

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: P944565

Luminaire Tested: **GALN-SB9C-827-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944565
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-SB9C-827-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 58773 lumens
Efficiency: N/A
Efficacy: 130.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

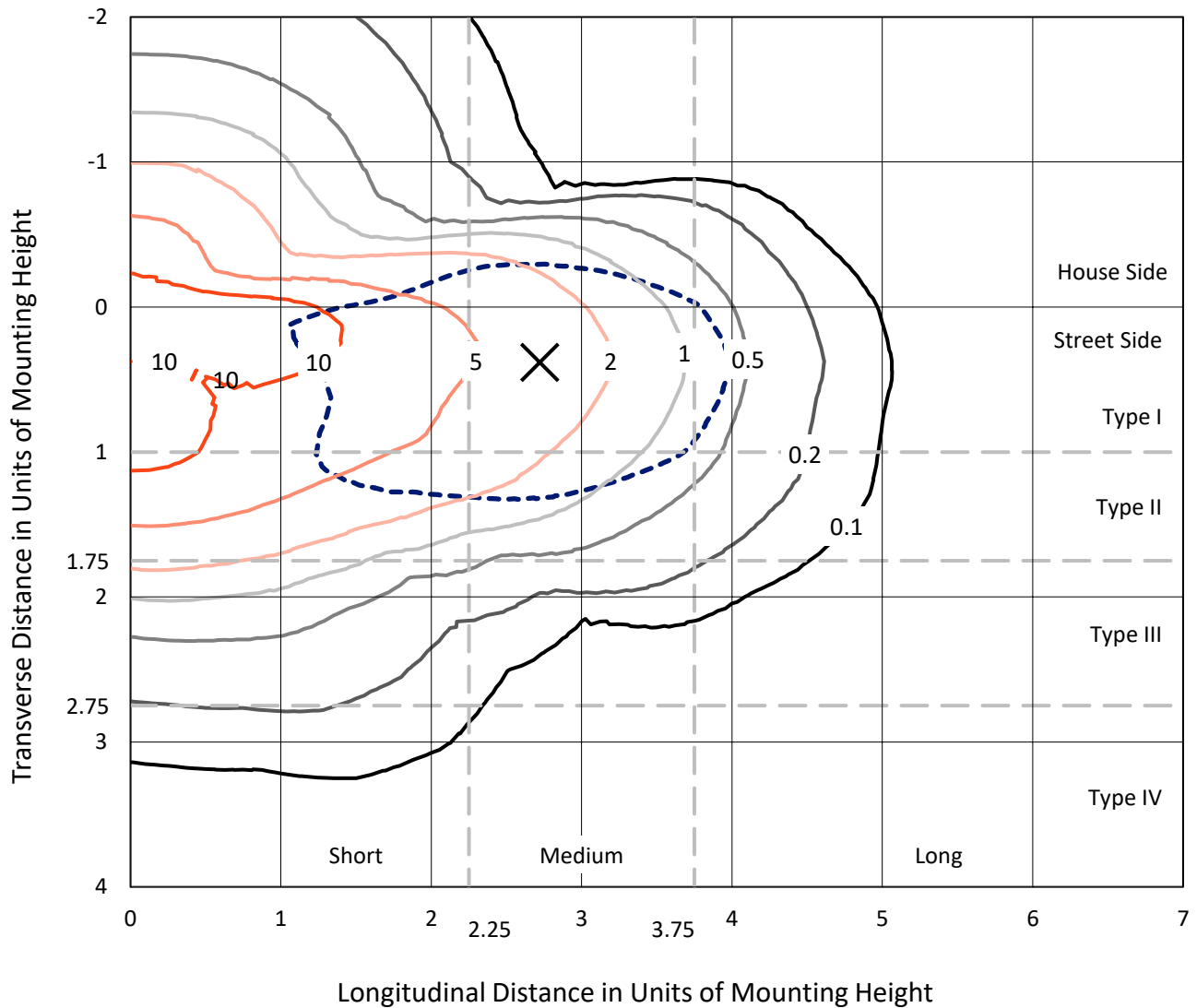
Input Watts (W): 449.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P944565
 CATALOG NUMBER: GALN-SB9C-827-U-T2

Iso-Footcandle Lines of Horizontal Illumination

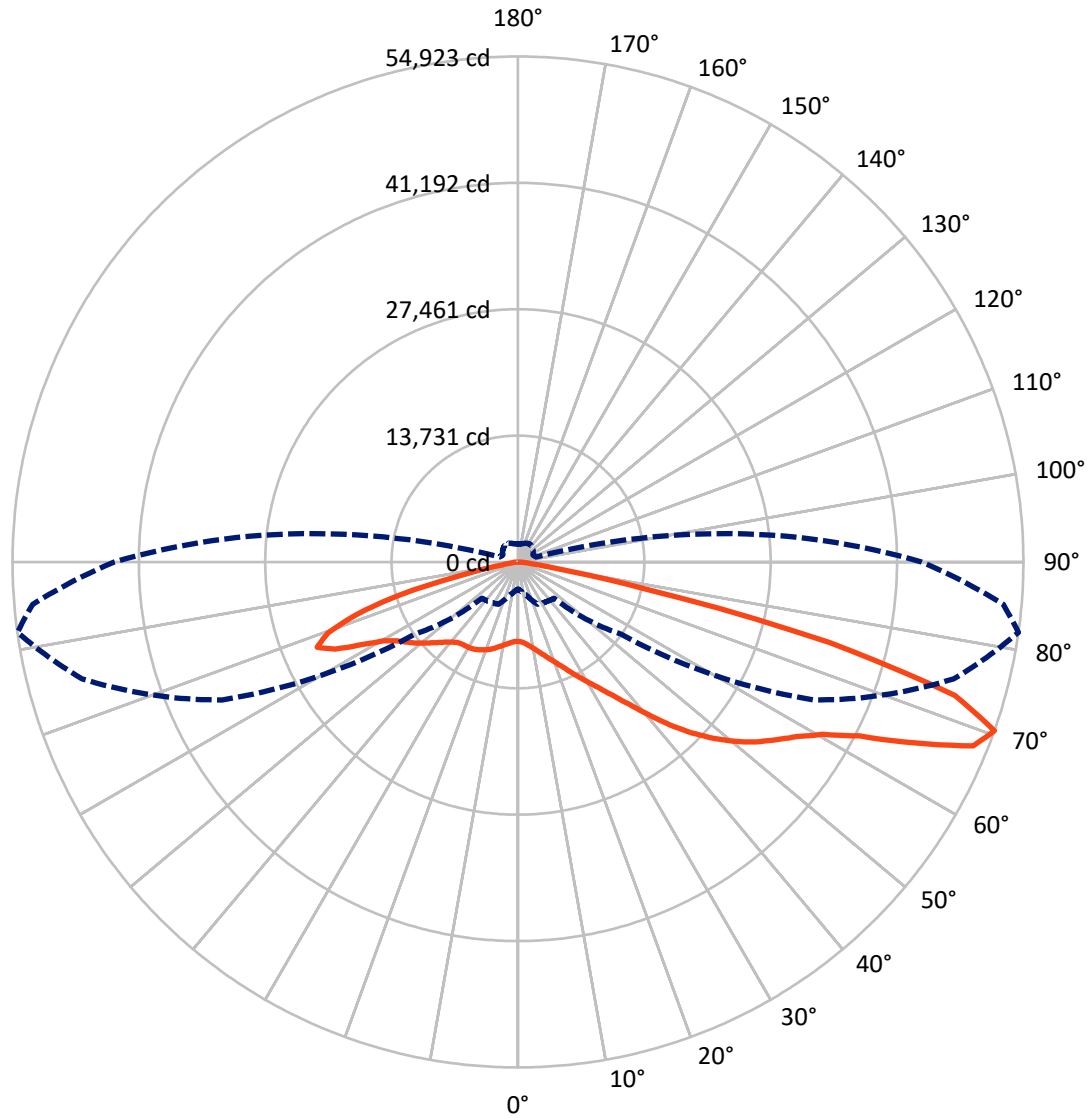
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.7 fc
 Type II - Medium - N/A

REPORT NUMBER: P944565
CATALOG NUMBER: GALN-SB9C-827-U-T2

Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P944565

CATALOG NUMBER: GALN-SB9C-827-U-T2

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14489.0	0.0	14489.0
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	44284.0	0.0	44284.0
	% Fixture	75.3	0.0	75.3
Total	Lumens	58773.0	0.0	58773.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	813.6	1.4
10°-20°	2337.5	4.0
20°-30°	3910.4	6.7
30°-40°	6109.0	10.4
40°-50°	9729.3	16.6
50°-60°	13539.5	23.0
60°-70°	14162.9	24.1
70°-80°	7402.3	12.6
80°-90°	768.6	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°	58773.0	100.0
0°-180°	58773.0	100.0

Coefficient of Utilization



REPORT NUMBER: P944565

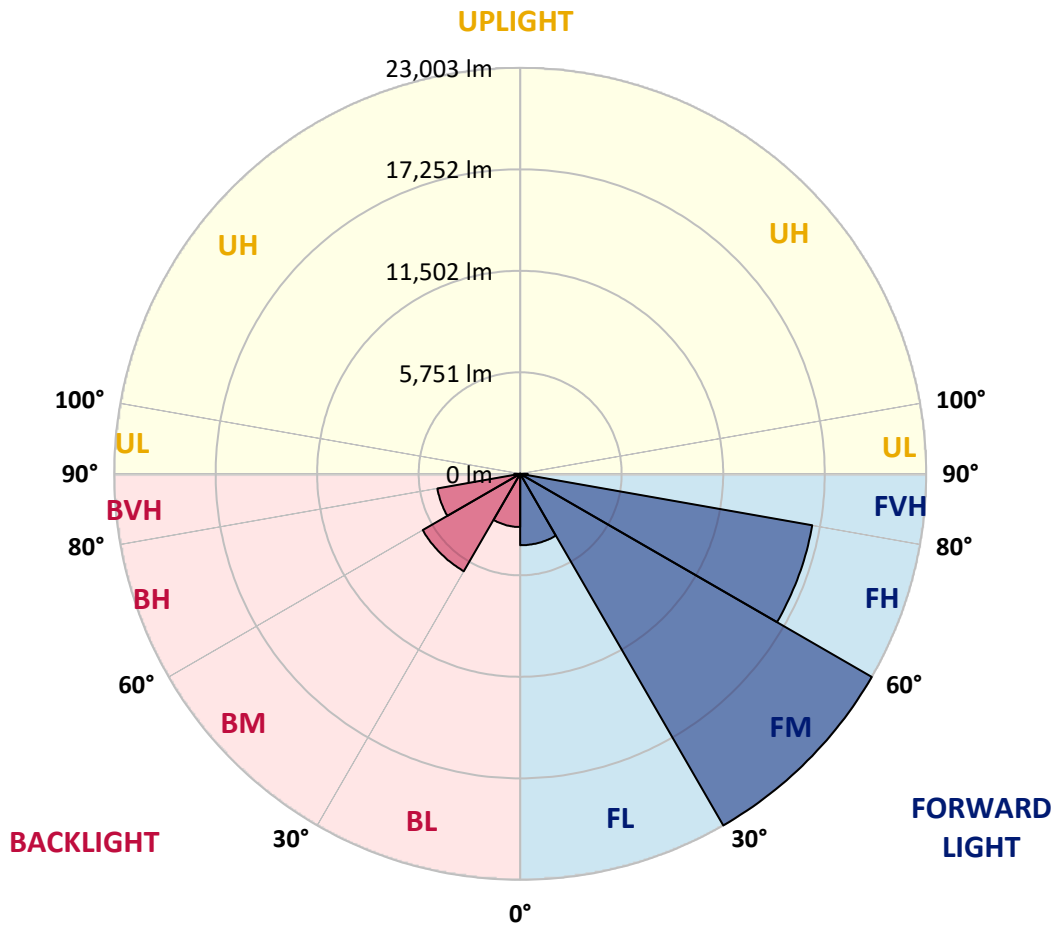
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4047.2	6.9			
FM (30°-60°)	23003.2	39.1			
FH (60°-80°)	16803.4	28.6			G5
FVH (80°-90°)	430.3	0.7			G3/500
BL (0°-30°)	3014.2	5.1	B4/5000		
BM (30°-60°)	6374.6	10.8	B4/8500		
BH (60°-80°)	4761.8	8.1	B4/5000		G4/5000
BVH (80°-90°)	338.4	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 II Medium



REPORT NUMBER: P944565

CATALOG NUMBER: GALN-SB9C-827-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	8616.9	8616.9	8616.9	8616.9	8616.9	8616.9	8616.9	8616.9	8616.9	8616.9
2.5°	8822.7	8872.6	8857.0	8841.4	8841.4	8819.6	8816.5	8785.3	8760.3	8719.8
5°	8935.0	8988.0	8981.7	8994.2	9034.8	9044.1	9053.5	9034.8	8984.9	8935.0
7.5°	8835.2	8894.4	8913.1	8988.0	9112.7	9225.0	9309.2	9343.5	9296.7	9225.0
10°	8498.3	8563.8	8629.3	8807.1	9028.5	9293.6	9518.1	9652.3	9642.9	9574.3
12.5°	7815.4	7884.0	8024.3	8370.5	8775.9	9243.7	9661.6	9942.3	10039.0	9989.1
15°	7269.6	7328.9	7434.9	7790.4	8317.5	9028.5	9714.6	10260.4	10506.8	10478.7
17.5°	7254.0	7279.0	7344.4	7512.9	7918.3	8691.7	9658.5	10572.3	11043.2	11040.1
20°	7528.4	7537.8	7575.2	7609.5	7840.3	8436.0	9515.0	10831.1	11645.1	11645.1
22.5°	7908.9	7902.7	7940.1	7908.9	8021.2	8414.1	9424.6	11058.8	12315.6	12365.5
25°	8479.6	8448.4	8439.1	8367.4	8389.2	8616.9	9524.4	11317.6	13110.8	13213.8
27.5°	9240.6	9190.7	9156.4	8991.1	8935.0	9034.8	9830.0	11629.5	13996.5	14174.3
30°	10232.3	10141.9	10092.0	9805.1	9602.4	9617.9	10291.6	12044.3	14922.8	15209.7
32.5°	11585.8	11445.5	11311.4	10840.5	10469.3	10347.7	10887.2	12618.1	15927.0	16385.4
35°	13101.5	12989.2	12845.8	12119.1	11548.4	11267.7	11691.9	13419.6	17102.7	17829.4
37.5°	14561.0	14464.3	14533.0	13553.7	12817.7	12409.1	12746.0	14495.5	18552.9	19625.7
40°	16070.5	15995.6	16005.0	15069.4	14211.7	13753.3	14024.6	15845.9	20215.2	21762.0
42.5°	17710.9	17654.7	17467.6	16638.0	15674.4	15247.1	15496.6	17405.2	21999.0	24194.6
45°	19547.8	19513.5	19338.8	18387.6	17283.6	16803.3	17140.2	19126.7	23792.3	26483.7
47.5°	21135.2	21163.2	21141.4	20339.9	19195.4	18490.5	18892.8	20923.1	25460.7	28635.5
50°	21899.2	22045.8	22261.0	22011.5	21300.4	20583.2	20661.1	22657.1	27051.3	30653.3
52.5°	21500.0	21777.6	22363.9	22763.1	23037.5	22887.8	22678.9	24378.6	28548.2	32474.6
55°	20012.4	20402.3	21375.3	22339.0	23739.2	24827.6	25102.1	26287.2	30007.7	34077.6
57.5°	17302.3	17935.4	18808.6	20757.8	23115.5	25766.4	27927.6	28934.9	31554.6	35789.7
60°	12655.5	13503.8	14589.1	17489.4	20932.4	25264.3	30332.1	33001.7	33753.3	38007.1
62.5°	8099.2	8623.1	9621.1	12353.0	16310.6	22691.4	31068.1	38085.1	37480.1	41643.5
65°	5545.0	5881.8	6795.6	8329.9	10544.2	16890.7	29097.1	41896.1	43399.3	47406.7
67.5°	4029.3	4285.0	5064.7	6408.8	6870.4	9995.3	22579.1	41721.4	49153.2	53344.7
70°	2937.8	3118.7	3773.6	5064.7	5286.1	5560.6	13678.4	35465.4	49028.4	54922.7
72.5°	2176.8	2301.6	2741.3	3929.5	4278.8	3754.9	6770.6	25775.7	42130.0	49677.1
75°	1574.9	1668.5	1992.8	3006.4	3424.3	2859.8	3377.5	15063.1	29387.1	34944.6
77.5°	1203.8	1275.5	1487.6	2201.8	2741.3	2145.6	2095.7	6929.7	13934.2	14002.8
80°	966.8	1013.6	1129.0	1550.0	2102.0	1606.1	1366.0	2797.4	4403.5	3726.8
82.5°	711.1	789.0	954.3	1088.4	1503.2	1107.1	832.7	1412.8	1674.7	1440.8
85°	405.4	458.4	577.0	779.7	960.5	676.7	477.2	626.9	779.7	639.3
87.5°	143.5	187.1	202.7	305.6	417.9	280.7	184.0	180.9	255.7	190.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P944565
 CATALOG NUMBER: GALN-SB9C-827-U-T2

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
8616.9	0°	8616.9	8616.9	8616.9	8616.9	8616.9	8616.9	8616.9	8616.9	8616.9	8616.9
8710.4	2.5°	8679.2	8663.6	8601.3	8517.1	8429.7	8345.5	8317.5	8258.2	8217.7	8195.8
8913.1	5°	8853.9	8804.0	8657.4	8470.3	8273.8	8061.7	7912.0	7774.8	7675.0	7581.5
9190.7	7.5°	9103.4	9016.0	8763.4	8436.0	8086.7	7734.3	7472.3	7272.7	7138.6	7051.3
9515.0	10°	9393.4	9259.3	8872.6	8383.0	7843.4	7338.2	7029.5	6857.9	6773.7	6726.9
9886.2	12.5°	9727.1	9536.9	8984.9	8261.3	7472.3	6895.4	6683.3	6633.4	6636.5	6639.6
10354.0	15°	10138.8	9873.7	9075.3	7996.2	6988.9	6555.4	6518.0	6599.1	6683.3	6723.8
10884.1	17.5°	10603.4	10229.2	9090.9	7559.6	6514.9	6337.1	6455.6	6630.3	6758.1	6814.3
11476.7	20°	11102.4	10591.0	8978.6	6942.1	6125.0	6159.4	6371.4	6596.0	6736.3	6808.0
12153.4	22.5°	11673.1	10977.7	8710.4	6293.5	5806.9	5966.0	6215.5	6433.8	6580.4	6652.1
12948.7	25°	12324.9	11411.2	8289.4	5747.7	5532.5	5747.7	5997.2	6178.1	6296.6	6362.1
13837.5	27.5°	13048.5	11863.4	7728.0	5314.2	5292.4	5523.1	5729.0	5869.3	5931.7	5981.6
14782.4	30°	13775.1	12275.0	7048.2	4986.7	5083.4	5301.7	5448.3	5510.7	5529.4	5538.7
15836.6	32.5°	14561.0	12630.6	6334.0	4715.4	4883.8	5086.5	5173.9	5201.9	5114.6	5055.3
17115.2	35°	15512.2	13011.0	5635.4	4500.2	4687.3	4862.0	4890.1	4865.1	4762.2	4640.6
18718.2	37.5°	16687.9	13485.1	5077.2	4347.4	4503.3	4618.7	4584.4	4578.2	4587.5	4444.1
20645.5	40°	18128.8	14102.6	4668.6	4228.9	4353.6	4378.6	4281.9	4334.9	4381.7	4163.4
22760.0	42.5°	19728.6	14847.9	4409.8	4147.8	4228.9	4169.6	4020.0	4079.2	4073.0	3786.1
24883.8	45°	21359.7	15658.8	4319.3	4088.6	4113.5	3995.0	3829.7	3845.3	3714.3	3455.5
26920.3	47.5°	22981.4	16528.9	4375.5	4038.7	3970.1	3836.0	3708.1	3639.5	3446.1	3252.8
28872.6	50°	24571.9	17442.7	4581.3	3938.9	3773.6	3695.6	3602.1	3480.4	3274.6	3109.3
30718.8	52.5°	26047.0	18362.7	4812.1	3773.6	3527.2	3574.0	3514.7	3374.4	3171.7	3003.3
32465.2	55°	27444.2	19282.7	4902.5	3545.9	3296.4	3467.9	3433.6	3174.8	2931.5	2794.3
34292.8	57.5°	28966.1	20389.8	4802.7	3255.9	3109.3	3346.3	3215.3	2928.4	2788.1	2685.2
36672.3	60°	31074.3	22126.9	4587.5	2897.2	2931.5	3165.4	2940.9	2822.4	2669.6	2554.2
40240.1	62.5°	34576.6	25367.2	4241.4	2541.7	2722.6	2897.2	2809.9	2691.4	2535.5	2423.2
46340.2	65°	39753.6	29870.5	3589.6	2264.1	2488.7	2635.3	2669.6	2551.1	2388.9	2270.4
51685.5	67.5°	44119.7	32696.0	2716.4	2033.4	2248.6	2423.2	2519.9	2404.5	2233.0	2117.6
52936.1	70°	43879.5	30644.0	2073.9	1805.7	2036.5	2214.2	2339.0	2248.6	2064.6	1955.4
48083.5	72.5°	38973.9	25635.4	1677.8	1574.9	1821.3	1995.9	2145.6	2077.0	1889.9	1783.9
35225.3	75°	28632.4	18197.4	1341.0	1341.0	1553.1	1768.3	1933.6	1889.9	1718.4	1643.5
14788.7	77.5°	12069.2	7634.5	1051.0	1113.4	1291.1	1518.8	1724.6	1740.2	1590.5	1684.1
3910.8	80°	3209.1	2105.1	801.5	876.3	1013.6	1253.7	1500.1	1493.8	1331.7	1244.3
1453.3	82.5°	1222.5	829.6	570.7	617.5	732.9	960.5	1188.2	1225.6	1063.5	920.0
570.7	85°	470.9	355.5	352.4	371.1	427.3	636.2	898.2	929.4	801.5	679.9
159.1	87.5°	121.6	106.0	131.0	124.7	196.5	339.9	514.6	533.3	489.6	283.8
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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<u>180°</u>
8616.9
8220.8
7618.9
7070.0
6739.4
6645.9
6720.7
6826.7
6826.7
6670.8
6380.8
6000.3
5560.6
5074.1
4646.8
4453.4
4169.6
3782.9
3464.8
3252.8
3096.8
3006.4
2781.8
2675.8
2547.9
2423.2
2276.6
2120.7
1964.8
1783.9
1621.7
1528.1
1157.0
920.0
701.7
405.4
0.0

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