

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: P957324

Luminaire Tested: **GALN-SB9C-950-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957324
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9C-950-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47360 lumens
Efficiency: N/A
Efficacy: 105.3 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

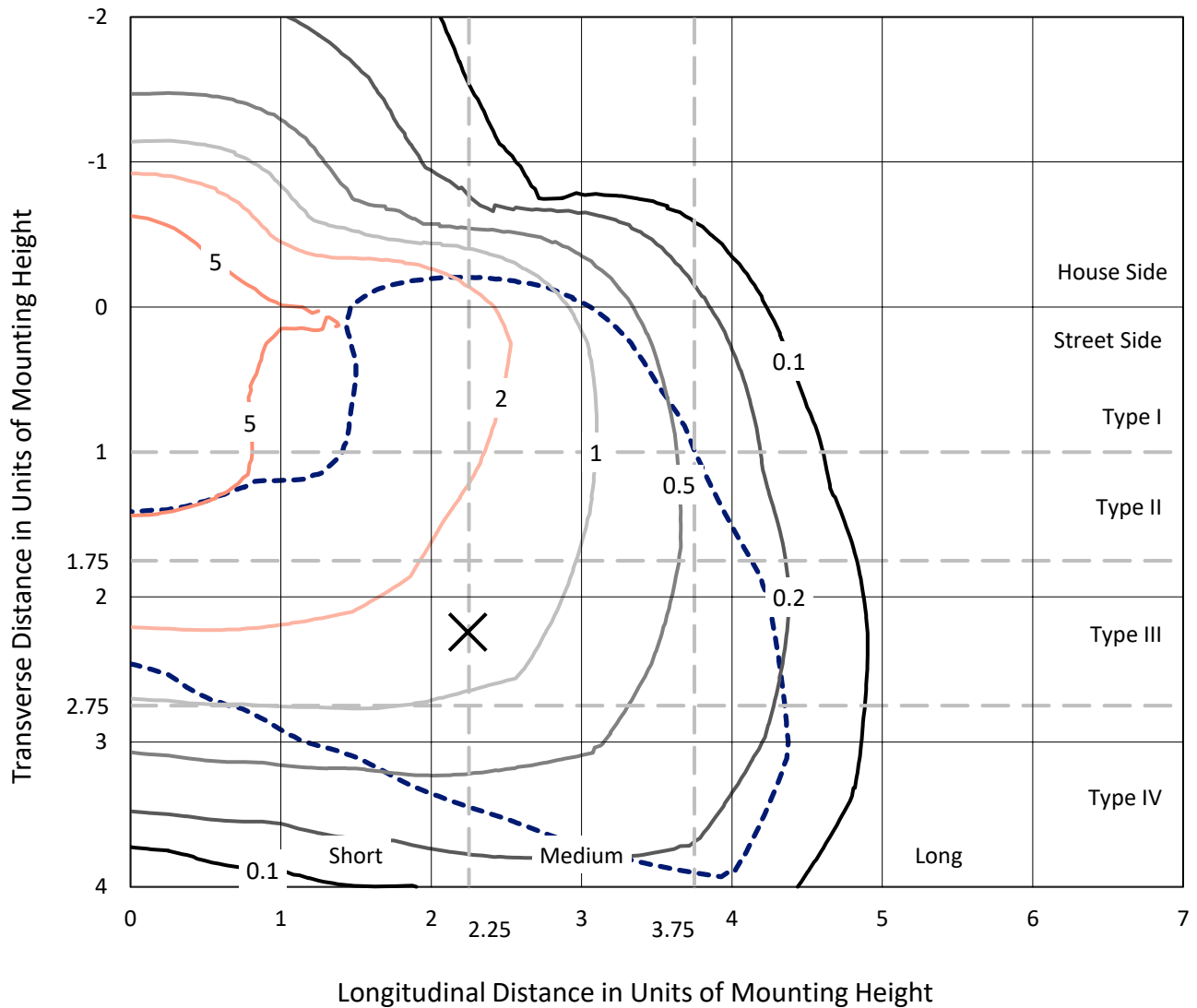
Input Watts (W): 449.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

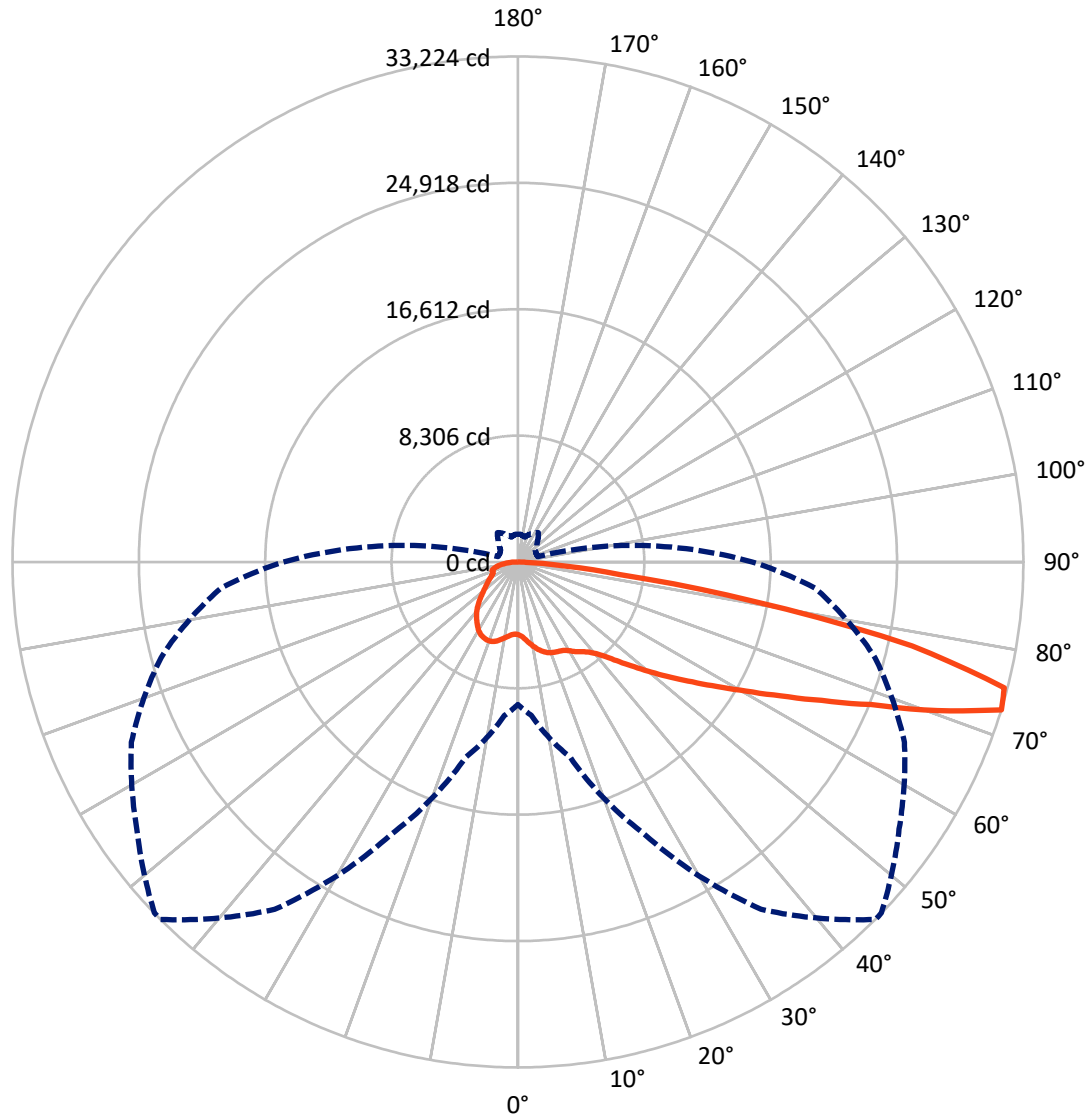
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10706.5	0.0	10706.5
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	36653.5	0.0	36653.5
	% Fixture	77.4	0.0	77.4
Total	Lumens	47360.0	0.0	47360.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	486.3	1.0
10°-20°	1621.3	3.4
20°-30°	2820.4	6.0
30°-40°	4043.1	8.5
40°-50°	5693.0	12.0
50°-60°	8720.0	18.4
60°-70°	12632.1	26.7
70°-80°	10087.5	21.3
80°-90°	1256.4	2.7
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°	47360.0	100.0
0°-180°	47360.0	100.0

Coefficient of Utilization



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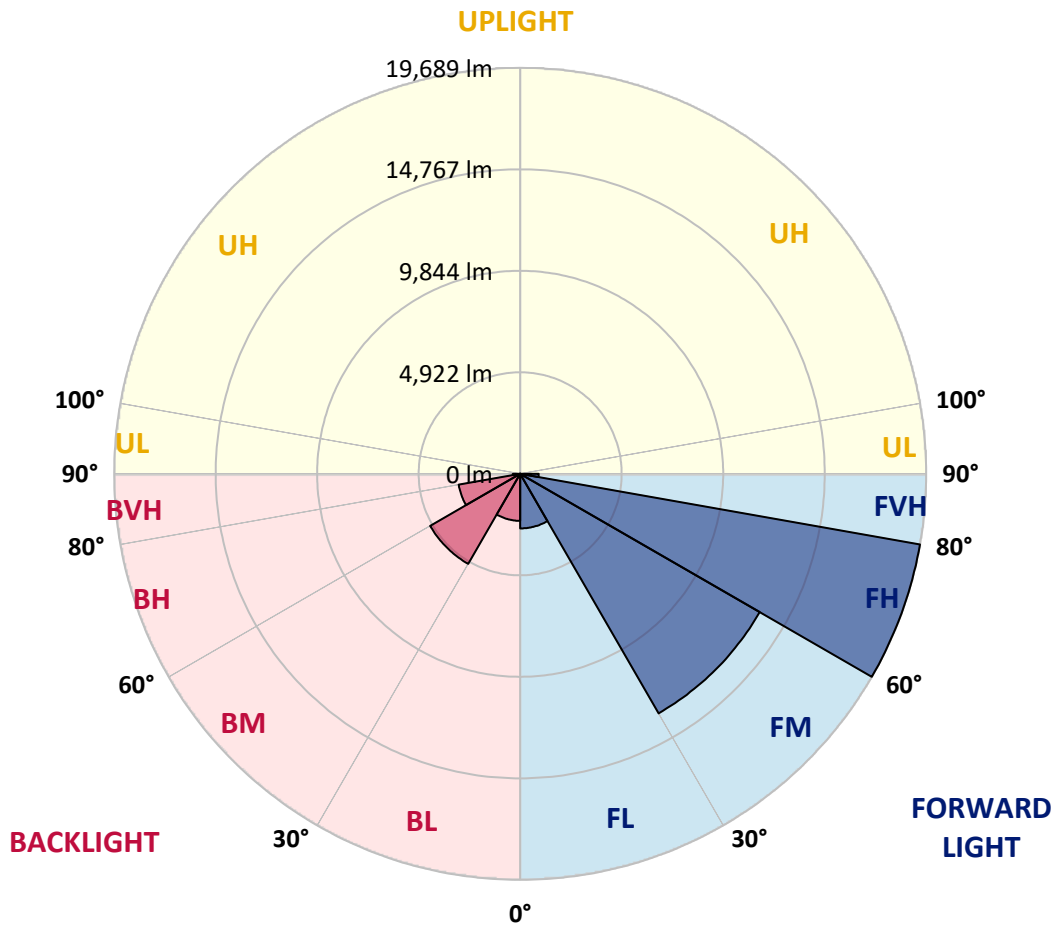
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2648.4	5.6			
FM (30°-60°)	13414.8	28.3			
FH (60°-80°)	19688.9	41.6			G5
FVH (80°-90°)	901.3	1.9			G5
BL (0°-30°)	2279.5	4.8	B3/2500		
BM (30°-60°)	5041.2	10.6	B4/8500		
BH (60°-80°)	3030.7	6.4	B4/5000		G4/5000
BVH (80°-90°)	355.0	0.7			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°	45°	46°	55°	65°	75°
0°	4777.7	4777.7	4777.7	4777.7	4777.7	4777.7	4777.7	4777.7	4777.7	4777.7
2.5°	4964.8	4997.3	4967.3	4939.9	4927.4	4895.0	4892.5	4872.5	4860.0	4825.1
5°	5311.6	5354.0	5304.1	5249.2	5199.3	5119.5	5109.5	5052.1	4987.3	4912.4
7.5°	5703.3	5740.7	5683.3	5601.0	5513.7	5381.5	5379.0	5274.2	5171.9	5044.7
10°	6045.1	6095.0	6017.7	5905.4	5795.6	5645.9	5628.5	5508.7	5379.0	5214.3
12.5°	6347.0	6381.9	6307.1	6169.8	6042.6	5892.9	5870.5	5738.2	5593.5	5406.4
15°	6586.5	6631.4	6531.6	6384.4	6249.7	6102.5	6082.5	5962.8	5818.1	5621.0
17.5°	6743.7	6781.1	6678.8	6514.1	6384.4	6262.2	6247.2	6147.4	6020.2	5820.6
20°	6803.5	6843.5	6736.2	6569.0	6449.3	6354.5	6347.0	6274.6	6187.3	6005.2
22.5°	6863.4	6900.8	6761.1	6586.5	6481.7	6421.8	6419.3	6371.9	6337.0	6187.3
25°	7105.4	7115.4	6928.3	6676.3	6526.6	6474.2	6471.7	6469.2	6484.2	6366.9
27.5°	7315.0	7312.5	7152.8	6915.8	6683.8	6574.0	6571.5	6596.5	6643.9	6546.6
30°	7621.9	7594.4	7404.8	7157.8	6945.8	6776.1	6761.1	6738.7	6776.1	6698.8
32.5°	8273.0	8185.7	7878.8	7439.7	7162.8	7033.1	7013.1	6873.4	6888.4	6841.0
35°	9206.1	9091.4	8682.2	7973.6	7432.3	7247.6	7237.7	7060.5	7030.6	6988.2
37.5°	10316.3	10174.1	9697.6	8747.1	7896.3	7497.1	7482.2	7322.5	7200.2	7155.3
40°	11431.6	11251.9	10857.7	9690.1	8579.9	7913.8	7866.4	7624.4	7484.7	7409.8
42.5°	12514.3	12364.6	12027.8	10748.0	9423.2	8522.5	8417.7	8003.6	7898.8	7828.9
45°	13472.4	13337.6	13090.7	11878.1	10411.1	9350.8	9248.5	8572.4	8540.0	8540.0
47.5°	14250.8	14220.8	13958.9	13030.8	11576.3	10293.9	10116.8	9363.3	9450.6	9585.3
50°	15114.0	15031.7	14752.2	14165.9	12946.0	11374.2	11229.5	10333.8	10660.6	11029.9
52.5°	15907.4	15952.3	15640.4	15348.5	14492.8	12579.2	12324.7	11479.0	12185.0	12796.3
55°	16723.2	16725.7	16638.4	16598.5	16114.5	13911.5	13632.0	12856.1	13978.8	14737.3
57.5°	17489.1	17494.1	17623.9	17975.6	17995.6	15448.3	15131.5	14547.7	15972.2	16745.7
60°	18172.7	18207.7	18561.9	19385.2	19649.7	17209.7	16910.3	16546.1	18033.0	18811.4
62.5°	18402.3	18529.5	19317.9	20488.0	21283.9	19370.3	19075.9	18858.8	20198.6	20922.1
65°	18013.1	18305.0	19829.3	21398.6	22965.4	21937.5	21645.6	21408.6	22449.0	23130.1
67.5°	17057.5	17434.2	19799.4	22354.2	25006.2	25026.2	24754.2	24197.9	24861.5	25123.5
70°	14540.2	15104.0	18055.5	22710.9	27348.9	29250.0	28988.1	27556.0	27269.1	26001.7
72.5°	9368.3	10126.7	13295.2	19774.4	27870.3	33224.4	33209.4	30587.3	28030.0	24295.2
75°	3418.0	3882.0	6177.3	12412.0	23394.5	33022.3	33119.6	30068.3	25587.5	18766.5
77.5°	1244.9	1362.2	2015.9	4770.2	14388.0	26495.7	26697.8	24038.2	18212.7	9418.2
80°	653.7	718.5	1032.9	1851.2	6164.9	15735.2	16052.1	14285.7	8559.9	2836.7
82.5°	361.8	391.7	578.8	1005.4	2776.8	6728.7	6918.3	5643.4	3011.3	1202.5
85°	194.6	207.1	271.9	548.9	1357.2	2332.7	2385.1	1686.5	1200.0	706.1
87.5°	57.4	69.9	89.8	174.6	531.4	523.9	536.4	334.3	474.0	356.8
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°
4777.7	0°	4777.7	4777.7	4777.7	4777.7	4777.7	4777.7	4777.7	4777.7	4777.7	4777.7
4815.1	2.5°	4800.2	4792.7	4765.2	4752.8	4737.8	4735.3	4747.8	4750.3	4752.8	4755.2
4870.0	5°	4845.1	4820.1	4795.2	4780.2	4785.2	4787.7	4812.6	4830.1	4842.6	4852.5
4972.3	7.5°	4932.4	4912.4	4870.0	4867.5	4875.0	4897.5	4929.9	4969.8	4992.3	5009.7
5104.5	10°	5062.1	5024.7	4974.8	4982.3	4997.3	5029.7	5097.0	5129.5	5166.9	5199.3
5266.7	12.5°	5194.3	5161.9	5104.5	5109.5	5134.5	5191.9	5256.7	5296.6	5321.6	5346.5
5441.3	15°	5366.5	5309.1	5246.7	5246.7	5291.6	5354.0	5384.0	5416.4	5431.4	5458.8
5628.5	17.5°	5543.6	5468.8	5386.5	5381.5	5436.4	5466.3	5483.8	5488.7	5493.7	5523.7
5810.6	20°	5720.8	5638.4	5521.2	5511.2	5523.7	5518.7	5516.2	5511.2	5518.7	5556.1
5997.7	22.5°	5895.4	5800.6	5638.4	5593.5	5558.6	5511.2	5508.7	5506.2	5511.2	5548.6
6199.8	25°	6100.0	5985.2	5768.2	5633.4	5516.2	5451.3	5458.8	5461.3	5466.3	5496.2
6409.4	27.5°	6322.0	6194.8	5887.9	5621.0	5408.9	5364.0	5351.5	5359.0	5376.5	5423.9
6618.9	30°	6544.1	6394.4	5997.7	5571.1	5274.2	5211.8	5171.9	5189.4	5244.2	5291.6
6801.1	32.5°	6746.2	6596.5	6085.0	5461.3	5102.0	5004.7	4952.3	4974.8	5029.7	5047.1
7003.1	35°	6983.2	6813.5	6122.4	5286.7	4914.9	4765.2	4695.4	4662.9	4690.4	4672.9
7240.2	37.5°	7247.6	7070.5	6117.5	5057.1	4695.4	4523.2	4425.9	4303.7	4246.3	4186.4
7589.4	40°	7639.3	7384.9	6057.6	4780.2	4423.4	4266.3	4091.6	3884.5	3754.8	3637.5
8153.3	42.5°	8173.2	7821.5	5947.8	4475.8	4116.6	3969.4	3732.3	3490.3	3285.8	3091.2
9009.0	45°	8969.1	8392.8	5810.6	4151.5	3784.7	3640.0	3383.1	3111.1	2879.1	2629.6
10224.0	47.5°	10116.8	9161.2	5680.9	3782.2	3435.5	3303.2	3071.2	2819.2	2544.8	2302.8
11980.4	50°	11693.5	10264.0	5561.1	3423.0	3091.2	2991.4	2806.7	2549.8	2272.8	2078.2
14038.7	52.5°	13699.4	11763.4	5511.2	3076.2	2769.3	2731.9	2584.7	2345.2	2083.2	1918.6
16438.8	55°	16002.2	13557.2	5511.2	2744.4	2487.4	2499.9	2397.6	2175.5	1948.5	1801.3
18913.7	57.5°	18352.4	15373.5	5411.4	2437.5	2247.9	2300.3	2235.4	2040.8	1836.2	1684.0
21515.9	60°	20517.9	16895.4	5007.2	2158.1	2035.8	2118.2	2075.7	1908.6	1659.1	1531.9
23691.4	62.5°	22182.0	17753.6	4228.8	1936.0	1861.2	1956.0	1933.5	1733.9	1626.7	1574.3
25477.8	65°	23015.3	17613.9	3233.4	1738.9	1714.0	1861.2	1813.8	1806.3	1721.5	1661.6
26059.1	67.5°	22503.9	16411.3	2345.2	1594.2	1629.2	1773.9	1956.0	1985.9	1828.7	1711.5
24422.4	70°	20261.0	14235.8	1746.4	1457.0	1521.9	1776.4	2230.4	2078.2	1793.8	1656.6
19587.3	72.5°	15413.4	10615.7	1354.7	1312.3	1382.2	1788.8	2352.7	2035.8	1694.0	1831.2
12202.5	75°	8814.4	5828.0	1087.8	1135.2	1207.5	1671.6	2290.3	1926.1	1616.7	1681.6
4835.1	77.5°	3360.6	2240.4	898.2	960.5	970.5	1459.5	2190.5	1918.6	1539.3	1501.9
1449.5	80°	1165.1	875.7	743.5	763.4	751.0	1297.3	2100.7	1669.1	1259.9	1127.7
598.8	82.5°	476.5	436.6	588.8	563.8	533.9	1007.9	1696.5	1364.7	1030.4	910.6
289.4	85°	207.1	276.9	389.2	341.8	309.4	698.6	1359.7	1155.1	870.7	751.0
94.8	87.5°	42.4	104.8	164.7	154.7	159.7	466.5	965.5	820.8	616.2	461.6
0.0	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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180°
4777.7
4765.2
4857.5
5014.7
5191.9
5356.5
5468.8
5533.7
5571.1
5573.6
5536.1
5471.3
5344.0
5109.5
4727.8
4223.8
3645.0
3073.7
2599.7
2275.3
2065.8
1906.1
1786.3
1659.1
1511.9
1556.8
1641.6
1691.5
1634.1
1816.3
1681.6
1369.7
1090.3
900.7
748.5
361.8
0.0

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