

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: P954235

Luminaire Tested: **GALN-SB7C-750-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954235
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-SB7C-750-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 57846 lumens
Efficiency: N/A
Efficacy: 165.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

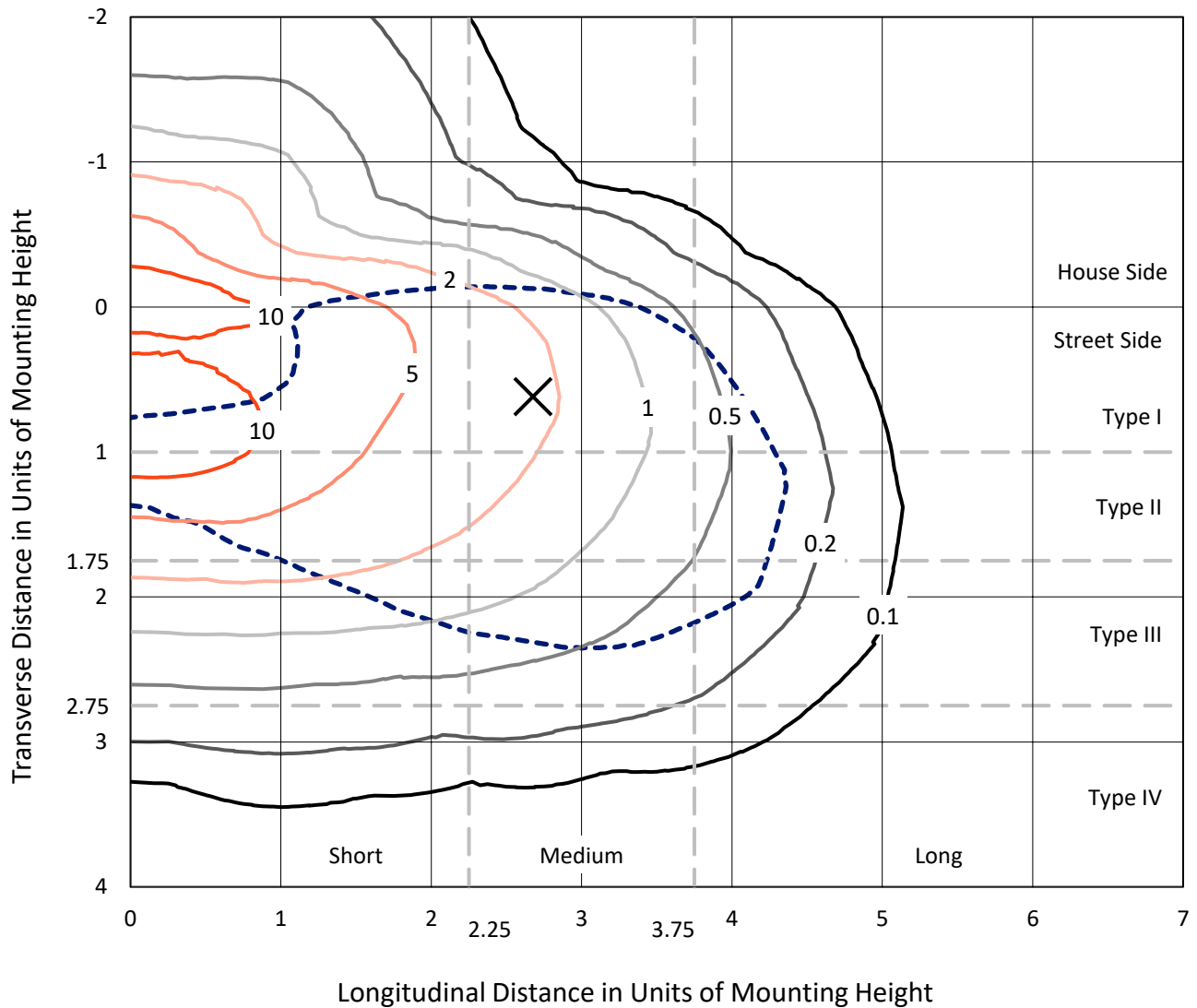
Input Watts (W): 350.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

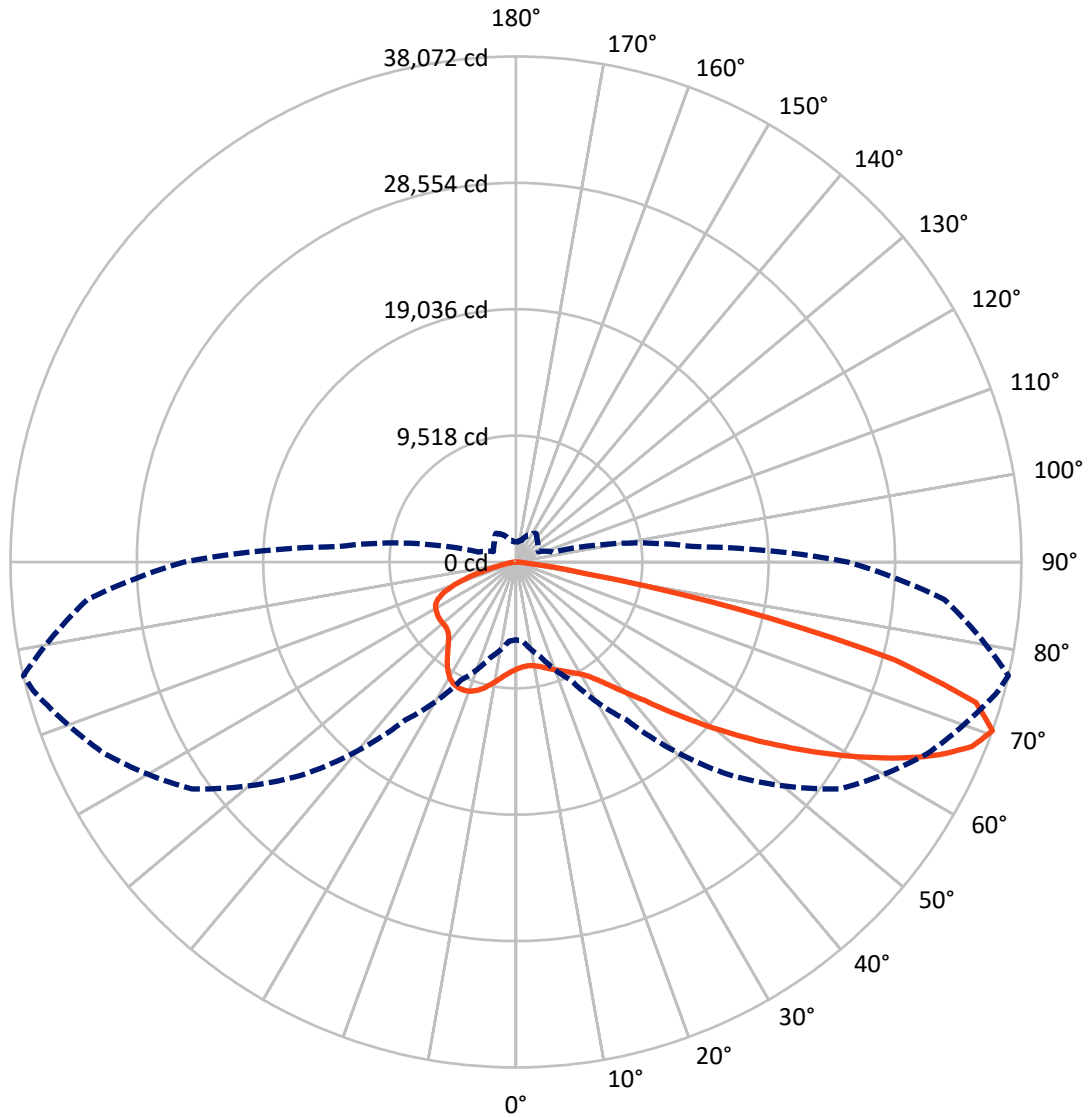
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.3 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	12667.4	0.0	12667.4
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	45178.6	0.0	45178.6
	% Fixture	78.1	0.0	78.1
Total	Lumens	57846.0	0.0	57846.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	769.7	1.3
10°-20°	2221.3	3.8
20°-30°	3798.8	6.6
30°-40°	6108.8	10.6
40°-50°	9537.5	16.5
50°-60°	12739.8	22.0
60°-70°	13578.7	23.5
70°-80°	8359.0	14.5
80°-90°	732.5	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°	57846.0	100.0
0°-180°	57846.0	100.0



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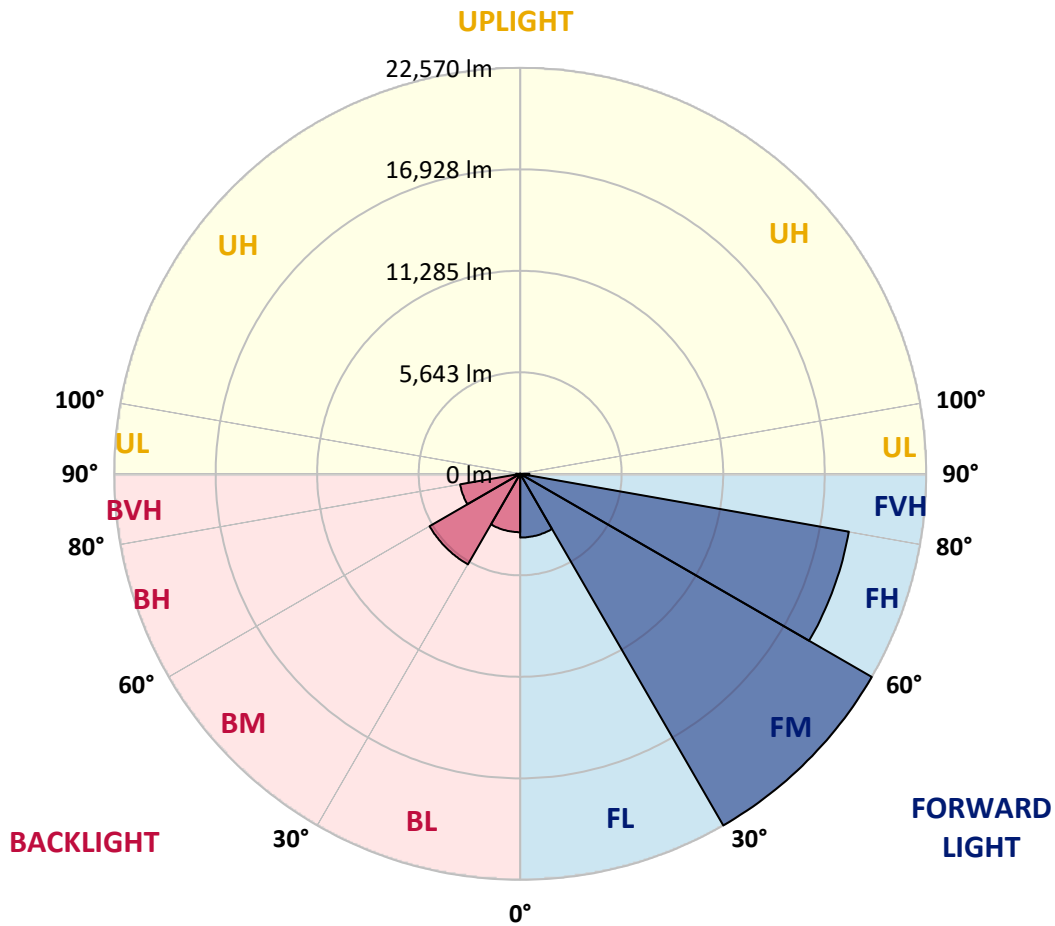
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3544.0	6.1			
FM (30°-60°)	22570.3	39.0			
FH (60°-80°)	18552.2	32.1			G5
FVH (80°-90°)	512.2	0.9			G4/750
BL (0°-30°)	3245.8	5.6	B4/5000		
BM (30°-60°)	5815.9	10.1	B4/8500		
BH (60°-80°)	3385.4	5.9	B4/5000		G4/5000
BVH (80°-90°)	220.3	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	8070.0	8070.0	8070.0	8070.0	8070.0	8070.0	8070.0	8070.0	8070.0	8070.0
2.5°	7439.0	7436.1	7474.6	7486.4	7557.5	7607.9	7702.7	7803.4	7933.8	7948.6
5°	7009.4	7009.4	7053.9	7101.3	7193.1	7293.9	7439.0	7613.8	7839.0	7874.5
7.5°	6645.0	6668.7	6707.3	6799.1	6905.8	7050.9	7273.1	7522.0	7818.2	7874.5
10°	6351.8	6378.4	6425.8	6499.9	6659.9	6861.3	7151.6	7471.6	7868.6	7957.5
12.5°	6259.9	6286.6	6313.2	6369.5	6517.7	6754.7	7101.3	7495.3	7990.1	8078.9
15°	6473.2	6505.8	6485.1	6470.3	6547.3	6763.6	7125.0	7581.2	8141.1	8268.5
17.5°	6965.0	6976.9	6929.5	6790.2	6778.4	6893.9	7237.6	7699.7	8330.8	8470.0
20°	7759.0	7738.2	7640.5	7365.0	7207.9	7184.2	7430.1	7877.5	8526.3	8674.4
22.5°	8837.4	8813.7	8618.1	8182.6	7833.0	7602.0	7708.6	8108.6	8745.5	8911.4
25°	10182.4	10149.8	9862.4	9269.9	8727.7	8156.0	8087.8	8413.7	9015.1	9169.2
27.5°	11752.5	11725.9	11414.8	10632.7	9850.6	8914.4	8558.9	8772.2	9296.5	9471.3
30°	13441.2	13518.2	12967.2	12125.8	11136.3	9903.9	9192.9	9213.6	9660.9	9818.0
32.5°	15426.1	15559.4	14895.8	13829.3	12478.4	10979.3	9992.8	9829.8	10191.2	10321.6
35°	17393.3	17544.3	16993.3	15814.2	14258.9	12247.3	10828.2	10537.9	10896.3	11038.5
37.5°	19093.8	19295.2	19010.8	17985.8	16163.8	13776.0	11918.4	11370.3	11764.4	11942.1
40°	20435.8	20743.9	20723.2	20083.3	18409.4	15630.5	13301.9	12398.4	12842.7	13035.3
42.5°	21526.0	21792.7	22023.8	21991.2	20752.8	17736.9	14928.4	13734.5	14072.2	14294.4
45°	22278.5	22562.9	23060.7	23596.9	23007.3	19991.4	16791.9	15319.5	15627.6	15962.3
47.5°	22951.0	23274.0	23919.8	24770.1	24921.2	22254.8	18833.1	17165.1	17446.6	17793.2
50°	23010.3	23288.8	24290.1	25495.9	26281.0	24429.4	21025.4	19236.0	19499.6	19870.0
52.5°	21579.4	22017.8	23765.7	25475.2	26906.1	26248.4	23202.9	21389.8	21686.0	22130.4
55°	16750.4	17393.3	22228.2	24681.2	26683.9	27424.5	25273.7	23679.8	24059.0	24524.2
57.5°	14427.7	14709.2	17645.1	23235.4	25670.7	27729.7	27021.6	25993.6	26603.9	27113.5
60°	12967.2	13201.2	14937.3	20986.9	24337.5	27246.8	28372.5	28150.4	29205.0	29812.4
62.5°	11402.9	11625.1	13204.2	17523.6	22631.1	26443.9	29225.8	30141.2	31871.3	32535.0
65°	9850.6	10040.2	11554.0	14724.0	20462.5	25641.1	29667.2	31862.5	34339.2	35026.5
67.5°	8120.4	8277.4	9708.3	12422.1	17825.8	24541.9	29886.4	33216.4	36487.0	37076.6
70°	5860.0	5981.4	7459.8	9823.9	14516.6	22651.8	29797.5	34176.2	37601.0	38072.0
72.5°	2770.0	2879.6	4615.7	6378.4	10253.5	18972.3	27999.3	33414.8	36469.3	36235.2
75°	1478.3	1573.1	2651.5	3498.8	5415.6	13005.7	22912.5	28784.3	30624.1	29486.5
77.5°	1001.3	1075.4	1641.3	2100.5	2473.7	6174.0	14726.9	19929.2	19173.8	17295.5
80°	794.0	871.0	1345.0	1422.0	1196.9	2230.8	6085.1	9225.4	6627.3	5300.0
82.5°	610.3	696.2	1131.7	1031.0	651.8	915.4	1771.6	2918.1	1697.6	1291.7
85°	373.3	465.1	888.8	657.7	367.4	417.7	601.4	811.7	518.5	432.5
87.5°	189.6	266.6	450.3	240.0	165.9	97.8	160.0	160.0	136.3	118.5
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°
8070.0	0°	8070.0	8070.0	8070.0	8070.0	8070.0	8070.0	8070.0	8070.0	8070.0	8070.0
8028.6	2.5°	8099.7	8158.9	8259.6	8354.5	8428.5	8499.6	8570.7	8609.2	8621.1	8668.5
8073.0	5°	8194.5	8304.1	8499.6	8683.3	8798.8	8869.9	8920.3	8949.9	8955.9	8970.7
8194.5	7.5°	8369.3	8544.1	8816.6	9000.3	9086.2	9080.3	9059.5	8985.5	8955.9	8929.2
8372.2	10°	8615.2	8846.2	9181.0	9308.4	9255.1	9112.9	8929.2	8712.9	8612.2	8514.4
8615.2	12.5°	8920.3	9213.6	9542.4	9536.5	9272.8	8908.5	8481.8	8150.0	7939.7	7788.6
8914.4	15°	9290.6	9628.4	9880.2	9678.7	9101.0	8446.3	7821.2	7388.7	7199.0	7033.1
9216.6	17.5°	9672.8	10034.2	10149.8	9634.3	8668.5	7761.9	7053.9	6713.2	6526.5	6437.7
9542.4	20°	10046.1	10404.6	10309.7	9379.5	8010.8	6985.7	6354.7	6168.1	6129.6	6150.3
9859.4	22.5°	10440.1	10760.1	10342.3	8887.7	7172.4	6191.8	5845.2	5851.1	5937.0	5999.2
10191.2	25°	10843.0	11059.3	10256.4	8176.7	6271.8	5608.1	5522.2	5617.0	5785.9	5907.4
10564.5	27.5°	11231.1	11325.9	10069.8	7296.8	5498.5	5190.4	5205.2	5400.8	5655.5	5824.4
11017.8	30°	11669.6	11562.9	9711.3	6307.3	4962.3	4832.0	4956.4	5184.5	5439.3	5590.4
11589.6	32.5°	12164.3	11767.3	9142.5	5391.9	4583.1	4544.6	4749.0	4897.1	5009.7	5054.1
12348.0	35°	12780.5	12054.7	8413.7	4749.0	4242.4	4334.2	4529.8	4455.7	4411.3	4387.6
13367.1	37.5°	13580.4	12442.8	7560.5	4331.3	3966.9	4183.2	4263.1	4032.1	3857.3	3771.4
14602.5	40°	14543.3	13011.6	6739.9	4008.4	3792.1	4052.8	3913.6	3635.1	3412.9	3291.4
15992.0	42.5°	15612.8	13607.1	6049.6	3765.4	3694.3	3946.1	3655.8	3324.0	2965.5	2927.0
17648.0	45°	16735.6	14220.3	5578.5	3578.8	3646.9	3854.3	3507.7	2971.5	2716.7	2873.7
19310.0	47.5°	17858.4	14783.2	5294.1	3439.5	3623.2	3750.6	3377.3	2775.9	2595.2	2823.3
21090.5	50°	19108.6	15286.9	5166.7	3338.8	3596.6	3709.1	3181.8	2725.6	2467.8	2618.9
22933.3	52.5°	20349.9	15677.9	5071.9	3238.1	3558.0	3676.6	3087.0	2666.3	2313.8	2322.7
24787.8	55°	21588.3	15932.7	4968.2	3104.8	3472.1	3605.4	3078.1	2601.1	2198.2	2156.8
26749.1	57.5°	22909.6	16077.9	4840.8	2956.6	3324.0	3424.7	3069.2	2550.8	2162.7	2094.5
28754.7	60°	24254.6	16291.2	4674.9	2775.9	3125.5	3208.5	3048.5	2533.0	2141.9	2026.4
30644.8	62.5°	25460.3	16365.2	4476.4	2604.1	2870.7	2995.2	3004.0	2518.2	2085.7	1887.2
32215.0	65°	26251.3	16045.3	4129.8	2408.6	2595.2	2775.9	2918.1	2467.8	1984.9	1786.4
32991.2	67.5°	26218.8	15132.8	3587.7	2156.8	2328.6	2533.0	2793.7	2381.9	1863.5	1662.0
32404.6	70°	24998.2	13331.6	2900.4	1863.5	2035.3	2272.3	2633.7	2254.5	1718.3	1525.7
28814.0	72.5°	21440.1	10434.2	2106.4	1519.8	1694.6	2002.7	2426.3	2100.5	1570.2	1404.3
21295.0	75°	15316.5	6603.6	1428.0	1167.3	1318.3	1697.6	2168.6	1919.7	1433.9	1410.2
10665.3	77.5°	7824.2	3155.1	945.1	853.2	918.4	1339.1	1822.0	1715.3	1454.6	1164.3
3033.7	80°	2544.8	1164.3	595.5	580.7	610.3	891.7	1410.2	1407.2	1102.1	791.0
734.7	82.5°	811.7	500.7	388.1	373.3	358.5	559.9	983.6	1113.9	743.6	500.7
263.7	85°	322.9	299.2	228.1	210.3	151.1	263.7	515.5	740.6	554.0	361.4
68.1	87.5°	118.5	118.5	62.2	44.4	32.6	88.9	139.2	222.2	317.0	186.6
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>
8070.0
8695.1
8994.4
8935.1
8484.8
7753.0
7015.4
6464.3
6141.4
6014.0
5940.0
5865.9
5625.9
5077.8
4411.3
3792.1
3300.3
2965.5
2956.6
2930.0
2731.5
2384.9
2186.4
2103.4
2035.3
1887.2
1786.4
1670.9
1543.5
1395.4
1330.2
1036.9
699.2
497.7
370.3
183.7
0.0

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