

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: P954447

Luminaire Tested: **GALN-SB7C-940-U-T4W**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P954447  
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-SB7C-940-U-T4W  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 90 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

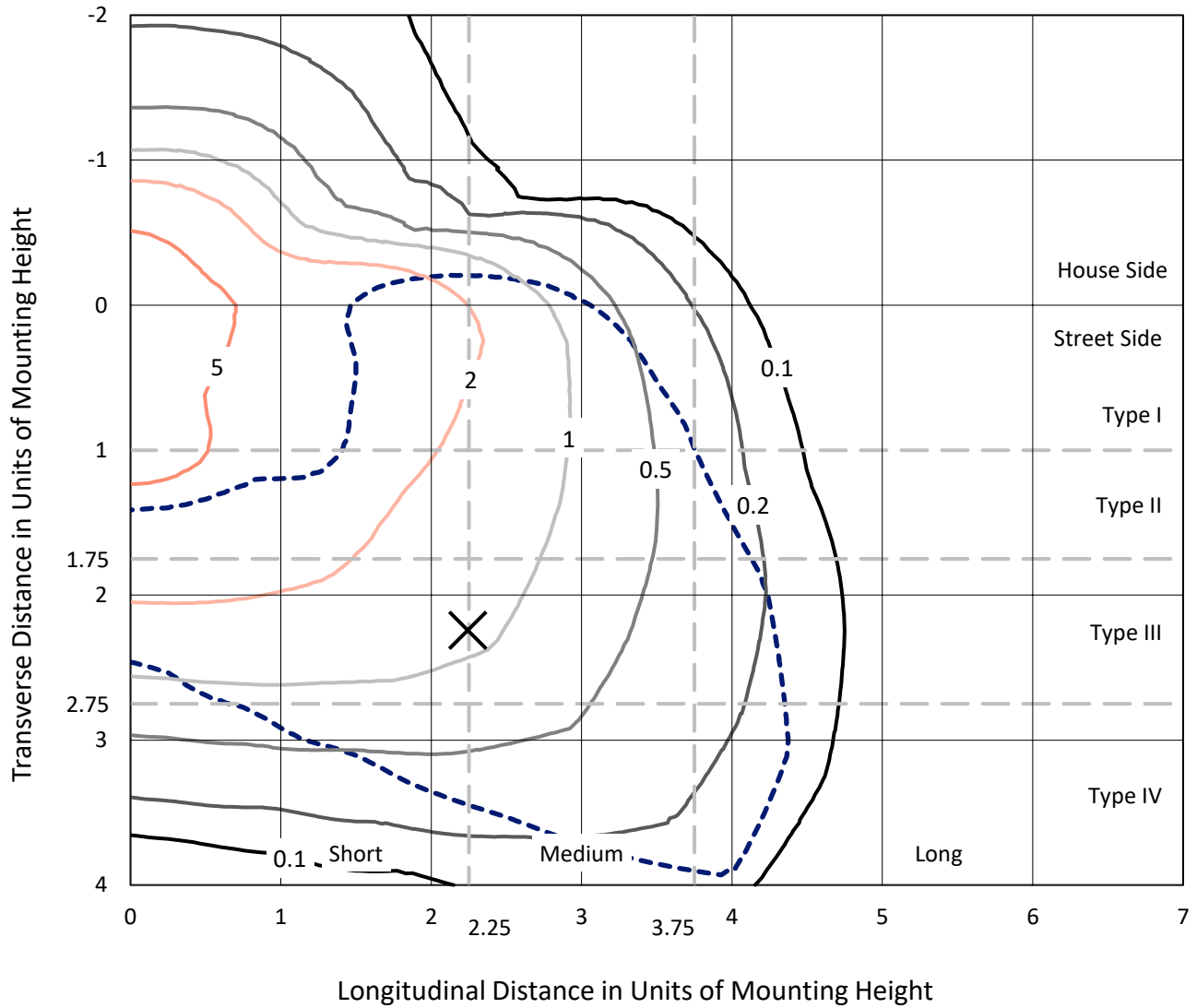
Lumens per Lamp: N/A  
Luminaire Lumens: 38519 lumens  
Efficiency: N/A  
Efficacy: 109.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 350.5  
Input Voltage (V): NR  
Input Current (Ain): 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

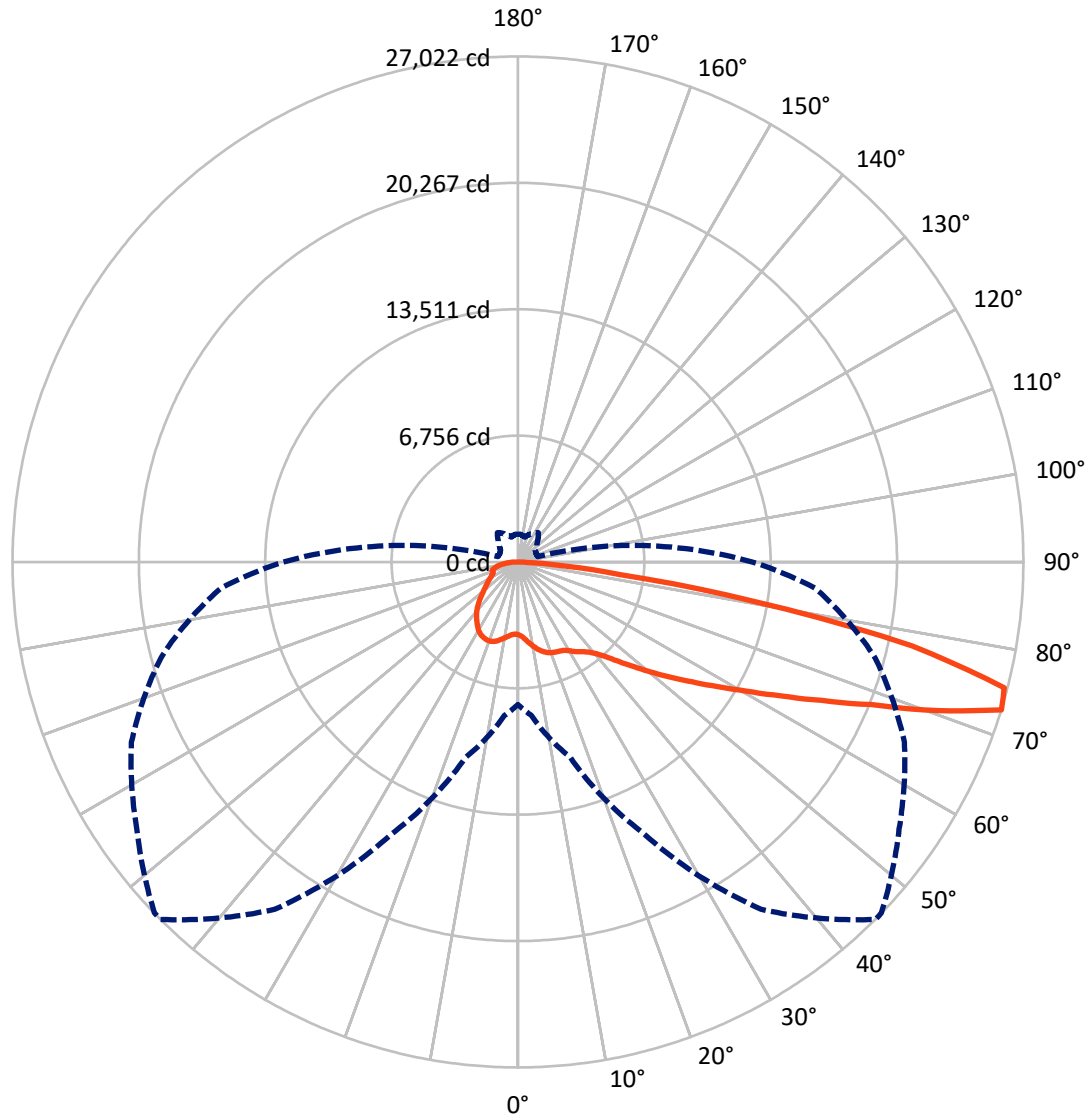
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 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	8707.8	0.0	8707.8
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	29811.2	0.0	29811.2
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	38519.0	0.0	38519.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	395.5	1.0
10°-20°	1318.6	3.4
20°-30°	2293.9	6.0
30°-40°	3288.4	8.5
40°-50°	4630.2	12.0
50°-60°	7092.1	18.4
60°-70°	10274.0	26.7
70°-80°	8204.4	21.3
80°-90°	1021.8	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°	38519.0	100.0
0°-180°	38519.0	100.0

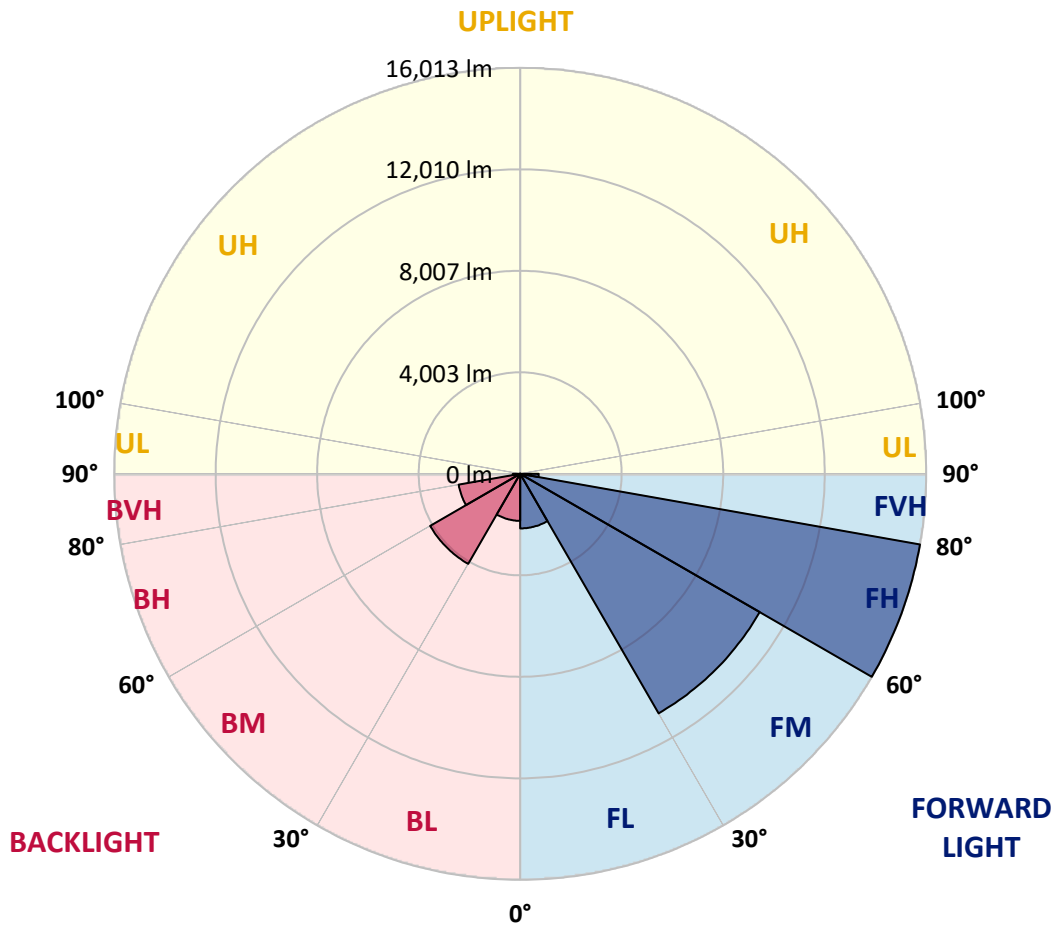


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2154.0	5.6			
FM (30°-60°)	10910.6	28.3			
FH (60°-80°)	16013.5	41.6			G5
FVH (80°-90°)	733.1	1.9			G4/750
BL (0°-30°)	1854.0	4.8	B3/2500		
BM (30°-60°)	4100.2	10.6	B3/5000		
BH (60°-80°)	2465.0	6.4	B3/2500		G3/2500
BVH (80°-90°)	288.8	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°	3885.8	3885.8	3885.8	3885.8	3885.8	3885.8	3885.8	3885.8	3885.8	3885.8
2.5°	4038.0	4064.4	4040.0	4017.7	4007.6	3981.2	3979.2	3962.9	3952.8	3924.4
5°	4320.1	4354.6	4314.0	4269.3	4228.7	4163.8	4155.7	4109.0	4056.3	3995.4
7.5°	4638.6	4669.1	4622.4	4555.4	4484.4	4376.9	4374.8	4289.6	4206.4	4102.9
10°	4916.6	4957.2	4894.3	4803.0	4713.7	4592.0	4577.8	4480.4	4374.8	4240.9
12.5°	5162.2	5190.6	5129.7	5018.1	4914.6	4792.8	4774.6	4667.0	4549.3	4397.2
15°	5356.9	5393.5	5312.3	5192.6	5083.0	4963.3	4947.1	4849.7	4732.0	4571.7
17.5°	5484.8	5515.2	5432.0	5298.1	5192.6	5093.2	5081.0	4999.8	4896.3	4734.0
20°	5533.5	5566.0	5478.7	5342.7	5245.3	5168.2	5162.2	5103.3	5032.3	4884.2
22.5°	5582.2	5612.6	5499.0	5356.9	5271.7	5223.0	5221.0	5182.4	5154.0	5032.3
25°	5779.0	5787.1	5634.9	5430.0	5308.2	5265.6	5263.6	5261.6	5273.8	5178.4
27.5°	5949.5	5947.4	5817.6	5624.8	5436.1	5346.8	5344.8	5365.1	5403.6	5324.5
30°	6199.0	6176.7	6022.5	5821.6	5649.1	5511.2	5499.0	5480.7	5511.2	5448.3
32.5°	6728.7	6657.6	6408.0	6050.9	5825.7	5720.2	5703.9	5590.3	5602.5	5563.9
35°	7487.6	7394.2	7061.4	6485.2	6044.8	5894.7	5886.6	5742.5	5718.1	5683.6
37.5°	8390.5	8274.9	7887.3	7114.2	6422.3	6097.6	6085.4	5955.5	5856.1	5819.6
40°	9297.6	9151.5	8830.8	7881.2	6978.2	6436.5	6397.9	6201.1	6087.4	6026.6
42.5°	10178.2	10056.5	9782.5	8741.6	7664.1	6931.6	6846.3	6509.5	6424.3	6367.5
45°	10957.4	10847.8	10646.9	9660.8	8467.6	7605.2	7522.0	6972.2	6945.8	6945.8
47.5°	11590.5	11566.1	11353.1	10598.2	9415.2	8372.3	8228.2	7615.4	7686.4	7796.0
50°	12292.6	12225.6	11998.3	11521.5	10529.2	9250.9	9133.2	8404.7	8670.5	8970.9
52.5°	12937.8	12974.4	12720.7	12483.3	11787.3	10231.0	10024.0	9336.1	9910.4	10407.5
55°	13601.4	13603.4	13532.4	13499.9	13106.3	11314.5	11087.3	10456.2	11369.3	11986.2
57.5°	14224.3	14228.4	14333.9	14620.0	14636.2	12564.5	12306.8	11832.0	12990.6	13619.6
60°	14780.3	14808.7	15096.9	15766.5	15981.6	13997.1	13753.6	13457.3	14666.7	15299.8
62.5°	14967.0	15070.5	15711.7	16663.4	17310.7	15754.3	15514.9	15338.3	16428.0	17016.4
65°	14650.4	14887.9	16127.7	17404.0	18678.3	17842.3	17604.9	17412.1	18258.3	18812.2
67.5°	13873.3	14179.7	16103.3	18181.2	20338.1	20354.4	20133.2	19680.7	20220.5	20433.5
70°	11825.9	12284.5	14684.9	18471.3	22243.5	23789.7	23576.7	22411.9	22178.6	21147.8
72.5°	7619.4	8236.3	10813.3	16083.0	22667.6	27022.2	27010.0	24877.3	22797.5	19759.8
75°	2779.9	3157.4	5024.2	10095.0	19027.3	26857.8	26936.9	24455.3	20810.9	15263.2
77.5°	1012.5	1107.9	1639.6	3879.7	11702.1	21549.5	21713.9	19550.8	14812.8	7660.0
80°	531.6	584.4	840.1	1505.6	5014.0	12797.8	13055.5	11618.9	6962.0	2307.1
82.5°	294.2	318.6	470.8	817.7	2258.4	5472.6	5626.8	4589.9	2449.2	978.0
85°	158.3	168.4	221.2	446.4	1103.9	1897.3	1939.9	1371.7	976.0	574.2
87.5°	46.7	56.8	73.0	142.0	432.2	426.1	436.3	271.9	385.5	290.2
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°
3885.8	0°	3885.8	3885.8	3885.8	3885.8	3885.8	3885.8	3885.8	3885.8	3885.8	3885.8
3916.3	2.5°	3904.1	3898.0	3875.7	3865.5	3853.4	3851.3	3861.5	3863.5	3865.5	3867.6
3960.9	5°	3940.6	3920.3	3900.0	3887.8	3891.9	3893.9	3914.2	3928.4	3938.6	3946.7
4044.1	7.5°	4011.6	3995.4	3960.9	3958.9	3965.0	3983.2	4009.6	4042.1	4060.3	4074.5
4151.6	10°	4117.1	4086.7	4046.1	4052.2	4064.4	4090.8	4145.5	4171.9	4202.4	4228.7
4283.5	12.5°	4224.7	4198.3	4151.6	4155.7	4176.0	4222.7	4275.4	4307.9	4328.2	4348.5
4425.6	15°	4364.7	4318.0	4267.3	4267.3	4303.8	4354.6	4378.9	4405.3	4417.5	4439.8
4577.8	17.5°	4508.8	4447.9	4380.9	4376.9	4421.5	4445.9	4460.1	4464.1	4468.2	4492.5
4725.9	20°	4652.8	4585.9	4490.5	4482.4	4492.5	4488.5	4486.4	4482.4	4488.5	4518.9
4878.1	22.5°	4794.9	4717.8	4585.9	4549.3	4520.9	4482.4	4480.4	4478.3	4482.4	4512.8
5042.4	25°	4961.3	4867.9	4691.4	4581.8	4486.4	4433.7	4439.8	4441.8	4445.9	4470.2
5212.9	27.5°	5141.9	5038.4	4788.8	4571.7	4399.2	4362.7	4352.5	4358.6	4372.8	4411.4
5383.3	30°	5322.5	5200.7	4878.1	4531.1	4289.6	4238.9	4206.4	4220.6	4265.3	4303.8
5531.5	32.5°	5486.8	5365.1	4949.1	4441.8	4149.6	4070.5	4027.9	4046.1	4090.8	4105.0
5695.8	35°	5679.6	5541.6	4979.5	4299.8	3997.4	3875.7	3818.9	3792.5	3814.8	3800.6
5888.6	37.5°	5894.7	5750.6	4975.5	4113.1	3818.9	3678.8	3599.7	3500.3	3453.6	3404.9
6172.7	40°	6213.2	6006.3	4926.8	3887.8	3597.7	3469.8	3327.8	3159.4	3053.9	2958.5
6631.3	42.5°	6647.5	6361.4	4837.5	3640.3	3348.1	3228.4	3035.6	2838.8	2672.4	2514.1
7327.3	45°	7294.8	6826.1	4725.9	3376.5	3078.2	2960.5	2751.5	2530.3	2341.6	2138.7
8315.4	47.5°	8228.2	7451.0	4620.4	3076.2	2794.1	2686.6	2497.9	2292.9	2069.7	1872.9
9744.0	50°	9510.6	8347.9	4523.0	2784.0	2514.1	2432.9	2282.8	2073.8	1848.6	1690.3
11418.0	52.5°	11142.0	9567.4	4482.4	2501.9	2252.4	2221.9	2102.2	1907.4	1694.3	1560.4
13370.1	55°	13015.0	11026.4	4482.4	2232.1	2023.1	2033.2	1950.0	1769.4	1584.8	1465.0
15383.0	57.5°	14926.4	12503.6	4401.2	1982.5	1828.3	1870.9	1818.1	1659.8	1493.5	1369.7
17499.4	60°	16687.7	13741.4	4072.5	1755.2	1655.8	1722.7	1688.3	1552.3	1349.4	1245.9
19268.8	62.5°	18041.2	14439.4	3439.4	1574.6	1513.7	1590.9	1572.6	1410.3	1323.0	1280.4
20721.7	65°	18718.9	14325.8	2629.8	1414.3	1394.0	1513.7	1475.2	1469.1	1400.1	1351.4
21194.4	67.5°	18302.9	13347.7	1907.4	1296.6	1325.0	1442.7	1590.9	1615.2	1487.4	1392.0
19863.3	70°	16478.7	11578.3	1420.4	1185.0	1237.8	1444.8	1814.1	1690.3	1459.0	1347.4
15930.8	72.5°	12536.1	8634.0	1101.8	1067.3	1124.1	1454.9	1913.5	1655.8	1377.8	1489.4
9924.6	75°	7169.0	4740.1	884.7	923.3	982.1	1359.5	1862.8	1566.5	1314.9	1367.6
3932.5	77.5°	2733.3	1822.2	730.5	781.2	789.3	1187.1	1781.6	1560.4	1252.0	1221.5
1178.9	80°	947.6	712.2	604.7	620.9	610.8	1055.2	1708.5	1357.5	1024.7	917.2
487.0	82.5°	387.6	355.1	478.9	458.6	434.2	819.8	1379.8	1109.9	838.0	740.6
235.4	85°	168.4	225.2	316.5	278.0	251.6	568.2	1105.9	939.5	708.2	610.8
77.1	87.5°	34.5	85.2	133.9	125.8	129.9	379.5	785.3	667.6	501.2	375.4
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>
3885.8
3875.7
3950.8
4078.6
4222.7
4356.6
4447.9
4500.6
4531.1
4533.1
4502.7
4449.9
4346.4
4155.7
3845.2
3435.3
2964.6
2499.9
2114.4
1850.6
1680.1
1550.3
1452.9
1349.4
1229.7
1266.2
1335.2
1375.8
1329.1
1477.2
1367.6
1114.0
886.7
732.5
608.7
294.2
0.0

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