

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: P952072

Luminaire Tested: **GALN-SB6A-740-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952072
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-SB6A-740-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29544 lumens
Efficiency: N/A
Efficacy: 172.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

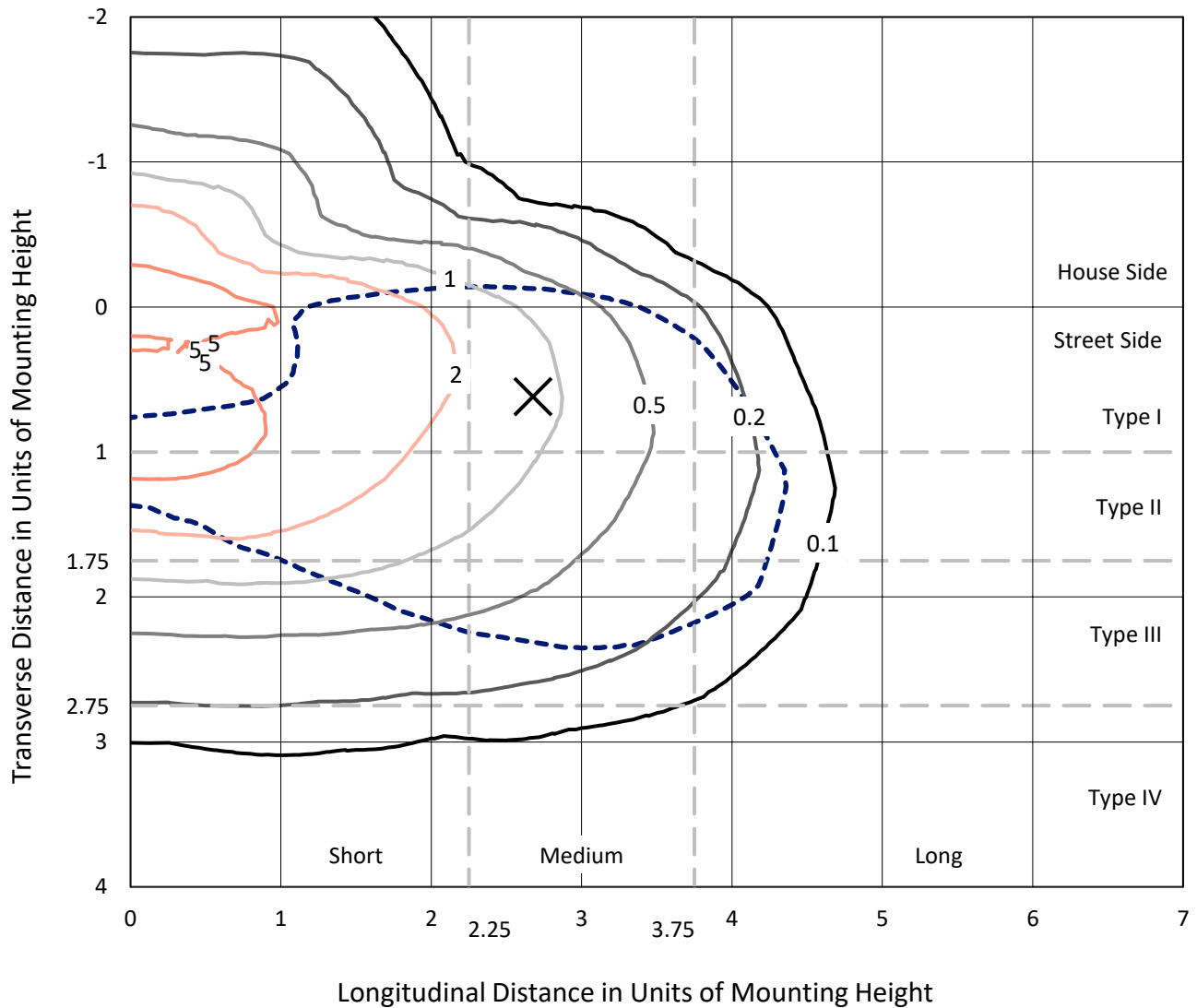
Input Watts (W): 170.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P952072
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Iso-Footcandle Lines of Horizontal Illumination

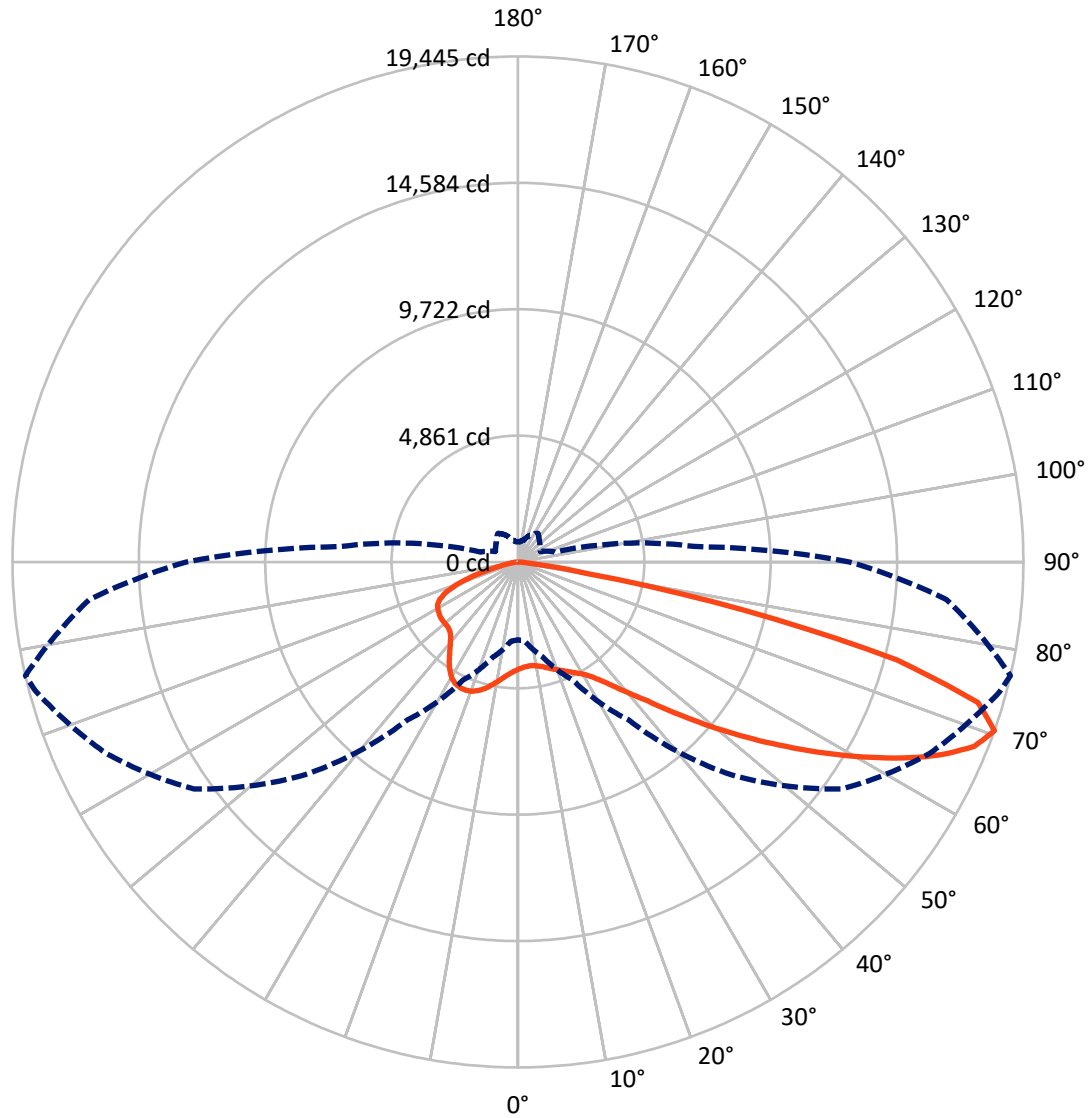
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc
 Type III - Medium - N/A

REPORT NUMBER: P952072
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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	6469.7	0.0	6469.7
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	23074.3	0.0	23074.3
	% Fixture	78.1	0.0	78.1
Total	Lumens	29544.0	0.0	29544.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	393.1	1.3
10°-20°	1134.5	3.8
20°-30°	1940.2	6.6
30°-40°	3120.0	10.6
40°-50°	4871.1	16.5
50°-60°	6506.7	22.0
60°-70°	6935.1	23.5
70°-80°	4269.2	14.5
80°-90°	374.1	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°	29544.0	100.0
0°-180°	29544.0	100.0

Coefficient of Utilization



REPORT NUMBER: P952072

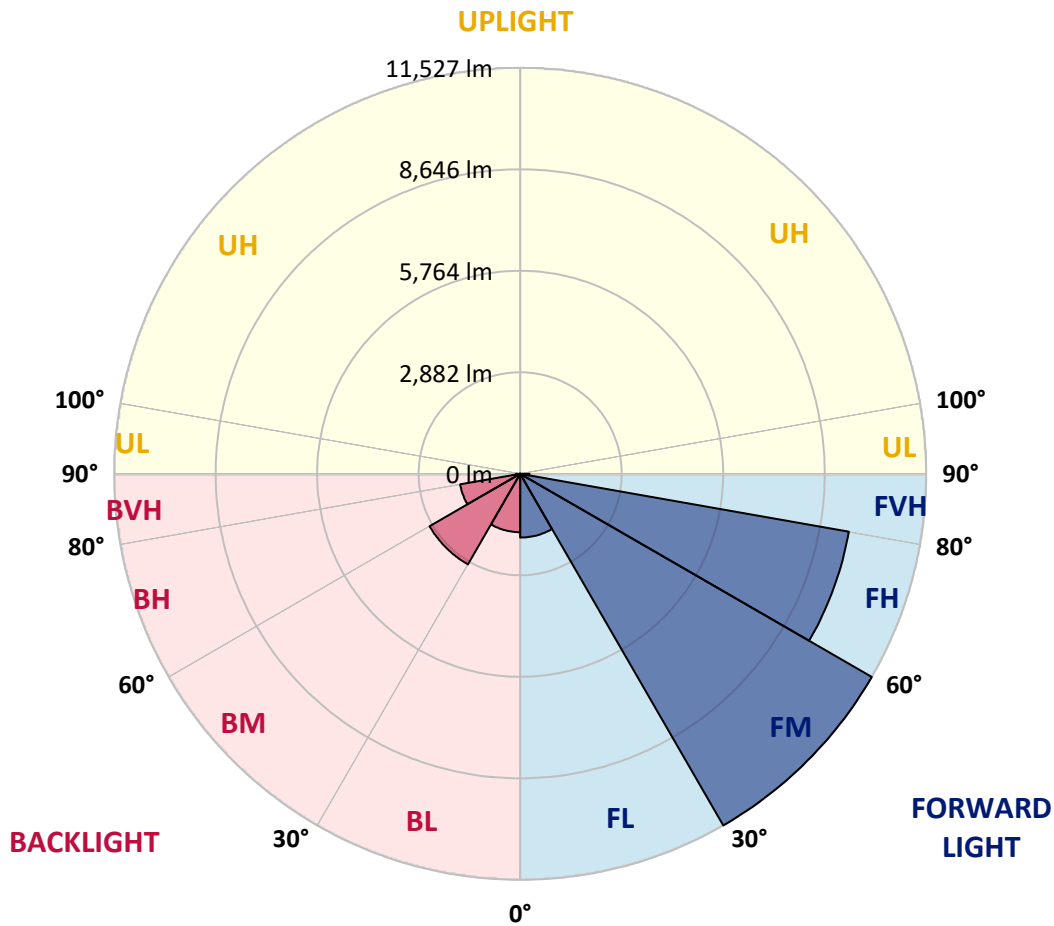
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1810.0	6.1			
FM (30°-60°)	11527.4	39.0			
FH (60°-80°)	9475.3	32.1			G4/12000
FVH (80°-90°)	261.6	0.9			G3/500
BL (0°-30°)	1657.7	5.6	B3/2500		
BM (30°-60°)	2970.4	10.1	B3/5000		
BH (60°-80°)	1729.1	5.9	B3/2500		G3/2500
BVH (80°-90°)	112.5	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



REPORT NUMBER: P952072
 CATALOG NUMBER: GALN-SB6A-740-U-T3R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	4121.7	4121.7	4121.7	4121.7	4121.7	4121.7	4121.7	4121.7	4121.7	4121.7
2.5°	3799.4	3797.9	3817.5	3823.6	3859.9	3885.6	3934.0	3985.5	4052.1	4059.6
5°	3580.0	3580.0	3602.7	3626.9	3673.8	3725.2	3799.4	3888.6	4003.6	4021.8
7.5°	3393.9	3406.0	3425.6	3472.5	3527.0	3601.2	3714.6	3841.7	3993.0	4021.8
10°	3244.1	3257.7	3281.9	3319.7	3401.4	3504.3	3652.6	3816.0	4018.8	4064.2
12.5°	3197.2	3210.8	3224.4	3253.1	3328.8	3449.8	3626.9	3828.1	4080.8	4126.2
15°	3306.1	3322.7	3312.2	3304.6	3343.9	3454.4	3639.0	3872.0	4158.0	4223.0
17.5°	3557.3	3563.3	3539.1	3468.0	3462.0	3521.0	3696.5	3932.5	4254.8	4325.9
20°	3962.8	3952.2	3902.3	3761.5	3681.3	3669.2	3794.8	4023.3	4354.7	4430.3
22.5°	4513.5	4501.4	4401.6	4179.2	4000.6	3882.6	3937.1	4141.3	4466.6	4551.4
25°	5200.5	5183.8	5037.1	4734.5	4457.6	4165.5	4130.7	4297.2	4604.3	4683.0
27.5°	6002.4	5988.8	5829.9	5430.5	5031.0	4552.9	4371.3	4480.3	4748.1	4837.3
30°	6864.9	6904.2	6622.8	6193.1	5687.7	5058.3	4695.1	4705.7	4934.2	5014.4
32.5°	7878.7	7946.7	7607.8	7063.1	6373.1	5607.5	5103.7	5020.4	5205.0	5271.6
35°	8883.4	8960.5	8679.1	8076.9	7282.5	6255.1	5530.3	5382.1	5565.1	5637.8
37.5°	9751.9	9854.8	9709.5	9186.0	8255.4	7035.9	6087.2	5807.2	6008.5	6099.3
40°	10437.3	10594.7	10584.1	10257.2	9402.3	7983.1	6793.8	6332.3	6559.2	6657.6
42.5°	10994.1	11130.3	11248.3	11231.7	10599.2	9058.9	7624.5	7014.7	7187.2	7300.7
45°	11378.4	11523.7	11777.9	12051.8	11750.7	10210.3	8576.2	7824.2	7981.6	8152.5
47.5°	11721.9	11886.8	12216.7	12650.9	12728.1	11366.3	9618.7	8766.8	8910.6	9087.6
50°	11752.2	11894.4	12405.8	13021.7	13422.6	12476.9	10738.4	9824.5	9959.2	10148.3
52.5°	11021.3	11245.3	12138.0	13011.1	13741.9	13406.0	11850.5	10924.5	11075.8	11302.8
55°	8555.0	8883.4	11352.7	12605.6	13628.4	14006.7	12908.2	12094.1	12287.8	12525.4
57.5°	7368.7	7512.5	9012.0	11867.2	13110.9	14162.5	13800.9	13275.9	13587.5	13847.8
60°	6622.8	6742.3	7629.0	10718.7	12430.0	13915.9	14490.9	14377.4	14916.0	15226.2
62.5°	5823.9	5937.4	6743.8	8949.9	11558.5	13505.8	14926.6	15394.2	16277.8	16616.8
65°	5031.0	5127.9	5901.1	7520.1	10450.9	13095.8	15152.1	16273.3	17538.2	17889.3
67.5°	4147.4	4227.6	4958.4	6344.4	9104.3	12534.4	15264.1	16964.8	18635.2	18936.3
70°	2992.9	3054.9	3810.0	5017.4	7414.1	11569.1	15218.7	17455.0	19204.1	19444.7
72.5°	1414.7	1470.7	2357.4	3257.7	5236.8	9689.8	14300.2	17066.1	18626.1	18506.6
75°	755.0	803.5	1354.2	1787.0	2765.9	6642.5	11702.2	14701.2	15640.8	15059.8
77.5°	511.4	549.3	838.3	1072.8	1263.4	3153.3	7521.6	10178.6	9792.7	8833.4
80°	405.5	444.8	686.9	726.3	611.3	1139.4	3107.9	4711.8	3384.8	2706.9
82.5°	311.7	355.6	578.0	526.6	332.9	467.5	904.8	1490.4	867.0	659.7
85°	190.6	237.6	453.9	335.9	187.6	213.3	307.2	414.6	264.8	220.9
87.5°	96.8	136.2	230.0	122.6	84.7	49.9	81.7	81.7	69.6	60.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P952072
 CATALOG NUMBER: GALN-SB6A-740-U-T3R

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4121.7	0°	4121.7	4121.7	4121.7	4121.7	4121.7	4121.7	4121.7	4121.7	4121.7	4121.7
4100.5	2.5°	4136.8	4167.1	4218.5	4266.9	4304.7	4341.1	4377.4	4397.0	4403.1	4427.3
4123.2	5°	4185.2	4241.2	4341.1	4434.9	4493.9	4530.2	4555.9	4571.0	4574.1	4581.6
4185.2	7.5°	4274.5	4363.8	4503.0	4596.8	4640.6	4637.6	4627.0	4589.2	4574.1	4560.5
4276.0	10°	4400.1	4518.1	4689.1	4754.1	4726.9	4654.3	4560.5	4450.0	4398.6	4348.6
4400.1	12.5°	4555.9	4705.7	4873.7	4870.6	4736.0	4549.9	4332.0	4162.5	4055.1	3977.9
4552.9	15°	4745.1	4917.5	5046.2	4943.3	4648.2	4313.8	3994.6	3773.6	3676.8	3592.1
4707.2	17.5°	4940.2	5124.8	5183.8	4920.6	4427.3	3964.3	3602.7	3428.7	3333.3	3287.9
4873.7	20°	5130.9	5314.0	5265.6	4790.4	4091.4	3567.9	3245.6	3150.3	3130.6	3141.2
5035.6	22.5°	5332.1	5495.5	5282.2	4539.3	3663.2	3162.4	2985.3	2988.4	3032.2	3064.0
5205.0	25°	5537.9	5648.4	5238.3	4176.1	3203.2	2864.3	2820.4	2868.8	2955.1	3017.1
5395.7	27.5°	5736.1	5784.5	5143.0	3726.7	2808.3	2650.9	2658.5	2758.4	2888.5	2974.7
5627.2	30°	5960.1	5905.6	4959.9	3221.4	2534.4	2467.9	2531.4	2647.9	2778.0	2855.2
5919.2	32.5°	6212.7	6010.0	4669.4	2753.8	2340.8	2321.1	2425.5	2501.1	2558.6	2581.3
6306.6	35°	6527.5	6156.8	4297.2	2425.5	2166.7	2213.7	2313.5	2275.7	2253.0	2240.9
6827.1	37.5°	6936.0	6355.0	3861.4	2212.1	2026.0	2136.5	2177.3	2059.3	1970.0	1926.2
7458.0	40°	7427.8	6645.5	3442.3	2047.2	1936.8	2069.9	1998.8	1856.6	1743.1	1681.0
8167.7	42.5°	7974.0	6949.6	3089.7	1923.1	1886.8	2015.4	1867.2	1697.7	1514.6	1494.9
9013.5	45°	8547.4	7262.8	2849.1	1827.8	1862.6	1968.5	1791.5	1517.6	1387.5	1467.7
9862.3	47.5°	9120.9	7550.3	2703.9	1756.7	1850.5	1915.6	1724.9	1417.8	1325.5	1442.0
10771.7	50°	9759.4	7807.5	2638.8	1705.3	1836.9	1894.4	1625.1	1392.0	1260.4	1337.6
11712.8	52.5°	10393.4	8007.3	2590.4	1653.8	1817.2	1877.7	1576.6	1361.8	1181.7	1186.3
12660.0	55°	11025.9	8137.4	2537.5	1585.7	1773.3	1841.4	1572.1	1328.5	1122.7	1101.5
13661.7	57.5°	11700.7	8211.5	2472.4	1510.1	1697.7	1749.1	1567.6	1302.8	1104.6	1069.8
14686.1	60°	12387.7	8320.5	2387.7	1417.8	1596.3	1638.7	1557.0	1293.7	1094.0	1035.0
15651.4	62.5°	13003.5	8358.3	2286.3	1330.0	1466.2	1529.7	1534.3	1286.1	1065.2	963.8
16453.3	65°	13407.5	8194.9	2109.2	1230.1	1325.5	1417.8	1490.4	1260.4	1013.8	912.4
16849.8	67.5°	13390.8	7728.9	1832.4	1101.5	1189.3	1293.7	1426.8	1216.5	951.7	848.8
16550.2	70°	12767.5	6808.9	1481.3	951.7	1039.5	1160.5	1345.1	1151.5	877.6	779.2
14716.3	72.5°	10950.2	5329.1	1075.8	776.2	865.5	1022.8	1239.2	1072.8	801.9	717.2
10876.1	75°	7822.7	3372.7	729.3	596.2	673.3	867.0	1107.6	980.5	732.3	720.2
5447.1	77.5°	3996.1	1611.4	482.7	435.8	469.1	683.9	930.6	876.1	742.9	594.6
1549.4	80°	1299.7	594.6	304.1	296.6	311.7	455.4	720.2	718.7	562.9	404.0
375.2	82.5°	414.6	255.7	198.2	190.6	183.1	286.0	502.3	568.9	379.8	255.7
134.7	85°	164.9	152.8	116.5	107.4	77.2	134.7	263.3	378.3	282.9	184.6
34.8	87.5°	60.5	60.5	31.8	22.7	16.6	45.4	71.1	113.5	161.9	95.3
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>
4121.7
4440.9
4593.7
4563.5
4333.5
3959.8
3583.0
3301.6
3136.6
3071.6
3033.7
2995.9
2873.4
2593.4
2253.0
1936.8
1685.6
1514.6
1510.1
1496.4
1395.1
1218.0
1116.7
1074.3
1039.5
963.8
912.4
853.4
788.3
712.7
679.4
529.6
357.1
254.2
189.1
93.8
0.0

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