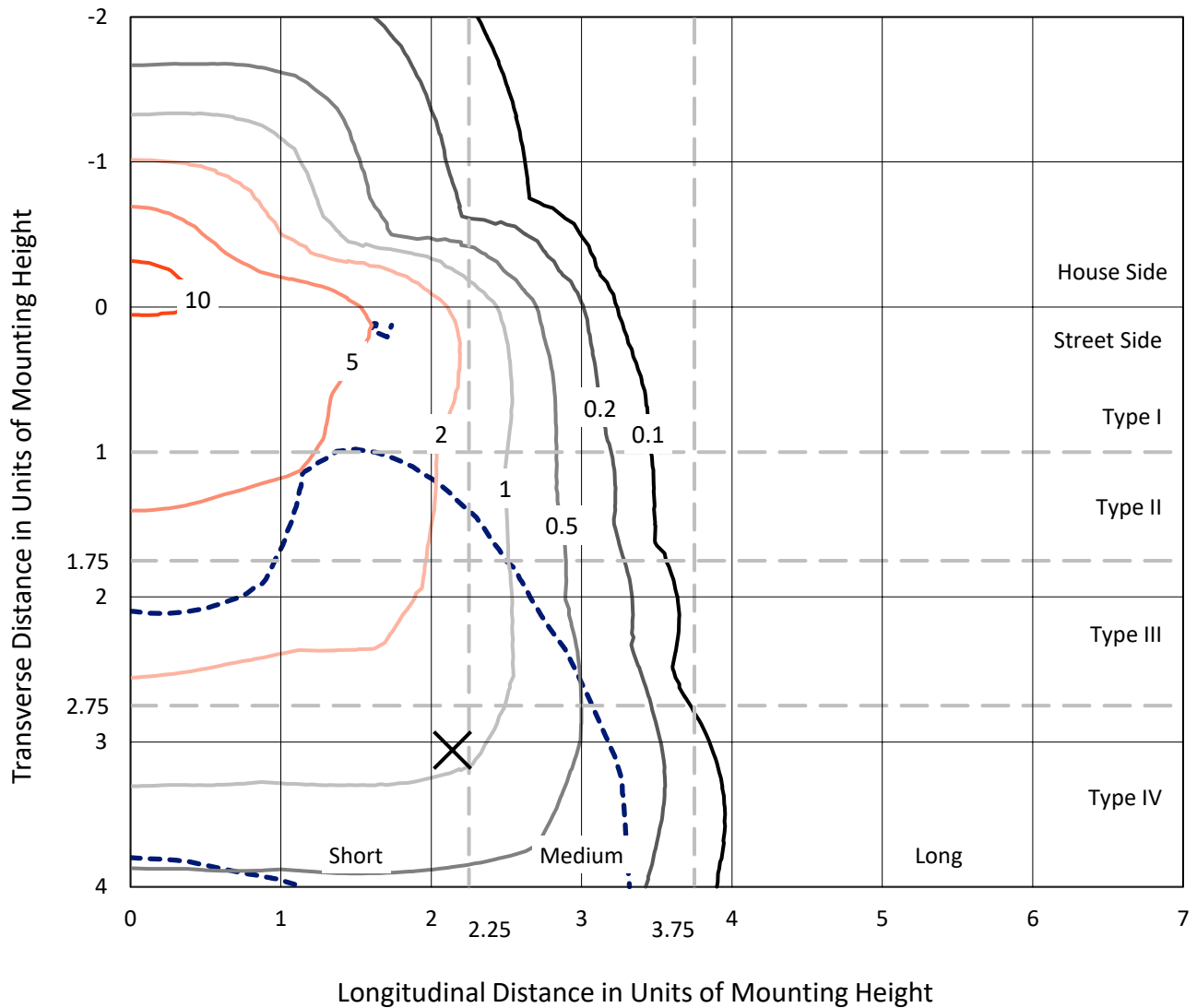
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

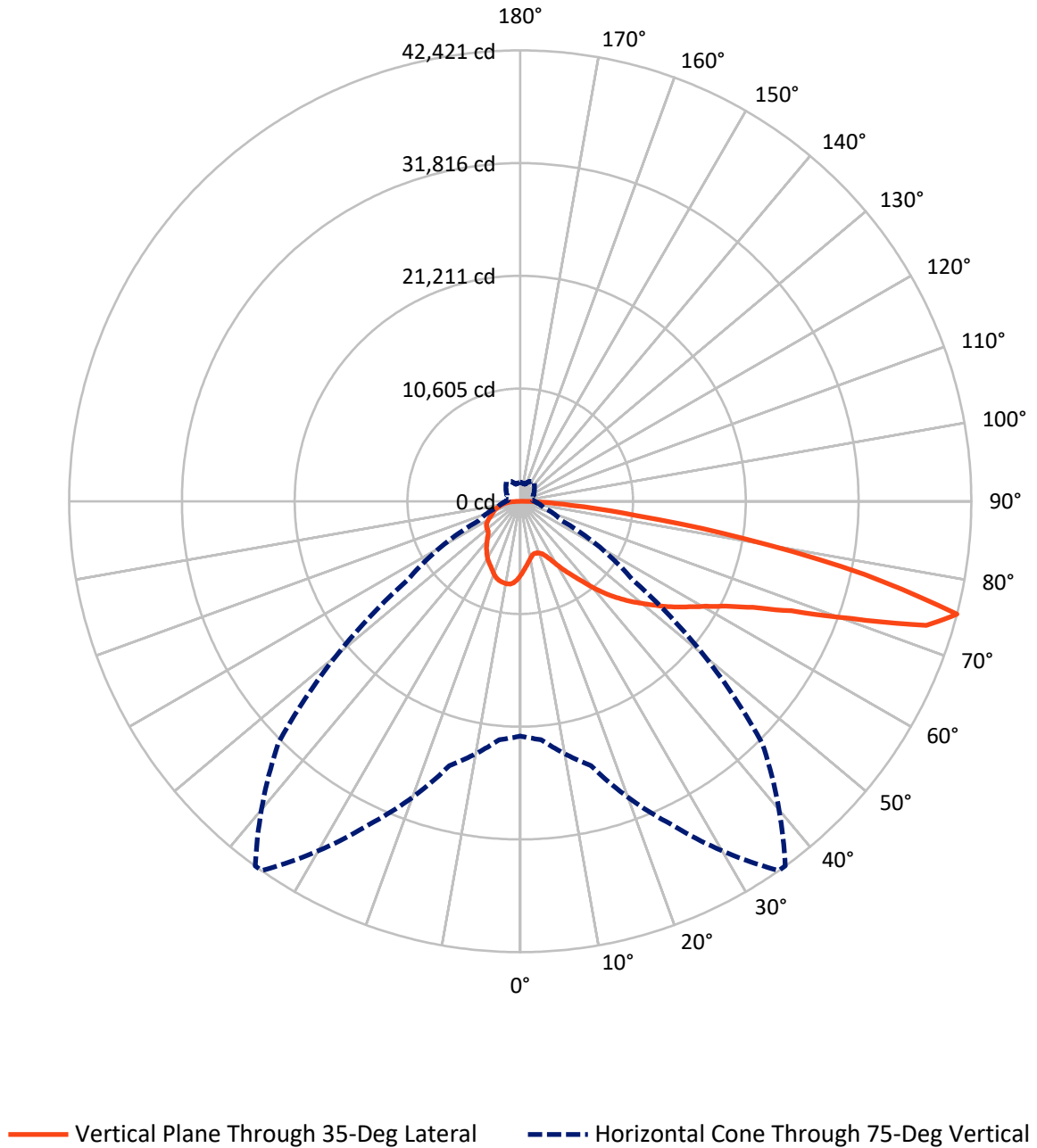
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12385.9	0.0	12385.9
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	39661.1	0.0	39661.1
	% Fixture	76.2	0.0	76.2
Total	Lumens	52047.0	0.0	52047.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	656.7	1.3
10°-20°	1894.1	3.6
20°-30°	3180.7	6.1
30°-40°	4943.2	9.5
40°-50°	7337.1	14.1
50°-60°	10129.3	19.5
60°-70°	12289.1	23.6
70°-80°	10156.0	19.5
80°-90°	1460.8	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°	52047.0	100.0
0°-180°	52047.0	100.0

Coefficient of Utilization



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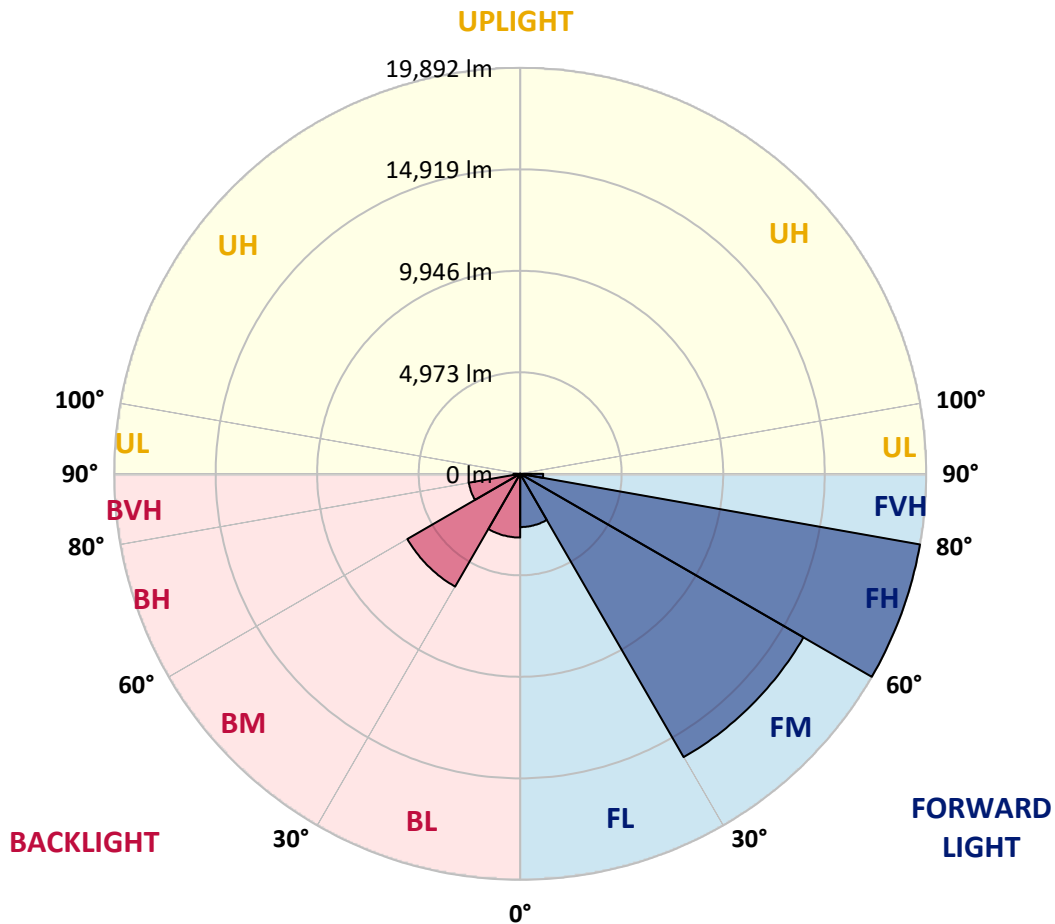
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2610.1	5.0			
FM (30°-60°)	16027.7	30.8			
FH (60°-80°)	19891.6	38.2			G5
FVH (80°-90°)	1131.8	2.2			G5
BL (0°-30°)	3121.4	6.0	B4/5000		
BM (30°-60°)	6382.0	12.3	B4/8500		
BH (60°-80°)	2553.6	4.9	B4/5000		G4/5000
BVH (80°-90°)	328.9	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°	6935.6	6935.6	6935.6	6935.6	6935.6	6935.6	6935.6	6935.6	6935.6	6935.6
2.5°	6395.4	6434.8	6451.7	6443.2	6485.4	6479.8	6538.9	6612.0	6713.3	6811.8
5°	5903.0	5945.2	5981.8	6015.6	6097.2	6122.5	6215.3	6356.0	6541.7	6730.2
7.5°	5444.4	5481.0	5537.2	5599.1	5737.0	5762.3	5917.1	6136.5	6395.4	6671.1
10°	5070.2	5106.8	5165.8	5236.2	5407.8	5438.8	5635.7	5928.3	6266.0	6614.9
12.5°	4909.8	4921.1	4954.8	5025.2	5174.3	5194.0	5410.6	5745.4	6139.4	6572.7
15°	4901.4	4923.9	4926.7	4963.3	5087.1	5095.5	5295.3	5627.3	6060.6	6564.2
17.5°	4985.8	5002.6	4977.3	4999.8	5103.9	5118.0	5275.6	5571.0	6035.3	6600.8
20°	5210.9	5224.9	5149.0	5118.0	5194.0	5205.2	5360.0	5607.6	6060.6	6676.8
22.5°	5689.2	5697.6	5511.9	5385.3	5390.9	5396.6	5531.6	5756.7	6159.1	6814.6
25°	6434.8	6429.2	6133.7	5888.9	5748.3	5717.3	5807.3	5998.7	6325.1	6997.5
27.5°	7307.0	7264.8	6969.4	6603.6	6296.9	6251.9	6232.2	6313.8	6561.4	7239.5
30°	8291.8	8252.4	7934.5	7456.1	7031.3	6958.1	6772.4	6730.2	6913.1	7568.7
32.5°	9372.2	9346.9	8967.1	8387.5	7819.1	7734.7	7422.4	7309.8	7453.3	8066.7
35°	10278.2	10255.7	9940.6	9344.1	8649.1	8545.0	8227.1	8100.5	8173.6	8705.4
37.5°	11097.0	11085.7	10815.6	10345.7	9628.3	9501.7	9144.3	9102.1	9088.0	9546.7
40°	11856.7	11828.5	11547.2	11299.6	10767.8	10652.4	10337.3	10300.7	10193.8	10582.1
42.5°	12697.9	12624.8	12216.8	12101.5	11958.0	11862.3	11673.8	11679.4	11443.1	11749.7
45°	13384.5	13342.3	12923.0	12855.5	13010.3	12970.9	13134.1	13176.3	12717.6	12973.7
47.5°	14121.6	14082.3	13727.7	13679.9	14099.1	14110.4	14687.2	14701.3	13961.3	14245.4
50°	15030.4	14974.2	14622.5	14681.6	15151.4	15193.6	16248.8	16153.1	15106.4	15536.9
52.5°	15629.8	15663.5	15587.5	15683.2	16324.7	16364.1	17785.0	17540.2	16240.3	16811.5
55°	16071.5	16139.0	16375.4	16594.8	17562.7	17602.1	19234.0	18859.8	17180.1	17993.2
57.5°	16639.8	16544.2	16985.9	17413.6	18738.8	18842.9	20643.7	20131.6	18012.9	19011.7
60°	17455.8	17388.3	17731.5	18364.6	20055.6	20221.6	22134.9	21276.7	18623.5	19819.3
62.5°	19110.2	18941.4	18994.9	19554.8	21715.6	21935.1	23817.4	22275.6	18927.3	20134.4
65°	21583.4	21293.6	21023.5	21411.8	24053.8	24270.4	25716.6	23060.6	18814.8	19523.8
67.5°	24698.1	24411.1	24079.1	24444.9	27497.7	27669.3	28060.4	23502.3	17928.5	17171.6
70°	27267.0	27160.0	27556.8	29062.1	32998.3	33004.0	31065.4	23136.5	15500.3	12174.6
72.5°	26926.5	26861.8	28952.3	33606.1	39931.1	39782.0	33910.0	20367.9	10441.4	5492.2
75°	22089.9	22509.1	25747.6	33524.5	42421.2	42401.5	32168.3	12948.4	4318.9	2276.2
77.5°	11845.4	12509.4	16715.8	24751.6	33116.5	33614.5	22616.0	4530.0	1854.2	1457.5
80°	3863.1	4442.7	6662.7	12602.3	21518.7	21425.8	9693.0	1778.2	1269.0	1032.6
82.5°	1640.4	1707.9	2976.8	5950.8	11043.5	10871.9	3086.6	1021.4	891.9	706.2
85°	641.5	717.5	1314.0	2751.7	4783.2	4679.1	1114.2	506.5	571.2	461.4
87.5°	211.0	256.0	469.9	942.6	1488.4	1435.0	272.9	174.4	247.6	211.0
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°
6935.6	0°	6935.6	6935.6	6935.6	6935.6	6935.6	6935.6	6935.6	6935.6	6935.6	6935.6
6955.3	2.5°	6994.7	7039.7	7093.2	7172.0	7239.5	7295.8	7354.8	7391.4	7405.5	7447.7
6966.6	5°	7045.3	7143.8	7276.1	7405.5	7532.1	7608.1	7675.6	7709.4	7740.3	7762.8
6997.5	7.5°	7129.8	7256.4	7464.6	7633.4	7740.3	7802.2	7847.2	7836.0	7847.2	7852.9
7031.3	10°	7202.9	7380.2	7627.8	7788.1	7869.7	7872.6	7861.3	7821.9	7802.2	7805.0
7081.9	12.5°	7290.1	7487.1	7754.4	7889.4	7911.9	7850.0	7802.2	7734.7	7709.4	7698.1
7157.9	15°	7408.3	7633.4	7892.3	7942.9	7886.6	7807.8	7726.2	7616.5	7560.2	7515.2
7287.3	17.5°	7551.8	7799.4	7999.2	7962.6	7841.6	7712.2	7579.9	7413.9	7298.6	7250.7
7464.6	20°	7751.6	7973.8	8080.8	7920.4	7737.5	7540.5	7315.5	7112.9	7006.0	6958.1
7689.7	22.5°	7993.5	8207.4	8159.5	7847.2	7588.4	7273.3	6991.9	6842.8	6789.3	6755.5
7979.5	25°	8283.3	8466.2	8215.8	7740.3	7343.6	6918.7	6702.1	6654.3	6628.9	6603.6
8334.0	27.5°	8660.4	8758.9	8258.0	7582.8	6960.9	6541.7	6462.9	6471.4	6462.9	6420.7
8826.4	30°	9158.4	9138.7	8297.4	7326.7	6522.0	6201.3	6206.9	6243.5	6249.1	6221.0
9512.9	32.5°	9814.0	9614.2	8317.1	6994.7	6102.8	5903.0	5908.6	5948.0	5976.2	5928.3
10410.5	35°	10607.4	10168.5	8286.2	6578.3	5779.2	5618.8	5576.6	5587.9	5596.3	5551.3
11499.3	37.5°	11533.1	10790.3	8148.3	6116.8	5511.9	5340.3	5250.2	5174.3	5129.3	5087.1
12731.7	40°	12548.8	11468.4	7895.1	5666.7	5213.7	5044.9	4909.8	4766.3	4614.4	4558.1
14037.2	42.5°	13612.4	12166.2	7588.4	5236.2	4870.4	4732.5	4589.0	4380.8	4152.9	4037.6
15393.4	45°	14715.3	12880.8	7287.3	4811.3	4518.7	4459.6	4293.6	4043.2	3795.6	3649.3
16752.4	47.5°	15795.8	13556.1	6845.6	4383.6	4189.5	4254.2	4124.8	3894.1	3618.3	3387.6
18100.1	50°	16828.4	14189.2	6122.5	3950.3	3922.2	4192.3	4068.5	3736.5	3421.4	3126.0
19422.5	52.5°	17852.5	14701.3	5196.8	3556.4	3778.7	4175.4	3995.4	3629.6	3244.1	2934.6
20666.2	55°	18721.9	14965.7	4304.9	3218.8	3570.5	4031.9	3908.1	3503.0	2993.7	2664.5
21518.7	57.5°	19217.1	14751.9	3562.1	2886.8	3283.5	3795.6	3759.0	3232.9	2695.5	2442.2
21684.7	60°	19003.3	13885.3	2954.3	2597.0	3010.6	3539.6	3500.2	2965.6	2467.6	2228.4
20795.6	62.5°	17824.4	12233.7	2473.2	2343.8	2763.0	3277.9	3241.3	2760.2	2293.1	2062.4
18434.9	65°	15449.7	9951.8	2099.0	2132.7	2512.6	2962.8	3016.2	2588.5	2155.2	1930.2
14262.3	67.5°	11783.5	7208.5	1806.4	1949.9	2267.8	2653.3	2808.0	2464.7	2039.9	1826.1
8252.4	70°	6716.2	4093.8	1558.8	1772.6	2051.1	2366.3	2647.6	2366.3	1916.1	1738.8
3092.2	72.5°	2546.3	1879.5	1347.7	1595.3	1842.9	2124.3	2470.4	2211.5	1772.6	1640.4
1598.1	75°	1359.0	1145.2	1133.9	1387.1	1603.8	1888.0	2248.1	2059.6	1665.7	1733.2
1105.8	77.5°	925.7	810.3	948.2	1187.4	1342.1	1626.3	2011.8	1828.9	1443.4	1437.8
765.3	80°	641.5	574.0	770.9	956.6	1038.2	1367.4	1755.7	1570.0	1176.1	1097.3
472.7	82.5°	385.5	374.2	576.8	714.7	734.4	1055.1	1454.7	1316.8	962.3	838.5
281.4	85°	211.0	222.3	368.6	419.2	427.7	737.2	1139.5	1018.5	740.0	621.8
101.3	87.5°	59.1	76.0	135.1	166.0	205.4	382.7	678.1	604.9	371.4	258.9
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>
6935.6
7444.9
7768.5
7861.3
7810.7
7692.5
7529.3
7253.6
6952.5
6761.2
6603.6
6429.2
6235.0
5950.8
5582.3
5115.2
4583.4
4051.6
3638.0
3362.3
3100.6
2900.9
2636.4
2408.5
2194.6
2025.8
1893.6
1792.3
1716.3
1617.8
1789.5
1325.2
1049.5
844.1
627.4
258.9
0.0

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