

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: P944209

Luminaire Tested: **GALN-SB9A-750-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944209
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9A-750-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42724 lumens
Efficiency: N/A
Efficacy: 167.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

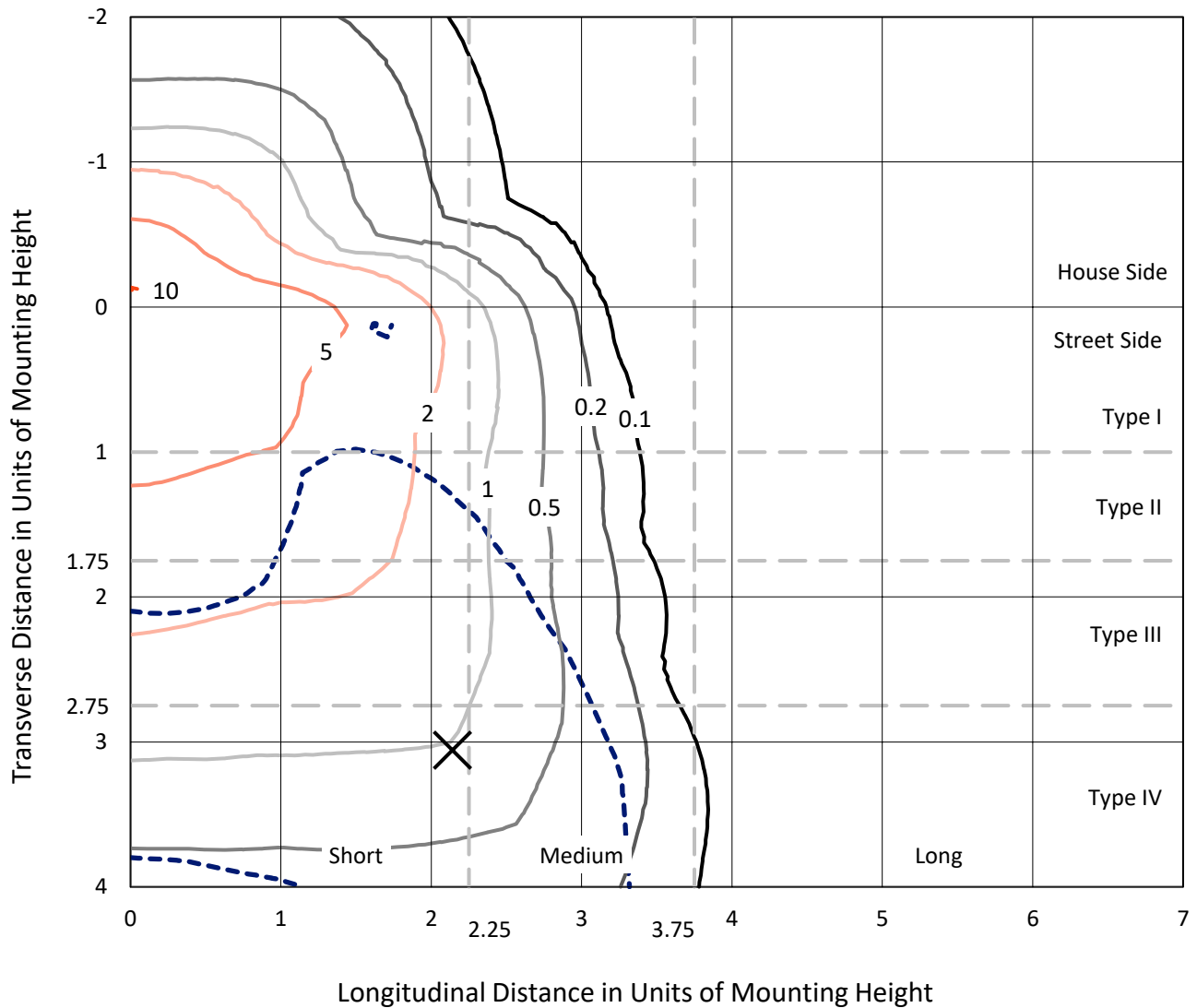
Input Watts (W): 255.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

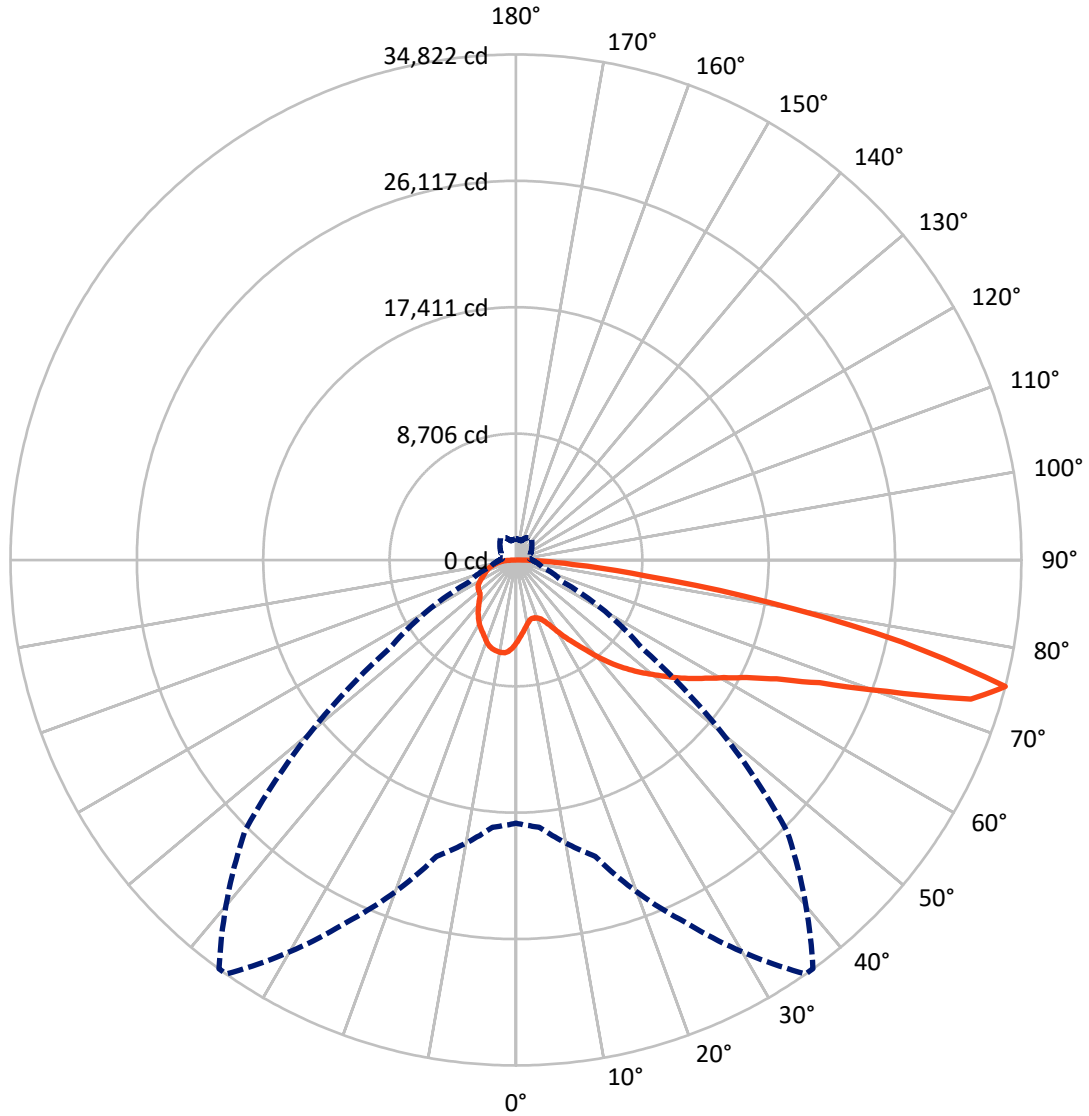
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10167.2	0.0	10167.2
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	32556.8	0.0	32556.8
	% Fixture	76.2	0.0	76.2
Total	Lumens	42724.0	0.0	42724.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	539.0	1.3
10°-20°	1554.8	3.6
20°-30°	2610.9	6.1
30°-40°	4057.8	9.5
40°-50°	6022.8	14.1
50°-60°	8314.9	19.5
60°-70°	10087.8	23.6
70°-80°	8336.8	19.5
80°-90°	1199.1	2.8
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°	42724.0	100.0
0°-180°	42724.0	100.0

Coefficient of Utilization



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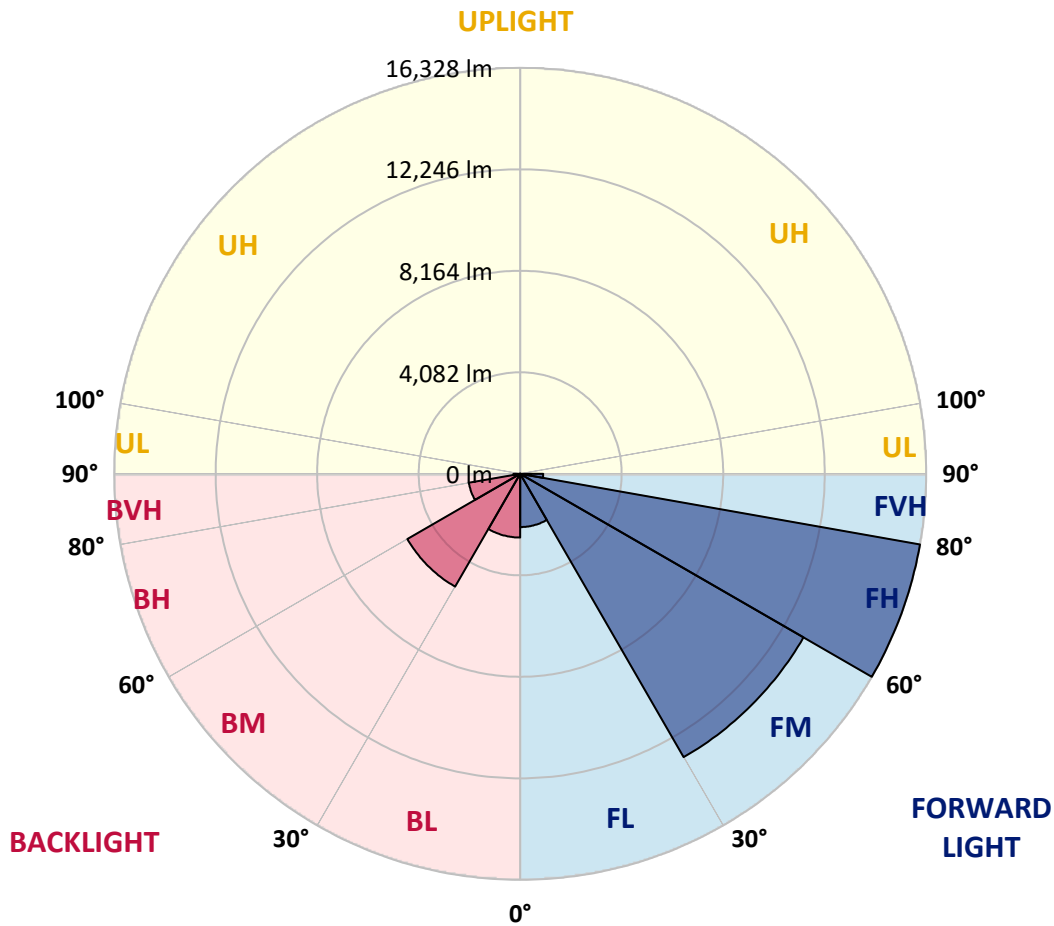
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2142.5	5.0			
FM (30°-60°)	13156.7	30.8			
FH (60°-80°)	16328.5	38.2			G5
FVH (80°-90°)	929.1	2.2			G5
BL (0°-30°)	2562.3	6.0	B4/5000		
BM (30°-60°)	5238.8	12.3	B4/8500		
BH (60°-80°)	2096.2	4.9	B3/2500		G3/2500
BVH (80°-90°)	270.0	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	5693.3	5693.3	5693.3	5693.3	5693.3	5693.3	5693.3	5693.3	5693.3	5693.3
2.5°	5249.8	5282.1	5296.0	5289.1	5323.7	5319.1	5367.6	5427.7	5510.8	5591.6
5°	4845.6	4880.3	4910.3	4938.0	5005.0	5025.8	5102.0	5217.5	5369.9	5524.7
7.5°	4469.2	4499.2	4545.4	4596.2	4709.4	4730.1	4857.2	5037.3	5249.8	5476.2
10°	4162.0	4192.0	4240.5	4298.2	4439.1	4464.5	4626.2	4866.4	5143.6	5430.0
12.5°	4030.3	4039.6	4067.3	4125.0	4247.4	4263.6	4441.4	4716.3	5039.6	5395.3
15°	4023.4	4041.9	4044.2	4074.2	4175.8	4182.8	4346.7	4619.3	4975.0	5388.4
17.5°	4092.7	4106.5	4085.8	4104.2	4189.7	4201.2	4330.6	4573.1	4954.2	5418.4
20°	4277.5	4289.0	4226.6	4201.2	4263.6	4272.8	4399.9	4603.1	4975.0	5480.8
22.5°	4670.1	4677.0	4524.6	4420.7	4425.3	4429.9	4540.8	4725.5	5055.8	5593.9
25°	5282.1	5277.5	5035.0	4834.1	4718.6	4693.2	4767.1	4924.2	5192.1	5744.1
27.5°	5998.1	5963.5	5721.0	5420.7	5169.0	5132.0	5115.9	5182.8	5386.1	5942.7
30°	6806.5	6774.2	6513.2	6120.5	5771.8	5711.7	5559.3	5524.7	5674.8	6212.9
32.5°	7693.4	7672.6	7360.8	6885.0	6418.5	6349.2	6092.8	6000.4	6118.2	6621.7
35°	8437.1	8418.6	8160.0	7670.3	7099.8	7014.4	6753.4	6649.5	6709.5	7146.0
37.5°	9109.2	9100.0	8878.3	8492.5	7903.6	7799.7	7506.3	7471.7	7460.1	7836.6
40°	9732.8	9709.7	9478.8	9275.5	8839.0	8744.3	8485.6	8455.6	8367.8	8686.6
42.5°	10423.4	10363.4	10028.5	9933.8	9816.0	9737.4	9582.7	9587.3	9393.3	9645.1
45°	10987.0	10952.3	10608.2	10552.7	10679.8	10647.4	10781.4	10816.0	10439.6	10649.7
47.5°	11592.1	11559.7	11268.7	11229.5	11573.6	11582.8	12056.3	12067.9	11460.4	11693.7
50°	12338.1	12291.9	12003.2	12051.7	12437.4	12472.1	13338.2	13259.6	12400.5	12753.8
52.5°	12830.0	12857.8	12795.4	12873.9	13400.5	13432.9	14599.2	14398.3	13331.2	13800.1
55°	13192.7	13248.1	13442.1	13622.3	14416.8	14449.1	15788.7	15481.5	14102.7	14770.1
57.5°	13659.2	13580.7	13943.3	14294.4	15382.2	15467.7	16945.8	16525.5	14786.3	15606.2
60°	14329.0	14273.6	14555.3	15075.0	16463.1	16599.4	18169.9	17465.5	15287.5	16269.1
62.5°	15687.1	15548.5	15592.4	16052.0	17825.8	18006.0	19551.1	18285.4	15536.9	16527.8
65°	17717.2	17479.4	17257.6	17576.4	19745.1	19923.0	21110.1	18929.8	15444.6	16026.6
67.5°	20274.0	20038.4	19765.9	20066.2	22572.1	22713.0	23034.0	19292.4	14717.0	14095.7
70°	22382.7	22295.0	22620.6	23856.3	27087.5	27092.1	25500.7	18992.2	12723.8	9993.8
72.5°	22103.3	22050.1	23766.2	27586.3	32778.4	32656.0	27835.8	16719.5	8571.1	4508.4
75°	18133.0	18477.1	21135.5	27519.4	34822.4	34806.3	26406.1	10629.0	3545.3	1868.5
77.5°	9723.6	10268.7	13721.6	20317.9	27184.5	27593.3	18564.9	3718.5	1522.1	1196.4
80°	3171.1	3646.9	5469.2	10344.9	17664.1	17587.9	7956.7	1459.7	1041.6	847.6
82.5°	1346.5	1402.0	2443.6	4884.9	9065.3	8924.4	2533.7	838.4	732.2	579.7
85°	526.6	589.0	1078.6	2258.8	3926.4	3840.9	914.6	415.7	468.9	378.8
87.5°	173.2	210.2	385.7	773.7	1221.8	1177.9	224.0	143.2	203.2	173.2
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°
5693.3	0°	5693.3	5693.3	5693.3	5693.3	5693.3	5693.3	5693.3	5693.3	5693.3	5693.3
5709.4	2.5°	5741.8	5778.7	5822.6	5887.3	5942.7	5988.9	6037.4	6067.4	6079.0	6113.6
5718.7	5°	5783.3	5864.2	5972.7	6079.0	6182.9	6245.3	6300.7	6328.4	6353.8	6372.3
5744.1	7.5°	5852.6	5956.6	6127.5	6266.1	6353.8	6404.6	6441.6	6432.3	6441.6	6446.2
5771.8	10°	5912.7	6058.2	6261.4	6393.1	6460.1	6462.4	6453.1	6420.8	6404.6	6406.9
5813.4	12.5°	5984.3	6146.0	6365.4	6476.2	6494.7	6443.9	6404.6	6349.2	6328.4	6319.2
5875.7	15°	6081.3	6266.1	6478.5	6520.1	6473.9	6409.3	6342.3	6252.2	6206.0	6169.0
5982.0	17.5°	6199.1	6402.3	6566.3	6536.3	6437.0	6330.7	6222.2	6085.9	5991.2	5951.9
6127.5	20°	6363.1	6545.5	6633.3	6501.6	6351.5	6189.8	6005.1	5838.8	5751.0	5711.7
6312.2	22.5°	6561.7	6737.2	6698.0	6441.6	6229.1	5970.4	5739.5	5617.0	5573.2	5545.4
6550.1	25°	6799.6	6949.7	6744.1	6353.8	6028.2	5679.4	5501.6	5462.3	5441.5	5420.7
6841.2	27.5°	7109.1	7189.9	6778.8	6224.5	5714.0	5369.9	5305.2	5312.2	5305.2	5270.6
7245.3	30°	7517.9	7501.7	6811.1	6014.3	5353.7	5090.4	5095.1	5125.1	5129.7	5106.6
7808.9	32.5°	8056.0	7892.0	6827.3	5741.8	5009.6	4845.6	4850.2	4882.6	4905.7	4866.4
8545.7	35°	8707.3	8347.0	6801.9	5399.9	4744.0	4612.4	4577.7	4586.9	4593.9	4556.9
9439.5	37.5°	9467.2	8857.5	6688.7	5021.2	4524.6	4383.7	4309.8	4247.4	4210.5	4175.8
10451.1	40°	10301.0	9414.1	6480.8	4651.6	4279.8	4141.2	4030.3	3912.5	3787.8	3741.6
11522.8	42.5°	11174.0	9986.9	6229.1	4298.2	3998.0	3884.8	3767.0	3596.1	3409.0	3314.3
12636.0	45°	12079.4	10573.5	5982.0	3949.5	3709.3	3660.8	3524.5	3319.0	3115.7	2995.6
13751.6	47.5°	12966.3	11127.8	5619.4	3598.4	3439.1	3492.2	3385.9	3196.5	2970.2	2780.8
14857.9	50°	13814.0	11647.5	5025.8	3242.7	3219.6	3441.4	3339.7	3067.2	2808.5	2566.0
15943.4	52.5°	14654.7	12067.9	4265.9	2919.4	3101.8	3427.5	3279.7	2979.4	2663.0	2409.0
16964.3	55°	15368.3	12285.0	3533.7	2642.2	2930.9	3309.7	3208.1	2875.5	2457.5	2187.2
17664.1	57.5°	15774.8	12109.4	2924.0	2369.7	2695.3	3115.7	3085.7	2653.8	2212.6	2004.8
17800.4	60°	15599.3	11398.1	2425.1	2131.8	2471.3	2905.5	2873.2	2434.4	2025.6	1829.2
17070.5	62.5°	14631.6	10042.3	2030.2	1923.9	2268.1	2690.7	2660.7	2265.8	1882.4	1693.0
15132.8	65°	12682.2	8169.2	1723.0	1750.7	2062.5	2432.1	2475.9	2124.9	1769.2	1584.4
11707.6	67.5°	9672.8	5917.3	1482.8	1600.6	1861.6	2178.0	2305.0	2023.2	1674.5	1499.0
6774.2	70°	5513.1	3360.5	1279.5	1455.1	1683.7	1942.4	2173.4	1942.4	1572.9	1427.4
2538.3	72.5°	2090.2	1542.8	1106.3	1309.6	1512.8	1743.8	2027.9	1815.4	1455.1	1346.5
1311.9	75°	1115.6	940.0	930.8	1138.7	1316.5	1549.8	1845.4	1690.7	1367.3	1422.7
907.7	77.5°	759.9	665.2	778.3	974.7	1101.7	1335.0	1651.4	1501.3	1184.8	1180.2
628.2	80°	526.6	471.2	632.8	785.3	852.3	1122.5	1441.2	1288.8	965.4	900.8
388.0	82.5°	316.4	307.2	473.5	586.6	602.8	866.1	1194.1	1080.9	789.9	688.3
231.0	85°	173.2	182.5	302.6	344.1	351.1	605.1	935.4	836.1	607.4	510.4
83.1	87.5°	48.5	62.4	110.9	136.3	168.6	314.1	556.6	496.6	304.9	212.5
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>
5693.3
6111.3
6376.9
6453.1
6411.6
6314.6
6180.6
5954.3
5707.1
5550.1
5420.7
5277.5
5118.2
4884.9
4582.3
4198.9
3762.4
3325.9
2986.4
2760.0
2545.2
2381.2
2164.1
1977.1
1801.5
1662.9
1554.4
1471.2
1408.9
1328.0
1468.9
1087.8
861.5
692.9
515.0
212.5
0.0

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