

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: P953376

Luminaire Tested: **GALN-SB6D-940-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953376
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-SB6D-940-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44629 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

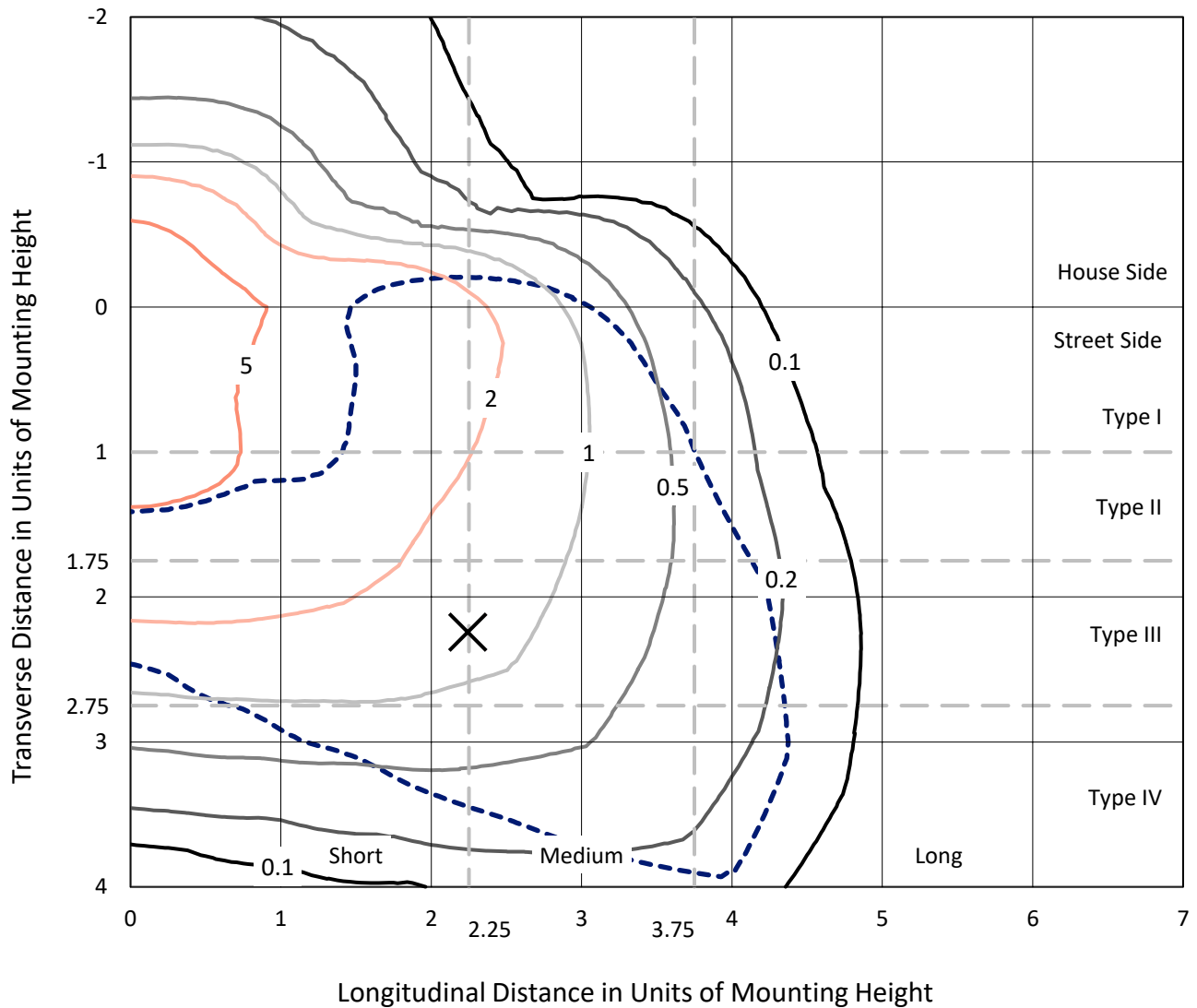
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

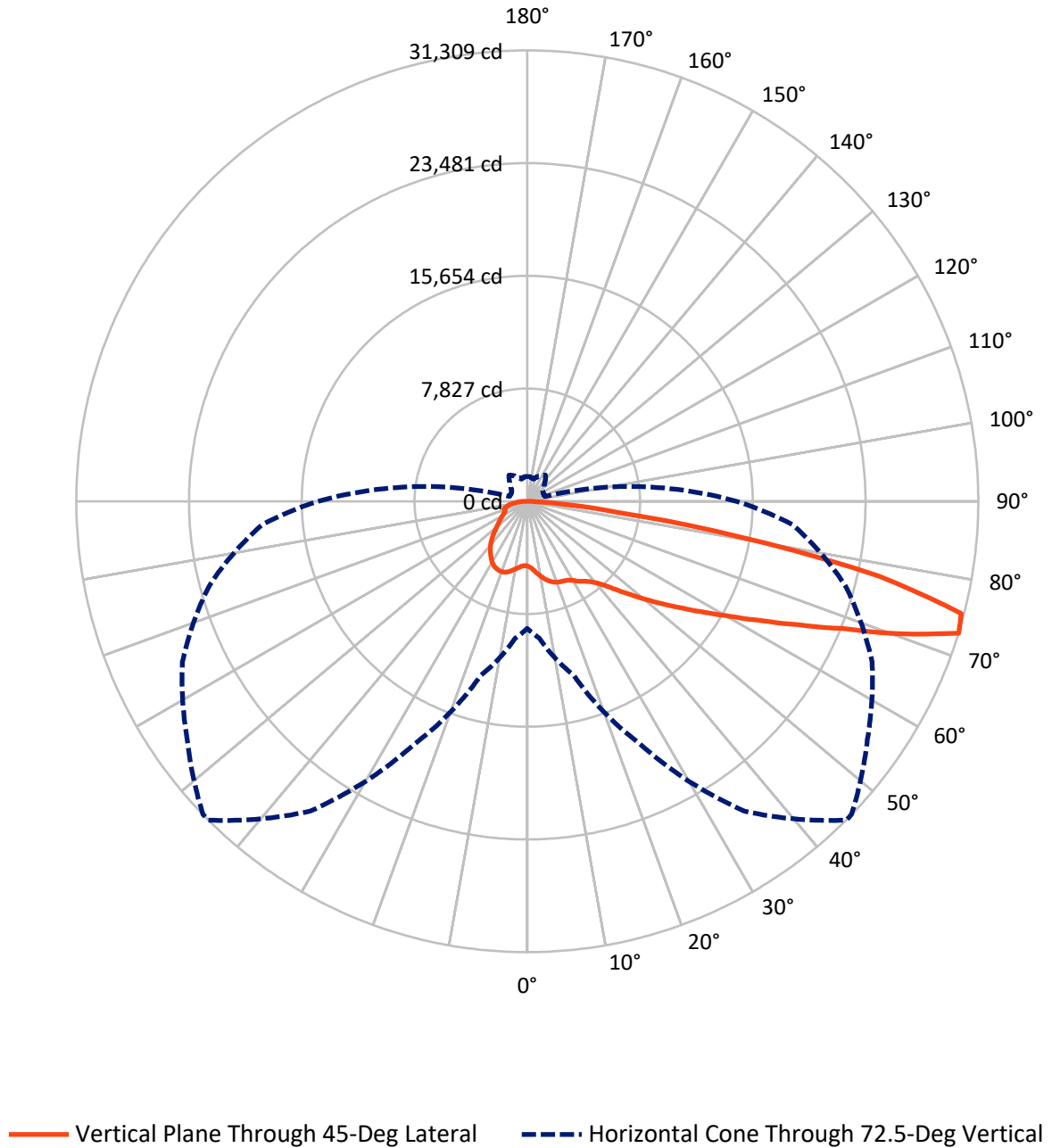
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10089.1	0.0	10089.1
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	34539.9	0.0	34539.9
	% Fixture	77.4	0.0	77.4
Total	Lumens	44629.0	0.0	44629.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	458.2	1.0
10°-20°	1527.8	3.4
20°-30°	2657.7	6.0
30°-40°	3810.0	8.5
40°-50°	5364.7	12.0
50°-60°	8217.1	18.4
60°-70°	11903.7	26.7
70°-80°	9505.8	21.3
80°-90°	1183.9	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°	44629.0	100.0
0°-180°	44629.0	100.0



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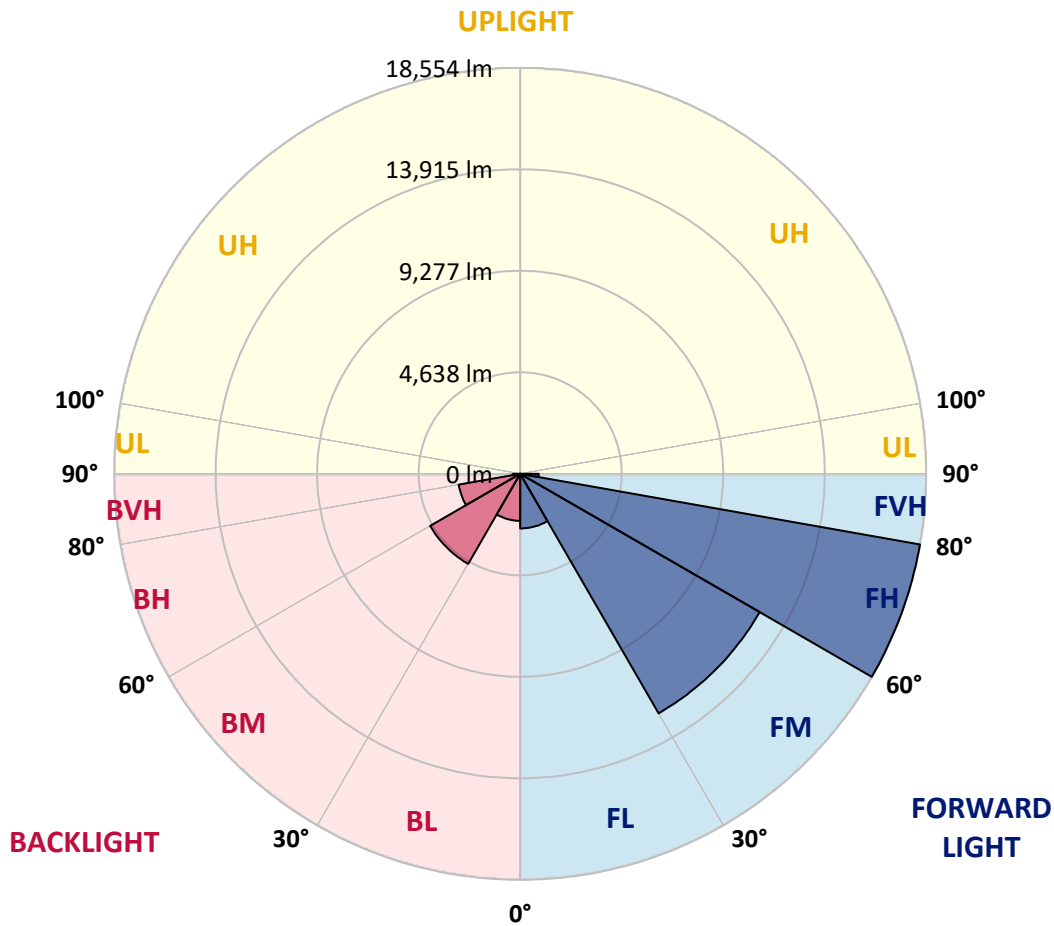
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2495.7	5.6			
FM (30°-60°)	12641.3	28.3			
FH (60°-80°)	18553.6	41.6			G5
FVH (80°-90°)	849.4	1.9			G5
BL (0°-30°)	2148.0	4.8	B3/2500		
BM (30°-60°)	4750.5	10.6	B3/5000		
BH (60°-80°)	2856.0	6.4	B4/5000		G4/5000
BVH (80°-90°)	334.6	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°	4502.2	4502.2	4502.2	4502.2	4502.2	4502.2	4502.2	4502.2	4502.2	4502.2
2.5°	4678.5	4709.1	4680.9	4655.0	4643.3	4612.7	4610.3	4591.5	4579.8	4546.9
5°	5005.3	5045.3	4998.3	4946.5	4899.5	4824.3	4814.9	4760.8	4699.7	4629.2
7.5°	5374.4	5409.7	5355.6	5278.0	5195.7	5071.1	5068.8	4970.0	4873.7	4753.8
10°	5696.5	5743.5	5670.7	5564.9	5461.4	5320.4	5303.9	5191.0	5068.8	4913.6
12.5°	5981.0	6013.9	5943.4	5814.1	5694.2	5553.1	5531.9	5407.3	5271.0	5094.7
15°	6206.7	6249.0	6155.0	6016.3	5889.3	5750.6	5731.8	5618.9	5482.6	5296.8
17.5°	6354.8	6390.1	6293.7	6138.5	6016.3	5901.1	5886.9	5792.9	5673.0	5484.9
20°	6411.2	6448.8	6347.7	6190.2	6077.4	5988.0	5981.0	5912.8	5830.5	5658.9
22.5°	6467.6	6502.9	6371.3	6206.7	6107.9	6051.5	6049.2	6004.5	5971.6	5830.5
25°	6695.7	6705.1	6528.8	6291.3	6150.3	6100.9	6098.5	6096.2	6110.3	5999.8
27.5°	6893.2	6890.8	6740.4	6517.0	6298.4	6194.9	6192.6	6216.1	6260.8	6169.1
30°	7182.4	7156.5	6977.8	6745.1	6545.2	6385.4	6371.3	6350.1	6385.4	6312.5
32.5°	7796.0	7713.7	7424.5	7010.7	6749.8	6627.5	6608.7	6477.1	6491.2	6446.5
35°	8675.3	8567.1	8181.5	7513.9	7003.7	6829.7	6820.3	6653.4	6625.2	6585.2
37.5°	9721.5	9587.4	9138.4	8242.7	7441.0	7064.8	7050.7	6900.2	6785.0	6742.7
40°	10772.4	10603.1	10231.6	9131.3	8085.1	7457.4	7412.8	7184.7	7053.1	6982.5
42.5°	11792.7	11651.6	11334.3	10128.2	8879.8	8031.1	7932.3	7542.1	7443.3	7377.5
45°	12695.5	12568.5	12335.8	11193.2	9810.8	8811.6	8715.2	8078.1	8047.5	8047.5
47.5°	13429.0	13400.8	13153.9	12279.4	10908.7	9700.3	9533.4	8823.4	8905.7	9032.6
50°	14242.5	14164.9	13901.6	13349.1	12199.4	10718.3	10581.9	9737.9	10045.9	10393.8
52.5°	14990.1	15032.4	14738.5	14463.5	13657.1	11853.8	11614.0	10817.0	11482.4	12058.4
55°	15758.9	15761.2	15678.9	15641.3	15185.2	13109.3	12846.0	12114.8	13172.7	13887.5
57.5°	16480.6	16485.3	16607.6	16939.1	16957.9	14557.5	14258.9	13708.8	15051.2	15780.0
60°	17124.8	17157.7	17491.6	18267.4	18516.6	16217.3	15935.2	15591.9	16993.2	17726.7
62.5°	17341.1	17461.0	18203.9	19306.6	20056.5	18253.3	17975.9	17771.3	19033.8	19715.6
65°	16974.3	17249.4	18685.9	20164.7	21641.1	20672.5	20397.4	20174.1	21154.5	21796.3
67.5°	16073.9	16428.9	18657.7	21065.1	23564.2	23583.1	23326.8	22802.5	23427.9	23674.7
70°	13701.7	14233.1	17014.3	21401.3	25771.8	27563.3	27316.5	25967.0	25696.6	24502.3
72.5°	8828.1	9542.8	12528.6	18634.2	26263.2	31308.5	31294.4	28823.5	26413.7	22894.2
75°	3220.9	3658.2	5821.1	11696.3	22045.5	31118.1	31209.8	28334.5	24112.0	17684.3
77.5°	1173.2	1283.7	1899.6	4495.1	13558.3	24967.8	25158.2	22652.0	17162.4	8875.1
80°	616.0	677.1	973.3	1744.5	5809.4	14827.9	15126.4	13461.9	8066.3	2673.1
82.5°	340.9	369.1	545.4	947.5	2616.7	6340.7	6519.4	5318.0	2837.7	1133.2
85°	183.4	195.1	256.3	517.2	1279.0	2198.2	2247.6	1589.3	1130.8	665.3
87.5°	54.1	65.8	84.6	164.6	500.8	493.7	505.5	315.0	446.7	336.2
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°
4502.2	0°	4502.2	4502.2	4502.2	4502.2	4502.2	4502.2	4502.2	4502.2	4502.2	4502.2
4537.5	2.5°	4523.4	4516.3	4490.4	4478.7	4464.6	4462.2	4474.0	4476.3	4478.7	4481.0
4589.2	5°	4565.7	4542.2	4518.7	4504.5	4509.3	4511.6	4535.1	4551.6	4563.3	4572.7
4685.6	7.5°	4648.0	4629.2	4589.2	4586.8	4593.9	4615.0	4645.6	4683.2	4704.4	4720.8
4810.2	10°	4770.2	4734.9	4687.9	4695.0	4709.1	4739.7	4803.1	4833.7	4869.0	4899.5
4963.0	12.5°	4894.8	4864.3	4810.2	4814.9	4838.4	4892.5	4953.6	4991.2	5014.7	5038.2
5127.6	15°	5057.0	5003.0	4944.2	4944.2	4986.5	5045.3	5073.5	5104.1	5118.2	5144.0
5303.9	17.5°	5224.0	5153.4	5075.8	5071.1	5122.9	5151.1	5167.5	5172.2	5176.9	5205.2
5475.5	20°	5390.9	5313.3	5202.8	5193.4	5205.2	5200.4	5198.1	5193.4	5200.4	5235.7
5651.8	22.5°	5555.5	5466.1	5313.3	5271.0	5238.1	5193.4	5191.0	5188.7	5193.4	5228.7
5842.3	25°	5748.2	5640.1	5435.6	5308.6	5198.1	5137.0	5144.0	5146.4	5151.1	5179.3
6039.8	27.5°	5957.5	5837.6	5548.4	5296.8	5097.0	5054.7	5042.9	5050.0	5066.4	5111.1
6237.2	30°	6166.7	6025.7	5651.8	5249.8	4970.0	4911.3	4873.7	4890.1	4941.8	4986.5
6408.9	32.5°	6357.1	6216.1	5734.1	5146.4	4807.8	4716.1	4666.8	4687.9	4739.7	4756.1
6599.3	35°	6580.5	6420.6	5769.4	4981.8	4631.5	4490.4	4424.6	4394.1	4419.9	4403.5
6822.7	37.5°	6829.7	6662.8	5764.7	4765.5	4424.6	4262.4	4170.7	4055.5	4001.4	3945.0
7151.8	40°	7198.8	6959.0	5708.3	4504.5	4168.4	4020.2	3855.7	3660.5	3538.3	3427.8
7683.1	42.5°	7701.9	7370.4	5604.8	4217.7	3879.2	3740.5	3517.1	3289.1	3096.3	2912.9
8489.5	45°	8451.9	7908.8	5475.5	3912.1	3566.5	3430.1	3188.0	2931.7	2713.1	2478.0
9634.5	47.5°	9533.4	8632.9	5353.3	3564.1	3237.4	3112.7	2894.1	2656.6	2398.0	2170.0
11289.6	50°	11019.2	9672.1	5240.4	3225.6	2912.9	2818.9	2644.9	2402.7	2141.8	1958.4
13229.2	52.5°	12909.4	11085.0	5193.4	2898.8	2609.6	2574.4	2435.7	2210.0	1963.1	1807.9
15490.9	55°	15079.4	12775.4	5193.4	2586.1	2344.0	2355.7	2259.3	2050.1	1836.1	1697.4
17823.1	57.5°	17294.1	14487.0	5099.4	2296.9	2118.3	2167.6	2106.5	1923.1	1730.3	1586.9
20275.2	60°	19334.8	15921.1	4718.5	2033.6	1918.4	1996.0	1956.0	1798.5	1563.4	1443.5
22325.3	62.5°	20902.9	16729.8	3985.0	1824.4	1753.9	1843.2	1822.0	1634.0	1532.9	1483.5
24008.6	65°	21688.1	16598.2	3046.9	1638.7	1615.1	1753.9	1709.2	1702.1	1622.2	1565.8
24556.4	67.5°	21206.2	15465.0	2210.0	1502.3	1535.2	1671.6	1843.2	1871.4	1723.3	1612.8
23014.1	70°	19092.6	13414.9	1645.7	1373.0	1434.1	1673.9	2101.8	1958.4	1690.4	1561.1
18457.8	72.5°	14524.6	10003.6	1276.6	1236.6	1302.5	1685.7	2217.0	1918.4	1596.3	1725.6
11498.8	75°	8306.1	5492.0	1025.0	1069.7	1137.9	1575.2	2158.2	1815.0	1523.5	1584.6
4556.3	77.5°	3166.8	2111.2	846.4	905.1	914.5	1375.3	2064.2	1807.9	1450.6	1415.3
1365.9	80°	1097.9	825.2	700.6	719.4	707.7	1222.5	1979.6	1572.8	1187.3	1062.7
564.2	82.5°	449.0	411.4	554.8	531.3	503.1	949.8	1598.7	1286.0	971.0	858.1
272.7	85°	195.1	261.0	366.8	322.1	291.5	658.3	1281.3	1088.5	820.5	707.7
89.3	87.5°	40.0	98.7	155.2	145.8	150.5	439.6	909.8	773.5	580.7	434.9
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°
4502.2
4490.4
4577.4
4725.5
4892.5
5047.6
5153.4
5214.6
5249.8
5252.2
5216.9
5155.8
5035.9
4814.9
4455.2
3980.3
3434.8
2896.5
2449.8
2144.1
1946.6
1796.2
1683.3
1563.4
1424.7
1467.0
1547.0
1594.0
1539.9
1711.5
1584.6
1290.7
1027.4
848.7
705.3
340.9
0.0

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