

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: P941979

Luminaire Tested: **GALN-SB5D-735-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941979
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-SB5D-735-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50806 lumens
Efficiency: N/A
Efficacy: 139.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

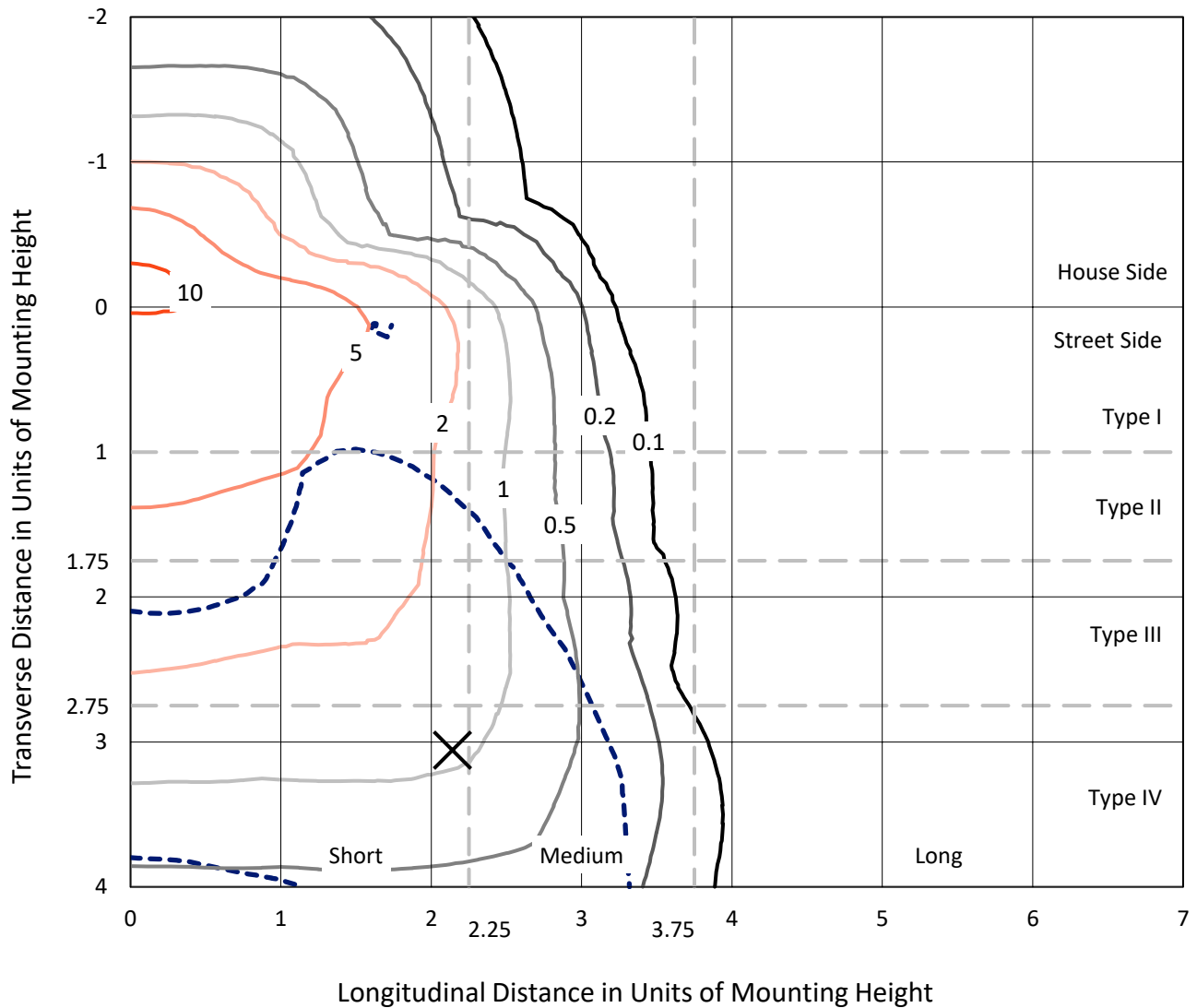
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

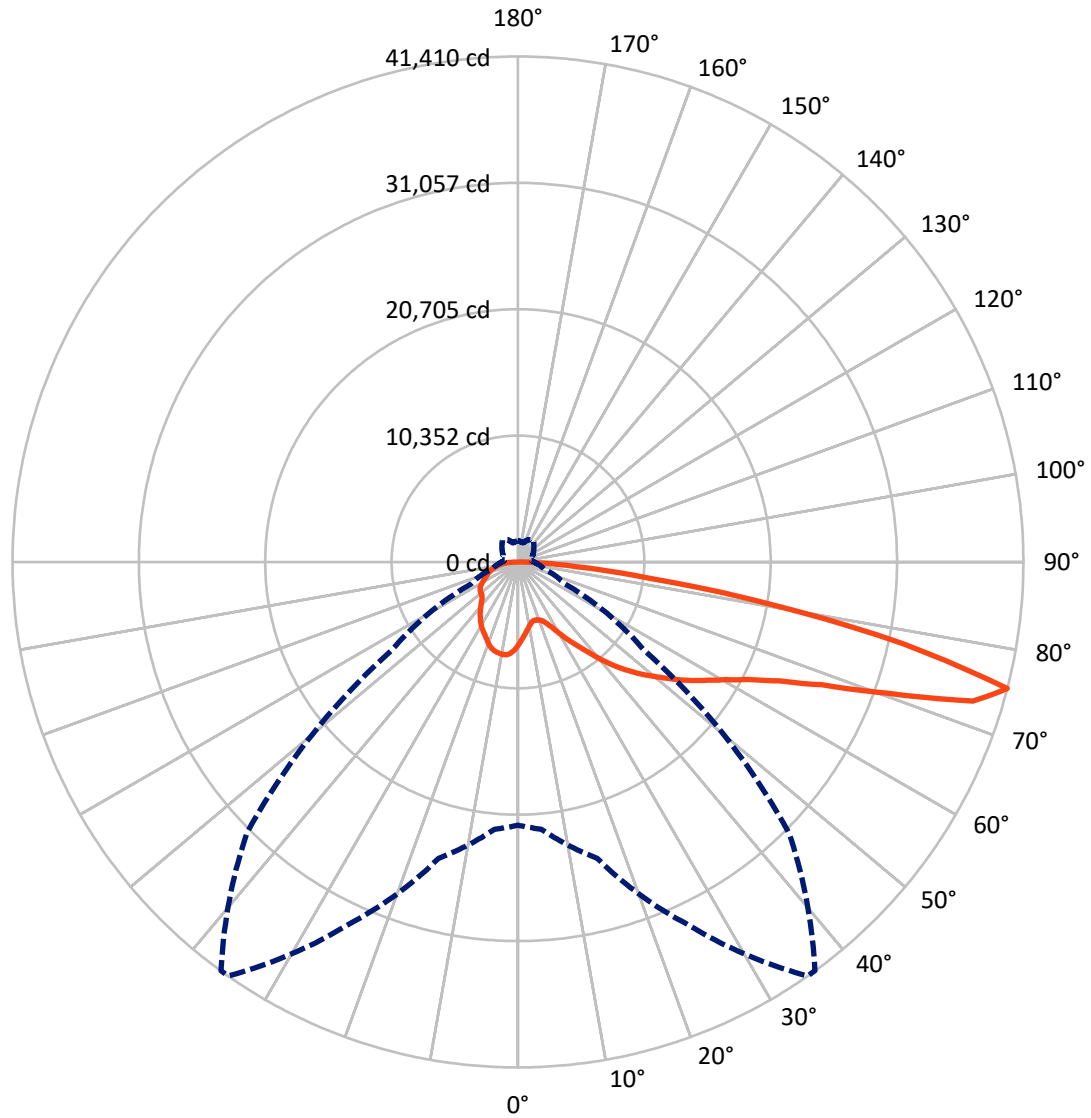
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 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	12090.6	0.0	12090.6
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	38715.4	0.0	38715.4
	% Fixture	76.2	0.0	76.2
Total	Lumens	50806.0	0.0	50806.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	641.0	1.3
10°-20°	1848.9	3.6
20°-30°	3104.9	6.1
30°-40°	4825.4	9.5
40°-50°	7162.1	14.1
50°-60°	9887.8	19.5
60°-70°	11996.1	23.6
70°-80°	9913.9	19.5
80°-90°	1425.9	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°	50806.0	100.0
0°-180°	50806.0	100.0

Coefficient of Utilization



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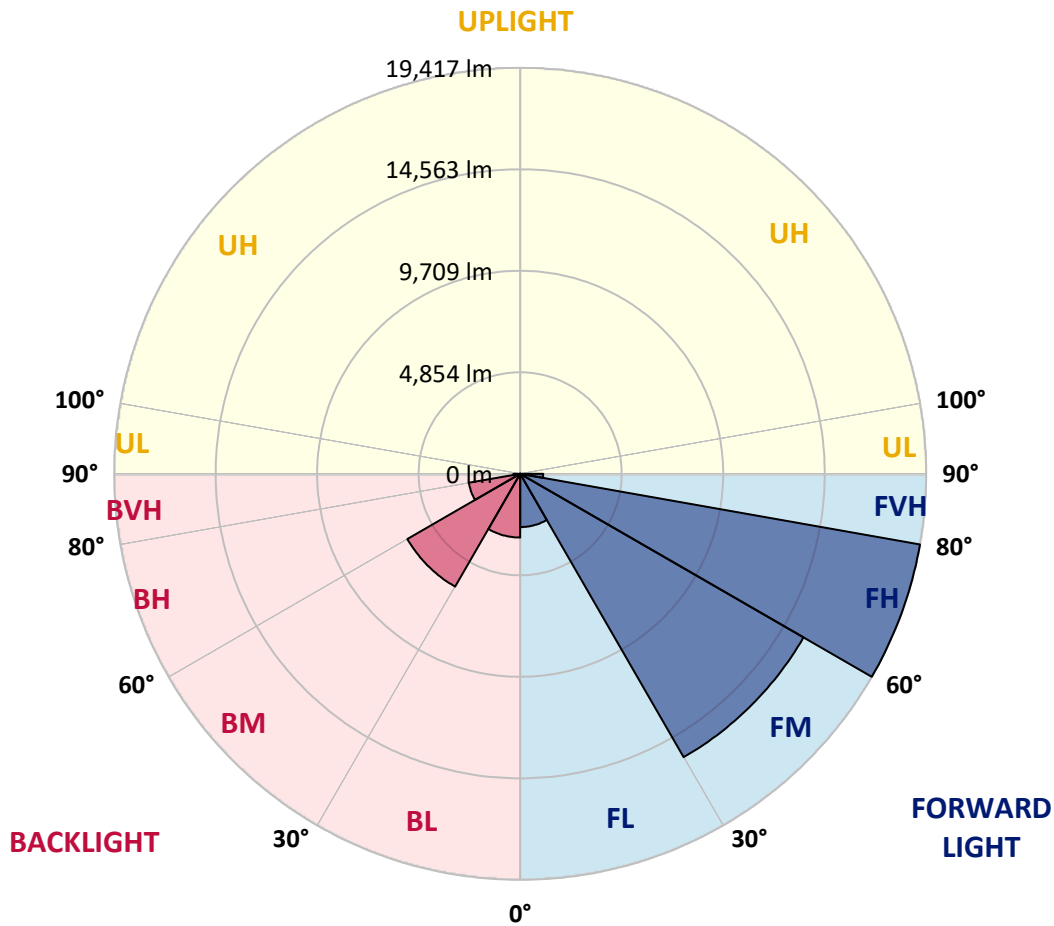
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2547.8	5.0			
FM (30°-60°)	15645.5	30.8			
FH (60°-80°)	19417.3	38.2			G5
FVH (80°-90°)	1104.8	2.2			G5
BL (0°-30°)	3047.0	6.0	B4/5000		
BM (30°-60°)	6229.8	12.3	B4/8500		
BH (60°-80°)	2492.7	4.9	B3/2500		G3/2500
BVH (80°-90°)	321.1	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°	6770.2	6770.2	6770.2	6770.2	6770.2	6770.2	6770.2	6770.2	6770.2	6770.2
2.5°	6242.9	6281.4	6297.8	6289.6	6330.8	6325.3	6383.0	6454.4	6553.3	6649.4
5°	5762.3	5803.5	5839.2	5872.1	5951.8	5976.5	6067.1	6204.5	6385.7	6569.7
7.5°	5314.6	5350.3	5405.2	5465.6	5600.2	5624.9	5776.0	5990.2	6242.9	6512.1
10°	4949.3	4985.0	5042.7	5111.3	5278.9	5309.1	5501.3	5787.0	6116.6	6457.1
12.5°	4792.7	4803.7	4836.7	4905.3	5050.9	5070.1	5281.6	5608.5	5993.0	6415.9
15°	4784.5	4806.5	4809.2	4844.9	4965.8	4974.0	5169.0	5493.1	5916.1	6407.7
17.5°	4866.9	4883.4	4858.6	4880.6	4982.2	4996.0	5149.8	5438.2	5891.3	6443.4
20°	5086.6	5100.3	5026.2	4996.0	5070.1	5081.1	5232.2	5473.9	5916.1	6517.6
22.5°	5553.5	5561.8	5380.5	5256.9	5262.4	5267.9	5399.7	5619.4	6012.2	6652.1
25°	6281.4	6275.9	5987.5	5748.5	5611.2	5581.0	5668.9	5855.6	6174.2	6830.7
27.5°	7132.8	7091.6	6803.2	6446.2	6146.8	6102.8	6083.6	6163.3	6405.0	7066.9
30°	8094.1	8055.6	7745.3	7278.4	6863.6	6792.2	6610.9	6569.7	6748.3	7388.2
32.5°	9148.8	9124.0	8753.3	8187.5	7632.7	7550.3	7245.4	7135.5	7275.6	7874.4
35°	10033.1	10011.2	9703.6	9121.3	8442.9	8341.3	8030.9	7907.3	7978.7	8497.8
37.5°	10832.4	10821.4	10557.7	10099.1	9398.7	9275.1	8926.3	8885.1	8871.4	9319.0
40°	11574.0	11546.5	11271.8	11030.1	10511.0	10398.4	10090.8	10055.1	9950.7	10329.8
42.5°	12395.2	12323.8	11925.5	11812.9	11672.8	11579.5	11395.4	11400.9	11170.2	11469.6
45°	13065.3	13024.1	12614.9	12549.0	12700.0	12661.6	12820.9	12862.1	12414.4	12664.3
47.5°	13784.9	13746.5	13400.4	13353.7	13763.0	13773.9	14337.0	14350.7	13628.4	13905.8
50°	14672.1	14617.1	14273.8	14331.5	14790.2	14831.4	15861.3	15767.9	14746.2	15166.4
52.5°	15257.1	15290.0	15215.9	15309.3	15935.5	15973.9	17360.9	17122.0	15853.1	16410.6
55°	15688.3	15754.2	15984.9	16199.1	17144.0	17182.4	18775.4	18410.1	16770.4	17564.2
57.5°	16243.1	16149.7	16580.9	16998.4	18292.0	18393.6	20151.4	19651.6	17583.4	18558.4
60°	17039.6	16973.7	17308.8	17926.7	19577.4	19739.4	21607.1	20769.4	18179.4	19346.7
62.5°	18654.6	18489.8	18542.0	19088.5	21197.9	21412.1	23249.5	21744.4	18476.0	19654.3
65°	21068.8	20785.9	20522.2	20901.2	23480.2	23691.7	25103.5	22510.7	18366.2	19058.3
67.5°	24109.2	23829.1	23505.0	23862.0	26842.0	27009.6	27391.3	22941.9	17501.0	16762.2
70°	26616.8	26512.4	26899.7	28369.1	32211.5	32217.0	30324.6	22584.9	15130.7	11884.3
72.5°	26284.5	26221.3	28262.0	32804.8	38979.0	38833.5	33101.4	19882.3	10192.4	5361.3
75°	21563.2	21972.4	25133.7	32725.1	41409.7	41390.5	31401.3	12639.6	4216.0	2222.0
77.5°	11563.0	12211.2	16317.2	24161.4	32326.9	32813.0	22076.8	4421.9	1810.0	1422.7
80°	3771.0	4336.8	6503.8	12301.8	21005.6	20915.0	9461.9	1735.8	1238.7	1008.0
82.5°	1601.2	1667.2	2905.8	5809.0	10780.2	10612.7	3013.0	997.0	870.7	689.4
85°	626.2	700.4	1282.6	2686.1	4669.1	4567.5	1087.6	494.4	557.5	450.4
87.5°	206.0	249.9	458.7	920.1	1452.9	1400.7	266.4	170.3	241.7	206.0
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°
6770.2	0°	6770.2	6770.2	6770.2	6770.2	6770.2	6770.2	6770.2	6770.2	6770.2	6770.2
6789.5	2.5°	6827.9	6871.9	6924.0	7001.0	7066.9	7121.8	7179.5	7215.2	7228.9	7270.1
6800.5	5°	6877.4	6973.5	7102.6	7228.9	7352.5	7426.7	7492.6	7525.5	7555.8	7577.7
6830.7	7.5°	6959.8	7083.3	7286.6	7451.4	7555.8	7616.2	7660.1	7649.1	7660.1	7665.6
6863.6	10°	7031.2	7204.2	7445.9	7602.4	7682.1	7684.8	7673.9	7635.4	7616.2	7618.9
6913.1	12.5°	7116.3	7308.6	7569.5	7701.3	7723.3	7662.9	7616.2	7550.3	7525.5	7514.6
6987.2	15°	7231.7	7451.4	7704.1	7753.5	7698.6	7621.7	7542.0	7434.9	7380.0	7336.0
7113.6	17.5°	7371.7	7613.4	7808.4	7772.7	7654.6	7528.3	7399.2	7237.2	7124.5	7077.9
7286.6	20°	7566.7	7783.7	7888.1	7731.5	7553.0	7360.8	7141.0	6943.3	6838.9	6792.2
7506.3	22.5°	7802.9	8011.7	7965.0	7660.1	7407.4	7099.8	6825.2	6679.6	6627.4	6594.5
7789.2	25°	8085.8	8264.4	8019.9	7555.8	7168.5	6753.8	6542.3	6495.6	6470.9	6446.2
8135.3	27.5°	8453.9	8550.0	8061.1	7401.9	6795.0	6385.7	6308.8	6317.1	6308.8	6267.6
8615.9	30°	8940.0	8920.8	8099.6	7152.0	6366.5	6053.4	6058.9	6094.6	6100.1	6072.6
9286.1	32.5°	9580.0	9385.0	8118.8	6827.9	5957.3	5762.3	5767.8	5806.2	5833.7	5787.0
10162.2	35°	10354.5	9926.0	8088.6	6421.4	5641.4	5484.9	5443.7	5454.6	5462.9	5418.9
11225.1	37.5°	11258.1	10533.0	7954.0	5971.0	5380.5	5212.9	5125.1	5050.9	5007.0	4965.8
12428.1	40°	12249.6	11194.9	7706.8	5531.5	5089.4	4924.6	4792.7	4652.7	4504.3	4449.4
13702.5	42.5°	13287.8	11876.1	7407.4	5111.3	4754.3	4619.7	4479.6	4276.4	4053.9	3941.3
15026.4	45°	14364.5	12573.7	7113.6	4696.6	4411.0	4353.3	4191.2	3946.8	3705.1	3562.3
16353.0	47.5°	15419.1	13232.9	6682.4	4279.1	4089.6	4152.8	4026.4	3801.2	3532.1	3306.8
17668.5	50°	16427.1	13850.8	5976.5	3856.2	3828.7	4092.4	3971.5	3647.4	3339.8	3051.4
18959.4	52.5°	17426.9	14350.7	5072.9	3471.6	3688.6	4075.9	3900.1	3543.0	3166.8	2864.7
20173.4	55°	18275.5	14608.9	4202.2	3142.1	3485.4	3935.8	3815.0	3419.5	2922.3	2601.0
21005.6	57.5°	18758.9	14400.2	3477.1	2818.0	3205.2	3705.1	3669.4	3155.8	2631.2	2384.0
21167.7	60°	18550.2	13554.2	2883.9	2535.1	2938.8	3455.2	3416.7	2894.9	2408.7	2175.3
20299.7	62.5°	17399.4	11942.0	2414.2	2287.9	2697.1	3199.7	3164.0	2694.4	2238.4	2013.2
17995.4	65°	15081.3	9714.5	2048.9	2081.9	2452.7	2892.1	2944.3	2526.8	2103.9	1884.1
13922.3	67.5°	11502.5	7036.7	1763.3	1903.4	2213.7	2590.0	2741.1	2406.0	1991.2	1782.5
8055.6	70°	6556.0	3996.2	1521.6	1730.3	2002.2	2309.8	2584.5	2309.8	1870.4	1697.4
3018.5	72.5°	2485.6	1834.7	1315.6	1557.3	1799.0	2073.6	2411.5	2158.8	1730.3	1601.2
1560.0	75°	1326.6	1117.8	1106.9	1354.0	1565.5	1842.9	2194.5	2010.5	1626.0	1691.9
1079.4	77.5°	903.6	791.0	925.6	1159.0	1310.1	1587.5	1963.8	1785.3	1409.0	1403.5
747.1	80°	626.2	560.3	752.6	933.8	1013.5	1334.8	1713.8	1532.6	1148.1	1071.2
461.4	82.5°	376.3	365.3	563.0	697.6	716.8	1030.0	1420.0	1285.4	939.3	818.5
274.7	85°	206.0	217.0	359.8	409.2	417.5	719.6	1112.4	994.3	722.3	607.0
98.9	87.5°	57.7	74.2	131.8	162.0	200.5	373.5	661.9	590.5	362.5	252.7
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>
6770.2
7267.4
7583.2
7673.9
7624.4
7509.1
7349.8
7080.6
6786.7
6600.0
6446.2
6275.9
6086.4
5809.0
5449.2
4993.2
4474.1
3955.0
3551.3
3282.1
3026.7
2831.7
2573.5
2351.0
2142.3
1977.5
1848.4
1749.6
1675.4
1579.3
1746.8
1293.6
1024.5
824.0
612.5
252.7
0.0

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