

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: P944815

Luminaire Tested: **GALN-SB9D-940-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944815
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-940-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 66550 lumens
Efficiency: N/A
Efficacy: 101.1 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

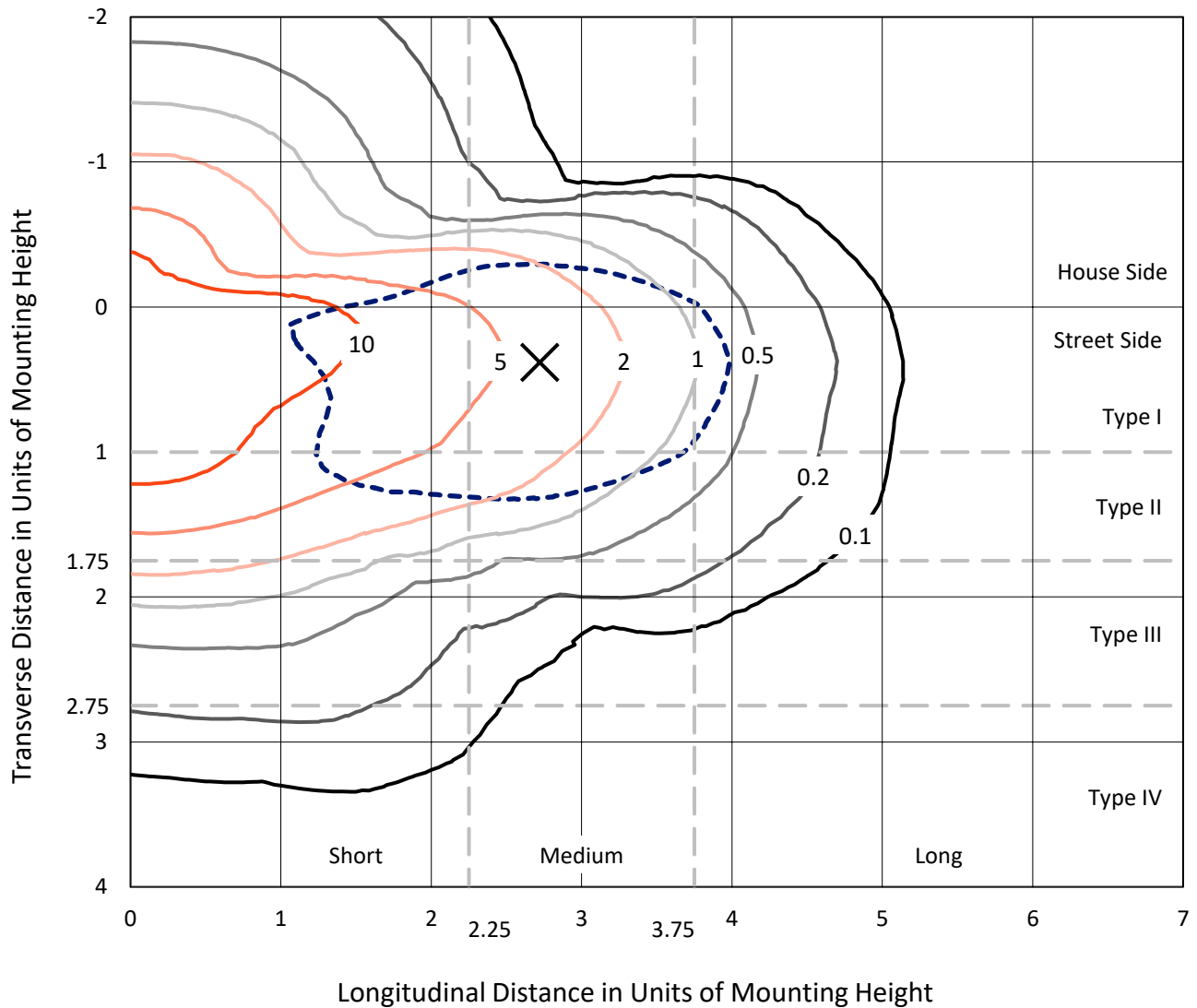
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

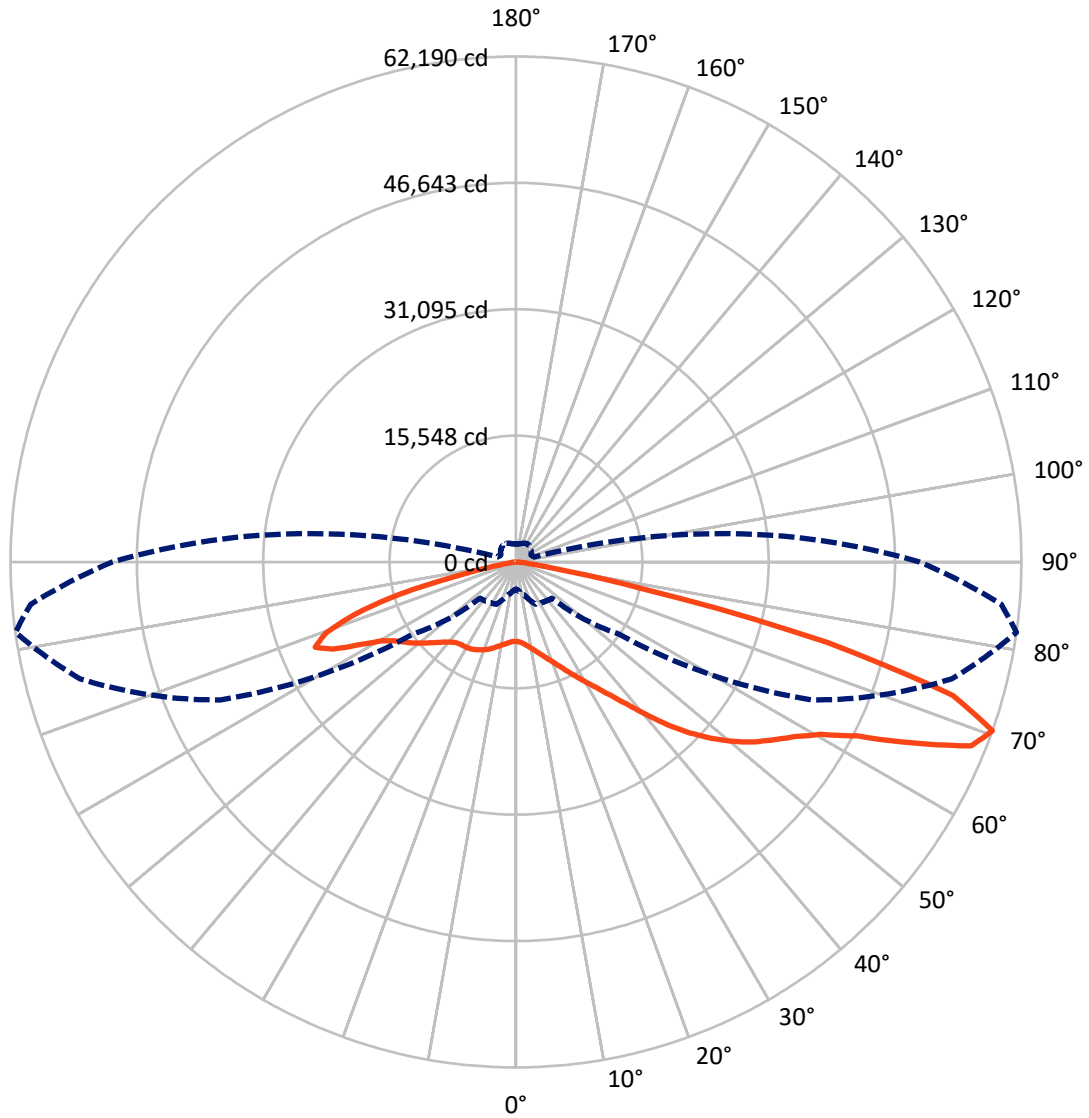
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.7 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	16406.2	0.0	16406.2
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	50143.8	0.0	50143.8
	% Fixture	75.3	0.0	75.3
Total	Lumens	66550.0	0.0	66550.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	921.2	1.4
10°-20°	2646.8	4.0
20°-30°	4427.8	6.7
30°-40°	6917.4	10.4
40°-50°	11016.7	16.6
50°-60°	15331.1	23.0
60°-70°	16037.0	24.1
70°-80°	8381.8	12.6
80°-90°	870.3	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°	66550.0	100.0
0°-180°	66550.0	100.0

Coefficient of Utilization



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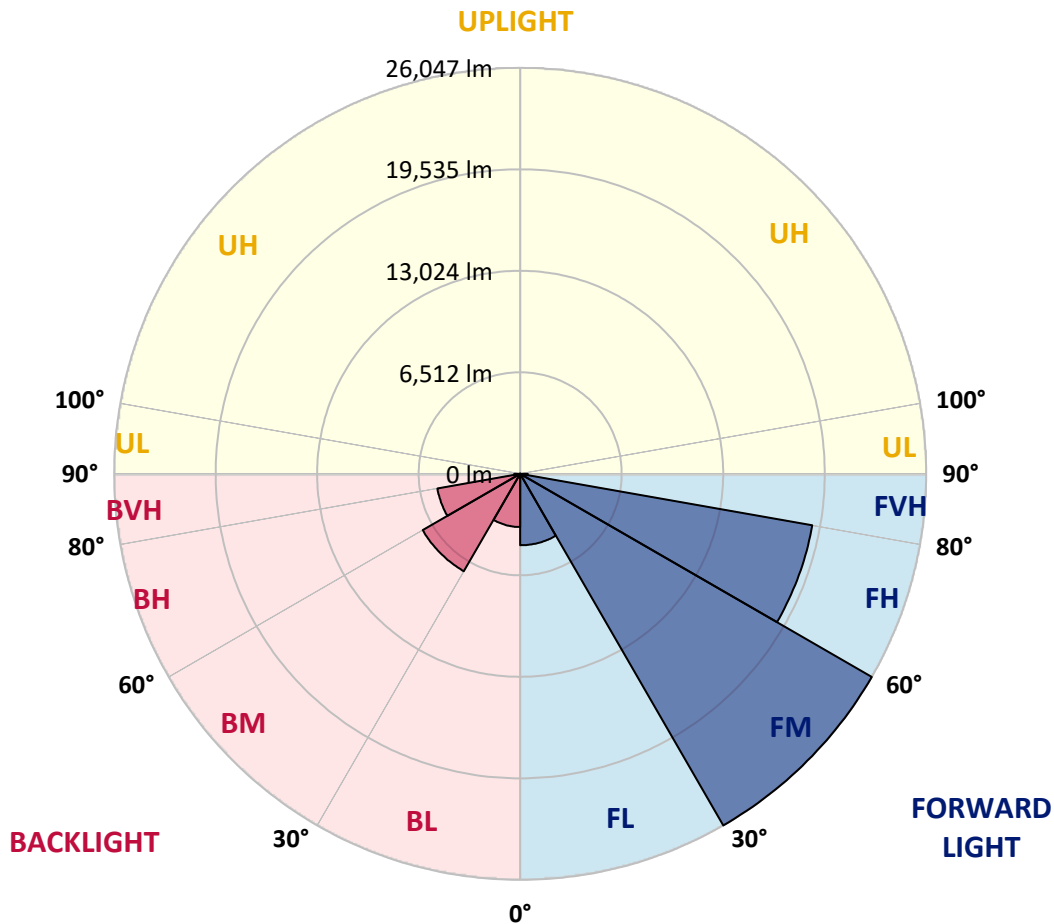
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4582.7	6.9			
FM (30°-60°)	26047.0	39.1			
FH (60°-80°)	19026.9	28.6			G5
FVH (80°-90°)	487.2	0.7			G3/500
BL (0°-30°)	3413.1	5.1	B4/5000		
BM (30°-60°)	7218.1	10.8	B4/8500		
BH (60°-80°)	5391.9	8.1	B5		G5
BVH (80°-90°)	383.1	0.6			G3/500
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°	9757.1	9757.1	9757.1	9757.1	9757.1	9757.1	9757.1	9757.1	9757.1	9757.1
2.5°	9990.1	10046.6	10029.0	10011.3	10011.3	9986.6	9983.1	9947.8	9919.5	9873.6
5°	10117.3	10177.3	10170.2	10184.4	10230.3	10240.9	10251.4	10230.3	10173.8	10117.3
7.5°	10004.3	10071.4	10092.5	10177.3	10318.5	10445.7	10541.0	10579.9	10526.9	10445.7
10°	9622.9	9697.0	9771.2	9972.5	10223.2	10523.4	10777.6	10929.5	10918.9	10841.2
12.5°	8849.5	8927.2	9086.1	9478.1	9937.2	10466.9	10940.1	11257.9	11367.3	11310.8
15°	8231.5	8298.6	8418.7	8821.3	9418.1	10223.2	11000.1	11618.1	11897.0	11865.3
17.5°	8213.9	8242.1	8316.3	8507.0	8966.0	9841.8	10936.5	11971.2	12504.4	12500.9
20°	8524.6	8535.2	8577.6	8616.4	8877.8	9552.2	10774.1	12264.3	13186.0	13186.0
22.5°	8955.5	8948.4	8990.8	8955.5	9082.6	9527.5	10671.7	12522.1	13945.2	14001.7
25°	9601.7	9566.4	9555.8	9474.6	9499.3	9757.1	10784.7	12815.2	14845.7	14962.2
27.5°	10463.3	10406.8	10368.0	10180.8	10117.3	10230.3	11130.7	13168.3	15848.6	16049.9
30°	11586.3	11483.9	11427.4	11102.5	10873.0	10890.6	11653.4	13638.0	16897.4	17222.3
32.5°	13118.9	12960.0	12808.1	12274.9	11854.7	11716.9	12327.9	14287.8	18034.5	18553.6
35°	14835.1	14708.0	14545.5	13722.7	13076.5	12758.7	13239.0	15195.3	19365.8	20188.6
37.5°	16487.8	16378.3	16456.0	15347.2	14513.8	14051.2	14432.5	16413.6	21007.9	22222.7
40°	18196.9	18112.2	18122.8	17063.4	16092.3	15573.2	15880.4	17942.7	22890.1	24641.6
42.5°	20054.4	19990.9	19779.0	18839.6	17748.5	17264.7	17547.2	19708.3	24910.0	27396.1
45°	22134.4	22095.5	21897.8	20820.7	19570.6	19026.8	19408.2	21657.6	26940.5	29988.0
47.5°	23931.8	23963.6	23938.9	23031.3	21735.3	20937.2	21392.8	23691.7	28829.8	32424.7
50°	24797.0	24963.0	25206.6	24924.1	24119.0	23306.8	23395.1	25655.1	30630.7	34709.4
52.5°	24345.0	24659.3	25323.2	25775.2	26085.9	25916.4	25679.8	27604.4	32325.8	36771.7
55°	22660.5	23102.0	24203.7	25294.9	26880.5	28112.9	28423.7	29765.6	33978.4	38586.8
57.5°	19591.8	20308.7	21297.4	23504.5	26174.2	29175.8	31623.1	32763.7	35730.0	40525.5
60°	14330.1	15290.7	16519.6	19803.7	23702.3	28607.3	34345.7	37368.5	38219.6	43036.3
62.5°	9170.9	9764.1	10894.2	13987.6	18468.9	25694.0	35179.1	43124.6	42439.5	47153.8
65°	6278.7	6660.1	7694.8	9432.2	11939.4	19125.7	32947.3	47439.9	49142.0	53679.7
67.5°	4562.5	4852.0	5734.9	7256.9	7779.5	11317.9	25566.8	47242.1	55657.3	60403.4
70°	3326.5	3531.3	4272.9	5734.9	5985.6	6296.4	15488.4	40158.3	55516.0	62190.2
72.5°	2464.9	2606.1	3104.0	4449.5	4845.0	4251.7	7666.5	29186.4	47704.7	56250.5
75°	1783.3	1889.3	2256.5	3404.2	3877.4	3238.2	3824.4	17056.3	33275.7	39568.5
77.5°	1363.1	1444.3	1684.4	2493.1	3104.0	2429.6	2373.1	7846.6	15778.0	15855.7
80°	1094.7	1147.7	1278.3	1755.1	2380.1	1818.6	1546.7	3167.6	4986.2	4219.9
82.5°	805.1	893.4	1080.6	1232.4	1702.1	1253.6	942.9	1599.7	1896.3	1631.5
85°	459.1	519.1	653.3	882.8	1087.6	766.3	540.3	709.8	882.8	723.9
87.5°	162.4	211.9	229.5	346.1	473.2	317.8	208.3	204.8	289.6	215.4
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°
9757.1	0°	9757.1	9757.1	9757.1	9757.1	9757.1	9757.1	9757.1	9757.1	9757.1	9757.1
9863.0	2.5°	9827.7	9810.0	9739.4	9644.1	9545.2	9449.8	9418.1	9351.0	9305.1	9280.3
10092.5	5°	10025.4	9968.9	9803.0	9591.1	9368.6	9128.5	8959.0	8803.6	8690.6	8584.7
10406.8	7.5°	10307.9	10209.1	9923.0	9552.2	9156.7	8757.7	8461.1	8235.1	8083.2	7984.3
10774.1	10°	10636.4	10484.5	10046.6	9492.2	8881.3	8309.2	7959.6	7765.4	7670.0	7617.1
11194.3	12.5°	11014.2	10798.8	10173.8	9354.5	8461.1	7807.8	7567.6	7511.1	7514.7	7518.2
11724.0	15°	11480.4	11180.2	10276.2	9054.3	7913.7	7422.9	7380.5	7472.3	7567.6	7613.5
12324.3	17.5°	12006.5	11582.8	10293.8	8559.9	7376.9	7175.7	7309.9	7507.6	7652.4	7716.0
12995.3	20°	12571.5	11992.4	10166.7	7860.7	6935.5	6974.4	7214.5	7468.8	7627.7	7708.9
13761.6	22.5°	13217.8	12430.3	9863.0	7126.2	6575.3	6755.4	7037.9	7285.1	7451.1	7532.3
14662.1	25°	13955.8	12921.1	9386.3	6508.2	6264.6	6508.2	6790.7	6995.6	7129.8	7203.9
15668.5	27.5°	14775.1	13433.2	8750.6	6017.4	5992.7	6254.0	6487.1	6646.0	6716.6	6773.1
16738.5	30°	15597.9	13899.3	7980.8	5646.6	5756.1	6003.3	6169.2	6239.9	6261.0	6271.6
17932.1	32.5°	16487.8	14301.9	7172.1	5339.4	5530.1	5759.6	5858.5	5890.3	5791.4	5724.3
19379.9	35°	17564.8	14732.7	6381.1	5095.7	5307.6	5505.3	5537.1	5508.9	5392.3	5254.6
21195.0	37.5°	18896.1	15269.5	5749.0	4922.7	5099.2	5229.9	5191.1	5184.0	5194.6	5032.1
23377.4	40°	20527.6	15968.7	5286.4	4788.5	4929.7	4958.0	4848.5	4908.5	4961.5	4714.3
25771.6	42.5°	22339.2	16812.7	4993.3	4696.7	4788.5	4721.4	4551.9	4619.0	4611.9	4287.0
28176.5	45°	24186.1	17730.8	4890.9	4629.6	4657.8	4523.6	4336.5	4354.1	4205.8	3912.7
30482.4	47.5°	26022.4	18716.0	4954.5	4573.1	4495.4	4343.5	4198.8	4121.1	3902.1	3683.2
32693.0	50°	27823.3	19750.7	5187.5	4460.1	4272.9	4184.6	4078.7	3941.0	3707.9	3520.7
34783.6	52.5°	29493.7	20792.5	5448.8	4272.9	3993.9	4046.9	3979.8	3820.9	3591.4	3400.7
36761.1	55°	31075.7	21834.2	5551.2	4015.1	3732.6	3926.8	3888.0	3594.9	3319.4	3164.1
38830.5	57.5°	32799.0	23087.8	5438.2	3686.7	3520.7	3789.1	3640.8	3315.9	3157.0	3040.5
41524.9	60°	35186.2	25054.8	5194.6	3280.6	3319.4	3584.3	3330.0	3195.9	3022.8	2892.2
45564.7	62.5°	39151.8	28723.8	4802.6	2878.0	3082.9	3280.6	3181.7	3047.5	2871.0	2743.8
52472.0	65°	45013.9	33823.1	4064.6	2563.7	2818.0	2984.0	3022.8	2888.6	2705.0	2570.8
58524.7	67.5°	49957.7	37022.5	3075.8	2302.4	2546.1	2743.8	2853.3	2722.7	2528.4	2397.8
59940.8	70°	49685.8	34698.8	2348.3	2044.6	2306.0	2507.2	2648.5	2546.1	2337.7	2214.1
54446.0	72.5°	44131.0	29027.5	1899.9	1783.3	2062.3	2260.1	2429.6	2351.9	2140.0	2019.9
39886.4	75°	32421.1	20605.3	1518.5	1518.5	1758.6	2002.3	2189.4	2140.0	1945.8	1861.0
16745.6	77.5°	13666.2	8644.7	1190.1	1260.7	1462.0	1719.8	1952.8	1970.5	1801.0	1906.9
4428.3	80°	3633.7	2383.6	907.6	992.3	1147.7	1419.6	1698.6	1691.5	1507.9	1409.0
1645.6	82.5°	1384.3	939.3	646.2	699.2	829.9	1087.6	1345.4	1387.8	1204.2	1041.7
646.2	85°	533.2	402.6	399.0	420.2	483.8	720.4	1017.0	1052.3	907.6	769.8
180.1	87.5°	137.7	120.1	148.3	141.3	222.5	384.9	582.7	603.9	554.4	321.4
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°
9757.1
9308.6
8627.0
8005.5
7631.2
7525.3
7610.0
7730.1
7730.1
7553.5
7225.1
6794.3
6296.4
5745.5
5261.7
5042.7
4721.4
4283.5
3923.3
3683.2
3506.6
3404.2
3149.9
3029.9
2885.1
2743.8
2577.9
2401.3
2224.7
2019.9
1836.3
1730.4
1310.1
1041.7
794.5
459.1
0.0

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