

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: P944642

Luminaire Tested: **GALN-SB9C-940-U-SL4**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P944642  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB9C-940-U-SL4  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 90 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

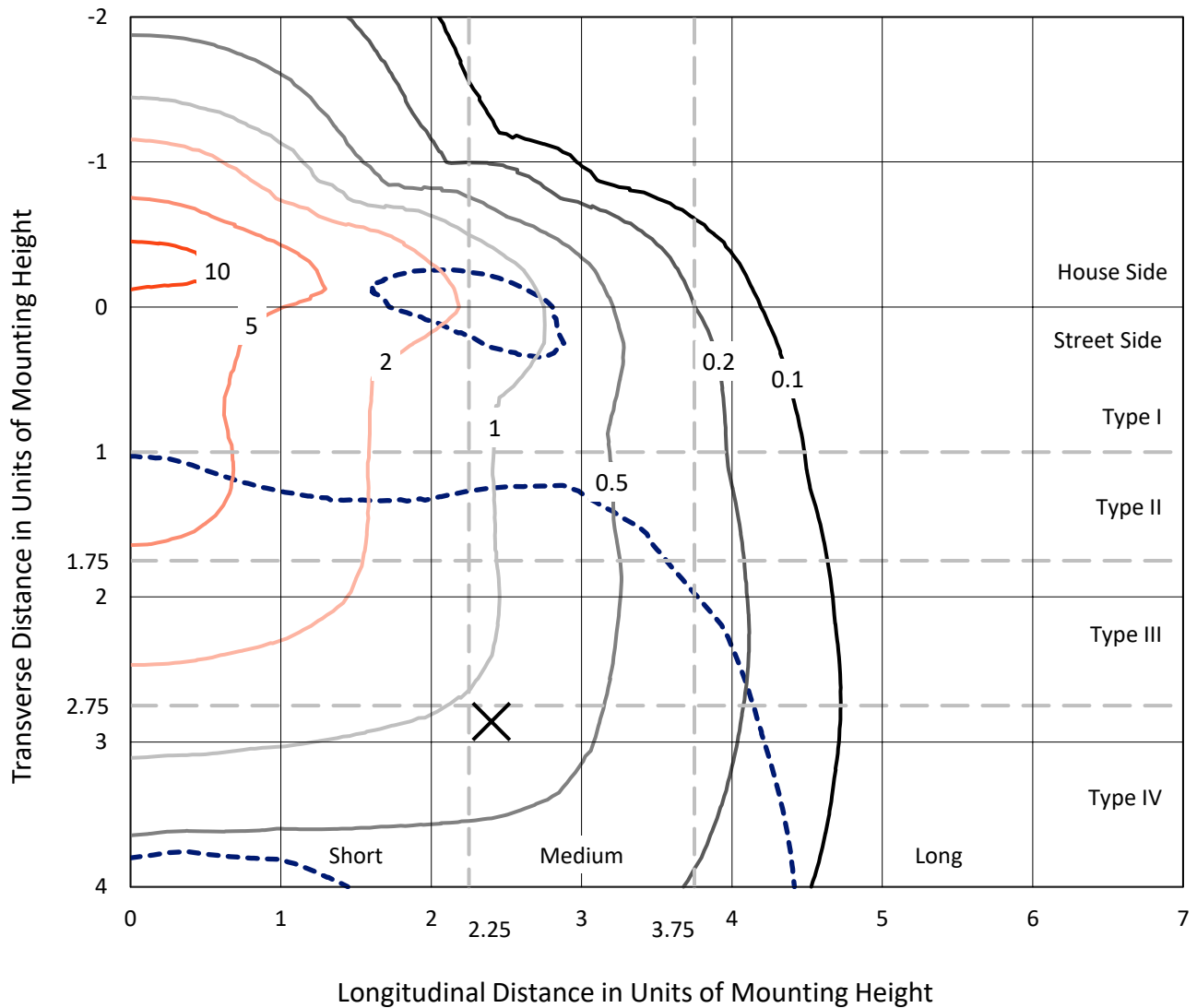
Lumens per Lamp: N/A  
Luminaire Lumens: 48998 lumens  
Efficiency: N/A  
Efficacy: 108.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 449.8  
Input Voltage (V): NR  
Input Current (Ain): 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

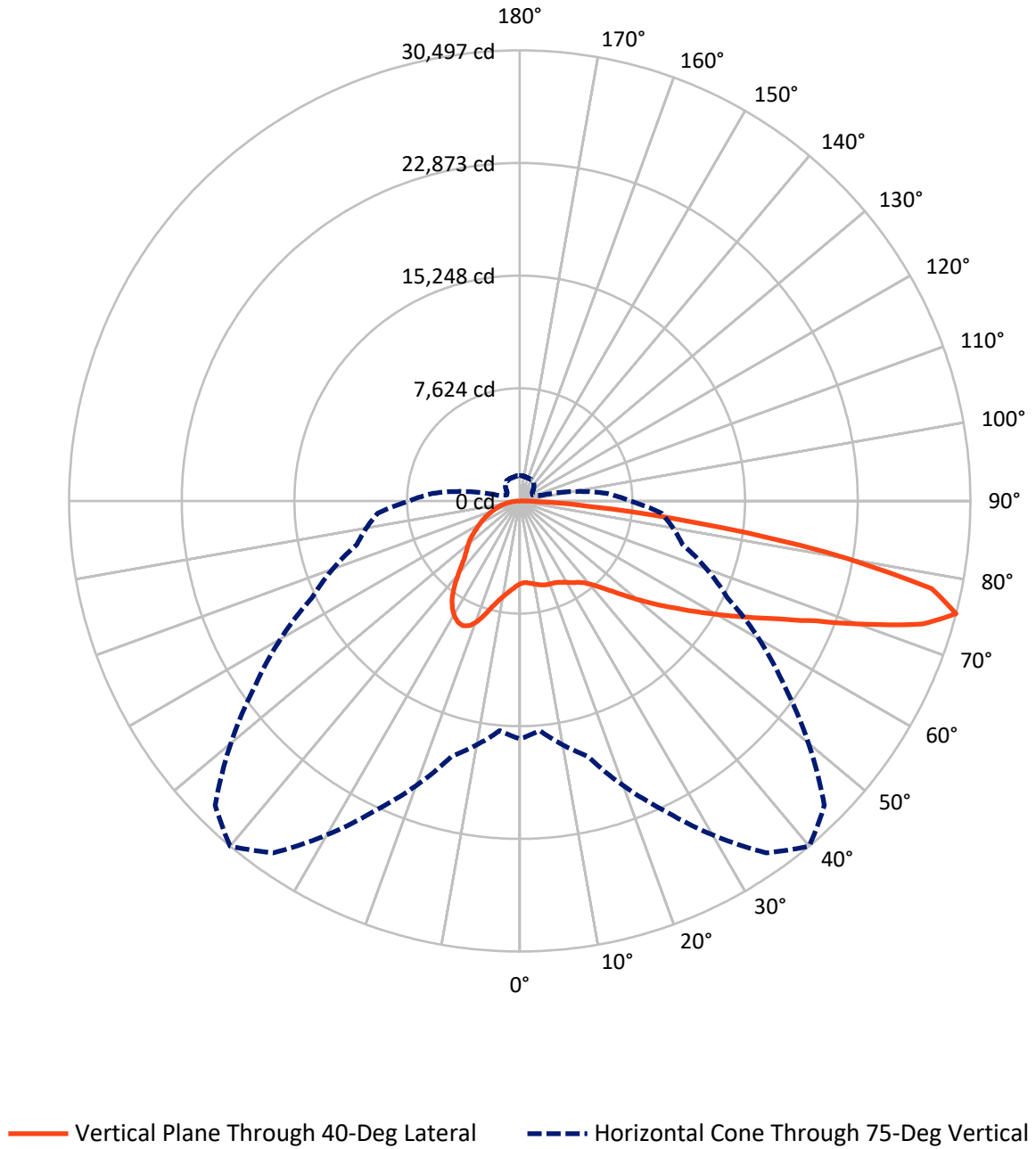
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	15181.2	0.0	15181.2
	% Fixture	31.0	0.0	31.0
<b>Street Side</b>	Lumens	33816.8	0.0	33816.8
	% Fixture	69.0	0.0	69.0
<b>Total</b>	Lumens	48998.0	0.0	48998.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	559.3	1.1
10°-20°	1877.8	3.8
20°-30°	3428.7	7.0
30°-40°	4862.8	9.9
40°-50°	6566.2	13.4
50°-60°	8833.3	18.0
60°-70°	11211.5	22.9
70°-80°	10175.2	20.8
80°-90°	1483.2	3.0
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°	48998.0	100.0
0°-180°	48998.0	100.0



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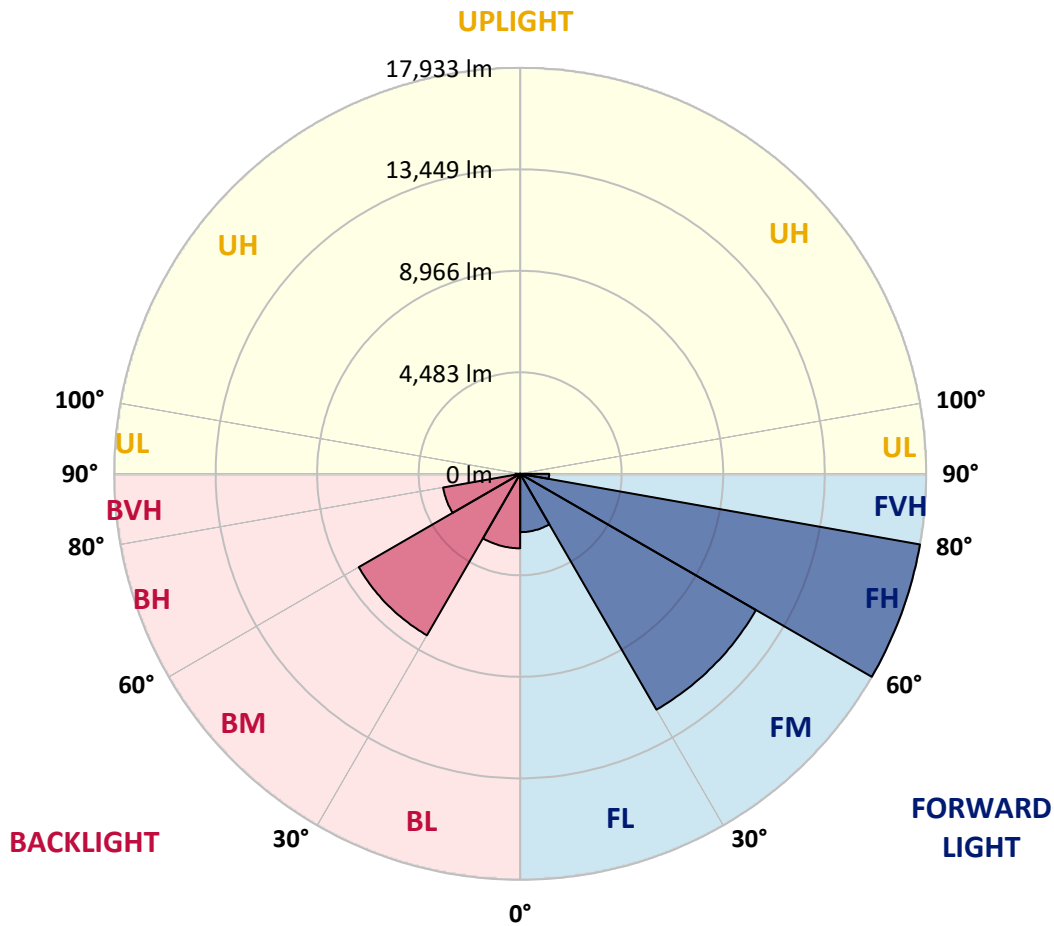
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2577.3	5.3			
FM (30°-60°)	12027.9	24.5			
FH (60°-80°)	17932.5	36.6			G5
FVH (80°-90°)	1279.0	2.6			G5
BL (0°-30°)	3288.4	6.7	B4/5000		
BM (30°-60°)	8234.4	16.8	B4/8500		
BH (60°-80°)	3454.2	7.0	B4/5000		G4/5000
BVH (80°-90°)	204.2	0.4			G2/225
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 Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	5603.0	5603.0	5603.0	5603.0	5603.0	5603.0	5603.0	5603.0	5603.0	5603.0
2.5°	5517.2	5548.4	5540.6	5530.2	5530.2	5532.8	5530.2	5548.4	5566.6	5584.8
5°	5574.4	5605.6	5590.0	5577.0	5566.6	5564.0	5556.2	5553.6	5564.0	5587.4
7.5°	5686.1	5717.3	5693.9	5670.6	5649.8	5639.4	5629.0	5613.4	5605.6	5618.6
10°	5810.9	5842.1	5813.5	5771.9	5738.1	5725.1	5714.7	5699.1	5688.7	5696.5
12.5°	5935.6	5966.8	5927.8	5870.7	5826.5	5818.7	5805.7	5800.5	5797.9	5795.3
15°	6052.6	6078.6	6029.2	5961.6	5914.8	5901.8	5888.9	5896.6	5909.6	5925.2
17.5°	6143.5	6169.5	6096.8	6008.4	5964.2	5959.0	5951.2	5977.2	6013.6	6052.6
20°	6226.7	6252.7	6159.1	6039.6	5987.6	5987.6	5990.2	6044.8	6096.8	6153.9
22.5°	6343.6	6364.4	6250.1	6086.4	6011.0	6016.2	6037.0	6091.6	6156.5	6234.5
25°	6517.8	6533.4	6393.0	6174.7	6089.0	6104.6	6122.7	6148.7	6211.1	6302.1
27.5°	6798.4	6811.4	6626.9	6330.6	6200.7	6226.7	6252.7	6234.5	6263.1	6341.0
30°	7193.4	7201.2	6967.4	6574.9	6390.4	6403.4	6408.6	6333.2	6278.7	6341.0
32.5°	7661.2	7658.6	7380.6	6871.2	6606.1	6593.1	6548.9	6400.8	6273.5	6328.0
35°	8386.3	8357.7	7999.1	7287.0	6850.4	6769.8	6665.9	6476.2	6299.5	6315.1
37.5°	9586.9	9498.6	9002.2	7967.9	7214.2	7008.9	6855.6	6598.3	6356.6	6309.9
40°	10940.9	10829.1	10283.4	8900.8	7760.0	7429.9	7183.0	6772.4	6450.2	6333.2
42.5°	12546.9	12388.4	11801.1	10000.1	8451.3	7973.1	7601.5	6993.3	6587.9	6408.6
45°	14519.4	14308.9	13477.3	11239.8	9321.9	8685.1	8188.8	7328.6	6798.4	6554.1
47.5°	16512.7	16564.7	15382.2	12658.7	10366.6	9563.5	8924.2	7832.7	7105.1	6788.0
50°	18630.7	18667.1	17276.7	14231.0	11551.6	10556.3	9750.7	8396.7	7531.3	7120.7
52.5°	20283.5	20288.7	18997.1	15876.0	12786.0	11647.8	10642.0	9041.2	8025.1	7562.5
55°	21317.9	21304.9	20203.0	17432.7	14205.0	12793.8	11629.6	9774.0	8628.0	8082.2
57.5°	22068.9	22029.9	21034.6	18771.0	15717.5	14147.8	12747.1	10605.7	9340.0	8700.7
60°	22354.8	22331.4	21598.5	19927.5	17307.9	15644.7	14036.1	11536.0	10148.3	9431.0
62.5°	22463.9	22508.1	22152.1	21047.6	19010.1	17302.7	15452.4	12648.3	11057.8	10257.4
65°	22848.5	22929.1	22856.3	22513.3	20933.2	19244.0	17331.3	13971.1	12050.6	11143.6
67.5°	23610.0	23690.5	23721.7	24267.5	23282.5	21663.5	19675.4	15618.7	13212.2	12063.6
70°	23591.8	23568.4	24119.3	25663.0	26224.4	25013.3	22835.5	17645.8	14597.4	12827.6
72.5°	21473.8	21286.7	22588.7	25647.4	28672.4	28511.3	26694.7	20260.2	15792.8	12921.2
75°	16109.9	15610.9	17910.8	23113.6	29080.4	30496.8	29148.0	21881.8	15509.6	11416.5
77.5°	6889.4	6387.8	9098.4	17110.4	26026.9	28508.7	26897.5	19090.7	12380.6	7549.5
80°	1803.6	1801.0	2749.5	7757.4	17700.3	21052.8	18469.6	12328.6	7073.9	2697.5
82.5°	745.9	727.7	1010.9	3017.2	8648.8	11814.1	9641.5	5499.0	2554.6	730.3
85°	278.1	275.5	491.2	1042.1	3051.0	4872.7	3526.6	1405.9	636.7	356.0
87.5°	78.0	75.4	106.6	361.2	743.3	1127.9	602.9	231.3	179.3	140.3
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°
5603.0	0°	5603.0	5603.0	5603.0	5603.0	5603.0	5603.0	5603.0	5603.0	5603.0	5603.0
5613.4	2.5°	5621.2	5634.2	5657.6	5675.8	5699.1	5725.1	5761.5	5784.9	5808.3	5823.9
5626.4	5°	5644.6	5673.2	5732.9	5792.7	5862.9	5927.8	6003.2	6057.8	6102.0	6114.9
5673.2	7.5°	5696.5	5743.3	5844.7	5946.0	6057.8	6164.3	6273.5	6367.0	6442.4	6471.0
5756.3	10°	5787.5	5849.9	5992.8	6135.7	6283.9	6447.6	6587.9	6723.1	6829.6	6873.8
5855.1	12.5°	5901.8	5979.8	6166.9	6364.4	6569.7	6795.8	6977.7	7144.1	7276.6	7336.4
5992.8	15°	6050.0	6151.3	6390.4	6655.5	6957.0	7271.4	7502.7	7687.2	7835.3	7908.1
6135.7	17.5°	6211.1	6346.2	6647.7	7047.9	7479.3	7892.5	8162.8	8297.9	8451.3	8521.4
6268.3	20°	6367.0	6533.4	6964.8	7546.9	8121.2	8560.4	8778.7	8815.1	8825.5	8833.3
6393.0	22.5°	6528.2	6751.7	7362.4	8175.8	8791.7	9095.8	9126.9	8971.0	8752.7	8651.4
6515.2	25°	6704.9	7001.1	7882.1	8869.7	9368.6	9405.0	9165.9	8786.5	8373.3	8183.6
6613.9	27.5°	6876.4	7289.6	8505.8	9532.4	9784.4	9464.8	8950.2	8412.3	7913.3	7713.2
6684.1	30°	7047.9	7619.6	9194.5	10111.9	9974.1	9316.7	8609.8	8009.5	7507.9	7297.4
6746.5	32.5°	7222.0	8004.3	9987.1	10530.3	9940.4	9002.2	8186.2	7557.3	7115.5	6894.6
6801.0	35°	7419.5	8477.2	10738.2	10759.0	9714.3	8539.6	7627.4	7016.7	6632.1	6455.4
6866.0	37.5°	7676.8	9077.6	11400.9	10816.2	9319.3	7861.3	6933.6	6377.4	6060.4	5979.8
6962.2	40°	7996.5	9800.0	11907.6	10725.2	8734.5	7037.5	6174.7	5730.3	5551.0	5569.2
7092.1	42.5°	8412.3	10608.3	12263.7	10491.3	7921.1	6187.7	5509.4	5311.9	5397.7	5470.4
7287.0	45°	8952.8	11447.7	12484.6	10093.7	7001.1	5467.8	5117.0	5163.8	5228.8	5236.6
7601.5	47.5°	9644.1	12297.5	12630.1	9493.4	6063.0	4961.1	4867.5	4877.9	4864.9	4810.4
8071.8	50°	10506.9	13123.9	12760.0	8698.1	5265.1	4644.0	4519.3	4482.9	4303.6	4126.9
8698.1	52.5°	11489.2	13882.7	12814.6	7710.6	4644.0	4379.0	4176.3	3947.6	3612.3	3557.7
9485.6	55°	12580.7	14584.4	12674.3	6497.0	4121.7	4038.5	3731.9	3456.4	3420.0	3373.2
10522.5	57.5°	13885.3	15340.6	12388.4	5143.0	3586.3	3640.9	3342.0	3373.2	3308.3	3235.5
11855.7	60°	15312.1	16122.9	11886.9	3908.6	3032.8	3144.5	3240.7	3238.1	3219.9	3160.1
13261.6	62.5°	16595.9	16637.4	10899.3	2993.8	2546.8	2759.9	3022.4	3019.8	3004.2	2970.4
14729.9	65°	17359.9	16559.5	9251.7	2357.1	2146.6	2442.9	2726.1	2746.9	2749.5	2746.9
15834.4	67.5°	17224.8	15647.3	6990.7	1876.3	1816.6	2120.6	2432.5	2461.1	2481.8	2487.0
15974.7	70°	15696.7	13643.6	4558.3	1496.9	1522.9	1837.3	2154.4	2183.0	2201.2	2222.0
13861.9	72.5°	12235.1	10031.3	2609.2	1211.0	1265.6	1593.1	1878.9	1912.7	1923.1	1962.1
9646.7	75°	7455.9	5899.2	1408.5	953.8	1039.5	1361.8	1606.1	1645.0	1663.2	1710.0
4737.6	77.5°	3544.7	2554.6	803.0	743.3	836.8	1112.3	1356.6	1400.7	1351.4	1377.4
1307.2	80°	1198.0	948.6	506.8	566.5	639.3	868.0	1086.3	1130.5	1026.5	1021.3
434.0	82.5°	418.4	384.6	322.2	376.8	413.2	621.1	821.2	878.4	764.0	761.4
194.9	85°	163.7	155.9	179.3	205.3	246.9	382.0	540.5	569.1	470.4	379.4
57.2	87.5°	33.8	36.4	44.2	46.8	75.4	132.5	194.9	239.1	189.7	161.1
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>
5603.0
5813.5
6120.1
6473.6
6876.4
7336.4
7902.9
8518.8
8854.1
8680.0
8212.2
7736.6
7320.8
6923.2
6494.4
6037.0
5631.6
5538.0
5288.5
4851.9
4150.3
3575.9
3381.0
3222.5
3139.3
2957.4
2746.9
2492.2
2232.4
1977.7
1715.2
1356.6
1010.9
725.1
374.2
148.1
0.0

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