

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: P941299

Luminaire Tested: **GALN-SB4D-735-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941299
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-SB4D-735-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 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: 40309 lumens
Efficiency: N/A
Efficacy: 137.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

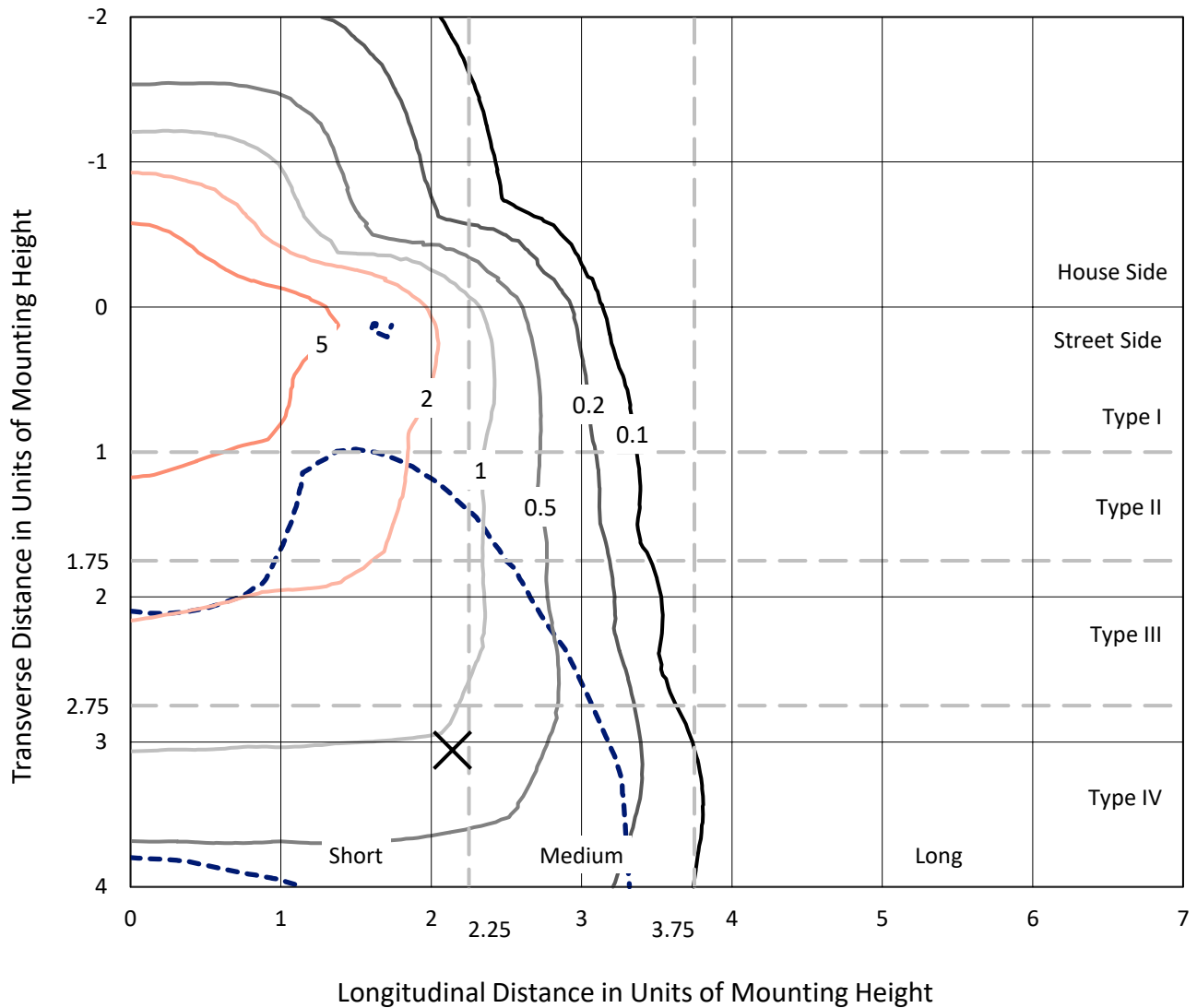
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

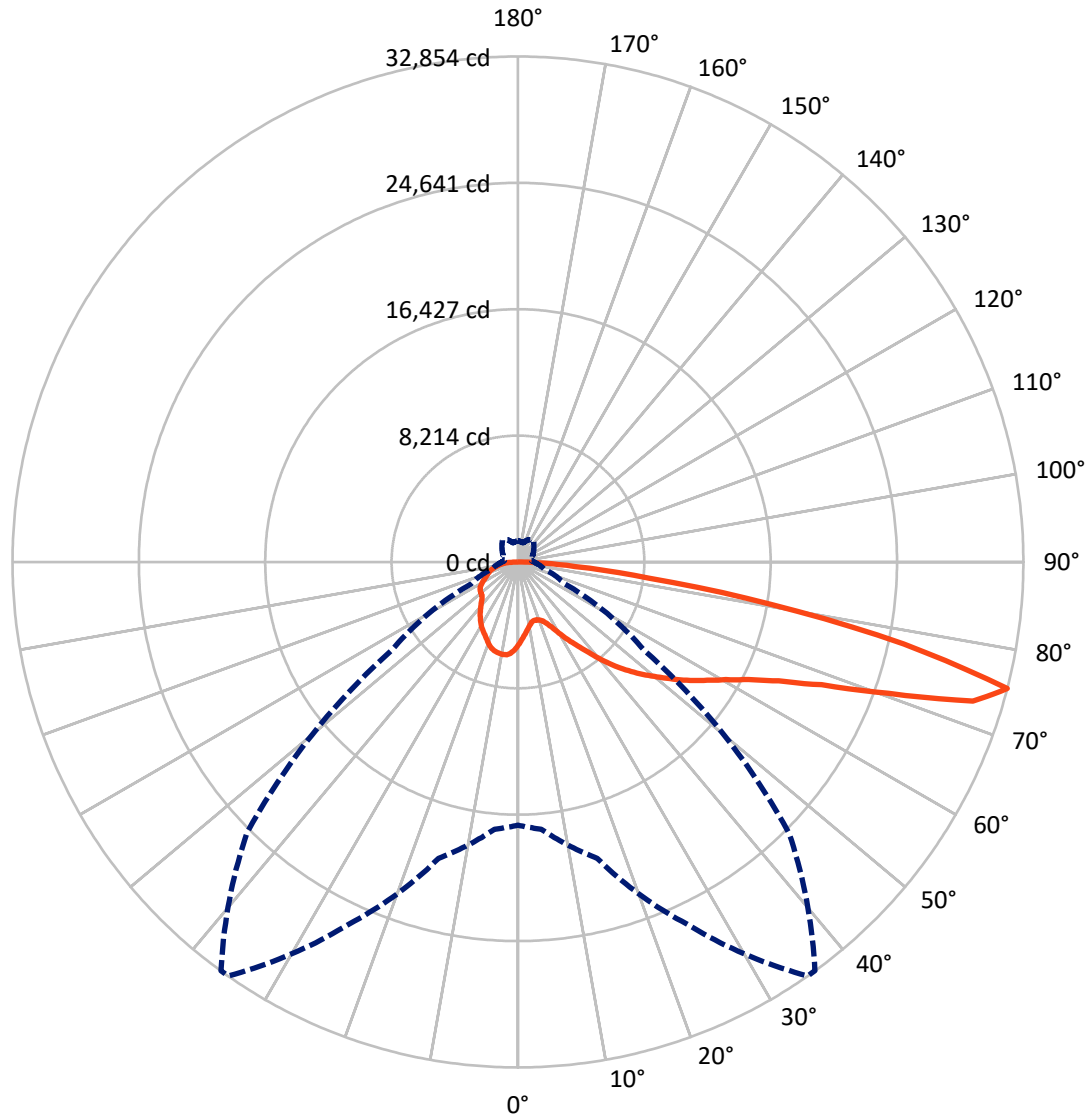
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 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	9592.5	0.0	9592.5
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	30716.5	0.0	30716.5
	% Fixture	76.2	0.0	76.2
Total	Lumens	40309.0	0.0	40309.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	508.6	1.3
10°-20°	1466.9	3.6
20°-30°	2463.4	6.1
30°-40°	3828.4	9.5
40°-50°	5682.4	14.1
50°-60°	7844.9	19.5
60°-70°	9517.6	23.6
70°-80°	7865.6	19.5
80°-90°	1131.3	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°	40309.0	100.0
0°-180°	40309.0	100.0

Coefficient of Utilization



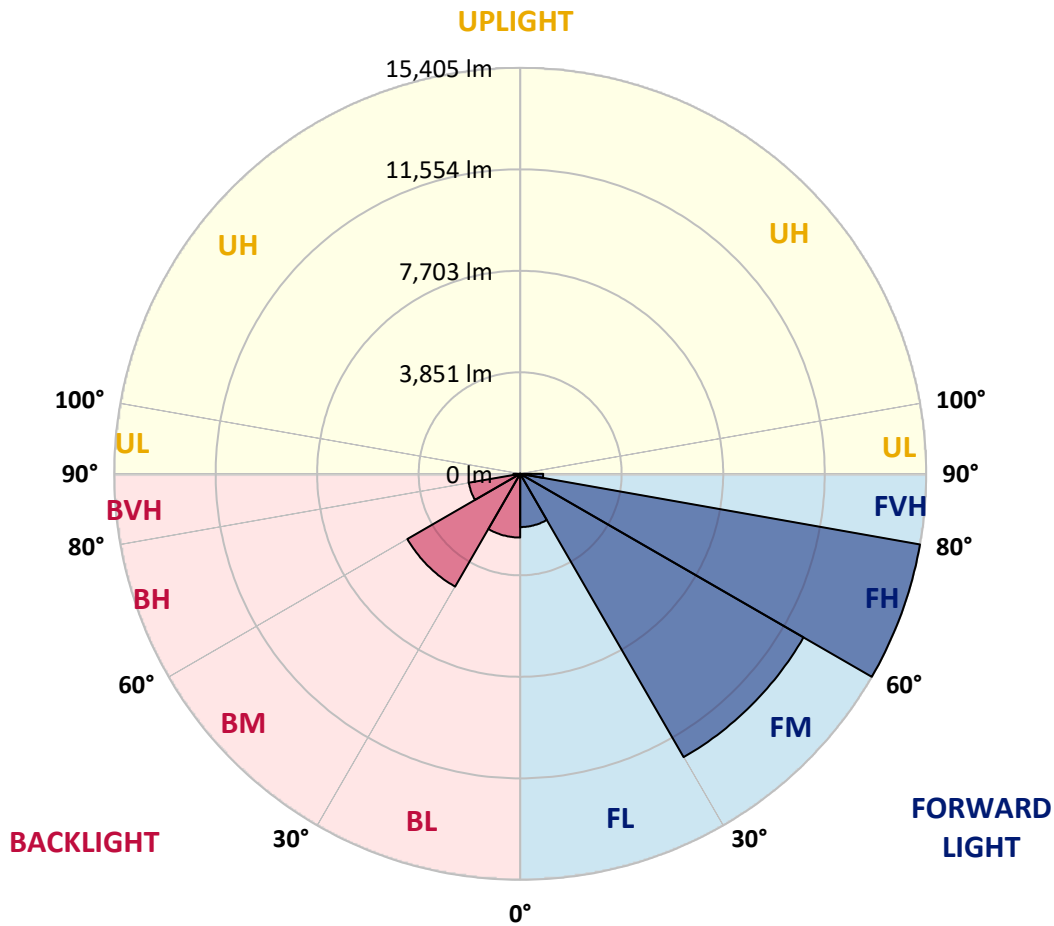
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2021.4	5.0			
FM (30°-60°)	12413.0	30.8			
FH (60°-80°)	15405.5	38.2			G5
FVH (80°-90°)	876.6	2.2			G5
BL (0°-30°)	2417.4	6.0	B3/2500		
BM (30°-60°)	4942.7	12.3	B3/5000		
BH (60°-80°)	1977.7	4.9	B3/2500		G3/2500
BVH (80°-90°)	254.7	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°	5371.4	5371.4	5371.4	5371.4	5371.4	5371.4	5371.4	5371.4	5371.4	5371.4
2.5°	4953.1	4983.6	4996.6	4990.1	5022.8	5018.4	5064.2	5120.9	5199.3	5275.6
5°	4571.7	4604.4	4632.7	4658.9	4722.1	4741.7	4813.6	4922.6	5066.4	5212.4
7.5°	4216.5	4244.9	4288.4	4336.4	4443.2	4462.8	4582.6	4752.6	4953.1	5166.6
10°	3926.7	3955.0	4000.8	4055.3	4188.2	4212.2	4364.7	4591.3	4852.8	5123.0
12.5°	3802.5	3811.2	3837.4	3891.8	4007.3	4022.6	4190.4	4449.7	4754.8	5090.3
15°	3796.0	3813.4	3815.6	3843.9	3939.8	3946.3	4101.0	4358.2	4693.8	5083.8
17.5°	3861.3	3874.4	3854.8	3872.2	3952.9	3963.8	4085.8	4314.6	4674.1	5112.1
20°	4035.7	4046.6	3987.7	3963.8	4022.6	4031.3	4151.2	4342.9	4693.8	5171.0
22.5°	4406.1	4412.6	4268.8	4170.8	4175.1	4179.5	4284.1	4458.4	4770.0	5277.7
25°	4983.6	4979.2	4750.4	4560.8	4451.9	4427.9	4497.6	4645.8	4898.6	5419.4
27.5°	5659.1	5626.4	5397.6	5114.3	4876.8	4841.9	4826.7	4889.9	5081.6	5606.8
30°	6421.8	6391.3	6145.0	5774.6	5445.5	5388.9	5245.1	5212.4	5354.0	5861.7
32.5°	7258.5	7238.9	6944.7	6495.9	6055.7	5990.3	5748.4	5661.3	5772.4	6247.4
35°	7960.2	7942.8	7698.7	7236.7	6698.5	6617.9	6371.6	6273.6	6330.2	6742.1
37.5°	8594.3	8585.6	8376.4	8012.5	7456.8	7358.8	7082.0	7049.3	7038.4	7393.6
40°	9182.7	9160.9	8943.0	8751.2	8339.4	8250.0	8006.0	7977.6	7894.8	8195.5
42.5°	9834.2	9777.6	9461.6	9372.2	9261.1	9187.0	9041.0	9045.4	8862.3	9099.9
45°	10365.9	10333.2	10008.5	9956.2	10076.1	10045.6	10172.0	10204.7	9849.5	10047.8
47.5°	10936.8	10906.3	10631.8	10594.7	10919.4	10928.1	11374.8	11385.7	10812.6	11032.7
50°	11640.7	11597.1	11324.7	11370.5	11734.4	11767.1	12584.2	12510.1	11699.5	12032.9
52.5°	12104.8	12131.0	12072.1	12146.2	12643.1	12673.6	13774.0	13584.4	12577.7	13020.0
55°	12446.9	12499.2	12682.3	12852.2	13601.9	13632.4	14896.2	14606.4	13305.5	13935.3
57.5°	12887.1	12813.0	13155.1	13486.4	14512.7	14593.3	15988.0	15591.4	13950.5	14724.1
60°	13519.0	13466.8	13732.6	14222.9	15532.5	15661.1	17142.9	16478.2	14423.4	15349.5
62.5°	14800.4	14669.6	14711.0	15144.6	16818.2	16988.2	18446.0	17251.8	14658.7	15593.5
65°	16715.8	16491.3	16282.1	16582.8	18629.0	18796.8	19916.8	17859.8	14571.5	15120.7
67.5°	19128.0	18905.7	18648.6	18931.9	21296.2	21429.1	21732.0	18201.9	13885.1	13299.0
70°	21117.5	21034.7	21342.0	22507.8	25556.3	25560.7	24059.3	17918.6	12004.6	9428.9
72.5°	20853.9	20803.7	22422.8	26027.0	30925.6	30810.1	26262.3	15774.4	8086.6	4253.6
75°	17108.0	17432.7	19940.8	25963.8	32854.1	32838.8	24913.5	10028.2	3344.9	1762.9
77.5°	9174.0	9688.2	12945.9	19169.4	25647.8	26033.5	17515.5	3508.3	1436.0	1128.8
80°	2991.9	3440.8	5160.1	9760.1	16665.6	16593.7	7507.0	1377.2	982.8	799.7
82.5°	1270.4	1322.7	2305.5	4608.8	8552.9	8420.0	2390.5	791.0	690.8	547.0
85°	496.8	555.7	1017.6	2131.1	3704.4	3623.8	862.9	392.2	442.4	357.4
87.5°	163.4	198.3	363.9	730.0	1152.7	1111.3	211.4	135.1	191.8	163.4
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°
5371.4	0°	5371.4	5371.4	5371.4	5371.4	5371.4	5371.4	5371.4	5371.4	5371.4	5371.4
5386.7	2.5°	5417.2	5452.1	5493.5	5554.5	5606.8	5650.4	5696.1	5724.5	5735.4	5768.0
5395.4	5°	5456.4	5532.7	5635.1	5735.4	5833.4	5892.2	5944.5	5970.7	5994.7	6012.1
5419.4	7.5°	5521.8	5619.9	5781.1	5911.9	5994.7	6042.6	6077.5	6068.8	6077.5	6081.8
5445.5	10°	5578.5	5715.7	5907.5	6031.7	6094.9	6097.1	6088.4	6057.9	6042.6	6044.8
5484.8	12.5°	5646.0	5798.5	6005.6	6110.2	6127.6	6079.6	6042.6	5990.3	5970.7	5962.0
5543.6	15°	5737.5	5911.9	6112.3	6151.6	6108.0	6047.0	5983.8	5898.8	5855.2	5820.3
5643.8	17.5°	5848.7	6040.4	6195.1	6166.8	6073.1	5972.9	5870.5	5741.9	5652.5	5615.5
5781.1	20°	6003.4	6175.5	6258.3	6134.1	5992.5	5840.0	5665.6	5508.7	5425.9	5388.9
5955.4	22.5°	6190.8	6356.4	6319.3	6077.5	5877.0	5632.9	5415.0	5299.5	5258.1	5232.0
6179.9	25°	6415.2	6556.9	6362.9	5994.7	5687.4	5358.4	5190.6	5153.5	5133.9	5114.3
6454.5	27.5°	6707.2	6783.5	6395.6	5872.6	5391.1	5066.4	5005.4	5011.9	5005.4	4972.7
6835.8	30°	7092.9	7077.7	6426.1	5674.3	5051.1	4802.7	4807.1	4835.4	4839.7	4818.0
7367.5	32.5°	7600.7	7445.9	6441.4	5417.2	4726.4	4571.7	4576.1	4606.6	4628.4	4591.3
8062.6	35°	8215.2	7875.2	6417.4	5094.7	4475.8	4351.6	4318.9	4327.7	4334.2	4299.3
8905.9	37.5°	8932.1	8356.8	6310.6	4737.3	4268.8	4135.9	4066.2	4007.3	3972.5	3939.8
9860.4	40°	9718.7	8882.0	6114.5	4388.7	4037.8	3907.1	3802.5	3691.4	3573.7	3530.1
10871.5	42.5°	10542.4	9422.4	5877.0	4055.3	3772.0	3665.2	3554.1	3392.8	3216.3	3127.0
11921.8	45°	11396.6	9975.9	5643.8	3726.2	3499.6	3453.9	3325.3	3131.3	2939.6	2826.3
12974.3	47.5°	12233.4	10498.8	5301.7	3395.0	3244.7	3294.8	3194.5	3015.9	2802.3	2623.6
14018.1	50°	13033.1	10989.1	4741.7	3059.4	3037.6	3246.8	3151.0	2893.8	2649.8	2421.0
15042.2	52.5°	13826.3	11385.7	4024.8	2754.4	2926.5	3233.8	3094.3	2811.0	2512.5	2272.8
16005.4	55°	14499.6	11590.6	3334.0	2492.9	2765.3	3122.6	3026.8	2713.0	2318.5	2063.6
16665.6	57.5°	14883.2	11424.9	2758.7	2235.7	2543.0	2939.6	2911.3	2503.8	2087.6	1891.4
16794.2	60°	14717.5	10753.8	2288.0	2011.3	2331.6	2741.3	2710.8	2296.8	1911.1	1725.8
16105.6	62.5°	13804.5	9474.7	1915.4	1815.2	2139.9	2538.6	2510.3	2137.7	1776.0	1597.3
14277.4	65°	11965.4	7707.4	1625.6	1651.7	1945.9	2294.6	2336.0	2004.8	1669.2	1494.9
11045.8	67.5°	9126.0	5582.8	1399.0	1510.1	1756.3	2054.9	2174.7	1908.9	1579.8	1414.2
6391.3	70°	5201.5	3170.6	1207.2	1372.8	1588.6	1832.6	2050.5	1832.6	1484.0	1346.7
2394.8	72.5°	1972.1	1455.6	1043.8	1235.5	1427.3	1645.2	1913.2	1712.8	1372.8	1270.4
1237.7	75°	1052.5	886.9	878.2	1074.3	1242.1	1462.2	1741.1	1595.1	1290.0	1342.3
856.4	77.5°	716.9	627.6	734.4	919.6	1039.4	1259.5	1558.0	1416.4	1117.9	1113.5
592.7	80°	496.8	444.5	597.1	740.9	804.1	1059.0	1359.7	1215.9	910.9	849.8
366.1	82.5°	298.5	289.8	446.7	553.5	568.7	817.2	1126.6	1019.8	745.2	649.4
217.9	85°	163.4	172.1	285.5	324.7	331.2	570.9	882.5	788.8	573.1	481.6
78.4	87.5°	45.8	58.8	104.6	128.6	159.1	296.4	525.2	468.5	287.6	200.5
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>
5371.4
5765.9
6016.5
6088.4
6049.1
5957.6
5831.2
5617.7
5384.5
5236.3
5114.3
4979.2
4828.9
4608.8
4323.3
3961.6
3549.7
3137.9
2817.6
2604.0
2401.4
2246.6
2041.8
1865.3
1699.7
1568.9
1466.5
1388.1
1329.2
1253.0
1385.9
1026.3
812.8
653.7
485.9
200.5
0.0

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