

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: P956337

Luminaire Tested: **GALN-SB9A-735-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956337
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9A-735-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40778 lumens
Efficiency: N/A
Efficacy: 159.6 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

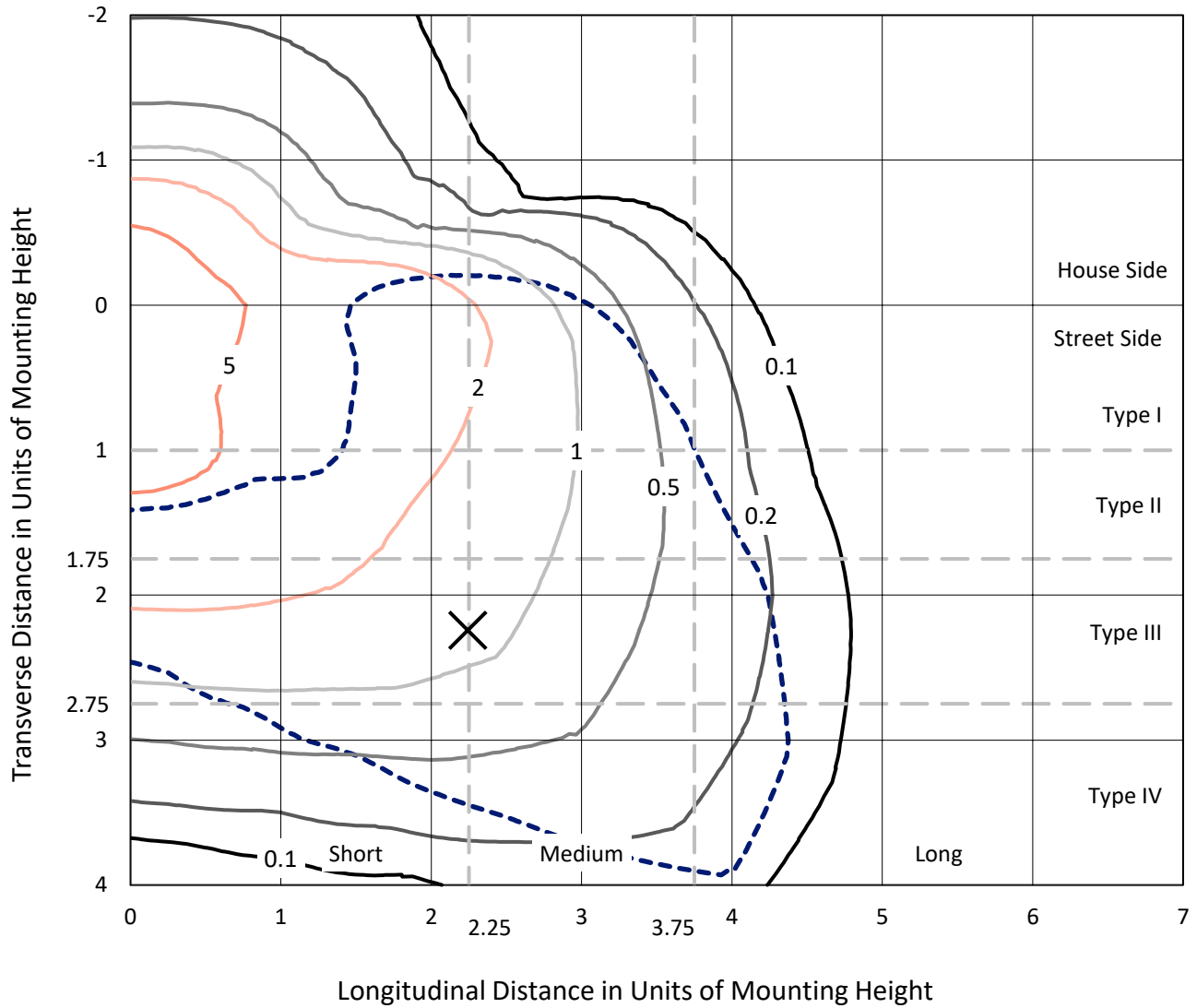
Input Watts (W): 255.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

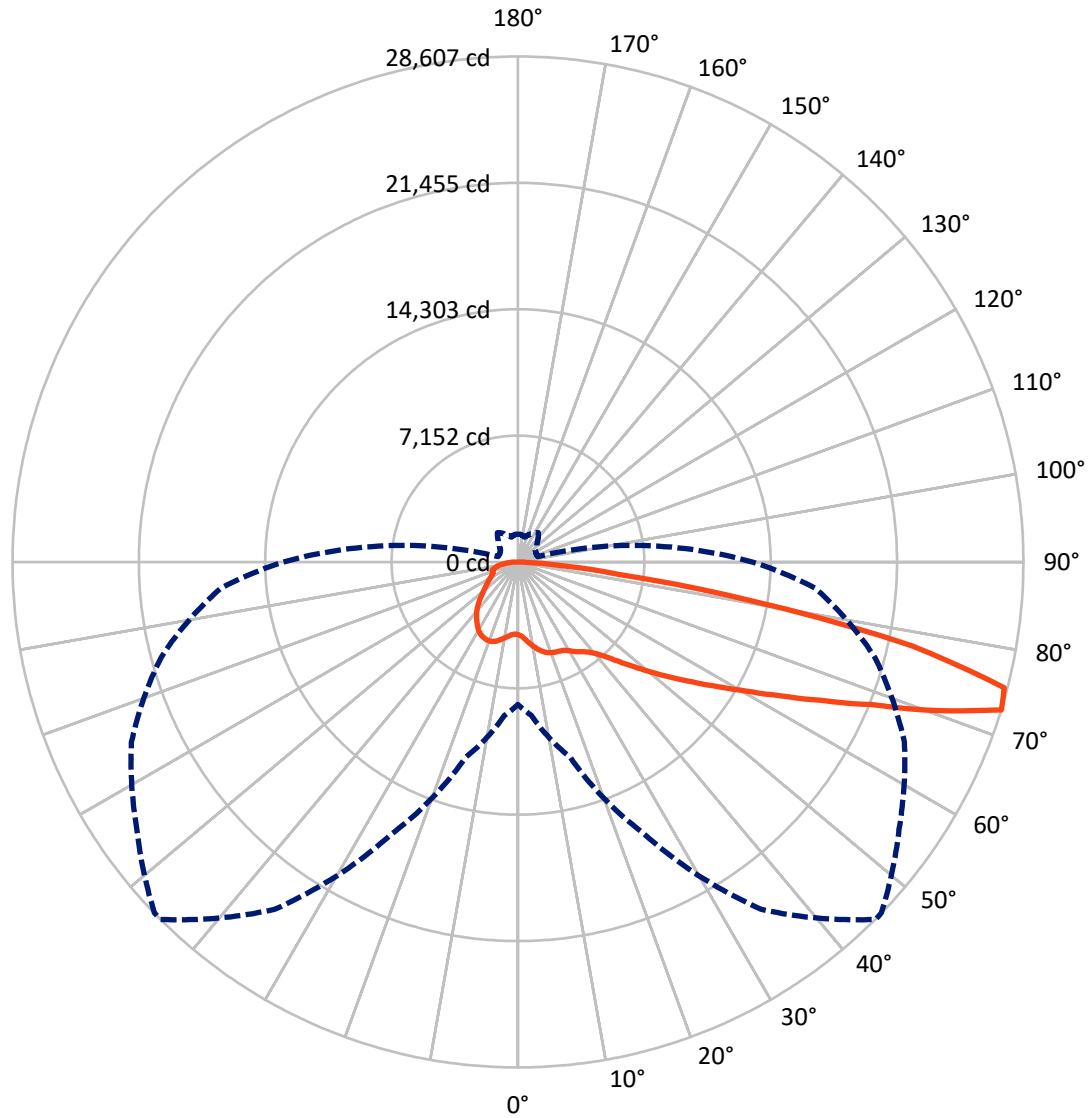
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9218.5	0.0	9218.5
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	31559.5	0.0	31559.5
	% Fixture	77.4	0.0	77.4
Total	Lumens	40778.0	0.0	40778.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	418.7	1.0
10°-20°	1396.0	3.4
20°-30°	2428.4	6.0
30°-40°	3481.2	8.5
40°-50°	4901.8	12.0
50°-60°	7508.1	18.4
60°-70°	10876.5	26.7
70°-80°	8685.6	21.3
80°-90°	1081.7	2.7
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°	40778.0	100.0
0°-180°	40778.0	100.0



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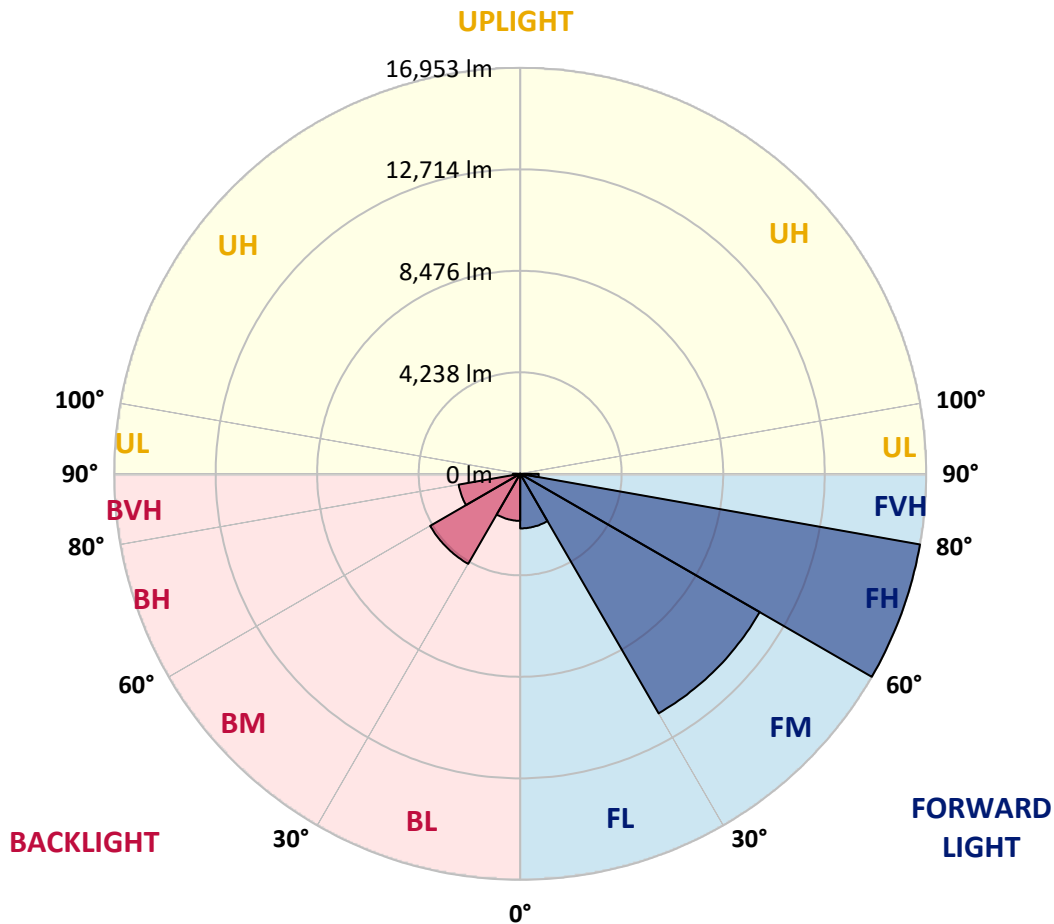
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2280.4	5.6			
FM (30°-60°)	11550.5	28.3			
FH (60°-80°)	16952.6	41.6			G5
FVH (80°-90°)	776.1	1.9			G5
BL (0°-30°)	1962.7	4.8	B3/2500		
BM (30°-60°)	4340.6	10.6	B3/5000		
BH (60°-80°)	2609.5	6.4	B4/5000		G4/5000
BVH (80°-90°)	305.7	0.7			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°	45°	46°	55°	65°	75°
0°	4113.7	4113.7	4113.7	4113.7	4113.7	4113.7	4113.7	4113.7	4113.7	4113.7
2.5°	4274.8	4302.7	4277.0	4253.3	4242.6	4214.7	4212.5	4195.3	4184.6	4154.5
5°	4573.4	4609.9	4567.0	4519.7	4476.7	4408.0	4399.4	4350.0	4294.2	4229.7
7.5°	4910.7	4942.9	4893.5	4822.6	4747.4	4633.6	4631.4	4541.2	4453.1	4343.6
10°	5205.0	5247.9	5181.3	5084.7	4990.2	4861.3	4846.2	4743.1	4631.4	4489.6
12.5°	5464.9	5495.0	5430.5	5312.4	5202.8	5073.9	5054.6	4940.7	4816.2	4655.0
15°	5671.1	5709.8	5623.9	5497.1	5381.1	5254.4	5237.2	5134.1	5009.5	4839.8
17.5°	5806.4	5838.7	5750.6	5608.8	5497.1	5391.9	5379.0	5293.0	5183.5	5011.6
20°	5858.0	5892.4	5800.0	5656.1	5553.0	5471.3	5464.9	5402.6	5327.4	5170.6
22.5°	5909.6	5941.8	5821.5	5671.1	5580.9	5529.3	5527.2	5486.4	5456.3	5327.4
25°	6117.9	6126.5	5965.4	5748.4	5619.6	5574.4	5572.3	5570.2	5583.0	5482.1
27.5°	6298.4	6296.2	6158.7	5954.7	5754.9	5660.4	5658.2	5679.7	5720.5	5636.7
30°	6562.6	6539.0	6375.7	6163.0	5980.4	5834.4	5821.5	5802.2	5834.4	5767.8
32.5°	7123.3	7048.1	6783.9	6405.8	6167.3	6055.6	6038.4	5918.2	5931.0	5890.2
35°	7926.7	7827.9	7475.6	6865.5	6399.3	6240.4	6231.8	6079.3	6053.5	6017.0
37.5°	8882.6	8760.2	8349.9	7531.4	6798.9	6455.2	6442.3	6304.8	6199.6	6160.9
40°	9842.8	9688.2	9348.7	8343.4	7387.5	6813.9	6773.1	6564.7	6444.4	6380.0
42.5°	10775.1	10646.2	10356.2	9254.2	8113.6	7338.1	7247.9	6891.3	6801.0	6740.9
45°	11600.0	11484.0	11271.3	10227.3	8964.2	8051.3	7963.2	7381.0	7353.1	7353.1
47.5°	12270.2	12244.5	12018.9	11219.8	9967.4	8863.3	8710.7	8062.0	8137.2	8253.2
50°	13013.5	12942.6	12702.0	12197.2	11146.7	9793.4	9668.8	8897.6	9179.0	9497.0
52.5°	13696.6	13735.3	13466.7	13215.4	12478.6	10831.0	10611.9	9883.6	10491.6	11017.9
55°	14399.0	14401.2	14326.0	14291.6	13874.9	11978.1	11737.5	11069.4	12036.1	12689.1
57.5°	15058.5	15062.8	15174.5	15477.4	15494.6	13301.3	13028.5	12525.9	13752.5	14418.4
60°	15647.1	15677.2	15982.2	16691.1	16918.8	14817.9	14560.2	14246.5	15526.8	16197.0
62.5°	15844.8	15954.3	16633.1	17640.6	18325.9	16678.2	16424.8	16237.9	17391.4	18014.4
65°	15509.6	15761.0	17073.5	18424.7	19773.7	18888.7	18637.3	18433.3	19329.1	19915.5
67.5°	14686.9	15011.3	17047.7	19247.4	21530.9	21548.1	21313.9	20834.9	21406.3	21631.9
70°	12519.4	13004.9	15546.2	19554.6	23548.0	25184.9	24959.4	23726.3	23479.3	22388.0
72.5°	8066.3	8719.3	11447.5	17026.2	23997.0	28606.9	28594.0	26336.3	24134.5	20918.7
75°	2943.0	3342.5	5318.8	10687.0	20143.2	28432.9	28516.7	25889.5	22031.4	16158.4
77.5°	1071.9	1172.9	1735.7	4107.3	12388.4	22813.3	22987.3	20697.4	15681.5	8109.3
80°	562.8	618.7	889.3	1593.9	5308.1	13548.4	13821.2	12300.3	7370.3	2442.4
82.5°	311.5	337.3	498.4	865.7	2390.9	5793.6	5956.8	4859.1	2592.8	1035.4
85°	167.6	178.3	234.1	472.6	1168.6	2008.5	2053.6	1452.1	1033.3	607.9
87.5°	49.4	60.1	77.3	150.4	457.6	451.1	461.9	287.9	408.1	307.2
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°
4113.7	0°	4113.7	4113.7	4113.7	4113.7	4113.7	4113.7	4113.7	4113.7	4113.7	4113.7
4145.9	2.5°	4133.0	4126.6	4103.0	4092.2	4079.3	4077.2	4087.9	4090.1	4092.2	4094.4
4193.2	5°	4171.7	4150.2	4128.7	4115.9	4120.2	4122.3	4143.8	4158.8	4169.6	4178.2
4281.3	7.5°	4246.9	4229.7	4193.2	4191.0	4197.5	4216.8	4244.7	4279.1	4298.4	4313.5
4395.1	10°	4358.6	4326.4	4283.4	4289.9	4302.7	4330.7	4388.7	4416.6	4448.8	4476.7
4534.7	12.5°	4472.4	4444.5	4395.1	4399.4	4420.9	4470.3	4526.2	4560.5	4582.0	4603.5
4685.1	15°	4620.7	4571.3	4517.6	4517.6	4556.2	4609.9	4635.7	4663.6	4676.5	4700.2
4846.2	17.5°	4773.2	4708.7	4637.9	4633.6	4680.8	4706.6	4721.6	4725.9	4730.2	4756.0
5003.0	20°	4925.7	4854.8	4753.9	4745.3	4756.0	4751.7	4749.6	4745.3	4751.7	4783.9
5164.2	22.5°	5076.1	4994.4	4854.8	4816.2	4786.1	4745.3	4743.1	4741.0	4745.3	4777.5
5338.2	25°	5252.2	5153.4	4966.5	4850.5	4749.6	4693.7	4700.2	4702.3	4706.6	4732.4
5518.6	27.5°	5443.4	5333.9	5069.6	4839.8	4657.2	4618.5	4607.8	4614.2	4629.3	4670.1
5699.0	30°	5634.6	5505.7	5164.2	4796.8	4541.2	4487.5	4453.1	4468.2	4515.4	4556.2
5855.9	32.5°	5808.6	5679.7	5239.3	4702.3	4393.0	4309.2	4264.1	4283.4	4330.7	4345.7
6029.9	35°	6012.7	5866.6	5271.6	4551.9	4231.9	4103.0	4042.8	4014.9	4038.5	4023.5
6233.9	37.5°	6240.4	6087.9	5267.3	4354.3	4042.8	3894.6	3810.8	3705.6	3656.2	3604.6
6534.7	40°	6577.6	6358.5	5215.7	4115.9	3808.7	3673.3	3523.0	3344.7	3233.0	3132.0
7020.2	42.5°	7037.3	6734.4	5121.2	3853.8	3544.4	3417.7	3213.6	3005.3	2829.1	2661.6
7757.0	45°	7722.6	7226.4	5003.0	3574.5	3258.7	3134.2	2912.9	2678.7	2479.0	2264.1
8803.1	47.5°	8710.7	7888.0	4891.3	3256.6	2958.0	2844.2	2644.4	2427.4	2191.1	1982.7
10315.4	50°	10068.4	8837.5	4788.2	2947.3	2661.6	2575.6	2416.7	2195.4	1957.0	1789.4
12087.6	52.5°	11795.5	10128.5	4745.3	2648.7	2384.4	2352.2	2225.5	2019.3	1793.7	1651.9
14154.2	55°	13778.2	11673.0	4745.3	2363.0	2141.7	2152.4	2064.4	1873.2	1677.7	1551.0
16285.1	57.5°	15801.8	13236.9	4659.3	2098.7	1935.5	1980.6	1924.7	1757.2	1581.0	1450.0
18525.6	60°	17666.4	14547.3	4311.3	1858.1	1752.9	1823.8	1787.3	1643.3	1428.5	1319.0
20398.8	62.5°	19099.2	15286.2	3641.1	1667.0	1602.5	1684.1	1664.8	1493.0	1400.6	1355.5
21936.9	65°	19816.7	15165.9	2784.0	1497.3	1475.8	1602.5	1561.7	1555.3	1482.2	1430.7
22437.4	67.5°	19376.3	14130.5	2019.3	1372.7	1402.7	1527.3	1684.1	1709.9	1574.6	1473.6
21028.2	70°	17445.1	12257.3	1503.7	1254.5	1310.4	1529.5	1920.4	1789.4	1544.5	1426.4
16865.1	72.5°	13271.3	9140.4	1166.4	1129.9	1190.1	1540.2	2025.7	1752.9	1458.6	1576.7
10506.6	75°	7589.4	5018.1	936.6	977.4	1039.7	1439.3	1972.0	1658.4	1392.0	1447.9
4163.1	77.5°	2893.6	1929.0	773.3	827.0	835.6	1256.7	1886.1	1651.9	1325.4	1293.2
1248.1	80°	1003.2	754.0	640.1	657.3	646.6	1117.0	1808.7	1437.1	1084.8	971.0
515.6	82.5°	410.3	375.9	507.0	485.5	459.7	867.9	1460.7	1175.0	887.2	784.1
249.2	85°	178.3	238.4	335.1	294.3	266.4	601.5	1170.7	994.6	749.7	646.6
81.6	87.5°	36.5	90.2	141.8	133.2	137.5	401.7	831.3	706.7	530.6	397.4
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>
4113.7
4103.0
4182.4
4317.8
4470.3
4612.1
4708.7
4764.6
4796.8
4799.0
4766.7
4710.9
4601.3
4399.4
4070.7
3636.8
3138.4
2646.5
2238.4
1959.1
1778.7
1641.2
1538.1
1428.5
1301.8
1340.4
1413.5
1456.4
1407.0
1563.9
1447.9
1179.3
938.7
775.5
644.4
311.5
0.0

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