

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: P944775

Luminaire Tested: **GALN-SB9D-850-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944775
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-SB9D-850-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 87846 lumens
Efficiency: N/A
Efficacy: 133.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B5 - U0 - G5

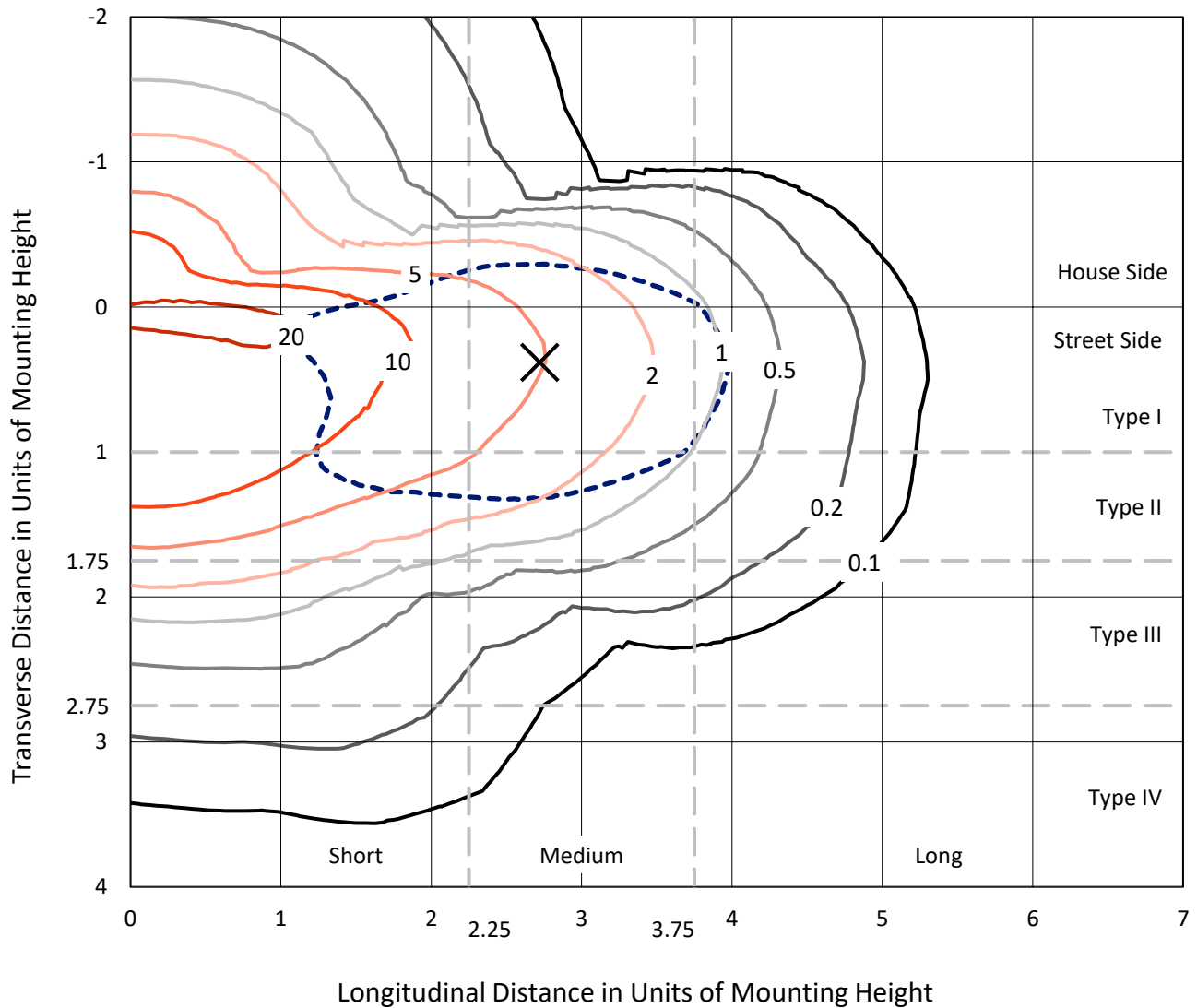
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

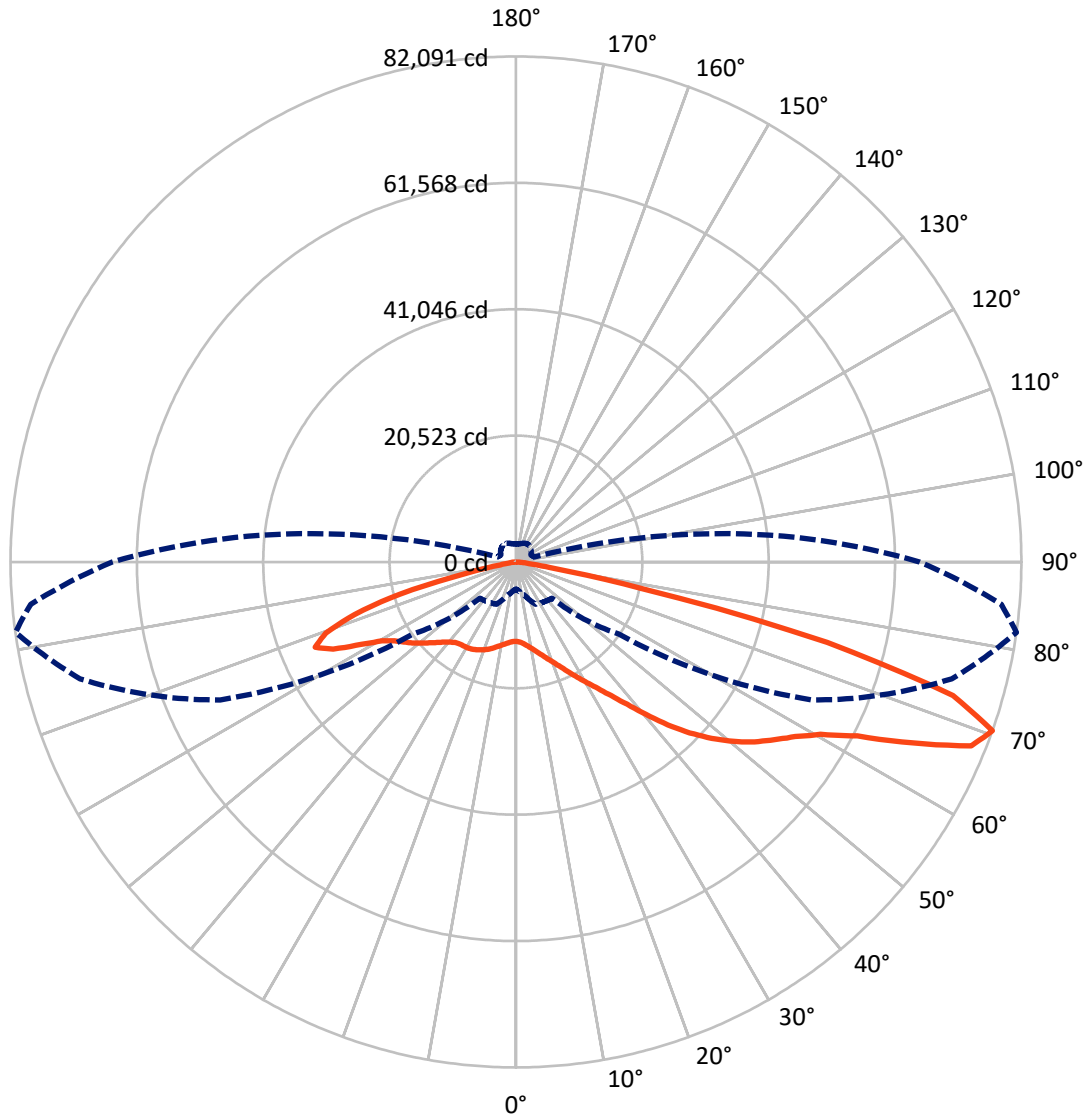
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.4 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	21656.2	0.0	21656.2
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	66189.8	0.0	66189.8
	% Fixture	75.3	0.0	75.3
Total	Lumens	87846.0	0.0	87846.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1216.0	1.4
10°-20°	3493.7	4.0
20°-30°	5844.7	6.7
30°-40°	9130.9	10.4
40°-50°	14542.0	16.6
50°-60°	20237.0	23.0
60°-70°	21168.8	24.1
70°-80°	11064.0	12.6
80°-90°	1148.9	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°	87846.0	100.0
0°-180°	87846.0	100.0

Coefficient of Utilization



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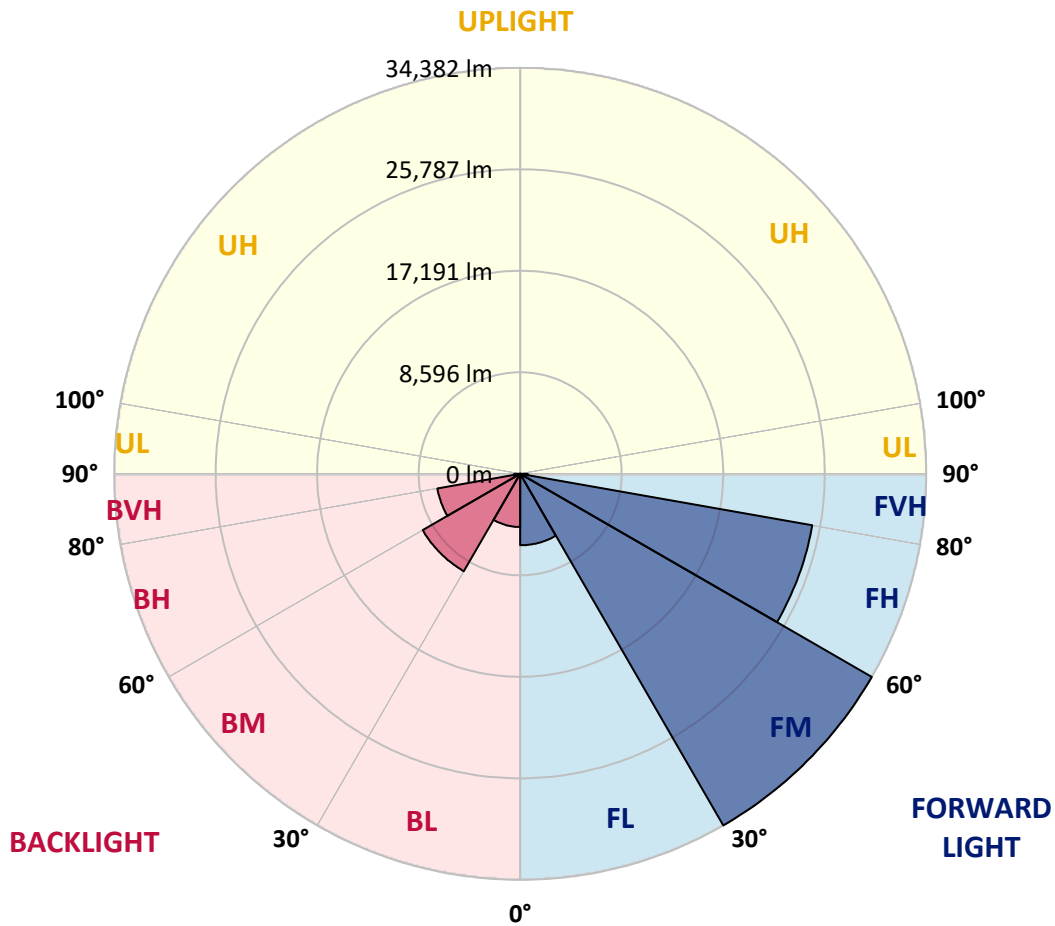
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6049.2	6.9			
FM (30°-60°)	34382.0	39.1			
FH (60°-80°)	25115.4	28.6			G5
FVH (80°-90°)	643.1	0.7			G4/750
BL (0°-30°)	4505.3	5.1	B4/5000		
BM (30°-60°)	9527.9	10.8	B5		
BH (60°-80°)	7117.3	8.1	B5		G5
BVH (80°-90°)	505.7	0.6			G4/750
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	12879.3	12879.3	12879.3	12879.3	12879.3	12879.3	12879.3	12879.3	12879.3	12879.3
2.5°	13187.0	13261.6	13238.2	13214.9	13214.9	13182.3	13177.6	13131.0	13093.7	13033.1
5°	13354.8	13434.0	13424.7	13443.3	13503.9	13517.9	13531.9	13503.9	13429.4	13354.8
7.5°	13205.6	13294.2	13322.2	13434.0	13620.5	13788.3	13914.1	13965.4	13895.5	13788.3
10°	12702.2	12800.1	12898.0	13163.7	13494.6	13890.8	14226.5	14426.9	14412.9	14310.4
12.5°	11681.4	11783.9	11993.7	12511.1	13117.1	13816.3	14440.9	14860.4	15004.9	14930.3
15°	10865.6	10954.2	11112.7	11644.1	12431.8	13494.6	14520.1	15335.9	15704.1	15662.2
17.5°	10842.3	10879.6	10977.5	11229.2	11835.2	12991.2	14436.2	15802.0	16505.9	16501.2
20°	11252.5	11266.5	11322.4	11373.7	11718.6	12609.0	14221.8	16188.9	17405.5	17405.5
22.5°	11821.2	11811.9	11867.8	11821.2	11989.0	12576.3	14086.6	16529.2	18407.7	18482.3
25°	12674.2	12627.6	12613.6	12506.4	12539.0	12879.3	14235.8	16916.1	19596.3	19750.2
27.5°	13811.6	13737.0	13685.7	13438.7	13354.8	13503.9	14692.6	17382.2	20920.2	21185.9
30°	15293.9	15158.7	15084.1	14655.3	14352.3	14375.6	15382.5	18002.2	22304.6	22733.4
32.5°	17316.9	17107.2	16906.7	16202.9	15648.2	15466.4	16272.8	18859.8	23805.5	24490.8
35°	19582.3	19414.5	19200.1	18114.0	17261.0	16841.5	17475.4	20057.8	25562.9	26649.0
37.5°	21763.9	21619.4	21721.9	20258.2	19158.2	18547.5	19051.0	21666.0	27730.4	29333.9
40°	24020.0	23908.1	23922.1	22523.7	21241.8	20556.6	20962.1	23684.3	30214.9	32526.9
42.5°	26471.8	26387.9	26108.2	24868.3	23428.0	22789.4	23162.3	26015.0	32881.2	36162.8
45°	29217.4	29166.1	28905.1	27483.3	25833.2	25115.4	25618.8	28588.1	35561.5	39584.2
47.5°	31590.0	31632.0	31599.3	30401.4	28690.6	27637.2	28238.5	31273.0	38055.3	42800.6
50°	32732.0	32951.1	33272.7	32899.8	31837.1	30764.9	30881.5	33864.7	40432.6	45816.5
52.5°	32135.4	32550.2	33426.6	34023.2	34433.4	34209.7	33897.4	36437.8	42670.0	48538.7
55°	29911.9	30494.6	31948.9	33389.3	35482.2	37109.0	37519.2	39290.6	44851.6	50934.6
57.5°	25861.2	26807.4	28112.6	31026.0	34550.0	38512.1	41742.4	43248.0	47163.6	53493.7
60°	18915.8	20183.7	21805.8	26140.9	31287.0	37761.6	45336.3	49326.5	50449.8	56807.9
62.5°	12105.5	12888.6	14380.3	18463.6	24378.9	33916.0	46436.4	56924.5	56020.2	62243.1
65°	8287.9	8791.3	10157.1	12450.5	15760.0	25245.9	43490.4	62620.6	64867.4	70857.2
67.5°	6022.5	6404.7	7570.0	9579.1	10269.0	14939.6	33748.2	62359.6	73467.6	79732.5
70°	4391.0	4661.4	5640.2	7570.0	7901.0	8311.2	20444.7	53008.9	73281.2	82091.1
72.5°	3253.6	3440.1	4097.3	5873.3	6395.4	5612.3	10119.8	38526.1	62970.2	74250.7
75°	2354.0	2493.8	2978.6	4493.5	5118.2	4274.5	5048.2	22514.3	43923.9	52230.5
77.5°	1799.3	1906.5	2223.5	3290.9	4097.3	3207.0	3132.4	10357.5	20826.9	20929.5
80°	1445.0	1514.9	1687.4	2316.7	3141.8	2400.6	2041.7	4181.2	6581.8	5570.3
82.5°	1062.8	1179.3	1426.4	1626.8	2246.8	1654.8	1244.6	2111.6	2503.1	2153.5
85°	606.0	685.2	862.4	1165.3	1435.7	1011.5	713.2	936.9	1165.3	955.6
87.5°	214.4	279.7	303.0	456.8	624.6	419.5	275.0	270.4	382.2	284.3
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°
12879.3	0°	12879.3	12879.3	12879.3	12879.3	12879.3	12879.3	12879.3	12879.3	12879.3	12879.3
13019.2	2.5°	12972.5	12949.2	12856.0	12730.2	12599.6	12473.8	12431.8	12343.3	12282.7	12250.0
13322.2	5°	13233.6	13159.0	12939.9	12660.2	12366.6	12049.6	11825.9	11620.8	11471.6	11331.8
13737.0	7.5°	13606.5	13476.0	13098.4	12609.0	12086.9	11560.2	11168.6	10870.3	10669.8	10539.3
14221.8	10°	14040.0	13839.6	13261.6	12529.7	11723.3	10968.2	10506.7	10250.3	10124.5	10054.5
14776.5	12.5°	14538.8	14254.4	13429.4	12347.9	11168.6	10306.3	9989.3	9914.7	9919.4	9924.0
15475.7	15°	15154.1	14757.8	13564.5	11951.7	10446.1	9798.2	9742.2	9863.4	9989.3	10049.9
16268.1	17.5°	15848.6	15289.2	13587.8	11299.1	9737.6	9471.9	9649.0	9910.0	10101.2	10185.1
17153.8	20°	16594.4	15830.0	13420.0	10376.2	9154.9	9206.2	9523.1	9858.8	10068.5	10175.7
18165.3	22.5°	17447.4	16408.0	13019.2	9406.6	8679.4	8917.2	9290.1	9616.4	9835.5	9942.7
19353.9	25°	18421.7	17055.9	12389.9	8590.9	8269.2	8590.9	8963.8	9234.1	9411.3	9509.2
20682.4	27.5°	19503.1	17731.8	11550.8	7942.9	7910.3	8255.3	8562.9	8772.7	8865.9	8940.5
22094.8	30°	20589.2	18347.1	10534.7	7453.5	7598.0	7924.3	8143.4	8236.6	8264.6	8278.6
23670.4	32.5°	21763.9	18878.5	9467.2	7048.0	7299.7	7602.7	7733.2	7775.1	7644.6	7556.1
25581.5	35°	23185.6	19447.2	8423.1	6726.3	7006.0	7267.1	7309.0	7271.7	7117.9	6936.1
27977.4	37.5°	24942.9	20155.7	7588.7	6497.9	6731.0	6903.5	6852.2	6842.9	6856.9	6642.4
30858.2	40°	27096.5	21078.6	6978.0	6320.8	6507.3	6544.5	6400.0	6479.3	6549.2	6222.9
34018.6	42.5°	29487.7	22192.7	6591.2	6199.6	6320.8	6232.2	6008.5	6097.1	6087.7	5658.9
37192.9	45°	31925.6	23404.7	6456.0	6111.0	6148.3	5971.2	5724.1	5747.4	5551.7	5164.8
40236.8	47.5°	34349.5	24705.2	6539.9	6036.5	5933.9	5733.5	5542.4	5439.8	5150.8	4861.8
43154.8	50°	36726.8	26071.0	6847.5	5887.3	5640.2	5523.7	5383.9	5202.1	4894.4	4647.4
45914.3	52.5°	38931.6	27446.1	7192.5	5640.2	5272.0	5341.9	5253.3	5043.6	4740.6	4488.9
48524.7	55°	41019.9	28821.2	7327.6	5300.0	4927.1	5183.4	5132.2	4745.3	4381.7	4176.6
51256.3	57.5°	43294.7	30475.9	7178.5	4866.5	4647.4	5001.6	4805.9	4377.0	4167.3	4013.4
54812.9	60°	46445.7	33072.3	6856.9	4330.4	4381.7	4731.3	4395.7	4218.5	3990.1	3817.6
60145.5	62.5°	51680.4	37915.5	6339.4	3799.0	4069.4	4330.4	4199.9	4022.7	3789.7	3621.9
69263.1	65°	59418.3	44646.5	5365.2	3384.1	3719.8	3938.8	3990.1	3813.0	3570.6	3393.5
77252.6	67.5°	65944.2	48869.6	4060.0	3039.2	3360.8	3621.9	3766.4	3593.9	3337.5	3165.1
79121.8	70°	65585.3	45802.5	3099.8	2698.9	3043.9	3309.6	3496.0	3360.8	3085.8	2922.7
71868.8	72.5°	58252.9	38316.3	2507.8	2354.0	2722.2	2983.3	3207.0	3104.5	2824.8	2666.3
52650.0	75°	42795.9	27199.0	2004.4	2004.4	2321.4	2643.0	2890.0	2824.8	2568.4	2456.5
22104.1	77.5°	18039.4	11411.0	1570.9	1664.1	1929.8	2270.1	2577.7	2601.0	2377.3	2517.1
5845.3	80°	4796.5	3146.4	1198.0	1309.8	1514.9	1873.9	2242.1	2232.8	1990.4	1859.9
2172.2	82.5°	1827.3	1239.9	853.0	922.9	1095.4	1435.7	1776.0	1831.9	1589.5	1375.1
853.0	85°	703.9	531.4	526.7	554.7	638.6	950.9	1342.5	1389.1	1198.0	1016.2
237.7	87.5°	181.8	158.5	195.8	186.5	293.7	508.1	769.1	797.1	731.8	424.2
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>
12879.3
12287.3
11387.7
10567.3
10073.2
9933.3
10045.2
10203.7
10203.7
9970.6
9537.1
8968.4
8311.2
7584.0
6945.4
6656.4
6232.2
5654.2
5178.8
4861.8
4628.7
4493.5
4157.9
3999.4
3808.3
3621.9
3402.8
3169.7
2936.7
2666.3
2423.9
2284.1
1729.4
1375.1
1048.8
606.0
0.0

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