

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: P942495

Luminaire Tested: **GALN-SB6C-740-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942495
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB6C-740-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47607 lumens
Efficiency: N/A
Efficacy: 158.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

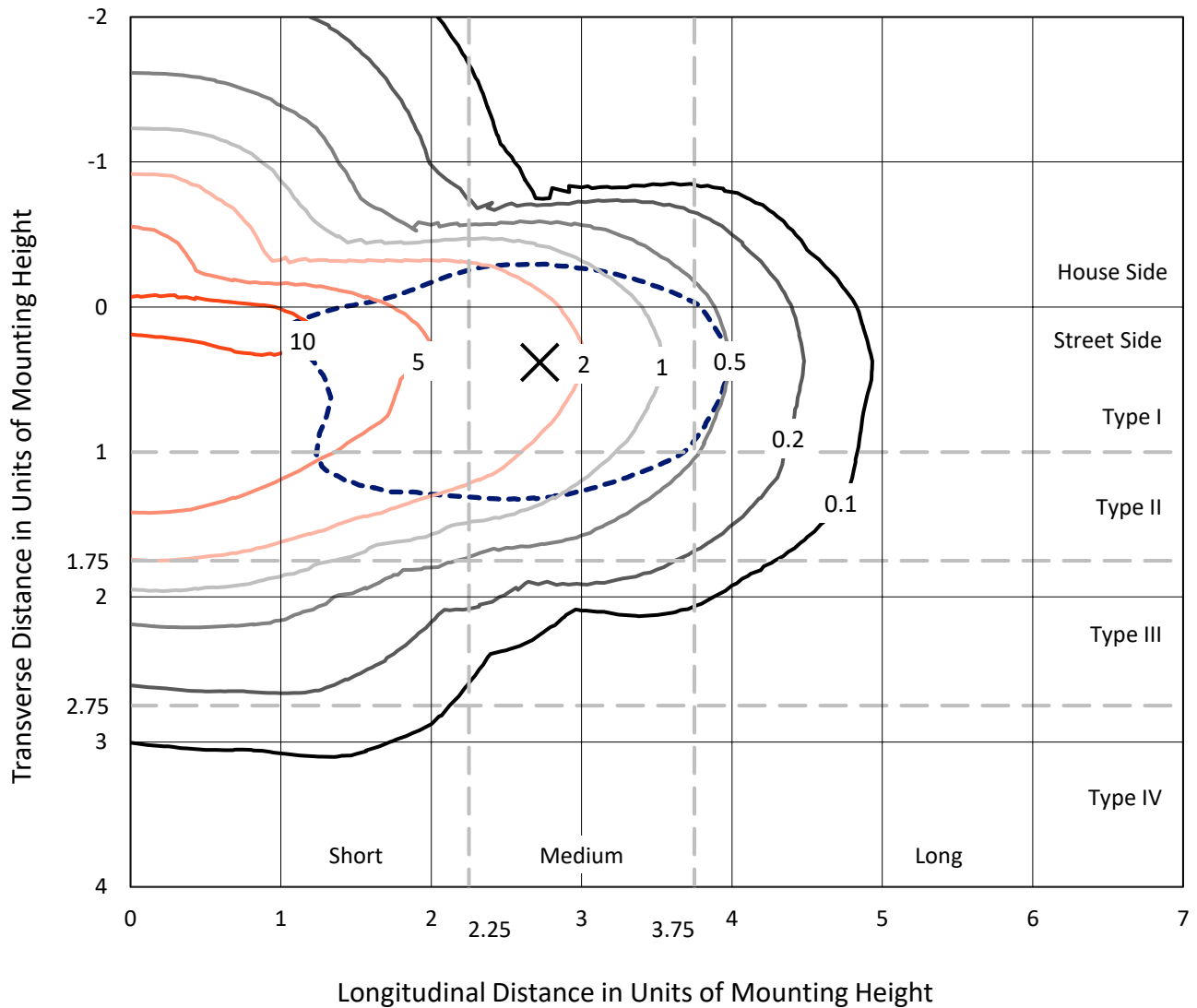
Input Watts (W): 300.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

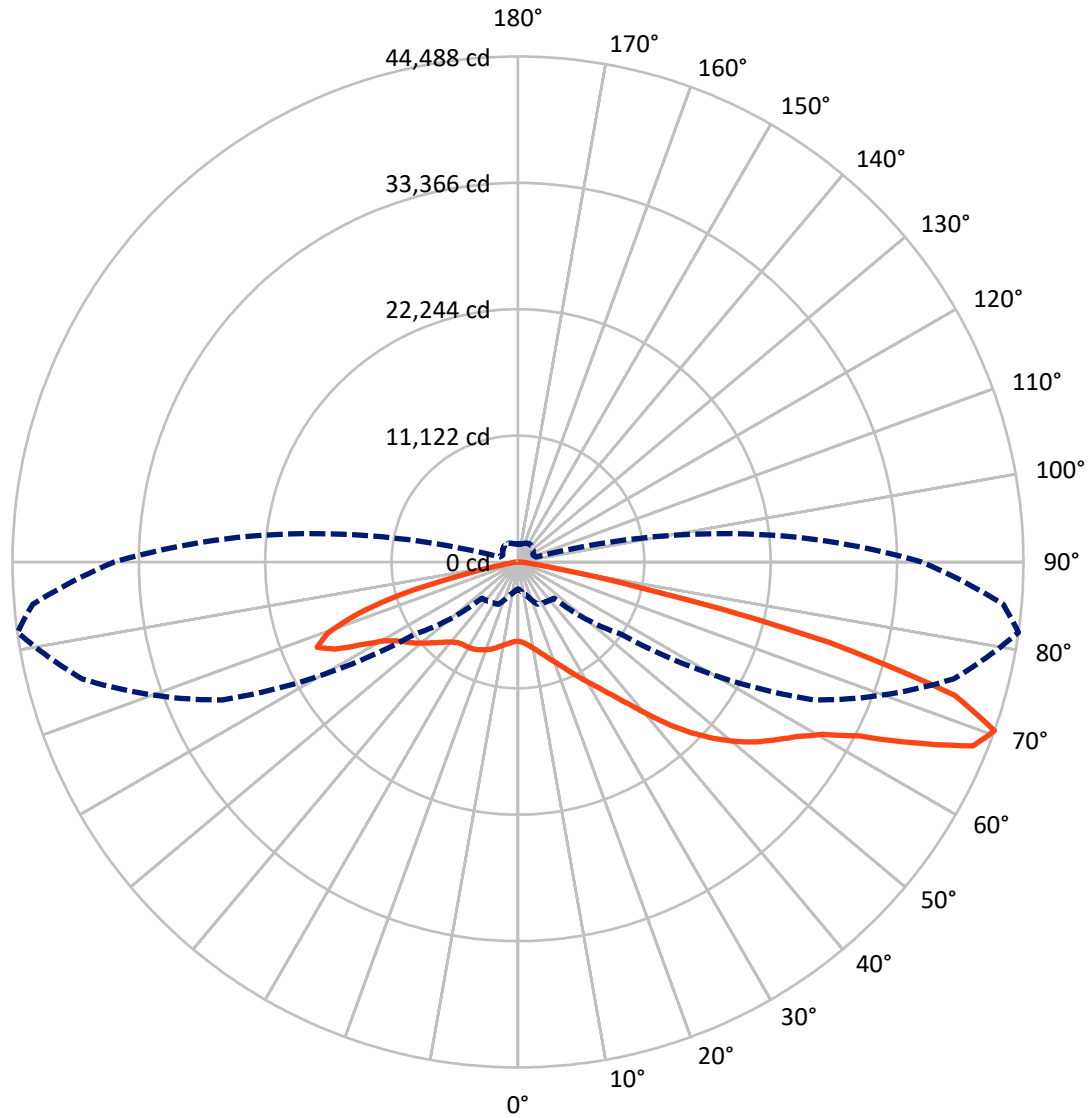
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11736.3	0.0	11736.3
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	35870.7	0.0	35870.7
	% Fixture	75.3	0.0	75.3
Total	Lumens	47607.0	0.0	47607.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	659.0	1.4
10°-20°	1893.4	4.0
20°-30°	3167.4	6.7
30°-40°	4948.4	10.4
40°-50°	7880.9	16.6
50°-60°	10967.2	23.0
60°-70°	11472.2	24.1
70°-80°	5996.0	12.6
80°-90°	622.6	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°	47607.0	100.0
0°-180°	47607.0	100.0

Coefficient of Utilization



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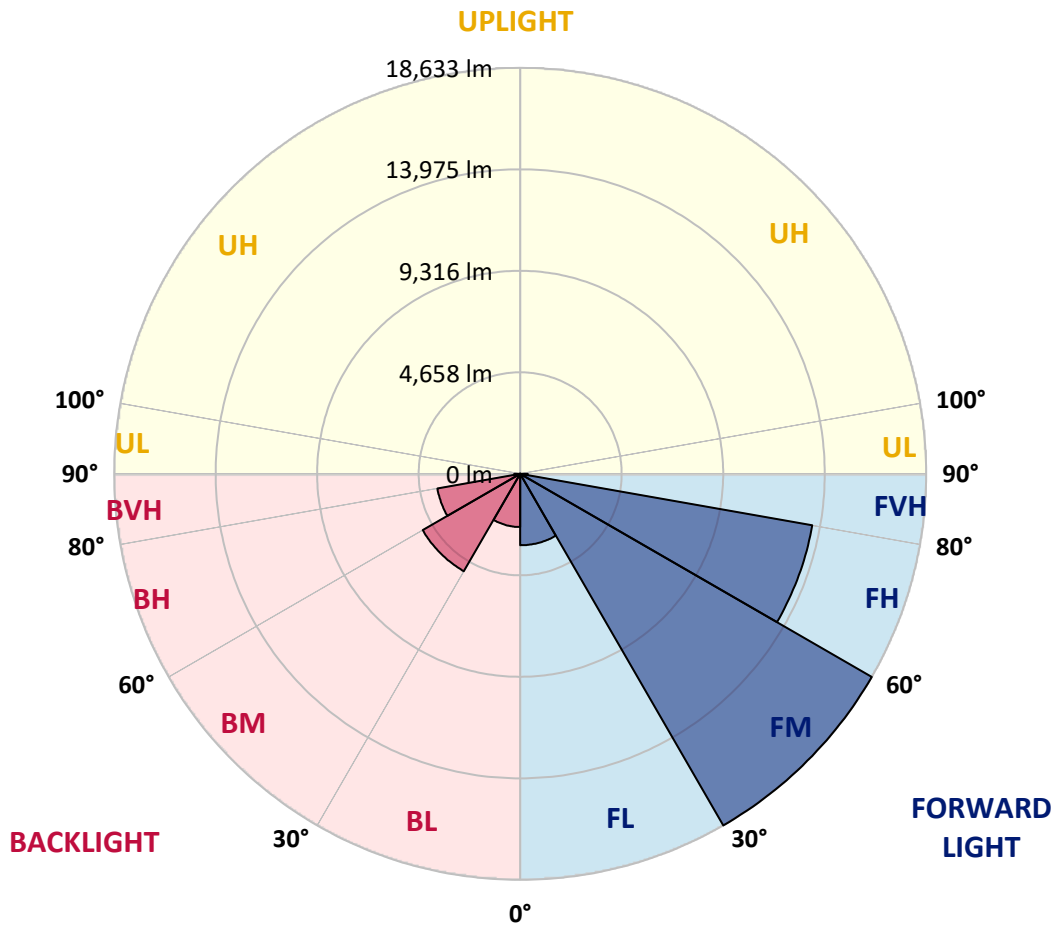
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3278.3	6.9			
FM (30°-60°)	18632.9	39.1			
FH (60°-80°)	13611.0	28.6			G5
FVH (80°-90°)	348.5	0.7			G3/500
BL (0°-30°)	2441.6	5.1	B3/2500		
BM (30°-60°)	5163.5	10.8	B4/8500		
BH (60°-80°)	3857.1	8.1	B4/5000		G4/5000
BVH (80°-90°)	274.1	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	6979.8	6979.8	6979.8	6979.8	6979.8	6979.8	6979.8	6979.8	6979.8	6979.8
2.5°	7146.5	7186.9	7174.3	7161.7	7161.7	7144.0	7141.5	7116.2	7096.0	7063.1
5°	7237.4	7280.4	7275.3	7285.4	7318.3	7325.9	7333.4	7318.3	7277.9	7237.4
7.5°	7156.6	7204.6	7219.8	7280.4	7381.4	7472.4	7540.6	7568.4	7530.5	7472.4
10°	6883.8	6936.8	6989.9	7133.9	7313.2	7528.0	7709.8	7818.5	7810.9	7755.3
12.5°	6330.6	6386.1	6499.8	6780.2	7108.6	7487.5	7826.0	8053.4	8131.7	8091.3
15°	5888.5	5936.5	6022.4	6310.3	6737.3	7313.2	7869.0	8311.1	8510.6	8487.9
17.5°	5875.8	5896.1	5949.1	6085.5	6413.9	7040.4	7823.5	8563.7	8945.1	8942.6
20°	6098.2	6105.7	6136.0	6163.8	6350.8	6833.3	7707.3	8773.4	9432.7	9432.7
22.5°	6406.3	6401.3	6431.6	6406.3	6497.3	6815.6	7634.1	8957.8	9975.8	10016.2
25°	6868.6	6843.4	6835.8	6777.7	6795.4	6979.8	7714.9	9167.4	10620.0	10703.3
27.5°	7485.0	7444.6	7416.8	7282.9	7237.4	7318.3	7962.5	9420.1	11337.4	11481.4
30°	8288.3	8215.1	8174.7	7942.2	7778.0	7790.7	8336.3	9756.0	12087.7	12320.1
32.5°	9384.7	9271.0	9162.4	8780.9	8480.3	8381.8	8818.8	10220.8	12901.1	13272.4
35°	10612.4	10521.5	10405.3	9816.7	9354.4	9127.0	9470.6	10870.1	13853.5	14442.1
37.5°	11794.6	11716.3	11771.9	10978.7	10382.5	10051.6	10324.4	11741.6	15028.1	15897.1
40°	13017.3	12956.7	12964.3	12206.4	11511.7	11140.4	11360.1	12835.4	16374.6	17627.5
42.5°	14346.1	14300.6	14149.0	13477.1	12696.5	12350.4	12552.5	14098.5	17819.5	19598.0
45°	15834.0	15806.2	15664.7	14894.2	14000.0	13611.0	13883.8	15492.9	19272.1	21452.2
47.5°	17119.8	17142.5	17124.8	16475.6	15548.5	14977.6	15303.5	16948.0	20623.6	23195.2
50°	17738.7	17857.4	18031.7	17829.6	17253.7	16672.7	16735.8	18352.6	21911.9	24829.6
52.5°	17415.4	17640.2	18115.1	18438.4	18660.7	18539.5	18370.2	19747.0	23124.5	26304.9
55°	16210.4	16526.1	17314.3	18094.9	19229.1	20110.8	20333.1	21293.0	24306.7	27603.4
57.5°	14015.1	14527.9	15235.3	16814.1	18723.9	20871.1	22621.8	23437.7	25559.7	28990.2
60°	10251.2	10938.3	11817.4	14166.7	16955.6	20464.4	24569.4	26731.8	27340.6	30786.3
62.5°	6560.4	6984.8	7793.2	10006.1	13211.8	18380.3	25165.6	30849.5	30359.4	33731.8
65°	4491.5	4764.3	5504.5	6747.4	8540.9	13681.7	23569.1	33936.4	35154.0	38400.2
67.5°	3263.8	3470.9	4102.5	5191.3	5565.1	8096.3	18289.4	33795.0	39814.8	43210.0
70°	2379.6	2526.2	3056.7	4102.5	4281.8	4504.1	11079.7	28727.5	39713.8	44488.2
72.5°	1763.3	1864.3	2220.5	3183.0	3465.9	3041.5	5484.3	20878.7	34125.9	40239.2
75°	1275.7	1351.5	1614.2	2435.2	2773.7	2316.5	2735.8	12201.4	23804.0	28305.6
77.5°	975.1	1033.2	1205.0	1783.5	2220.5	1738.0	1697.6	5613.1	11286.9	11342.5
80°	783.1	821.0	914.5	1255.5	1702.6	1301.0	1106.5	2266.0	3566.9	3018.8
82.5°	576.0	639.1	773.0	881.6	1217.6	896.8	674.5	1144.4	1356.5	1167.1
85°	328.4	371.3	467.3	631.5	778.1	548.2	386.5	507.8	631.5	517.9
87.5°	116.2	151.6	164.2	247.6	338.5	227.4	149.0	146.5	207.1	154.1
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°
6979.8	0°	6979.8	6979.8	6979.8	6979.8	6979.8	6979.8	6979.8	6979.8	6979.8	6979.8
7055.6	2.5°	7030.3	7017.7	6967.2	6898.9	6828.2	6760.0	6737.3	6689.3	6656.4	6638.7
7219.8	5°	7171.8	7131.4	7012.6	6861.1	6701.9	6530.1	6408.9	6297.7	6216.9	6141.1
7444.6	7.5°	7373.9	7303.1	7098.5	6833.3	6550.3	6264.9	6052.7	5891.0	5782.4	5711.6
7707.3	10°	7608.8	7500.2	7186.9	6790.3	6353.3	5944.1	5694.0	5555.0	5486.8	5448.9
8007.9	12.5°	7879.1	7725.0	7277.9	6691.8	6052.7	5585.3	5413.6	5373.1	5375.7	5378.2
8386.9	15°	8212.5	7997.8	7351.1	6477.1	5661.1	5310.0	5279.7	5345.4	5413.6	5446.4
8816.3	17.5°	8588.9	8285.8	7363.8	6123.4	5277.1	5133.2	5229.2	5370.6	5474.2	5519.7
9296.3	20°	8993.1	8578.8	7272.8	5623.2	4961.4	4989.2	5160.9	5342.8	5456.5	5514.6
9844.4	22.5°	9455.4	8892.1	7055.6	5097.8	4703.7	4832.5	5034.6	5211.5	5330.2	5388.3
10488.6	25°	9983.4	9243.2	6714.5	4655.7	4481.4	4655.7	4857.8	5004.3	5100.3	5153.4
11208.6	27.5°	10569.5	9609.5	6259.8	4304.6	4286.9	4473.8	4640.6	4754.2	4804.8	4845.2
11974.0	30°	11158.1	9943.0	5709.1	4039.3	4117.6	4294.5	4413.2	4463.7	4478.9	4486.5
12827.8	32.5°	11794.6	10231.0	5130.6	3819.6	3956.0	4120.2	4190.9	4213.6	4142.9	4094.9
13863.6	35°	12565.1	10539.1	4564.8	3645.2	3796.8	3938.3	3961.0	3940.8	3857.4	3758.9
15162.0	37.5°	13517.5	10923.1	4112.6	3521.5	3647.8	3741.2	3713.5	3708.4	3716.0	3599.8
16723.2	40°	14684.6	11423.3	3781.7	3425.5	3526.5	3546.7	3468.4	3511.4	3549.3	3372.4
18435.9	42.5°	15980.5	12027.1	3572.0	3359.8	3425.5	3377.5	3256.2	3304.2	3299.2	3066.8
20156.2	45°	17301.7	12683.9	3498.7	3311.8	3332.0	3236.0	3102.1	3114.8	3008.7	2799.0
21805.8	47.5°	18615.3	13388.7	3544.2	3271.4	3215.8	3107.2	3003.6	2948.0	2791.4	2634.8
23387.2	50°	19903.6	14128.8	3710.9	3190.5	3056.7	2993.5	2917.7	2819.2	2652.5	2518.6
24882.7	52.5°	21098.5	14874.0	3897.9	3056.7	2857.1	2895.0	2847.0	2733.3	2569.1	2432.7
26297.3	55°	22230.2	15619.3	3971.1	2872.2	2670.2	2809.1	2781.3	2571.6	2374.6	2263.4
27777.7	57.5°	23463.0	16516.0	3890.3	2637.3	2518.6	2710.6	2604.5	2372.1	2258.4	2175.0
29705.1	60°	25170.7	17923.1	3716.0	2346.8	2374.6	2564.1	2382.2	2286.2	2162.4	2068.9
32595.0	62.5°	28007.5	20547.8	3435.6	2058.8	2205.3	2346.8	2276.1	2180.1	2053.8	1962.8
37536.2	65°	32201.0	24195.6	2907.6	1834.0	2015.9	2134.6	2162.4	2066.4	1935.0	1839.0
41866.1	67.5°	35737.6	26484.3	2200.3	1647.1	1821.4	1962.8	2041.1	1947.7	1808.7	1715.3
42879.0	70°	35543.1	24822.1	1679.9	1462.6	1649.6	1793.6	1894.6	1821.4	1672.3	1583.9
38948.3	72.5°	31569.4	20765.0	1359.1	1275.7	1475.3	1616.7	1738.0	1682.4	1530.9	1445.0
28533.0	75°	23192.7	14740.1	1086.2	1086.2	1258.0	1432.3	1566.2	1530.9	1391.9	1331.3
11979.1	77.5°	9776.2	6184.0	851.3	901.8	1045.8	1230.2	1397.0	1409.6	1288.3	1364.1
3167.8	80°	2599.4	1705.2	649.2	709.9	821.0	1015.5	1215.1	1210.0	1078.7	1007.9
1177.2	82.5°	990.3	672.0	462.3	500.2	593.6	778.1	962.5	992.8	861.4	745.2
462.3	85°	381.5	288.0	285.5	300.6	346.1	515.3	727.5	752.8	649.2	550.7
128.8	87.5°	98.5	85.9	106.1	101.0	159.1	275.4	416.8	432.0	396.6	229.9
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>
6979.8
6659.0
6171.4
5726.8
5459.0
5383.2
5443.9
5529.8
5529.8
5403.5
5168.5
4860.3
4504.1
4110.1
3764.0
3607.4
3377.5
3064.2
2806.6
2634.8
2508.5
2435.2
2253.3
2167.4
2063.9
1962.8
1844.1
1717.8
1591.5
1445.0
1313.6
1237.8
937.2
745.2
568.4
328.4
0.0

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