

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: P941819

Luminaire Tested: **GALN-SB5C-740-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941819
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-SB5C-740-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39558 lumens
Efficiency: N/A
Efficacy: 158.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

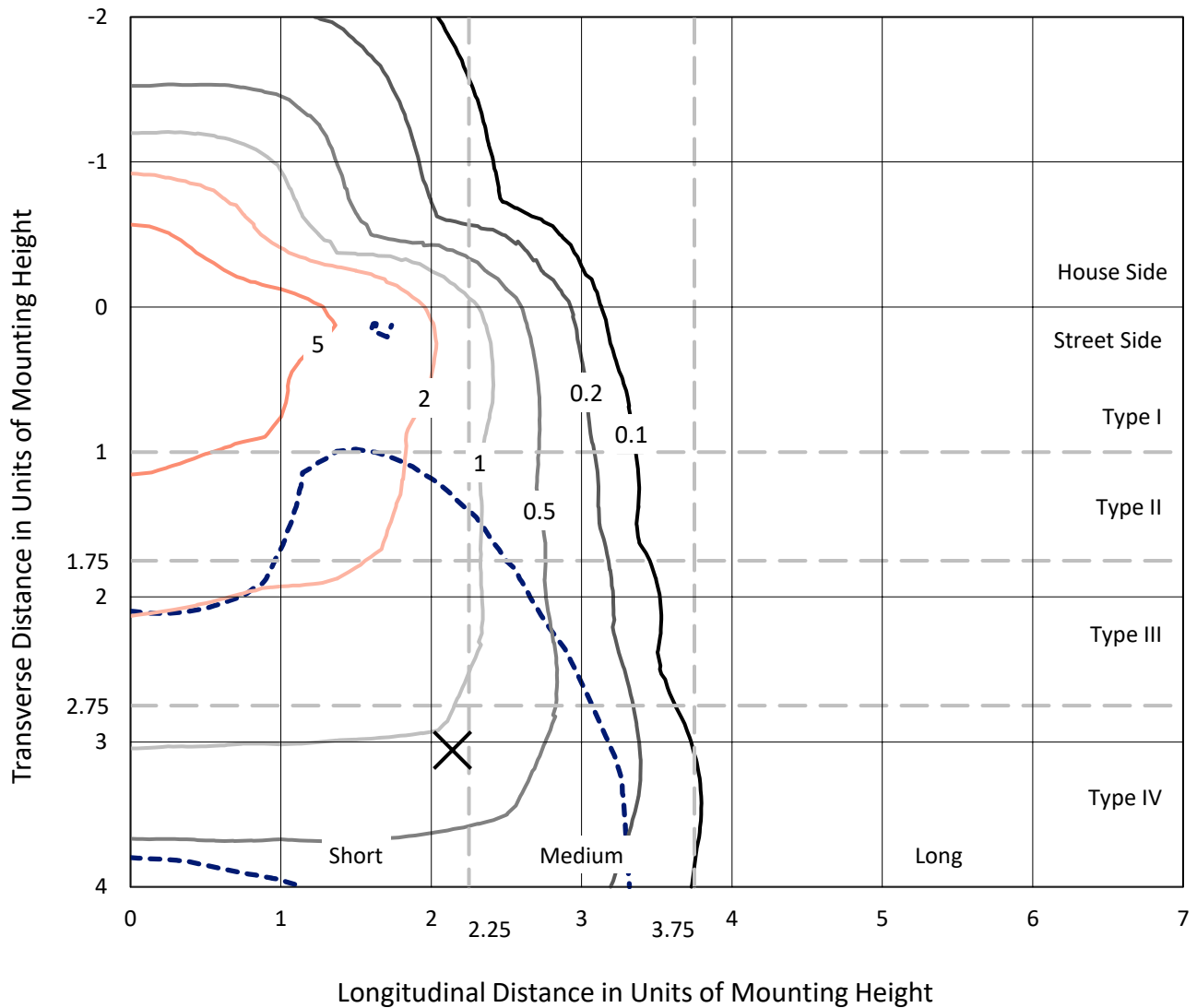
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

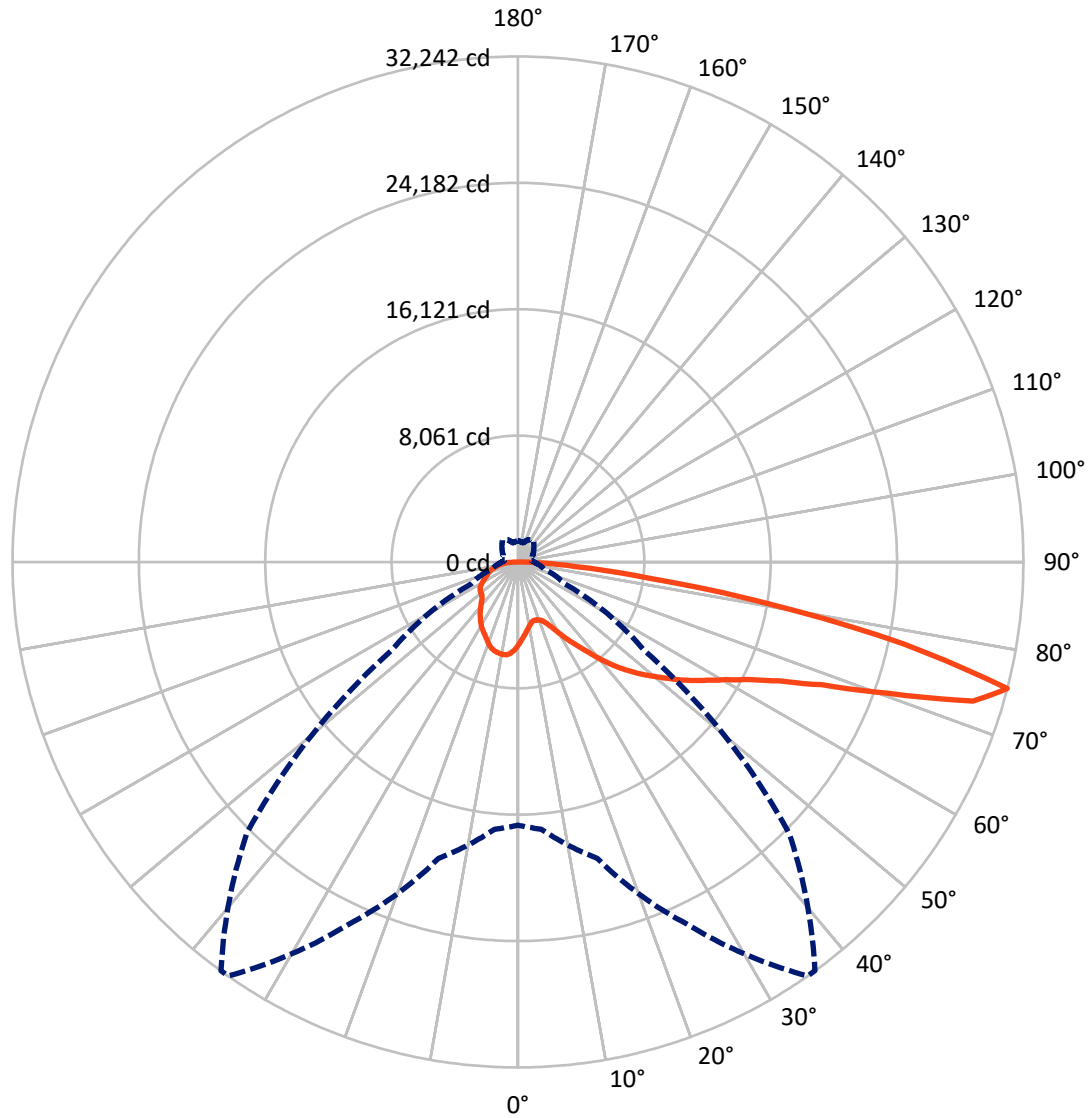
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 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	9413.8	0.0	9413.8
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	30144.2	0.0	30144.2
	% Fixture	76.2	0.0	76.2
Total	Lumens	39558.0	0.0	39558.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	499.1	1.3
10°-20°	1439.6	3.6
20°-30°	2417.5	6.1
30°-40°	3757.1	9.5
40°-50°	5576.5	14.1
50°-60°	7698.7	19.5
60°-70°	9340.3	23.6
70°-80°	7719.0	19.5
80°-90°	1110.2	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°	39558.0	100.0
0°-180°	39558.0	100.0



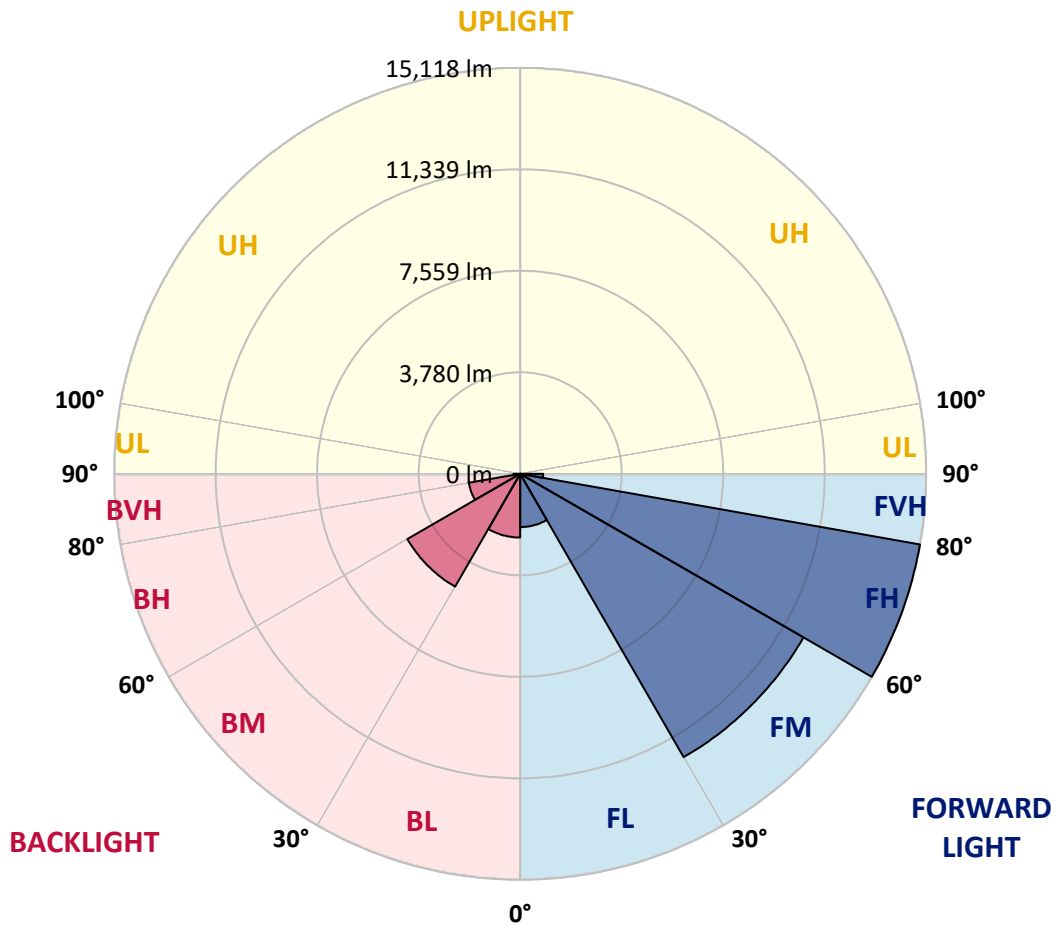
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1983.8	5.0			
FM (30°-60°)	12181.7	30.8			
FH (60°-80°)	15118.5	38.2			G5
FVH (80°-90°)	860.2	2.2			G5
BL (0°-30°)	2372.4	6.0	B3/2500		
BM (30°-60°)	4850.6	12.3	B3/5000		
BH (60°-80°)	1940.8	4.9	B3/2500		G3/2500
BVH (80°-90°)	250.0	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	5271.4	5271.4	5271.4	5271.4	5271.4	5271.4	5271.4	5271.4	5271.4	5271.4
2.5°	4860.8	4890.7	4903.6	4897.1	4929.2	4924.9	4969.8	5025.4	5102.4	5177.3
5°	4486.5	4518.6	4546.4	4572.1	4634.1	4653.3	4723.9	4830.8	4972.0	5115.3
7.5°	4138.0	4165.8	4208.5	4255.6	4360.4	4379.6	4497.2	4664.0	4860.8	5070.4
10°	3853.6	3881.4	3926.3	3979.7	4110.2	4133.7	4283.4	4505.8	4762.4	5027.6
12.5°	3731.7	3740.2	3765.9	3819.3	3932.7	3947.6	4112.3	4366.8	4666.2	4995.5
15°	3725.2	3742.4	3744.5	3772.3	3866.4	3872.8	4024.6	4277.0	4606.3	4989.1
17.5°	3789.4	3802.2	3783.0	3800.1	3879.2	3889.9	4009.7	4234.2	4587.1	5016.9
20°	3960.5	3971.2	3913.4	3889.9	3947.6	3956.2	4073.8	4262.0	4606.3	5074.6
22.5°	4324.0	4330.4	4189.3	4093.1	4097.3	4101.6	4204.3	4375.3	4681.1	5179.4
25°	4890.7	4886.4	4661.9	4475.9	4368.9	4345.4	4413.8	4559.3	4807.3	5318.4
27.5°	5553.7	5521.6	5297.0	5019.0	4785.9	4751.7	4736.7	4798.8	4987.0	5502.3
30°	6302.1	6272.2	6030.5	5667.0	5344.1	5288.5	5147.3	5115.3	5254.3	5752.5
32.5°	7123.3	7104.1	6815.4	6374.8	5942.9	5878.7	5641.3	5555.8	5664.9	6131.0
35°	7811.9	7794.8	7555.3	7101.9	6573.7	6494.6	6252.9	6156.7	6212.3	6616.5
37.5°	8434.2	8425.6	8220.3	7863.2	7317.9	7221.7	6950.1	6918.0	6907.3	7255.9
40°	9011.6	8990.2	8776.4	8588.2	8184.0	8096.3	7856.8	7829.0	7747.7	8042.9
42.5°	9651.0	9595.4	9285.3	9197.6	9088.6	9015.9	8872.6	8876.9	8697.2	8930.3
45°	10172.8	10140.7	9822.1	9770.7	9888.4	9858.4	9982.5	10014.5	9666.0	9860.6
47.5°	10733.1	10703.1	10433.7	10397.3	10716.0	10724.5	11162.9	11173.6	10611.2	10827.2
50°	11423.8	11381.0	11113.7	11158.6	11515.8	11547.8	12349.8	12277.1	11481.5	11808.7
52.5°	11879.3	11905.0	11847.2	11919.9	12407.5	12437.4	13517.4	13331.3	12343.3	12777.5
55°	12215.0	12266.4	12446.0	12612.8	13348.4	13378.4	14618.7	14334.3	13057.6	13675.6
57.5°	12647.0	12574.3	12910.0	13235.1	14242.3	14321.4	15690.1	15300.9	13690.6	14449.8
60°	13267.2	13215.9	13476.7	13957.9	15243.1	15369.3	16823.5	16171.2	14154.6	15063.5
62.5°	14524.6	14396.3	14436.9	14862.5	16504.8	16671.6	18102.3	16930.4	14385.6	15303.0
65°	16404.3	16184.1	15978.8	16273.9	18281.9	18446.6	19545.8	17527.0	14300.1	14839.0
67.5°	18771.6	18553.5	18301.2	18579.2	20899.4	21029.9	21327.1	17862.8	13626.4	13051.2
70°	20724.1	20642.8	20944.3	22088.4	25080.2	25084.5	23611.0	17584.8	11780.9	9253.2
72.5°	20465.3	20416.1	22005.0	25542.1	30349.4	30236.1	25773.0	15480.5	7935.9	4174.3
75°	16789.3	17107.9	19569.3	25480.1	32242.0	32227.0	24449.3	9841.3	3282.6	1730.0
77.5°	9003.0	9507.7	12704.8	18812.3	25170.0	25548.5	17189.2	3443.0	1409.3	1107.7
80°	2936.1	3376.7	5063.9	9578.3	16355.2	16284.6	7367.1	1351.5	964.5	784.8
82.5°	1246.7	1298.1	2262.5	4522.9	8393.6	8263.1	2345.9	776.3	677.9	536.8
85°	487.6	545.3	998.7	2091.4	3635.4	3556.3	846.8	384.9	434.1	350.7
87.5°	160.4	194.6	357.1	716.4	1131.3	1090.6	207.4	132.6	188.2	160.4
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°
5271.4	0°	5271.4	5271.4	5271.4	5271.4	5271.4	5271.4	5271.4	5271.4	5271.4	5271.4
5286.3	2.5°	5316.3	5350.5	5391.1	5451.0	5502.3	5545.1	5590.0	5617.8	5628.5	5660.6
5294.9	5°	5354.8	5429.6	5530.1	5628.5	5724.7	5782.5	5833.8	5859.5	5883.0	5900.1
5318.4	7.5°	5418.9	5515.2	5673.4	5801.7	5883.0	5930.0	5964.2	5955.7	5964.2	5968.5
5344.1	10°	5474.5	5609.3	5797.4	5919.3	5981.3	5983.5	5974.9	5945.0	5930.0	5932.2
5382.6	12.5°	5540.8	5690.5	5893.7	5996.3	6013.4	5966.4	5930.0	5878.7	5859.5	5850.9
5440.3	15°	5630.6	5801.7	5998.5	6036.9	5994.2	5934.3	5872.3	5788.9	5746.1	5711.9
5538.7	17.5°	5739.7	5927.9	6079.7	6051.9	5960.0	5861.6	5761.1	5634.9	5547.2	5510.9
5673.4	20°	5891.5	6060.5	6141.7	6019.8	5880.8	5731.1	5560.1	5406.1	5324.8	5288.5
5844.5	22.5°	6075.4	6238.0	6201.6	5964.2	5767.5	5528.0	5314.1	5200.8	5160.2	5134.5
6064.7	25°	6295.7	6434.7	6244.4	5883.0	5581.5	5258.5	5093.9	5057.5	5038.3	5019.0
6334.2	27.5°	6582.3	6657.1	6276.5	5763.2	5290.6	4972.0	4912.1	4918.5	4912.1	4880.0
6708.4	30°	6960.8	6945.8	6306.4	5568.6	4957.0	4713.2	4717.5	4745.3	4749.6	4728.2
7230.2	32.5°	7459.0	7307.2	6321.4	5316.3	4638.4	4486.5	4490.8	4520.8	4542.1	4505.8
7912.4	35°	8062.1	7728.5	6297.8	4999.8	4392.5	4270.6	4238.5	4247.0	4253.5	4219.2
8740.0	37.5°	8765.7	8201.1	6193.1	4649.1	4189.3	4058.8	3990.4	3932.7	3898.5	3866.4
9676.7	40°	9537.7	8716.5	6000.6	4306.9	3962.6	3834.3	3731.7	3622.6	3507.1	3464.3
10668.9	42.5°	10346.0	9246.8	5767.5	3979.7	3701.7	3596.9	3487.9	3329.6	3156.4	3068.7
11699.7	45°	11184.3	9790.0	5538.7	3656.8	3434.4	3389.5	3263.3	3073.0	2884.8	2773.6
12732.6	47.5°	12005.5	10303.2	5202.9	3331.8	3184.2	3233.4	3135.0	2959.7	2750.1	2574.7
13756.9	50°	12790.3	10784.4	4653.3	3002.4	2981.1	3186.3	3092.3	2839.9	2600.4	2375.9
14762.0	52.5°	13568.7	11173.6	3949.8	2703.0	2872.0	3173.5	3036.7	2758.6	2465.7	2230.4
15707.2	55°	14229.5	11374.6	3271.9	2446.4	2713.7	3064.5	2970.4	2662.4	2275.4	2025.1
16355.2	57.5°	14605.9	11212.1	2707.3	2194.1	2495.6	2884.8	2857.0	2457.1	2048.7	1856.2
16481.3	60°	14443.3	10553.4	2245.4	1973.8	2288.2	2690.2	2660.3	2254.0	1875.5	1693.7
15805.6	62.5°	13547.3	9298.1	1879.7	1781.4	2100.0	2491.3	2463.5	2097.9	1742.9	1567.5
14011.4	65°	11742.4	7563.8	1595.3	1621.0	1909.7	2251.8	2292.5	1967.4	1638.1	1467.0
10840.0	67.5°	8956.0	5478.8	1372.9	1482.0	1723.6	2016.6	2134.2	1873.3	1550.4	1387.9
6272.2	70°	5104.6	3111.5	1184.7	1347.2	1559.0	1798.5	2012.3	1798.5	1456.3	1321.6
2350.2	72.5°	1935.3	1428.5	1024.3	1212.5	1400.7	1614.6	1877.6	1680.9	1347.2	1246.7
1214.7	75°	1032.9	870.4	861.8	1054.3	1218.9	1434.9	1708.7	1565.4	1266.0	1317.3
840.4	77.5°	703.6	615.9	720.7	902.4	1020.1	1236.0	1529.0	1390.0	1097.0	1092.8
581.7	80°	487.6	436.3	585.9	727.1	789.1	1039.3	1334.4	1193.3	893.9	834.0
359.3	82.5°	293.0	284.4	438.4	543.2	558.1	801.9	1105.6	1000.8	731.4	637.3
213.8	85°	160.4	168.9	280.1	318.6	325.1	560.3	866.1	774.1	562.4	472.6
77.0	87.5°	44.9	57.7	102.6	126.2	156.1	290.8	515.4	459.8	282.3	196.7
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>
5271.4
5658.4
5904.4
5974.9
5936.4
5846.6
5722.6
5513.0
5284.2
5138.8
5019.0
4886.4
4738.9
4522.9
4242.8
3887.8
3483.6
3079.4
2765.1
2555.5
2356.6
2204.8
2003.8
1830.5
1668.0
1539.7
1439.2
1362.2
1304.5
1229.6
1360.1
1007.2
797.7
641.5
476.9
196.7
0.0

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