

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: P951589

Luminaire Tested: **GALN-SB5C-940-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951589
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-SB5C-940-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 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: 28143 lumens
Efficiency: N/A
Efficacy: 112.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

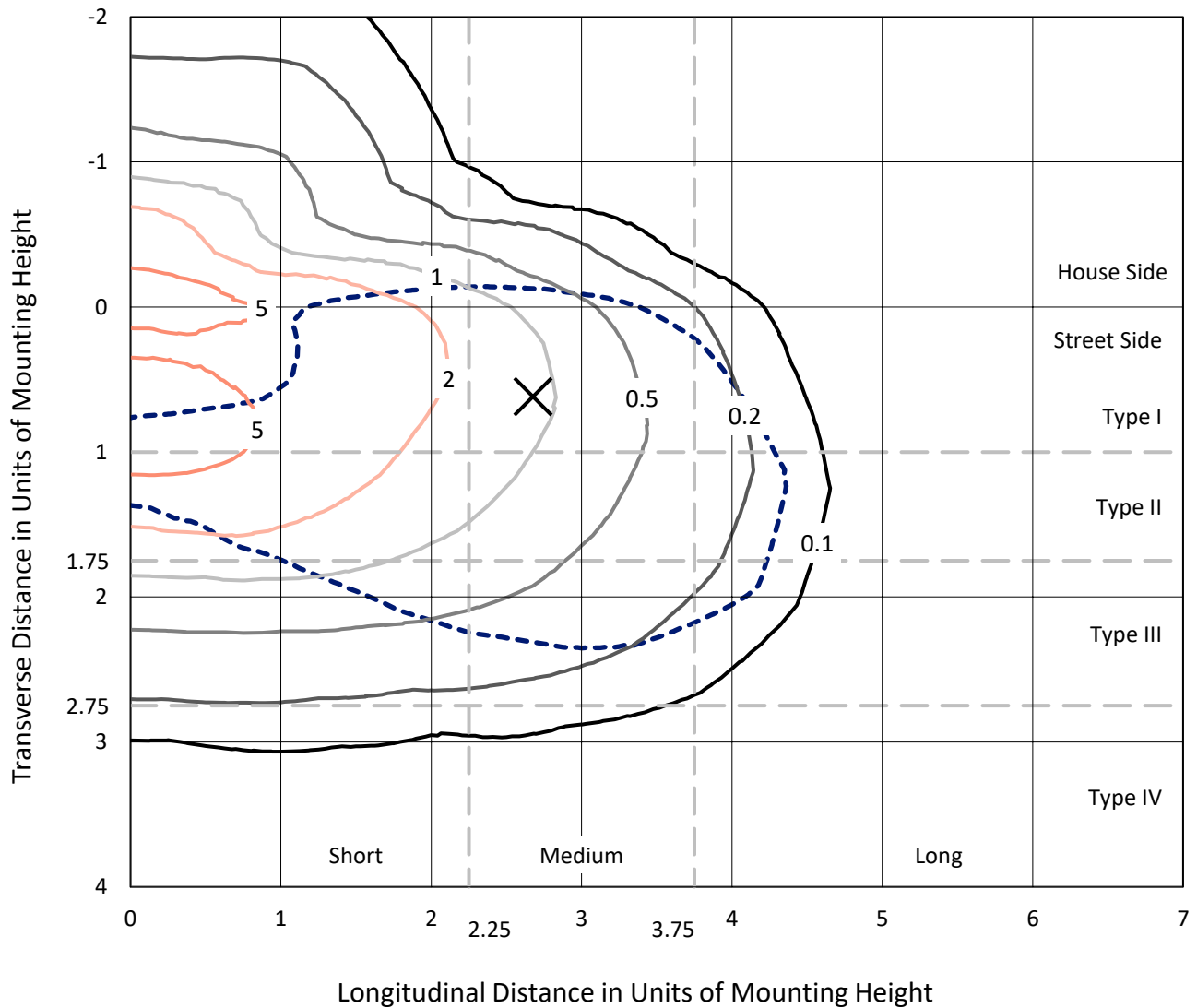
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

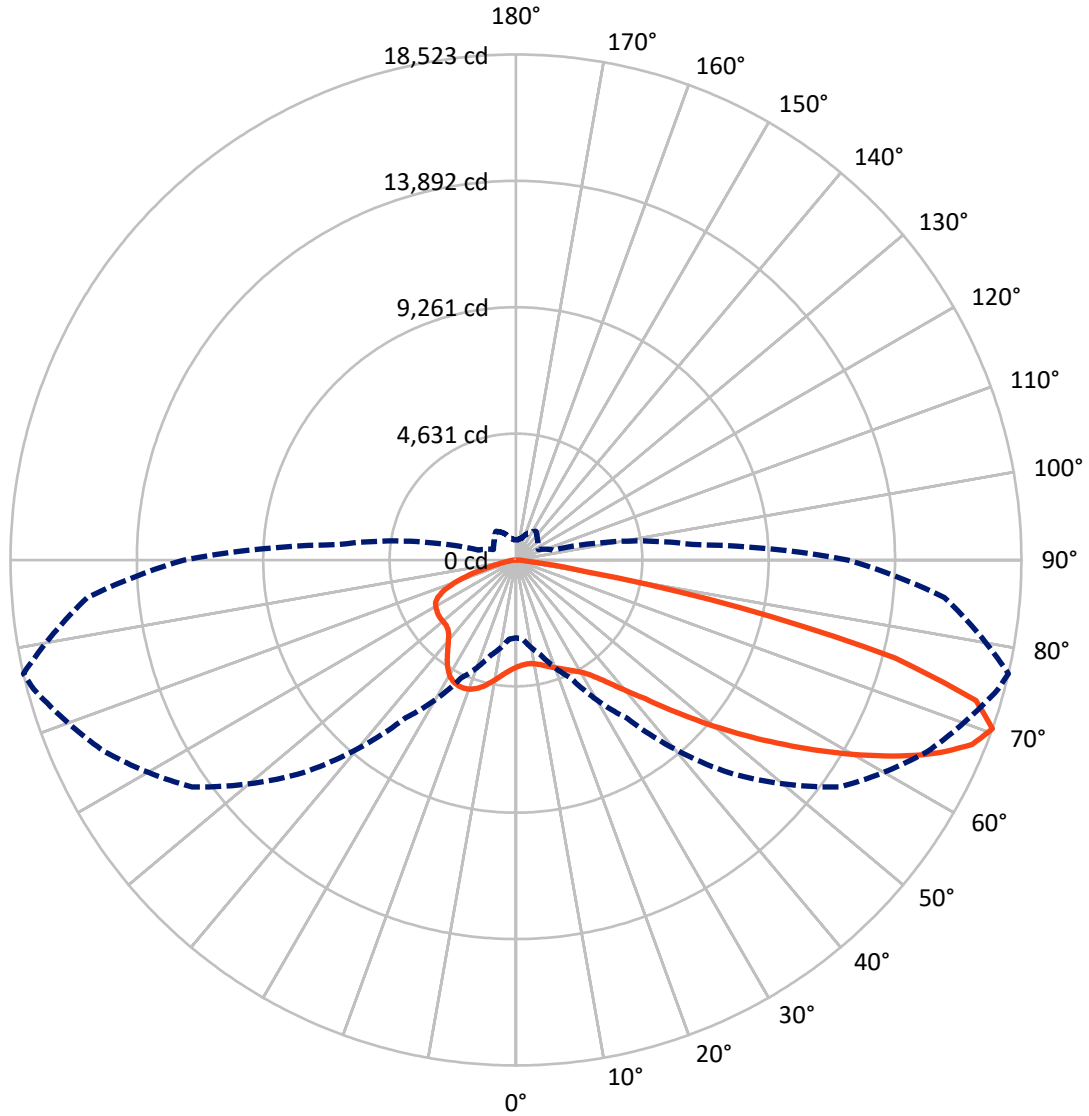
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 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	6162.9	0.0	6162.9
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	21980.1	0.0	21980.1
	% Fixture	78.1	0.0	78.1
Total	Lumens	28143.0	0.0	28143.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	374.5	1.3
10°-20°	1080.7	3.8
20°-30°	1848.2	6.6
30°-40°	2972.0	10.6
40°-50°	4640.1	16.5
50°-60°	6198.1	22.0
60°-70°	6606.2	23.5
70°-80°	4066.8	14.5
80°-90°	356.4	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°	28143.0	100.0
0°-180°	28143.0	100.0



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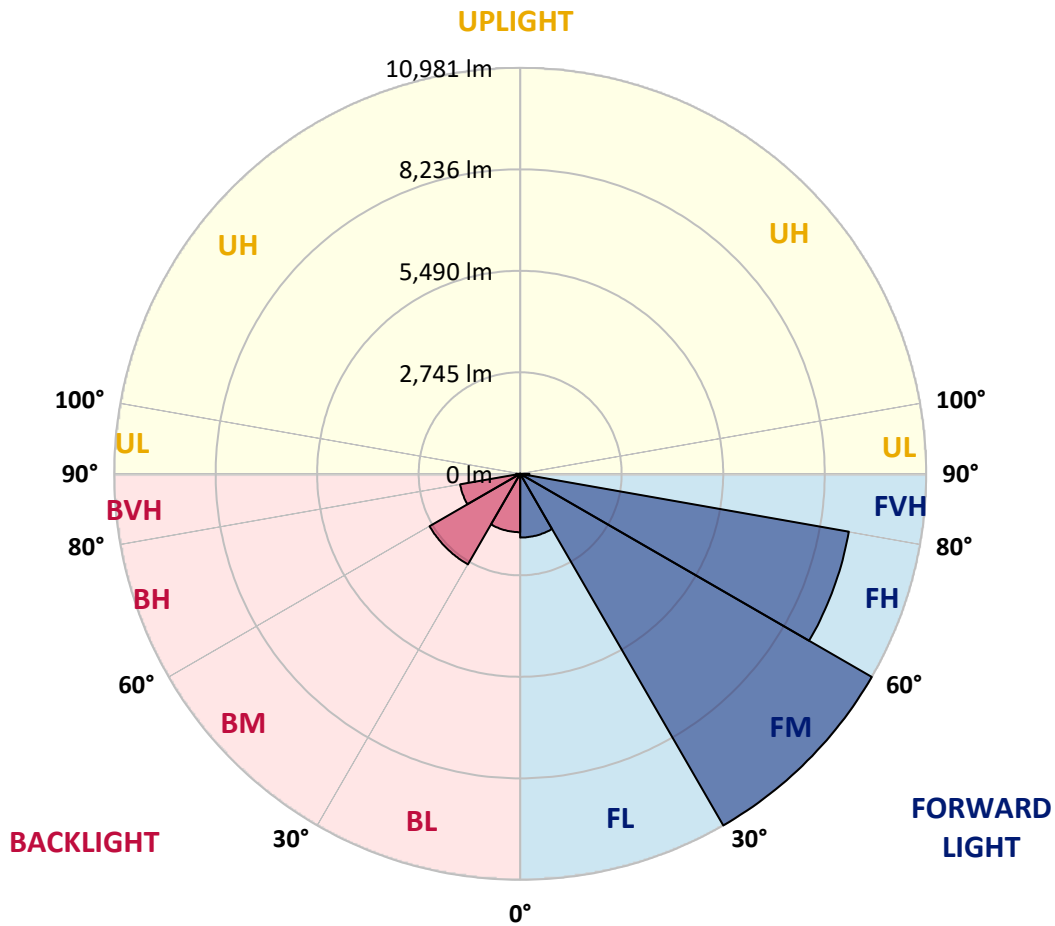
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1724.2	6.1			
FM (30°-60°)	10980.8	39.0			
FH (60°-80°)	9025.9	32.1			G4/12000
FVH (80°-90°)	249.2	0.9			G3/500
BL (0°-30°)	1579.1	5.6	B3/2500		
BM (30°-60°)	2829.5	10.1	B3/5000		
BH (60°-80°)	1647.1	5.9	B3/2500		G3/2500
BVH (80°-90°)	107.2	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°	3926.2	3926.2	3926.2	3926.2	3926.2	3926.2	3926.2	3926.2	3926.2	3926.2
2.5°	3619.2	3617.8	3636.5	3642.3	3676.9	3701.4	3747.5	3796.5	3859.9	3867.1
5°	3410.2	3410.2	3431.8	3454.9	3499.6	3548.6	3619.2	3704.2	3813.8	3831.1
7.5°	3232.9	3244.5	3263.2	3307.9	3359.8	3430.4	3538.5	3659.6	3803.7	3831.1
10°	3090.2	3103.2	3126.3	3162.3	3240.1	3338.1	3479.4	3635.1	3828.2	3871.4
12.5°	3045.5	3058.5	3071.5	3098.9	3170.9	3286.3	3454.9	3646.6	3887.3	3930.5
15°	3149.3	3165.2	3155.1	3147.9	3185.4	3290.6	3466.4	3688.4	3960.8	4022.8
17.5°	3388.6	3394.4	3371.3	3303.5	3297.8	3354.0	3521.2	3746.0	4053.0	4120.8
20°	3774.9	3764.8	3717.2	3583.2	3506.8	3495.2	3614.9	3832.5	4148.2	4220.2
22.5°	4299.5	4288.0	4192.9	3981.0	3810.9	3698.5	3750.4	3944.9	4254.8	4335.5
25°	4953.9	4938.0	4798.2	4509.9	4246.2	3968.0	3934.9	4093.4	4386.0	4460.9
27.5°	5717.8	5704.8	5553.5	5173.0	4792.4	4337.0	4164.0	4267.8	4522.9	4608.0
30°	6539.4	6576.8	6308.7	5899.4	5418.0	4818.4	4472.5	4482.6	4700.2	4776.6
32.5°	7505.0	7569.9	7247.0	6728.2	6070.9	5341.6	4861.6	4782.4	4958.2	5021.6
35°	8462.1	8535.6	8267.5	7693.9	6937.2	5958.5	5268.1	5126.8	5301.2	5370.4
37.5°	9289.4	9387.4	9249.1	8750.4	7863.9	6702.2	5798.5	5531.9	5723.6	5810.0
40°	9942.4	10092.3	10082.2	9770.8	8956.5	7604.5	6471.6	6032.0	6248.2	6341.9
42.5°	10472.8	10602.5	10714.9	10699.1	10096.6	8629.3	7262.9	6682.0	6846.4	6954.5
45°	10838.9	10977.2	11219.4	11480.3	11193.4	9726.2	8169.5	7453.2	7603.1	7765.9
47.5°	11166.0	11323.2	11637.4	12051.0	12124.5	10827.3	9162.6	8351.1	8488.0	8656.7
50°	11194.9	11330.4	11817.5	12404.2	12786.1	11885.3	10229.2	9358.6	9486.9	9667.1
52.5°	10498.7	10712.0	11562.4	12394.1	13090.2	12770.3	11288.6	10406.5	10550.6	10766.8
55°	8149.3	8462.1	10814.4	12007.8	12982.1	13342.5	12296.1	11520.6	11705.1	11931.4
57.5°	7019.3	7156.2	8584.6	11304.4	12489.2	13490.9	13146.4	12646.3	12943.2	13191.1
60°	6308.7	6422.6	7267.2	10210.4	11840.6	13256.0	13803.7	13695.6	14208.7	14504.2
62.5°	5547.7	5655.8	6424.0	8525.5	11010.4	12865.4	14218.8	14664.2	15505.9	15828.8
65°	4792.4	4884.7	5621.2	7163.5	9955.3	12474.8	14433.6	15501.6	16706.6	17040.9
67.5°	3950.7	4027.1	4723.3	6043.5	8672.5	11940.0	14540.2	16160.3	17751.5	18038.3
70°	2851.0	2910.1	3629.3	4779.5	7062.6	11020.5	14497.0	16627.3	18293.5	18522.6
72.5°	1347.7	1401.0	2245.6	3103.2	4988.5	9230.3	13622.1	16256.9	17742.9	17629.0
75°	719.2	765.4	1290.0	1702.2	2634.8	6327.5	11147.3	14004.0	14899.1	14345.6
77.5°	487.2	523.2	798.5	1021.9	1203.5	3003.7	7164.9	9695.9	9328.3	8414.5
80°	386.3	423.8	654.4	691.8	582.3	1085.3	2960.5	4488.3	3224.3	2578.6
82.5°	296.9	338.7	550.6	501.6	317.1	445.4	861.9	1419.7	825.9	628.4
85°	181.6	226.3	432.4	320.0	178.7	203.2	292.6	394.9	252.2	210.4
87.5°	92.2	129.7	219.1	116.7	80.7	47.6	77.8	77.8	66.3	57.7
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°
3926.2	0°	3926.2	3926.2	3926.2	3926.2	3926.2	3926.2	3926.2	3926.2	3926.2	3926.2
3906.0	2.5°	3940.6	3969.4	4018.5	4064.6	4100.6	4135.2	4169.8	4188.5	4194.3	4217.4
3927.6	5°	3986.7	4040.1	4135.2	4224.6	4280.8	4315.4	4339.9	4354.3	4357.2	4364.4
3986.7	7.5°	4071.8	4156.8	4289.4	4378.8	4420.6	4417.7	4407.6	4371.6	4357.2	4344.2
4073.2	10°	4191.4	4303.8	4466.7	4528.7	4502.7	4433.6	4344.2	4239.0	4190.0	4142.4
4191.4	12.5°	4339.9	4482.6	4642.6	4639.7	4511.4	4334.1	4126.6	3965.1	3862.8	3789.3
4337.0	15°	4520.0	4684.3	4806.9	4708.9	4427.8	4109.3	3805.1	3594.7	3502.5	3421.7
4484.0	17.5°	4706.0	4881.8	4938.0	4687.2	4217.4	3776.3	3431.8	3266.1	3175.3	3132.0
4642.6	20°	4887.6	5062.0	5015.9	4563.3	3897.4	3398.7	3091.7	3000.9	2982.1	2992.2
4796.8	22.5°	5079.3	5234.9	5031.7	4324.0	3489.5	3012.4	2843.8	2846.6	2888.4	2918.7
4958.2	25°	5275.3	5380.5	4989.9	3978.1	3051.3	2728.5	2686.7	2732.8	2814.9	2874.0
5139.8	27.5°	5464.1	5510.2	4899.1	3550.0	2675.1	2525.2	2532.4	2627.6	2751.5	2833.7
5360.3	30°	5677.4	5625.5	4724.7	3068.6	2414.2	2350.8	2411.4	2522.3	2646.3	2719.8
5638.5	32.5°	5918.1	5725.0	4448.0	2623.2	2229.8	2211.0	2310.5	2382.5	2437.3	2458.9
6007.5	35°	6217.9	5864.8	4093.4	2310.5	2064.0	2108.7	2203.8	2167.8	2146.2	2134.6
6503.3	37.5°	6607.1	6053.6	3678.3	2107.2	1930.0	2035.2	2074.1	1961.7	1876.6	1834.8
7104.4	40°	7075.5	6330.4	3279.0	1950.1	1844.9	1971.8	1904.0	1768.5	1660.4	1601.3
7780.3	42.5°	7595.9	6620.1	2943.2	1831.9	1797.3	1919.9	1778.6	1617.2	1442.8	1424.0
8586.1	45°	8142.1	6918.4	2714.0	1741.1	1774.3	1875.2	1706.5	1445.7	1321.7	1398.1
9394.6	47.5°	8688.4	7192.3	2575.7	1673.4	1762.8	1824.7	1643.1	1350.5	1262.6	1373.6
10260.9	50°	9296.6	7437.3	2513.7	1624.4	1749.8	1804.6	1548.0	1326.0	1200.6	1274.1
11157.4	52.5°	9900.6	7627.6	2467.6	1575.4	1731.0	1788.7	1501.9	1297.2	1125.7	1130.0
12059.7	55°	10503.0	7751.5	2417.1	1510.5	1689.2	1754.1	1497.6	1265.5	1069.5	1049.3
13013.8	57.5°	11145.9	7822.1	2355.1	1438.5	1617.2	1666.2	1493.2	1241.0	1052.2	1019.0
13989.6	60°	11800.2	7925.9	2274.4	1350.5	1520.6	1561.0	1483.1	1232.3	1042.1	985.9
14909.2	62.5°	12386.9	7962.0	2177.9	1266.9	1396.7	1457.2	1461.5	1225.1	1014.7	918.1
15673.1	65°	12771.7	7806.3	2009.2	1171.8	1262.6	1350.5	1419.7	1200.6	965.7	869.1
16050.7	67.5°	12755.8	7362.4	1745.5	1049.3	1132.9	1232.3	1359.2	1158.8	906.6	808.6
15765.4	70°	12162.0	6486.0	1411.1	906.6	990.2	1105.5	1281.3	1096.9	836.0	742.3
14018.5	72.5°	10431.0	5076.4	1024.8	739.4	824.4	974.3	1180.5	1021.9	763.9	683.2
10360.3	75°	7451.7	3212.7	694.7	567.9	641.4	825.9	1055.1	934.0	697.6	686.1
5188.8	77.5°	3806.6	1535.0	459.8	415.1	446.8	651.5	886.4	834.5	707.7	566.4
1475.9	80°	1238.1	566.4	289.7	282.5	296.9	433.8	686.1	684.6	536.2	384.8
357.5	82.5°	394.9	243.6	188.8	181.6	174.4	272.4	478.5	541.9	361.8	243.6
128.3	85°	157.1	145.6	111.0	102.3	73.5	128.3	250.8	360.3	269.5	175.8
33.2	87.5°	57.7	57.7	30.3	21.6	15.9	43.2	67.7	108.1	154.2	90.8
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>
3926.2
4230.3
4375.9
4347.1
4128.0
3772.0
3413.1
3145.0
2987.9
2925.9
2889.9
2853.8
2737.1
2470.5
2146.2
1844.9
1605.7
1442.8
1438.5
1425.5
1328.9
1160.3
1063.7
1023.4
990.2
918.1
869.1
812.9
750.9
678.9
647.2
504.5
340.2
242.1
180.2
89.4
0.0

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