

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: P954907

Luminaire Tested: **GALN-SB8A-735-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954907
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8A-735-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37237 lumens
Efficiency: N/A
Efficacy: 164.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

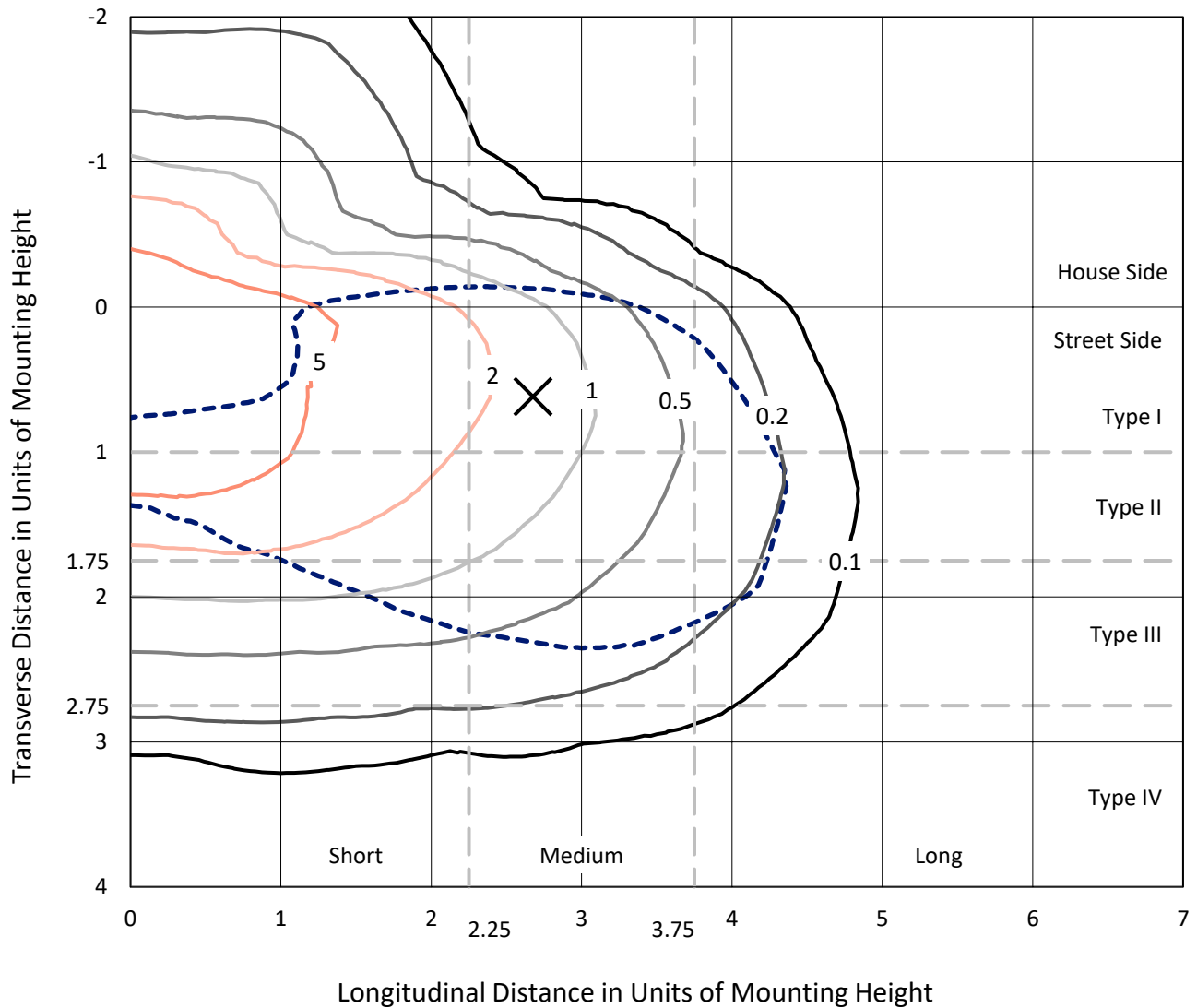
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

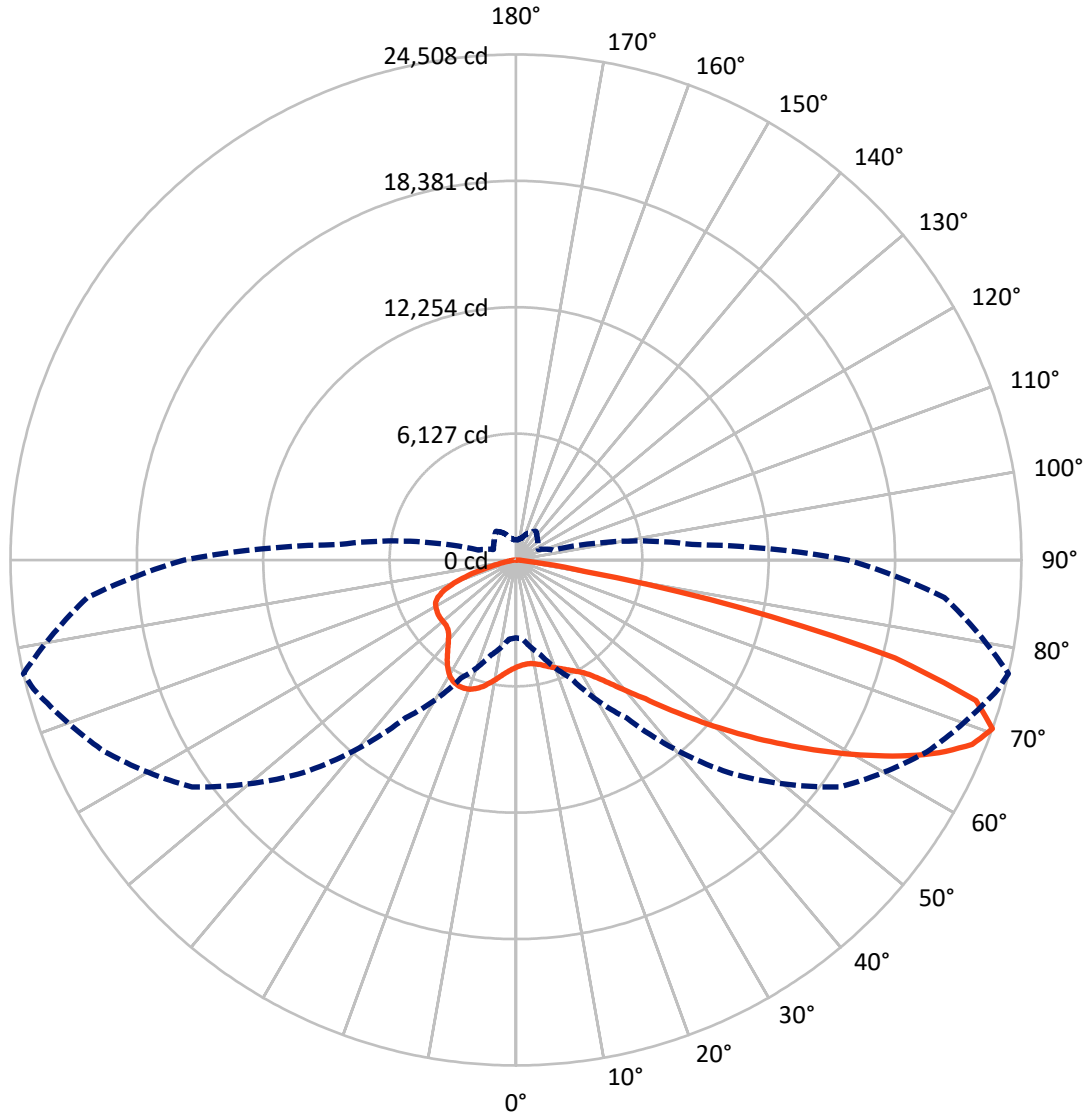
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8154.3	0.0	8154.3
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	29082.7	0.0	29082.7
	% Fixture	78.1	0.0	78.1
Total	Lumens	37237.0	0.0	37237.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	495.5	1.3
10°-20°	1429.9	3.8
20°-30°	2445.4	6.6
30°-40°	3932.4	10.6
40°-50°	6139.5	16.5
50°-60°	8201.0	22.0
60°-70°	8740.9	23.5
70°-80°	5380.9	14.5
80°-90°	471.5	1.3
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°	37237.0	100.0
0°-180°	37237.0	100.0



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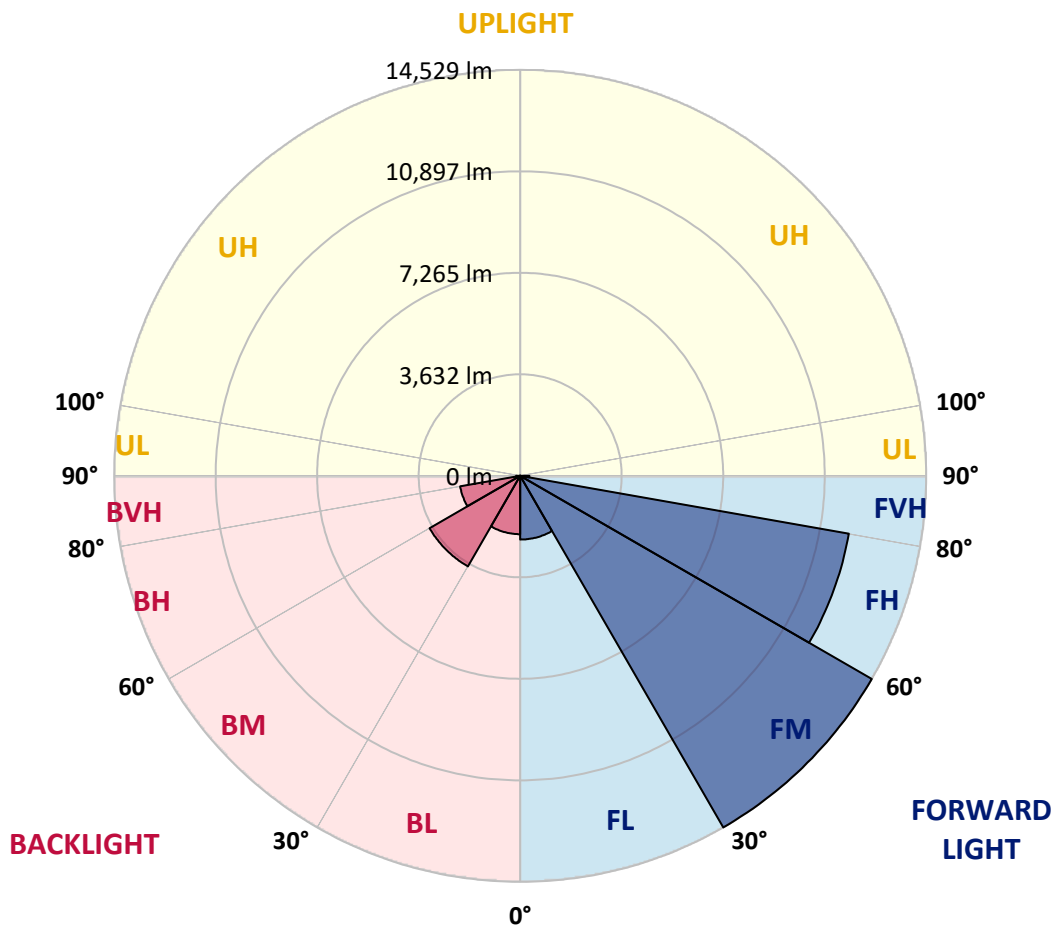
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2281.4	6.1			
FM (30°-60°)	14529.1	39.0			
FH (60°-80°)	11942.5	32.1			G4/12000
FVH (80°-90°)	329.7	0.9			G3/500
BL (0°-30°)	2089.4	5.6	B3/2500		
BM (30°-60°)	3743.8	10.1	B3/5000		
BH (60°-80°)	2179.3	5.9	B3/2500		G3/2500
BVH (80°-90°)	141.8	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	5194.9	5194.9	5194.9	5194.9	5194.9	5194.9	5194.9	5194.9	5194.9	5194.9
2.5°	4788.7	4786.8	4811.6	4819.2	4865.0	4897.4	4958.4	5023.3	5107.2	5116.7
5°	4512.2	4512.2	4540.8	4571.3	4630.4	4695.2	4788.7	4901.2	5046.1	5069.0
7.5°	4277.6	4292.8	4317.6	4376.8	4445.4	4538.9	4681.9	4842.1	5032.8	5069.0
10°	4088.8	4106.0	4136.5	4184.1	4287.1	4416.8	4603.7	4809.7	5065.2	5122.4
12.5°	4029.7	4046.8	4064.0	4100.2	4195.6	4348.2	4571.3	4824.9	5143.4	5200.6
15°	4167.0	4188.0	4174.6	4165.1	4214.7	4353.9	4586.5	4880.2	5240.7	5322.7
17.5°	4483.6	4491.2	4460.7	4371.0	4363.4	4437.8	4659.0	4956.5	5362.7	5452.4
20°	4994.7	4981.3	4918.4	4741.0	4639.9	4624.7	4783.0	5070.9	5488.6	5583.9
22.5°	5688.8	5673.6	5547.7	5267.4	5042.3	4893.6	4962.2	5219.7	5629.7	5736.5
25°	6554.7	6533.7	6348.7	5967.3	5618.3	5250.2	5206.3	5416.1	5803.3	5902.4
27.5°	7565.4	7548.2	7348.0	6844.5	6341.1	5738.4	5509.6	5646.9	5984.4	6097.0
30°	8652.4	8702.0	8347.3	7805.7	7168.7	6375.4	5917.7	5931.0	6219.0	6320.1
32.5°	9930.2	10016.0	9588.8	8902.3	8032.6	7067.7	6432.6	6327.7	6560.4	6644.3
35°	11196.5	11293.8	10939.0	10180.0	9178.8	7883.9	6970.4	6783.5	7014.3	7105.8
37.5°	12291.2	12420.8	12237.8	11577.9	10405.1	8867.9	7672.2	7319.4	7573.0	7687.5
40°	13155.1	13353.4	13340.1	12928.1	11850.6	10061.8	8562.8	7981.2	8267.2	8391.2
42.5°	13856.9	14028.5	14177.3	14156.3	13359.1	11417.7	9609.8	8841.2	9058.7	9201.7
45°	14341.3	14524.4	14844.8	15189.9	14810.4	12869.0	10809.4	9861.5	10059.9	10275.4
47.5°	14774.2	14982.1	15397.8	15945.1	16042.4	14326.0	12123.3	11049.7	11230.8	11454.0
50°	14812.3	14991.6	15636.2	16412.4	16917.8	15725.8	13534.6	12382.7	12552.4	12790.8
52.5°	13891.2	14173.5	15298.6	16399.0	17320.2	16896.8	14936.3	13769.2	13959.9	14245.9
55°	10782.7	11196.5	14308.9	15887.9	17177.1	17653.9	16269.3	15243.3	15487.4	15786.9
57.5°	9287.5	9468.7	11358.6	14957.3	16524.9	17850.3	17394.5	16732.8	17125.6	17453.6
60°	8347.3	8498.0	9615.5	13509.8	15666.7	17539.5	18264.2	18121.1	18800.0	19191.0
62.5°	7340.4	7483.4	8499.9	11280.4	14568.2	17022.6	18813.4	19402.7	20516.4	20943.6
65°	6341.1	6463.1	7437.6	9478.2	13172.2	16505.8	19097.6	20510.7	22105.0	22547.5
67.5°	5227.3	5328.4	6249.5	7996.4	11474.9	15798.3	19238.7	21382.2	23487.7	23867.2
70°	3772.2	3850.4	4802.0	6323.9	9344.7	14581.6	19181.5	22000.1	24204.7	24508.0
72.5°	1783.1	1853.7	2971.2	4106.0	6600.4	12213.0	18023.9	21510.0	23476.2	23325.6
75°	951.6	1012.7	1706.8	2252.3	3486.2	8372.1	14749.4	18529.2	19713.5	18981.2
77.5°	644.6	692.3	1056.5	1352.1	1592.4	3974.4	9480.1	12829.0	12342.7	11133.6
80°	511.1	560.7	865.8	915.4	770.5	1436.0	3917.2	5938.7	4266.2	3411.8
82.5°	392.9	448.2	728.5	663.7	419.6	589.3	1140.4	1878.5	1092.8	831.5
85°	240.3	299.4	572.1	423.4	236.5	268.9	387.1	522.5	333.7	278.4
87.5°	122.1	171.6	289.9	154.5	106.8	62.9	103.0	103.0	87.7	76.3
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°
5194.9	0°	5194.9	5194.9	5194.9	5194.9	5194.9	5194.9	5194.9	5194.9	5194.9	5194.9
5168.2	2.5°	5214.0	5252.1	5317.0	5378.0	5425.7	5471.4	5517.2	5542.0	5549.6	5580.1
5196.8	5°	5275.0	5345.6	5471.4	5589.7	5664.0	5709.8	5742.2	5761.3	5765.1	5774.7
5275.0	7.5°	5387.5	5500.0	5675.5	5793.7	5849.0	5845.2	5831.9	5784.2	5765.1	5748.0
5389.4	10°	5545.8	5694.6	5910.1	5992.1	5957.7	5866.2	5748.0	5608.7	5543.9	5481.0
5545.8	12.5°	5742.2	5931.0	6142.7	6138.9	5969.2	5734.6	5460.0	5246.4	5111.0	5013.7
5738.4	15°	5980.6	6198.0	6360.1	6230.4	5858.6	5437.1	5034.7	4756.3	4634.2	4527.4
5932.9	17.5°	6226.6	6459.3	6533.7	6201.8	5580.1	4996.6	4540.8	4321.5	4201.3	4144.1
6142.7	20°	6466.9	6697.7	6636.7	6037.8	5156.8	4496.9	4090.7	3970.6	3945.8	3959.1
6346.8	22.5°	6720.6	6926.5	6657.6	5721.3	4617.1	3985.8	3762.7	3766.5	3821.8	3861.8
6560.4	25°	6979.9	7119.2	6602.3	5263.6	4037.3	3610.1	3554.8	3615.8	3724.5	3802.7
6800.7	27.5°	7229.8	7290.8	6482.2	4697.2	3539.6	3341.2	3350.7	3476.6	3640.6	3749.3
7092.5	30°	7512.0	7443.4	6251.4	4060.2	3194.4	3110.5	3190.6	3337.4	3501.4	3598.7
7460.5	32.5°	7830.5	7574.9	5885.3	3470.9	2950.3	2925.5	3057.1	3152.4	3224.9	3253.5
7948.7	35°	8227.2	7759.9	5416.1	3057.1	2730.9	2790.1	2915.9	2868.3	2839.7	2824.4
8604.8	37.5°	8742.1	8009.8	4866.9	2788.2	2553.6	2692.8	2744.3	2595.5	2483.0	2427.7
9400.0	40°	9361.9	8375.9	4338.6	2580.3	2441.1	2608.9	2519.3	2340.0	2197.0	2118.8
10294.4	42.5°	10050.3	8759.2	3894.3	2423.9	2378.1	2540.2	2353.3	2139.8	1909.0	1884.2
11360.5	45°	10773.1	9154.0	3591.0	2303.8	2347.6	2481.1	2258.0	1912.8	1748.8	1849.9
12430.4	47.5°	11495.9	9516.4	3408.0	2214.1	2332.4	2414.4	2174.1	1786.9	1670.6	1817.5
13576.5	50°	12300.7	9840.6	3326.0	2149.3	2315.2	2387.7	2048.2	1754.5	1588.6	1685.9
14762.7	52.5°	13099.8	10092.3	3264.9	2084.4	2290.4	2366.7	1987.2	1716.4	1489.4	1495.2
15956.6	55°	13896.9	10256.3	3198.2	1998.6	2235.1	2320.9	1981.5	1674.4	1415.1	1388.4
17219.1	57.5°	14747.5	10349.8	3116.2	1903.3	2139.8	2204.6	1975.7	1642.0	1392.2	1348.3
18510.2	60°	15613.3	10487.1	3009.4	1786.9	2012.0	2065.4	1962.4	1630.6	1378.8	1304.4
19726.9	62.5°	16389.5	10534.7	2881.6	1676.3	1848.0	1928.1	1933.8	1621.0	1342.6	1214.8
20737.6	65°	16898.7	10328.8	2658.5	1550.5	1670.6	1786.9	1878.5	1588.6	1277.7	1150.0
21237.3	67.5°	16877.7	9741.4	2309.5	1388.4	1499.0	1630.6	1798.4	1533.3	1199.6	1069.9
20859.7	70°	16092.0	8581.9	1867.0	1199.6	1310.2	1462.7	1695.4	1451.3	1106.1	982.1
18548.3	72.5°	13801.6	6716.8	1355.9	978.3	1090.9	1289.2	1561.9	1352.1	1010.8	904.0
13708.1	75°	9859.6	4250.9	919.2	751.4	848.7	1092.8	1396.0	1235.8	923.0	907.8
6865.5	77.5°	5036.6	2031.0	608.4	549.2	591.2	862.0	1172.9	1104.2	936.4	749.5
1952.9	80°	1638.2	749.5	383.3	373.8	392.9	574.0	907.8	905.9	709.4	509.2
473.0	82.5°	522.5	322.3	249.8	240.3	230.8	360.4	633.2	717.1	478.7	322.3
169.7	85°	207.9	192.6	146.8	135.4	97.3	169.7	331.8	476.8	356.6	232.7
43.9	87.5°	76.3	76.3	40.0	28.6	21.0	57.2	89.6	143.0	204.1	120.1
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>
5194.9
5597.3
5789.9
5751.8
5461.9
4990.8
4516.0
4161.3
3953.4
3871.4
3823.7
3776.0
3621.6
3268.7
2839.7
2441.1
2124.5
1909.0
1903.3
1886.1
1758.3
1535.2
1407.4
1354.0
1310.2
1214.8
1150.0
1075.6
993.6
898.2
856.3
667.5
450.1
320.4
238.4
118.2
0.0

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