

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: P950056

Luminaire Tested: **GALN-SB4C-840-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950056
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-SB4C-840-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29473 lumens
Efficiency: N/A
Efficacy: 146.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

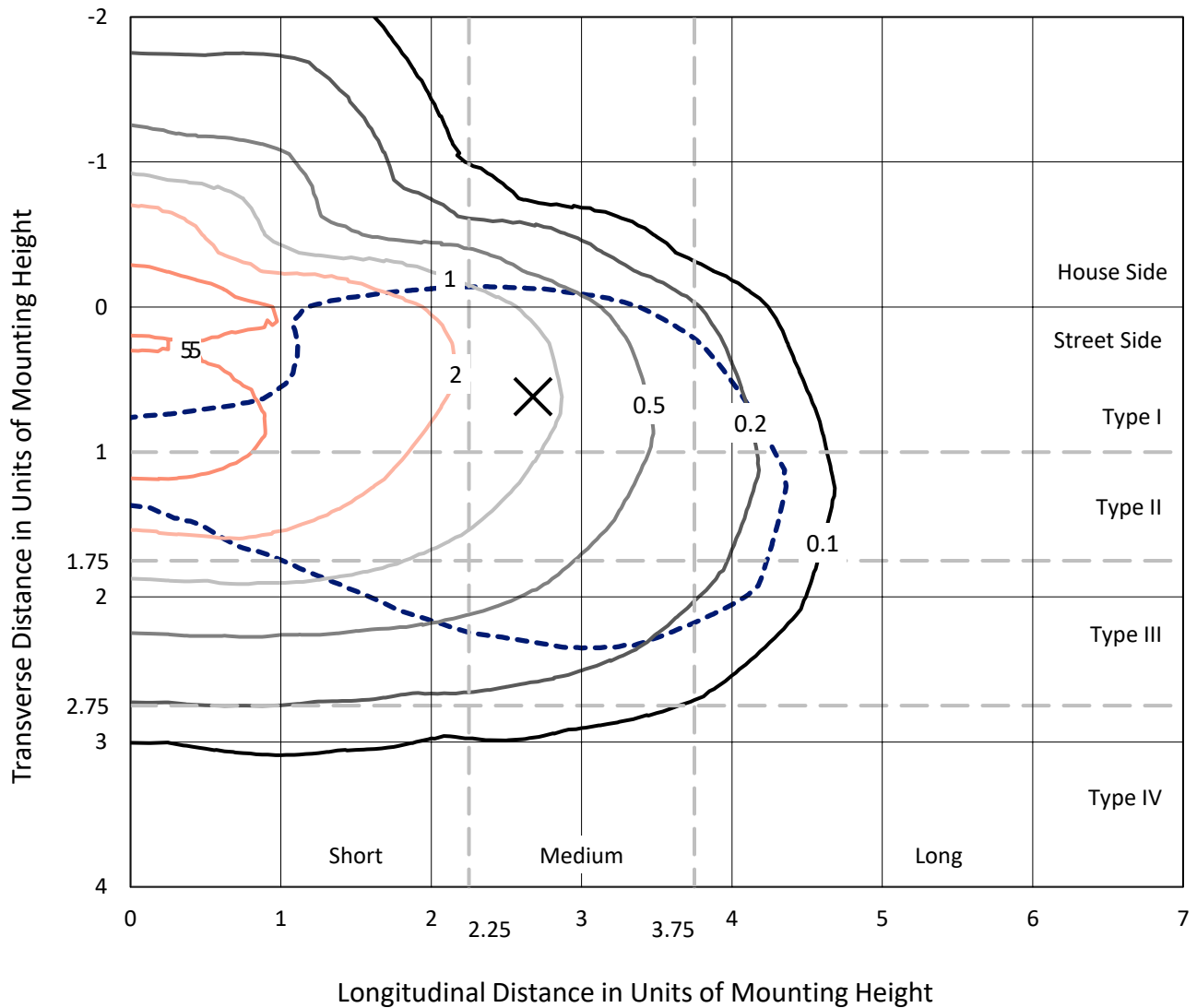
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

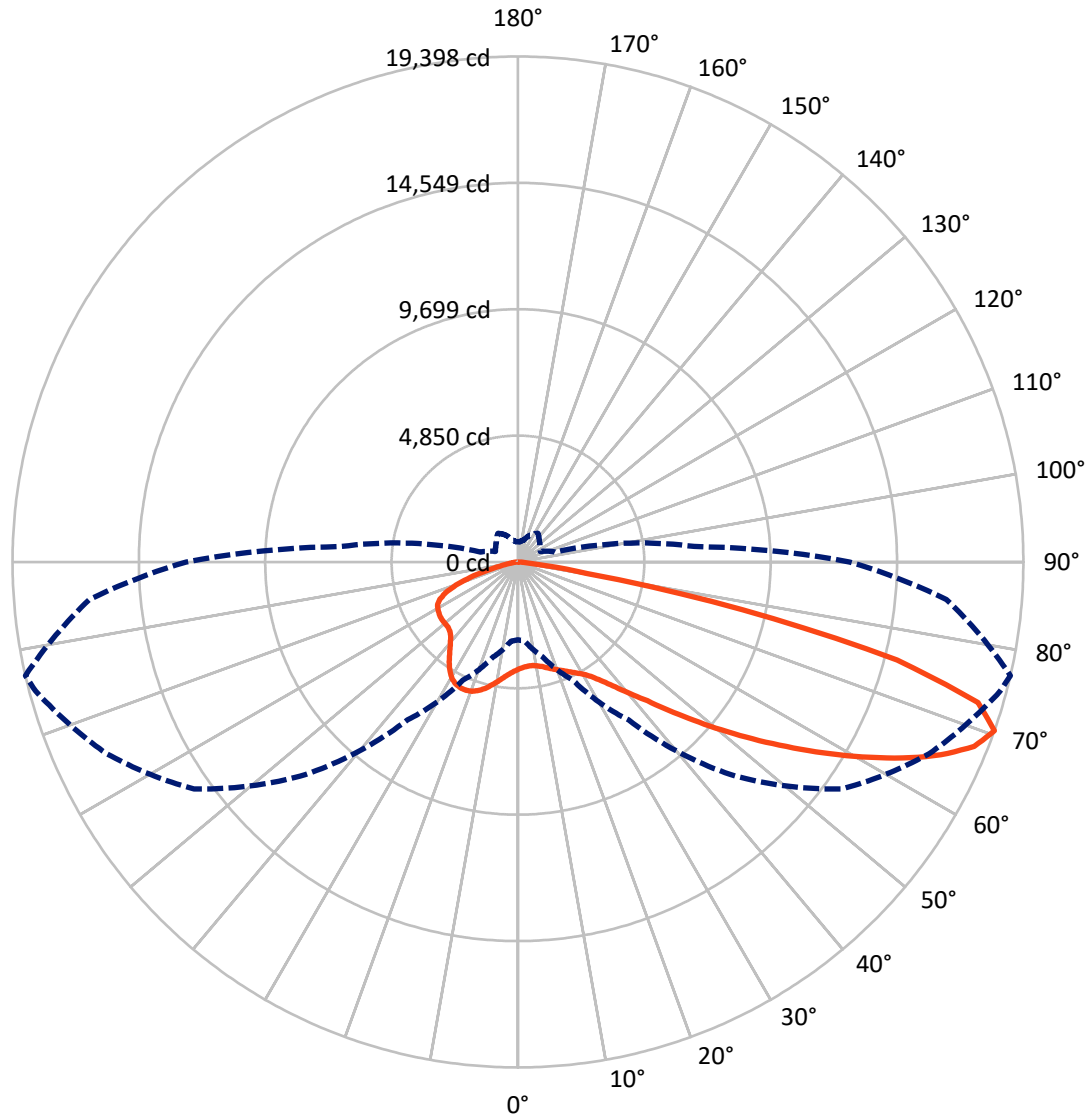
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 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	6454.1	0.0	6454.1
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	23018.9	0.0	23018.9
	% Fixture	78.1	0.0	78.1
Total	Lumens	29473.0	0.0	29473.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	392.1	1.3
10°-20°	1131.8	3.8
20°-30°	1935.5	6.6
30°-40°	3112.5	10.6
40°-50°	4859.4	16.5
50°-60°	6491.0	22.0
60°-70°	6918.4	23.5
70°-80°	4258.9	14.5
80°-90°	373.2	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°	29473.0	100.0
0°-180°	29473.0	100.0



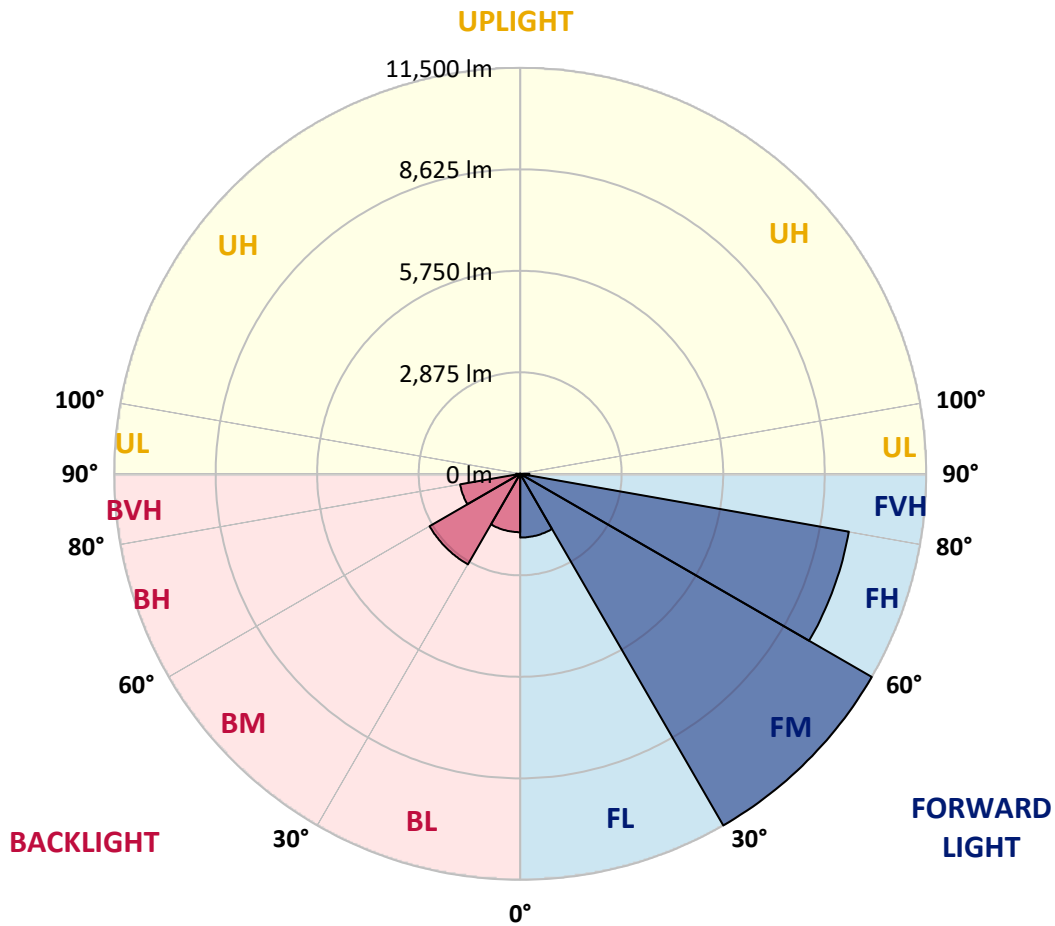
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1805.7	6.1			
FM (30°-60°)	11499.7	39.0			
FH (60°-80°)	9452.5	32.1			G4/12000
FVH (80°-90°)	261.0	0.9			G3/500
BL (0°-30°)	1653.8	5.6	B3/2500		
BM (30°-60°)	2963.2	10.1	B3/5000		
BH (60°-80°)	1724.9	5.9	B3/2500		G3/2500
BVH (80°-90°)	112.2	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	4111.8	4111.8	4111.8	4111.8	4111.8	4111.8	4111.8	4111.8	4111.8	4111.8
2.5°	3790.2	3788.7	3808.4	3814.4	3850.6	3876.3	3924.6	3975.9	4042.3	4049.9
5°	3571.4	3571.4	3594.0	3618.2	3665.0	3716.3	3790.2	3879.3	3994.0	4012.1
7.5°	3385.7	3397.8	3417.4	3464.2	3518.5	3592.5	3705.7	3832.5	3983.4	4012.1
10°	3236.3	3249.9	3274.0	3311.7	3393.3	3495.9	3643.8	3806.8	4009.1	4054.4
12.5°	3189.5	3203.1	3216.6	3245.3	3320.8	3441.6	3618.2	3818.9	4071.0	4116.3
15°	3298.2	3314.8	3304.2	3296.6	3335.9	3446.1	3630.2	3862.7	4148.0	4212.9
17.5°	3548.7	3554.8	3530.6	3459.7	3453.6	3512.5	3687.6	3923.1	4244.6	4315.5
20°	3953.3	3942.7	3892.9	3752.5	3672.5	3660.4	3785.7	4013.6	4344.2	4419.7
22.5°	4502.7	4490.6	4391.0	4169.1	3991.0	3873.3	3927.6	4131.4	4455.9	4540.4
25°	5188.0	5171.4	5025.0	4723.1	4446.9	4155.5	4120.8	4286.8	4593.3	4671.8
27.5°	5988.0	5974.4	5815.9	5417.4	5018.9	4541.9	4360.8	4469.5	4736.7	4825.7
30°	6848.4	6887.6	6606.9	6178.2	5674.0	5046.1	4683.8	4694.4	4922.3	5002.3
32.5°	7859.7	7927.7	7589.5	7046.1	6357.8	5594.0	5091.4	5008.4	5192.5	5258.9
35°	8862.0	8939.0	8658.2	8057.5	7265.0	6240.1	5517.1	5369.1	5551.8	5624.2
37.5°	9728.4	9831.1	9686.2	9163.9	8235.6	7019.0	6072.5	5793.3	5994.0	6084.6
40°	10412.2	10569.2	10558.6	10232.6	9379.7	7963.9	6777.4	6317.1	6543.5	6641.6
42.5°	10967.7	11103.5	11221.3	11204.7	10573.7	9037.1	7606.1	6997.8	7169.9	7283.1
45°	11351.1	11496.0	11749.6	12022.8	11722.4	10185.8	8555.6	7805.4	7962.4	8132.9
47.5°	11693.7	11858.3	12187.3	12620.5	12697.5	11339.0	9595.6	8745.8	8889.2	9065.8
50°	11723.9	11865.8	12376.0	12990.4	13390.4	12447.0	10712.6	9800.9	9935.2	10123.9
52.5°	10994.9	11218.3	12108.8	12979.8	13708.9	13373.8	11822.0	10898.3	11049.2	11275.6
55°	8534.5	8862.0	11325.4	12575.3	13595.7	13973.0	12877.2	12065.1	12258.3	12495.3
57.5°	7351.0	7494.4	8990.3	11838.6	13079.4	14128.5	13767.7	13243.9	13554.9	13814.5
60°	6606.9	6726.1	7610.7	10693.0	12400.2	13882.4	14456.0	14342.8	14880.2	15189.6
62.5°	5809.9	5923.1	6727.6	8928.4	11530.7	13473.4	14890.8	15357.2	16238.7	16576.8
65°	5018.9	5115.5	5886.9	7502.0	10425.8	13064.3	15115.7	16234.2	17496.1	17846.3
67.5°	4137.4	4217.4	4946.5	6329.1	9082.4	12504.3	15227.4	16924.0	18590.4	18890.8
70°	2985.7	3047.6	3800.8	5005.3	7396.3	11541.3	15182.1	17413.1	19158.0	19398.0
72.5°	1411.3	1467.2	2351.7	3249.9	5224.2	9666.5	14265.8	17025.1	18581.4	18462.1
75°	753.2	801.5	1351.0	1782.7	2759.3	6626.5	11674.1	14665.9	15603.2	15023.6
77.5°	510.2	547.9	836.2	1070.2	1260.4	3145.7	7503.5	10154.1	9769.2	8812.2
80°	404.5	443.8	685.3	724.5	609.8	1136.6	3100.4	4700.4	3376.6	2700.4
82.5°	310.9	354.7	576.6	525.3	332.1	466.4	902.7	1486.8	864.9	658.1
85°	190.2	237.0	452.8	335.1	187.2	212.8	306.4	413.6	264.2	220.4
87.5°	96.6	135.9	229.4	122.3	84.5	49.8	81.5	81.5	69.4	60.4
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°
4111.8	0°	4111.8	4111.8	4111.8	4111.8	4111.8	4111.8	4111.8	4111.8	4111.8	4111.8
4090.6	2.5°	4126.8	4157.0	4208.4	4256.7	4294.4	4330.6	4366.9	4386.5	4392.5	4416.7
4113.3	5°	4175.1	4231.0	4330.6	4424.2	4483.1	4519.3	4545.0	4560.1	4563.1	4570.6
4175.1	7.5°	4264.2	4353.3	4492.1	4585.7	4629.5	4626.5	4615.9	4578.2	4563.1	4549.5
4265.7	10°	4389.5	4507.2	4677.8	4742.7	4715.5	4643.1	4549.5	4439.3	4388.0	4338.2
4389.5	12.5°	4545.0	4694.4	4862.0	4858.9	4724.6	4538.9	4321.6	4152.5	4045.3	3968.4
4541.9	15°	4733.6	4905.7	5034.0	4931.4	4637.0	4303.5	3985.0	3764.6	3668.0	3583.4
4695.9	17.5°	4928.4	5112.5	5171.4	4908.7	4416.7	3954.8	3594.0	3420.4	3325.3	3280.0
4862.0	20°	5118.6	5301.2	5252.9	4778.9	4081.6	3559.3	3237.8	3142.7	3123.1	3133.6
5023.5	22.5°	5319.3	5482.3	5269.5	4528.4	3654.4	3154.8	2978.2	2981.2	3024.9	3056.6
5192.5	25°	5524.6	5634.8	5225.7	4166.1	3195.5	2857.4	2813.6	2861.9	2948.0	3009.9
5382.7	27.5°	5722.3	5770.6	5130.6	3717.8	2801.5	2644.6	2652.1	2751.7	2881.5	2967.6
5613.7	30°	5945.7	5891.4	4948.0	3213.6	2528.3	2461.9	2525.3	2641.5	2771.4	2848.3
5905.0	32.5°	6197.8	5995.6	4658.2	2747.2	2335.1	2315.5	2419.7	2495.1	2552.5	2575.1
6291.4	35°	6511.8	6142.0	4286.8	2419.7	2161.5	2208.3	2308.0	2270.2	2247.6	2235.5
6810.7	37.5°	6919.3	6339.7	3852.1	2206.8	2021.2	2131.3	2172.1	2054.4	1965.3	1921.5
7440.1	40°	7409.9	6629.5	3434.0	2042.3	1932.1	2064.9	1994.0	1852.1	1738.9	1677.0
8148.0	42.5°	7954.8	6932.9	3082.3	1918.5	1882.3	2010.6	1862.7	1693.6	1511.0	1491.3
8991.8	45°	8526.9	7245.4	2842.3	1823.4	1858.1	1963.8	1787.2	1514.0	1384.2	1464.2
9838.6	47.5°	9099.0	7532.2	2697.4	1752.5	1846.1	1911.0	1720.8	1414.4	1322.3	1438.5
10745.8	50°	9736.0	7788.8	2632.5	1701.2	1832.5	1889.8	1621.2	1388.7	1257.4	1334.4
11684.7	52.5°	10368.4	7988.0	2584.2	1649.8	1812.9	1873.2	1572.9	1358.5	1178.9	1183.4
12629.6	55°	10999.4	8117.8	2531.4	1581.9	1769.1	1837.0	1568.3	1325.3	1120.0	1098.9
13628.9	57.5°	11672.6	8191.8	2466.4	1506.4	1693.6	1744.9	1563.8	1299.6	1101.9	1067.2
14650.8	60°	12357.9	8300.5	2381.9	1414.4	1592.5	1634.7	1553.2	1290.6	1091.3	1032.5
15613.8	62.5°	12972.2	8338.2	2280.8	1326.8	1462.7	1526.1	1530.6	1283.0	1062.7	961.5
16413.8	65°	13375.3	8175.2	2104.2	1227.2	1322.3	1414.4	1486.8	1257.4	1011.3	910.2
16809.3	67.5°	13358.7	7710.3	1827.9	1098.9	1186.4	1290.6	1423.4	1213.6	949.4	846.8
16510.4	70°	12736.8	6792.5	1477.8	949.4	1037.0	1157.8	1341.9	1148.7	875.5	777.4
14680.9	72.5°	10923.9	5316.3	1073.2	774.3	863.4	1020.4	1236.2	1070.2	800.0	715.5
10850.0	75°	7803.9	3364.6	727.6	594.7	671.7	864.9	1104.9	978.1	730.6	718.5
5434.0	77.5°	3986.5	1607.6	481.5	434.7	467.9	682.3	928.3	874.0	741.1	593.2
1545.7	80°	1296.6	593.2	303.4	295.9	310.9	454.3	718.5	717.0	561.5	403.0
374.3	82.5°	413.6	255.1	197.7	190.2	182.6	285.3	501.1	567.6	378.9	255.1
134.3	85°	164.5	152.5	116.2	107.2	77.0	134.3	262.6	377.4	282.3	184.2
34.7	87.5°	60.4	60.4	31.7	22.6	16.6	45.3	70.9	113.2	161.5	95.1
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>
4111.8
4430.2
4582.7
4552.5
4323.1
3950.2
3574.4
3293.6
3129.1
3064.2
3026.5
2988.7
2866.5
2587.2
2247.6
1932.1
1681.5
1511.0
1506.4
1492.8
1391.7
1215.1
1114.0
1071.7
1037.0
961.5
910.2
851.3
786.4
711.0
677.7
528.3
356.2
253.6
188.7
93.6
0.0

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