

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: P956463

Luminaire Tested: **GALN-SB9A-835-U-T4W**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P956463  
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-835-U-T4W  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 80 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

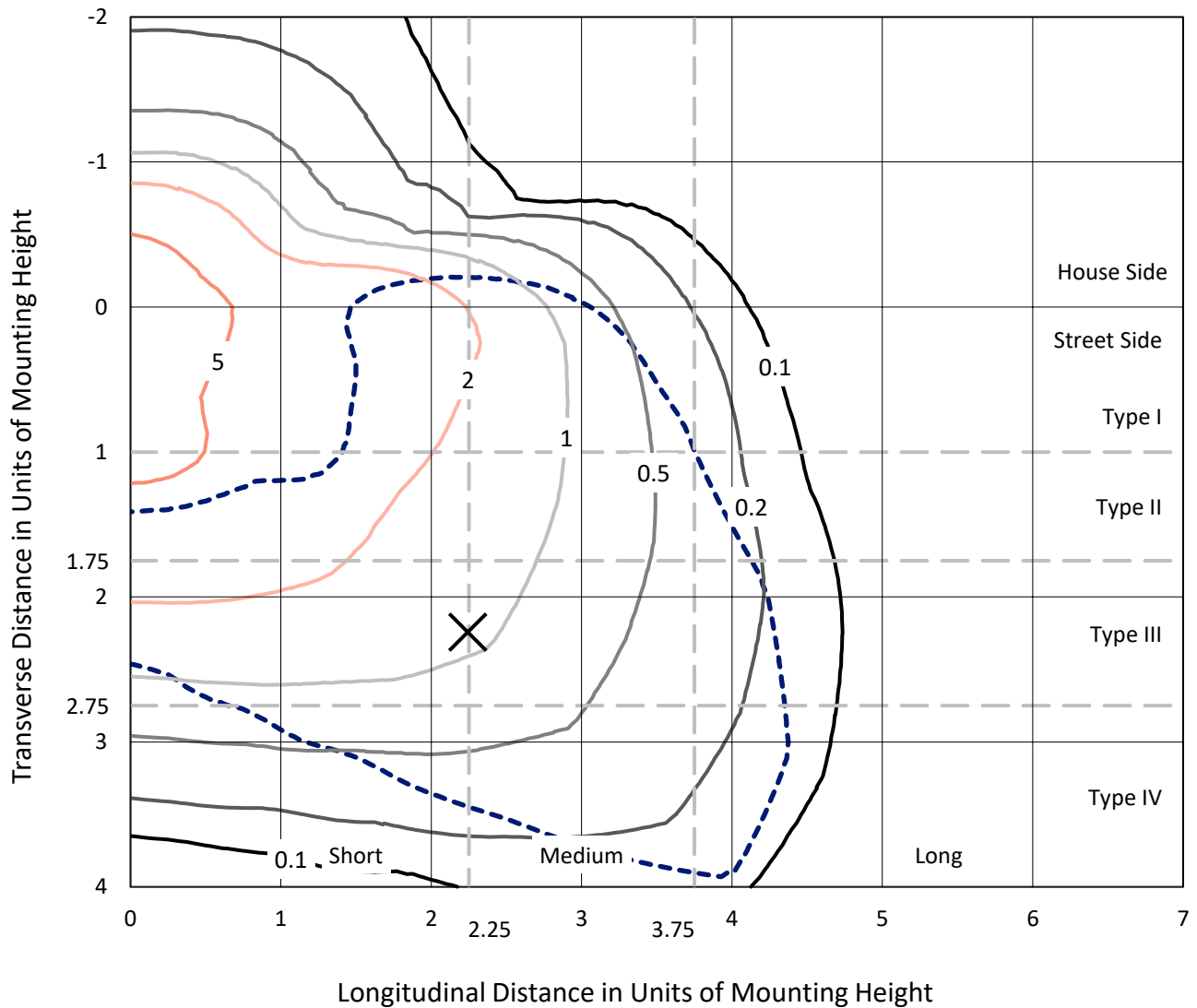
Lumens per Lamp: N/A  
Luminaire Lumens: 37823 lumens  
Efficiency: N/A  
Efficacy: 148.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 255.5  
Input Voltage (V): NR  
Input Current (Ain): 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

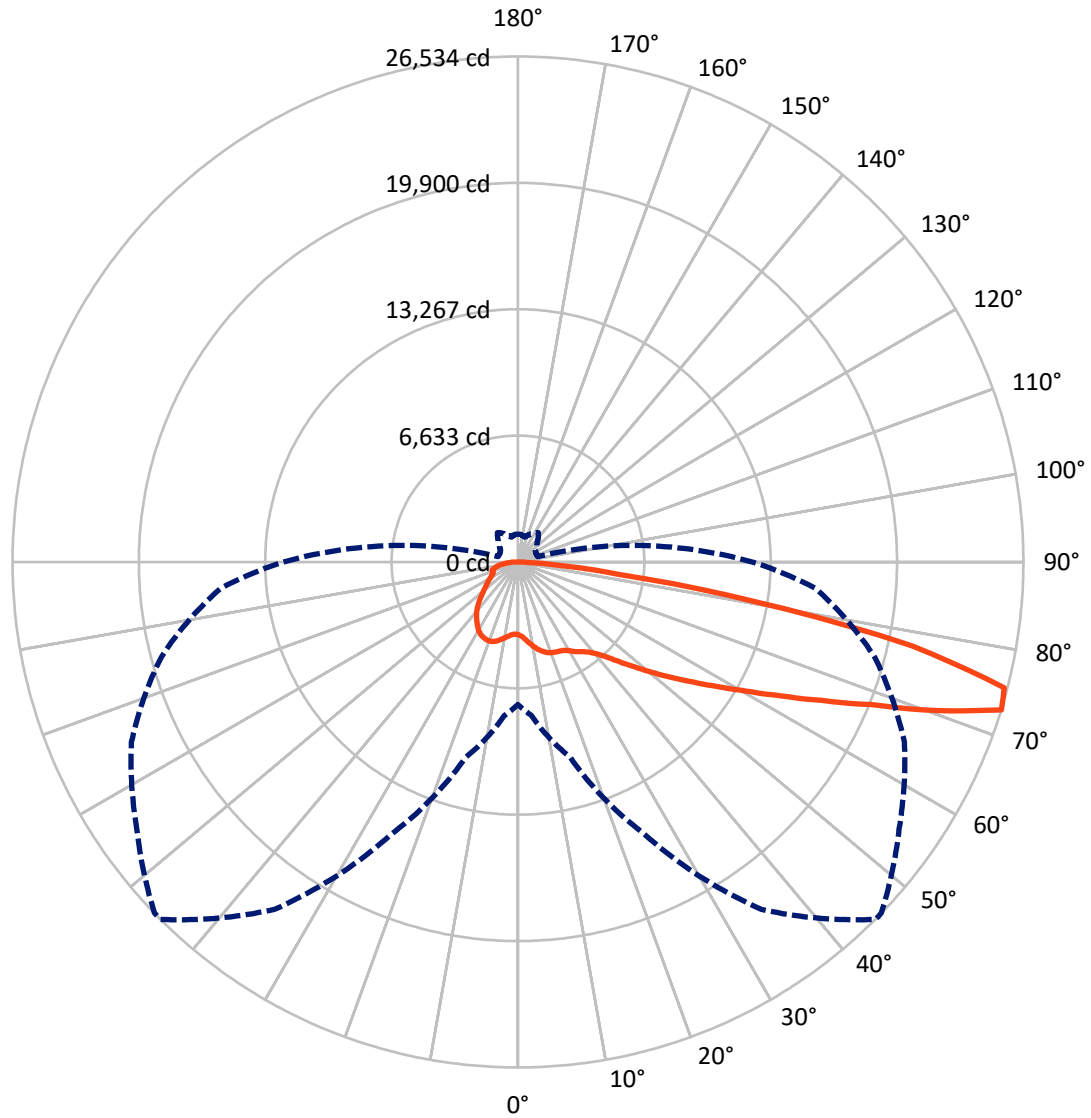
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 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
<b>House Side</b>	Lumens	8550.5	0.0	8550.5
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	29272.5	0.0	29272.5
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	37823.0	0.0	37823.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	388.4	1.0
10°-20°	1294.8	3.4
20°-30°	2252.4	6.0
30°-40°	3229.0	8.5
40°-50°	4546.6	12.0
50°-60°	6964.0	18.4
60°-70°	10088.4	26.7
70°-80°	8056.2	21.3
80°-90°	1003.4	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°	37823.0	100.0
0°-180°	37823.0	100.0



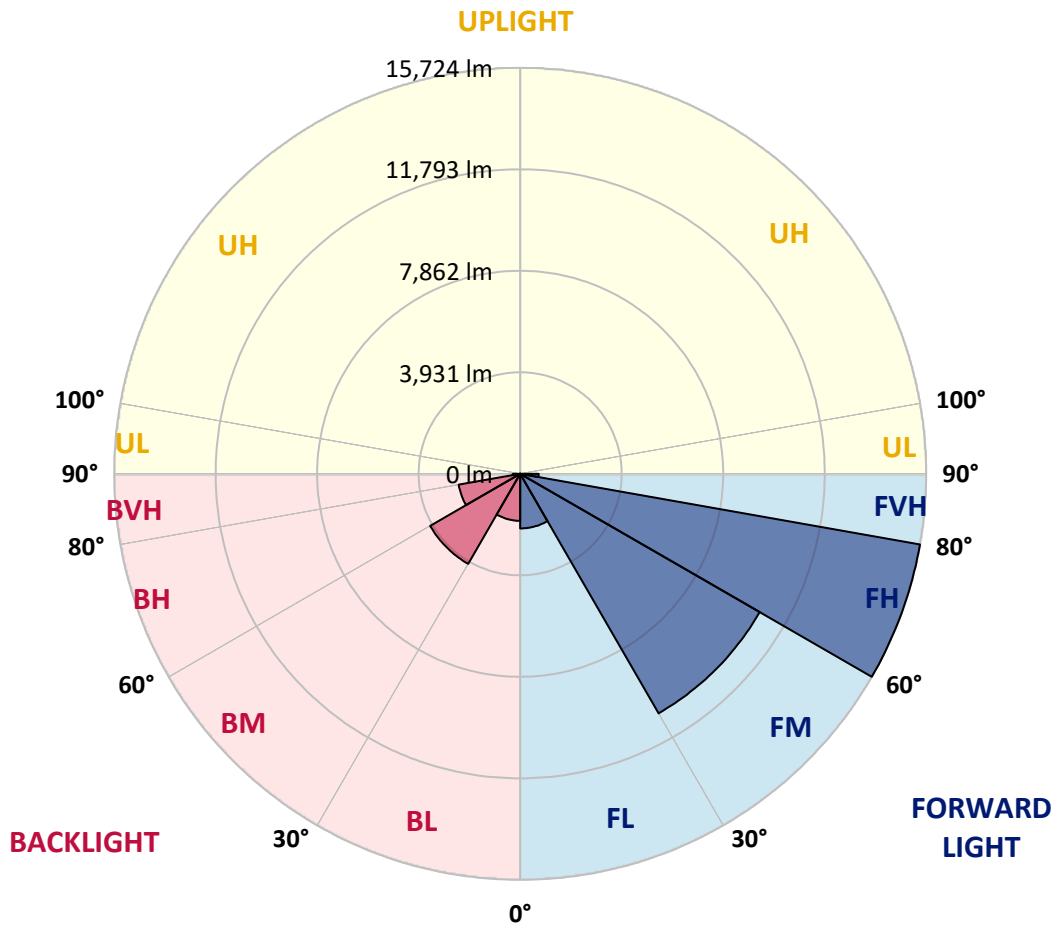
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2115.1	5.6			
FM (30°-60°)	10713.4	28.3			
FH (60°-80°)	15724.1	41.6			G5
FVH (80°-90°)	719.8	1.9			G4/750
BL (0°-30°)	1820.5	4.8	B3/2500		
BM (30°-60°)	4026.1	10.6	B3/5000		
BH (60°-80°)	2420.4	6.4	B3/2500		G3/2500
BVH (80°-90°)	283.5	0.7			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°	45°	46°	55°	65°	75°
0°	3815.6	3815.6	3815.6	3815.6	3815.6	3815.6	3815.6	3815.6	3815.6	3815.6
2.5°	3965.0	3990.9	3967.0	3945.1	3935.2	3909.3	3907.3	3891.3	3881.4	3853.5
5°	4242.0	4275.9	4236.0	4192.2	4152.3	4088.6	4080.6	4034.8	3983.0	3923.2
7.5°	4554.8	4584.7	4538.9	4473.1	4403.4	4297.8	4295.8	4212.1	4130.4	4028.8
10°	4827.8	4867.6	4805.9	4716.2	4628.5	4509.0	4495.0	4399.4	4295.8	4164.3
12.5°	5068.9	5096.8	5037.0	4927.4	4825.8	4706.2	4688.3	4582.7	4467.1	4317.7
15°	5260.2	5296.0	5216.3	5098.8	4991.2	4873.6	4857.7	4762.0	4646.5	4489.1
17.5°	5385.7	5415.6	5333.9	5202.4	5098.8	5001.1	4989.2	4909.5	4807.9	4648.5
20°	5433.5	5465.4	5379.7	5246.2	5150.6	5074.9	5068.9	5011.1	4941.4	4795.9
22.5°	5481.3	5511.2	5399.6	5260.2	5176.5	5128.7	5126.7	5088.8	5060.9	4941.4
25°	5674.6	5682.6	5533.1	5331.9	5212.3	5170.5	5168.5	5166.5	5178.5	5084.8
27.5°	5842.0	5840.0	5712.4	5523.2	5337.9	5250.2	5248.2	5268.1	5306.0	5228.3
30°	6087.0	6065.1	5913.7	5716.4	5547.1	5411.6	5399.6	5381.7	5411.6	5349.8
32.5°	6607.1	6537.3	6292.3	5941.6	5720.4	5616.8	5600.9	5489.3	5501.2	5463.4
35°	7352.3	7260.6	6933.8	6368.0	5935.6	5788.2	5780.2	5638.7	5614.8	5580.9
37.5°	8238.9	8125.3	7744.8	6985.6	6306.2	5987.4	5975.5	5847.9	5750.3	5714.4
40°	9129.6	8986.1	8671.3	7738.8	6852.1	6320.2	6282.3	6089.0	5977.4	5917.7
42.5°	9994.3	9874.7	9605.8	8583.6	7525.6	6806.3	6722.6	6391.9	6308.2	6252.4
45°	10759.4	10651.8	10454.6	9486.2	8314.6	7467.8	7386.1	6846.2	6820.3	6820.3
47.5°	11381.1	11357.2	11147.9	10406.7	9245.1	8221.0	8079.5	7477.8	7547.5	7655.1
50°	12070.5	12004.7	11781.6	11313.3	10339.0	9083.7	8968.2	8252.9	8513.9	8808.8
52.5°	12704.1	12739.9	12490.9	12257.8	11574.3	10046.1	9842.9	9167.4	9731.3	10219.4
55°	13355.6	13357.6	13287.9	13256.0	12869.4	11110.1	10886.9	10267.3	11163.9	11769.6
57.5°	13967.3	13971.3	14074.9	14355.8	14371.8	12337.5	12084.4	11618.2	12755.9	13373.5
60°	14513.2	14541.1	14824.1	15481.6	15692.8	13744.1	13505.0	13214.1	14401.7	15023.3
62.5°	14696.6	14798.2	15427.8	16362.3	16997.9	15469.6	15234.5	15061.2	16131.1	16709.0
65°	14385.7	14618.8	15836.3	17089.5	18340.8	17519.9	17286.8	17097.5	17928.4	18472.3
67.5°	13622.6	13923.5	15812.3	17852.6	19970.7	19986.6	19769.4	19325.1	19855.1	20064.3
70°	11612.2	12062.5	14419.6	18137.6	21841.6	23359.9	23150.7	22007.0	21777.8	20765.7
72.5°	7481.8	8087.5	10617.9	15792.4	22258.0	26533.9	26521.9	24427.8	22385.5	19402.8
75°	2729.7	3100.3	4933.4	9912.6	18683.5	26372.5	26450.2	24013.4	20434.9	14987.5
77.5°	994.2	1087.9	1609.9	3809.6	11490.6	21160.2	21321.6	19197.6	14545.1	7521.6
80°	522.0	573.8	824.9	1478.4	4923.4	12566.6	12819.6	11409.0	6836.2	2265.5
82.5°	288.9	312.8	462.3	803.0	2217.6	5373.7	5525.2	4507.0	2404.9	960.4
85°	155.4	165.4	217.2	438.3	1083.9	1863.0	1904.8	1346.9	958.4	563.9
87.5°	45.8	55.8	71.7	139.5	424.4	418.4	428.4	267.0	378.6	284.9
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°
3815.6	0°	3815.6	3815.6	3815.6	3815.6	3815.6	3815.6	3815.6	3815.6	3815.6	3815.6
3845.5	2.5°	3833.5	3827.6	3805.6	3795.7	3783.7	3781.7	3791.7	3793.7	3795.7	3797.7
3889.3	5°	3869.4	3849.5	3829.6	3817.6	3821.6	3823.6	3843.5	3857.4	3867.4	3875.4
3971.0	7.5°	3939.1	3923.2	3889.3	3887.3	3893.3	3911.2	3937.1	3969.0	3987.0	4000.9
4076.6	10°	4042.7	4012.9	3973.0	3979.0	3990.9	4016.8	4070.6	4096.5	4126.4	4152.3
4206.1	12.5°	4148.3	4122.4	4076.6	4080.6	4100.5	4146.4	4198.2	4230.0	4250.0	4269.9
4345.6	15°	4285.8	4240.0	4190.2	4190.2	4226.1	4275.9	4299.8	4325.7	4337.6	4359.6
4495.0	17.5°	4427.3	4367.5	4301.8	4297.8	4341.6	4365.5	4379.5	4383.5	4387.4	4411.4
4640.5	20°	4568.8	4503.0	4409.4	4401.4	4411.4	4407.4	4405.4	4401.4	4407.4	4437.3
4789.9	22.5°	4708.2	4632.5	4503.0	4467.1	4439.3	4401.4	4399.4	4397.4	4401.4	4431.3
4951.3	25°	4871.6	4780.0	4606.6	4499.0	4405.4	4353.6	4359.6	4361.5	4365.5	4389.4
5118.7	27.5°	5049.0	4947.3	4702.3	4489.1	4319.7	4283.8	4273.9	4279.9	4293.8	4331.7
5286.1	30°	5226.3	5106.7	4789.9	4449.2	4212.1	4162.3	4130.4	4144.4	4188.2	4226.1
5431.5	32.5°	5387.7	5268.1	4859.7	4361.5	4074.6	3996.9	3955.1	3973.0	4016.8	4030.8
5592.9	35°	5577.0	5441.5	4889.6	4222.1	3925.2	3805.6	3749.9	3724.0	3745.9	3731.9
5782.2	37.5°	5788.2	5646.7	4885.6	4038.8	3749.9	3612.4	3534.7	3437.0	3391.2	3343.4
6061.1	40°	6101.0	5897.7	4837.7	3817.6	3532.7	3407.1	3267.7	3102.3	2998.7	2905.0
6511.4	42.5°	6527.4	6246.4	4750.1	3574.5	3287.6	3170.0	2980.8	2787.5	2624.1	2468.7
7194.9	45°	7163.0	6702.7	4640.5	3315.5	3022.6	2907.0	2701.8	2484.6	2299.3	2100.1
8165.2	47.5°	8079.5	7316.4	4536.9	3020.6	2743.6	2638.0	2452.7	2251.5	2032.3	1839.1
9567.9	50°	9338.8	8197.1	4441.2	2733.7	2468.7	2389.0	2241.5	2036.3	1815.2	1659.7
11211.7	52.5°	10940.7	9394.6	4401.4	2456.7	2211.7	2181.8	2064.2	1872.9	1663.7	1532.2
13128.5	55°	12779.8	10827.2	4401.4	2191.7	1986.5	1996.5	1914.8	1737.4	1556.1	1438.6
15105.0	57.5°	14656.7	12277.7	4321.7	1946.7	1795.2	1837.1	1785.3	1629.9	1466.5	1344.9
17183.2	60°	16386.2	13493.1	3998.9	1723.5	1625.9	1691.6	1657.7	1524.2	1325.0	1223.4
18920.6	62.5°	17715.2	14178.5	3377.3	1546.2	1486.4	1562.1	1544.2	1384.8	1299.1	1257.3
20347.2	65°	18380.7	14066.9	2582.3	1388.8	1368.8	1486.4	1448.5	1442.6	1374.8	1327.0
20811.5	67.5°	17972.2	13106.6	1872.9	1273.2	1301.1	1416.7	1562.1	1586.0	1460.5	1366.8
19504.4	70°	16181.0	11369.1	1394.7	1163.6	1215.4	1418.6	1781.3	1659.7	1432.6	1323.0
15643.0	72.5°	12309.6	8478.0	1081.9	1048.0	1103.8	1428.6	1878.9	1625.9	1352.9	1462.5
9745.2	75°	7039.4	4654.4	868.7	906.6	964.4	1335.0	1829.1	1538.2	1291.1	1342.9
3861.4	77.5°	2683.9	1789.2	717.3	767.1	775.1	1165.6	1749.4	1532.2	1229.4	1199.5
1157.6	80°	930.5	699.4	593.8	609.7	599.7	1036.1	1677.7	1333.0	1006.2	900.6
478.2	82.5°	380.6	348.7	470.2	450.3	426.4	805.0	1354.9	1089.9	822.9	727.3
231.1	85°	165.4	221.2	310.8	273.0	247.1	557.9	1085.9	922.5	695.4	599.7
75.7	87.5°	33.9	83.7	131.5	123.5	127.5	372.6	771.1	655.5	492.1	368.6
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>
3815.6
3805.6
3879.4
4004.9
4146.4
4277.9
4367.5
4419.3
4449.2
4451.2
4421.3
4369.5
4267.9
4080.6
3775.8
3373.3
2911.0
2454.7
2076.2
1817.1
1649.8
1522.3
1426.6
1325.0
1207.4
1243.3
1311.1
1350.9
1305.1
1450.5
1342.9
1093.9
870.7
719.3
597.7
288.9
0.0

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