

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: P943689

Luminaire Tested: **GALN-SB8B-740-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943689
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-SB8B-740-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47613 lumens
Efficiency: N/A
Efficacy: 162.6 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

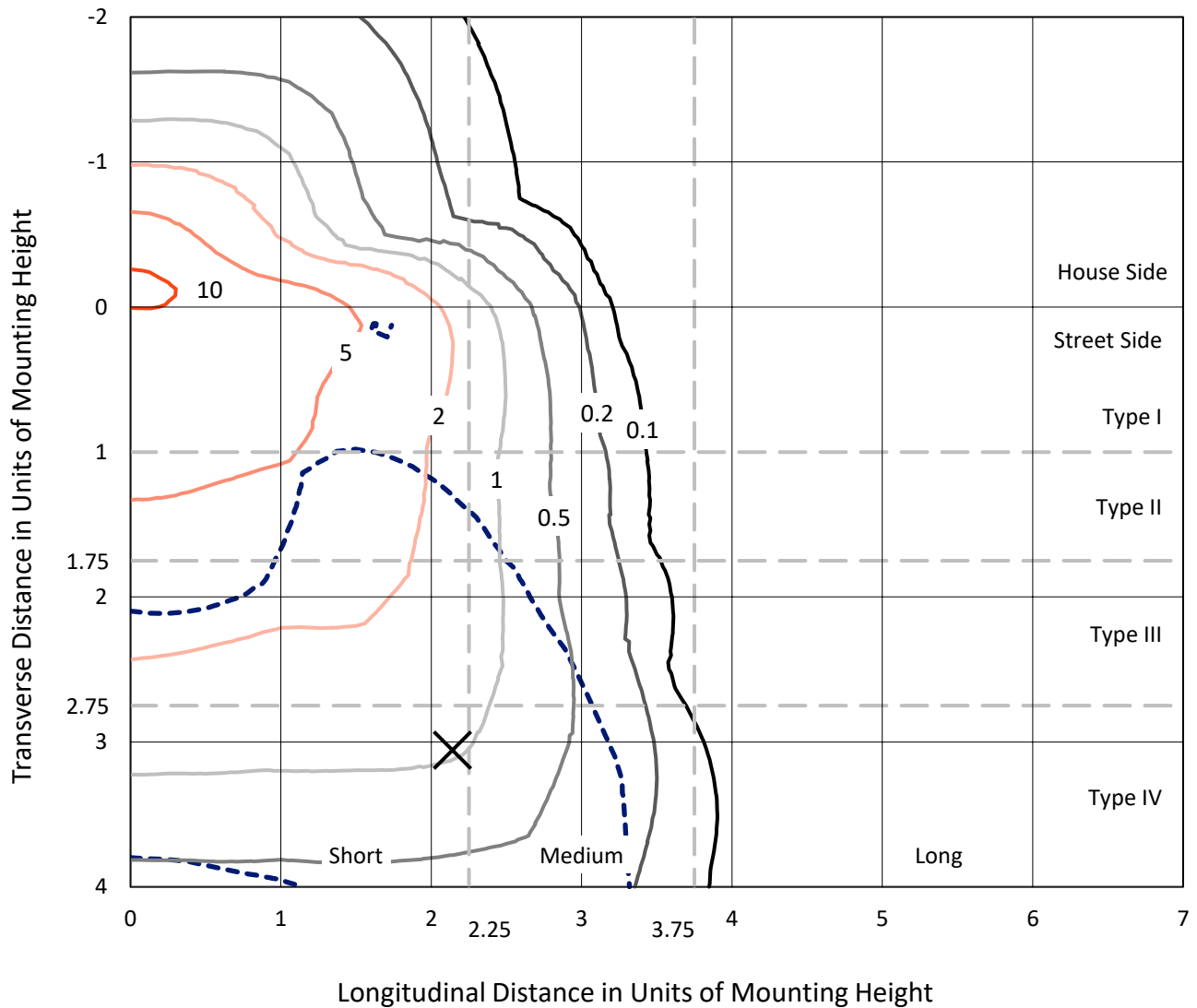
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

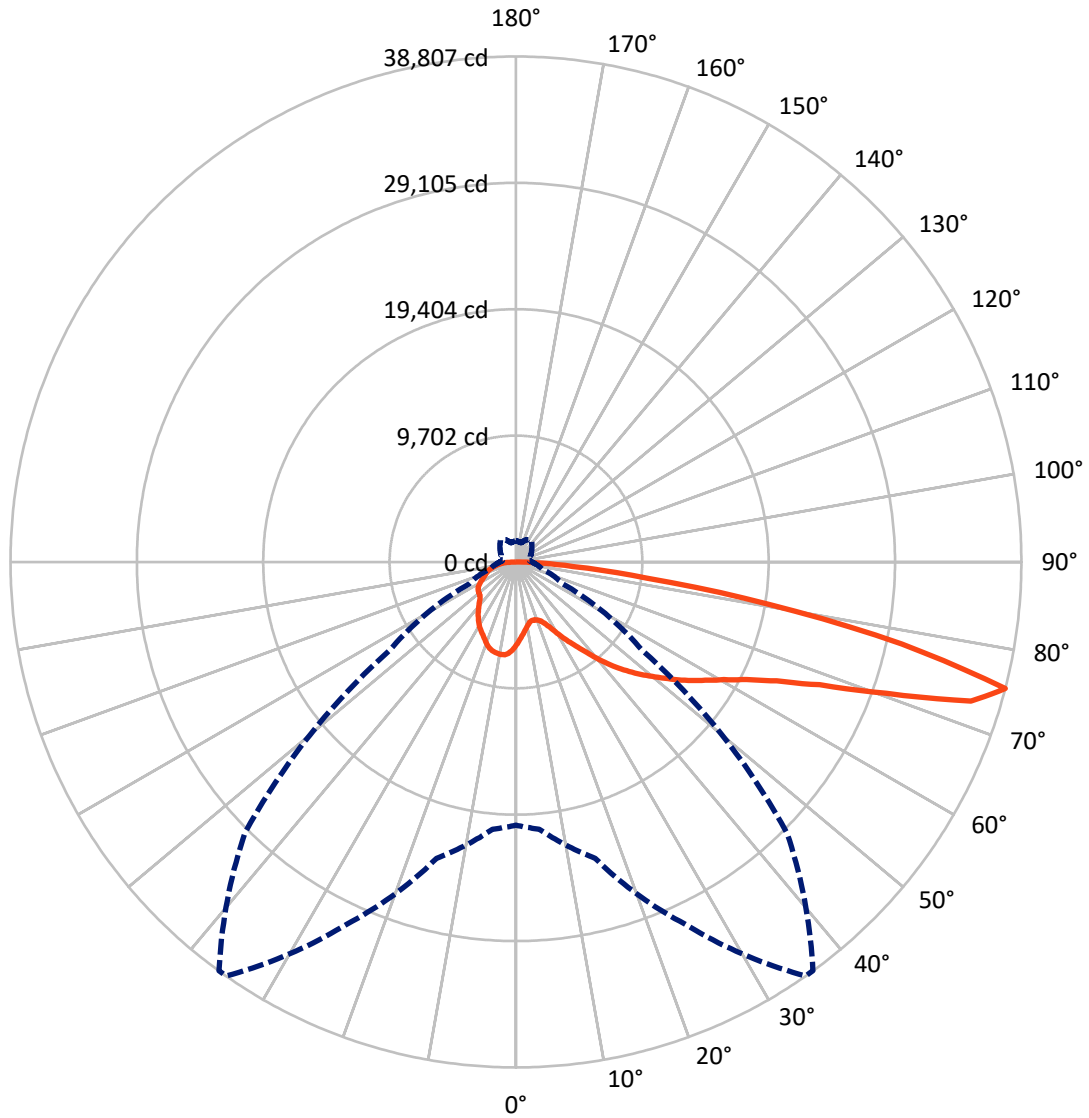
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 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	11330.7	0.0	11330.7
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	36282.3	0.0	36282.3
	% Fixture	76.2	0.0	76.2
Total	Lumens	47613.0	0.0	47613.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	600.7	1.3
10°-20°	1732.7	3.6
20°-30°	2909.7	6.1
30°-40°	4522.1	9.5
40°-50°	6712.0	14.1
50°-60°	9266.4	19.5
60°-70°	11242.2	23.6
70°-80°	9290.8	19.5
80°-90°	1336.3	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°	47613.0	100.0
0°-180°	47613.0	100.0

Coefficient of Utilization



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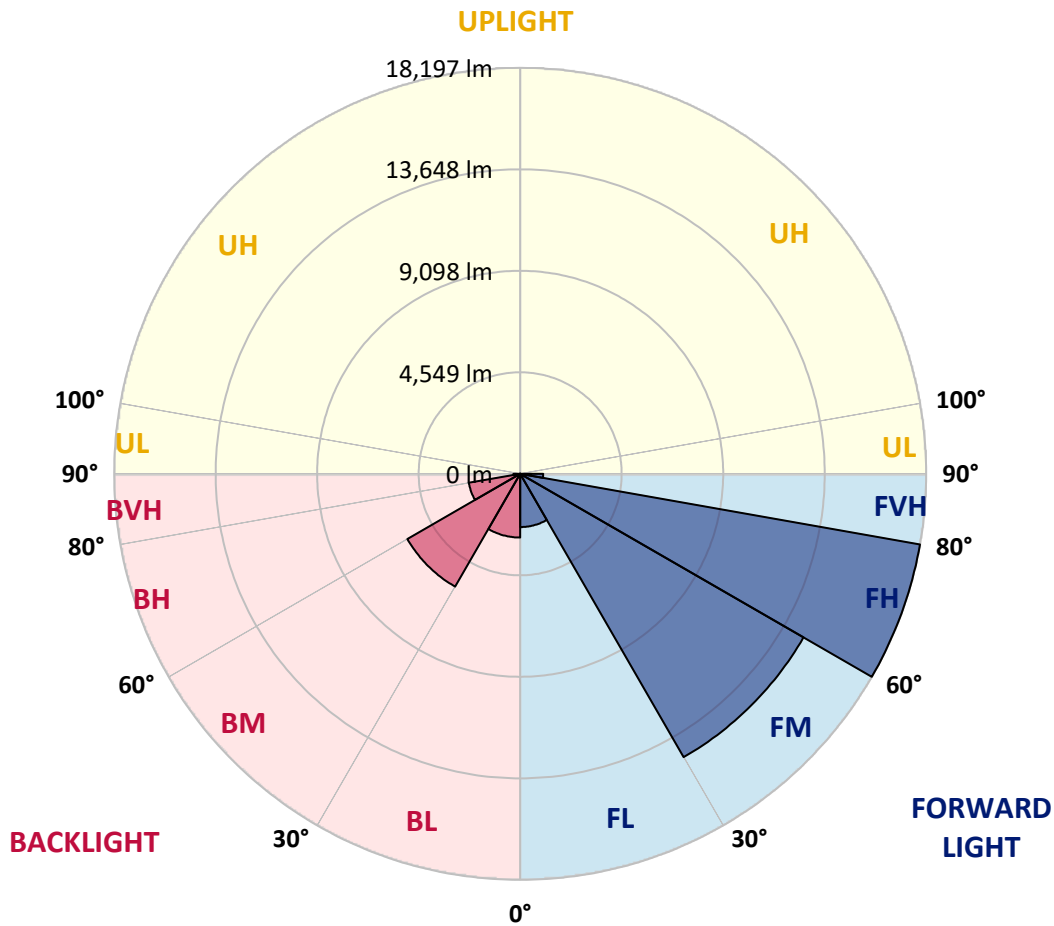
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2387.7	5.0			
FM (30°-60°)	14662.2	30.8			
FH (60°-80°)	18197.0	38.2			G5
FVH (80°-90°)	1035.4	2.2			G5
BL (0°-30°)	2855.5	6.0	B4/5000		
BM (30°-60°)	5838.3	12.3	B4/8500		
BH (60°-80°)	2336.0	4.9	B3/2500		G3/2500
BVH (80°-90°)	300.9	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°	6344.8	6344.8	6344.8	6344.8	6344.8	6344.8	6344.8	6344.8	6344.8	6344.8
2.5°	5850.6	5886.6	5902.0	5894.3	5932.9	5927.8	5981.8	6048.8	6141.4	6231.5
5°	5400.1	5438.7	5472.2	5503.1	5577.7	5600.9	5685.8	5814.5	5984.4	6156.9
7.5°	4980.6	5014.0	5065.5	5122.1	5248.3	5271.4	5413.0	5613.8	5850.6	6102.8
10°	4638.2	4671.7	4725.7	4790.1	4947.1	4975.4	5155.6	5423.3	5732.2	6051.3
12.5°	4491.5	4501.8	4532.7	4597.1	4733.5	4751.5	4949.7	5256.0	5616.3	6012.7
15°	4483.8	4504.4	4507.0	4540.4	4653.7	4661.4	4844.1	5147.9	5544.3	6005.0
17.5°	4561.0	4576.5	4553.3	4573.9	4669.1	4682.0	4826.1	5096.4	5521.1	6038.5
20°	4766.9	4779.8	4710.3	4682.0	4751.5	4761.8	4903.3	5129.9	5544.3	6108.0
22.5°	5204.5	5212.2	5042.3	4926.5	4931.7	4936.8	5060.4	5266.3	5634.3	6234.1
25°	5886.6	5881.4	5611.2	5387.2	5258.6	5230.2	5312.6	5487.6	5786.2	6401.4
27.5°	6684.5	6645.9	6375.6	6041.0	5760.5	5719.3	5701.3	5775.9	6002.4	6622.7
30°	7585.4	7549.4	7258.5	6820.9	6432.3	6365.3	6195.5	6156.9	6324.2	6923.9
32.5°	8573.8	8550.6	8203.1	7672.9	7153.0	7075.8	6790.0	6687.1	6818.4	7379.5
35°	9402.6	9382.0	9093.7	8548.0	7912.3	7817.0	7526.2	7410.4	7477.3	7963.8
37.5°	10151.6	10141.3	9894.2	9464.4	8808.0	8692.2	8365.3	8326.7	8313.8	8733.4
40°	10846.6	10820.8	10563.4	10336.9	9850.5	9744.9	9456.6	9423.2	9325.4	9680.6
42.5°	11616.2	11549.3	11176.0	11070.5	10939.2	10851.7	10679.3	10684.4	10468.2	10748.8
45°	12244.2	12205.6	11822.1	11760.3	11901.9	11865.8	12015.1	12053.7	11634.2	11868.4
47.5°	12918.6	12882.6	12558.2	12514.5	12898.0	12908.3	13436.0	13448.8	12771.9	13031.8
50°	13750.0	13698.5	13376.7	13430.8	13860.6	13899.3	14864.5	14777.0	13819.5	14213.3
52.5°	14298.2	14329.1	14259.6	14347.1	14934.0	14970.0	16269.9	16045.9	14856.8	15379.3
55°	14702.3	14764.1	14980.3	15181.1	16066.5	16102.5	17595.4	17253.1	15716.5	16460.3
57.5°	15222.3	15134.7	15538.9	15930.1	17142.4	17237.7	18885.0	18416.5	16478.3	17392.1
60°	15968.7	15906.9	16221.0	16800.1	18347.0	18498.9	20249.2	19464.1	17036.9	18130.8
62.5°	17482.2	17327.7	17376.6	17888.9	19865.6	20066.4	21788.4	20377.9	17314.9	18419.1
65°	19744.7	19479.6	19232.5	19587.7	22004.6	22202.8	23525.8	21096.0	17211.9	17860.5
67.5°	22594.0	22331.5	22027.8	22362.4	25155.1	25312.1	25669.9	21500.1	16401.1	15708.7
70°	24944.0	24846.2	25209.1	26586.2	30187.1	30192.3	28418.8	21165.5	14179.8	11137.4
72.5°	24632.6	24573.4	26485.8	30743.1	36529.3	36392.9	31021.1	18632.7	9551.9	5024.3
75°	20208.0	20591.5	23554.1	30668.5	38807.2	38789.2	29427.8	11845.3	3951.0	2082.3
77.5°	10836.3	11443.7	15291.8	22642.9	30295.2	30750.8	20689.3	4144.0	1696.2	1333.3
80°	3534.0	4064.2	6095.1	11528.7	19685.5	19600.5	8867.2	1626.7	1160.8	944.6
82.5°	1500.6	1562.4	2723.2	5443.9	10102.7	9945.7	2823.6	934.3	815.9	646.1
85°	586.9	656.4	1202.0	2517.3	4375.7	4280.5	1019.3	463.3	522.5	422.1
87.5°	193.0	234.2	429.8	862.3	1361.6	1312.7	249.7	159.6	226.5	193.0
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°
6344.8	0°	6344.8	6344.8	6344.8	6344.8	6344.8	6344.8	6344.8	6344.8	6344.8	6344.8
6362.8	2.5°	6398.8	6440.0	6488.9	6561.0	6622.7	6674.2	6728.3	6761.7	6774.6	6813.2
6373.1	5°	6445.1	6535.2	6656.2	6774.6	6890.4	6959.9	7021.7	7052.6	7080.9	7101.5
6401.4	7.5°	6522.4	6638.2	6828.7	6983.1	7080.9	7137.5	7178.7	7168.4	7178.7	7183.9
6432.3	10°	6589.3	6751.4	6977.9	7124.7	7199.3	7201.9	7191.6	7155.5	7137.5	7140.1
6478.6	12.5°	6669.1	6849.2	7093.8	7217.3	7237.9	7181.3	7137.5	7075.8	7052.6	7042.3
6548.1	15°	6777.2	6983.1	7219.9	7266.2	7214.7	7142.7	7068.0	6967.6	6916.2	6875.0
6666.5	17.5°	6908.4	7135.0	7317.7	7284.2	7173.6	7055.2	6934.2	6782.3	6676.8	6633.0
6828.7	20°	7091.2	7294.5	7392.3	7245.6	7078.3	6898.2	6692.2	6506.9	6409.1	6365.3
7034.6	22.5°	7312.6	7508.2	7464.4	7178.7	6941.9	6653.6	6396.2	6259.8	6210.9	6180.0
7299.7	25°	7577.7	7745.0	7515.9	7080.9	6718.0	6329.3	6131.1	6087.4	6064.2	6041.0
7624.0	27.5°	7922.6	8012.7	7554.5	6936.8	6367.9	5984.4	5912.3	5920.1	5912.3	5873.7
8074.4	30°	8378.2	8360.1	7590.5	6702.5	5966.4	5673.0	5678.1	5711.6	5716.7	5691.0
8702.5	32.5°	8977.9	8795.1	7608.6	6398.8	5582.9	5400.1	5405.3	5441.3	5467.0	5423.3
9523.6	35°	9703.7	9302.2	7580.2	6017.9	5286.9	5140.2	5101.5	5111.8	5119.6	5078.4
10519.7	37.5°	10550.6	9871.0	7454.1	5595.7	5042.3	4885.3	4803.0	4733.5	4692.3	4653.7
11647.1	40°	11479.8	10491.4	7222.5	5183.9	4769.5	4615.1	4491.5	4360.2	4221.3	4169.8
12841.4	42.5°	12452.7	11129.7	6941.9	4790.1	4455.5	4329.4	4198.1	4007.6	3799.1	3693.6
14082.0	45°	13461.7	11783.5	6666.5	4401.4	4133.7	4079.7	3927.8	3698.7	3472.2	3338.4
15325.2	47.5°	14450.1	12401.2	6262.4	4010.2	3832.6	3891.8	3773.4	3562.3	3310.1	3099.0
16558.1	50°	15394.7	12980.4	5600.9	3613.8	3588.1	3835.2	3721.9	3418.2	3129.9	2859.6
17767.9	52.5°	16331.6	13448.8	4754.1	3253.5	3456.8	3819.7	3655.0	3320.4	2967.7	2684.6
18905.6	55°	17127.0	13690.8	3938.1	2944.6	3266.3	3688.5	3575.2	3204.6	2738.7	2437.5
19685.5	57.5°	17580.0	13495.2	3258.6	2640.9	3003.8	3472.2	3438.8	2957.5	2465.8	2234.2
19837.3	60°	17384.4	12702.4	2702.6	2375.7	2754.1	3238.0	3202.0	2712.9	2257.3	2038.6
19024.0	62.5°	16305.9	11191.5	2262.5	2144.1	2527.6	2998.6	2965.2	2525.0	2097.8	1886.7
16864.4	65°	14133.5	9104.0	1920.2	1951.0	2298.5	2710.4	2759.3	2368.0	1971.6	1765.7
13047.3	67.5°	10779.6	6594.4	1652.5	1783.7	2074.6	2427.2	2568.8	2254.8	1866.1	1670.5
7549.4	70°	6144.0	3745.1	1426.0	1621.6	1876.4	2164.7	2422.1	2164.7	1752.9	1590.7
2828.8	72.5°	2329.4	1719.4	1232.9	1459.4	1685.9	1943.3	2259.9	2023.1	1621.6	1500.6
1462.0	75°	1243.2	1047.6	1037.3	1269.0	1467.1	1727.1	2056.6	1884.1	1523.8	1585.5
1011.6	77.5°	846.8	741.3	867.4	1086.2	1227.8	1487.7	1840.4	1673.1	1320.4	1315.3
700.1	80°	586.9	525.1	705.3	875.1	949.8	1250.9	1606.1	1436.3	1075.9	1003.8
432.4	82.5°	352.6	342.3	527.7	653.8	671.8	965.2	1330.7	1204.6	880.3	767.0
257.4	85°	193.0	203.3	337.2	383.5	391.2	674.4	1042.4	931.8	676.9	568.8
92.7	87.5°	54.1	69.5	123.5	151.9	187.9	350.1	620.3	553.4	339.8	236.8
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>
6344.8
6810.6
7106.6
7191.6
7145.2
7037.1
6887.9
6635.6
6360.2
6185.2
6041.0
5881.4
5703.8
5443.9
5106.7
4679.4
4192.9
3706.5
3328.1
3075.9
2836.5
2653.7
2411.8
2203.3
2007.7
1853.2
1732.3
1639.6
1570.1
1480.0
1637.0
1212.3
960.1
772.2
574.0
236.8
0.0

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