

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: P943785

Luminaire Tested: **GALN-SB8B-935-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943785
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-SB8B-935-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31386 lumens
Efficiency: N/A
Efficacy: 107.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G4

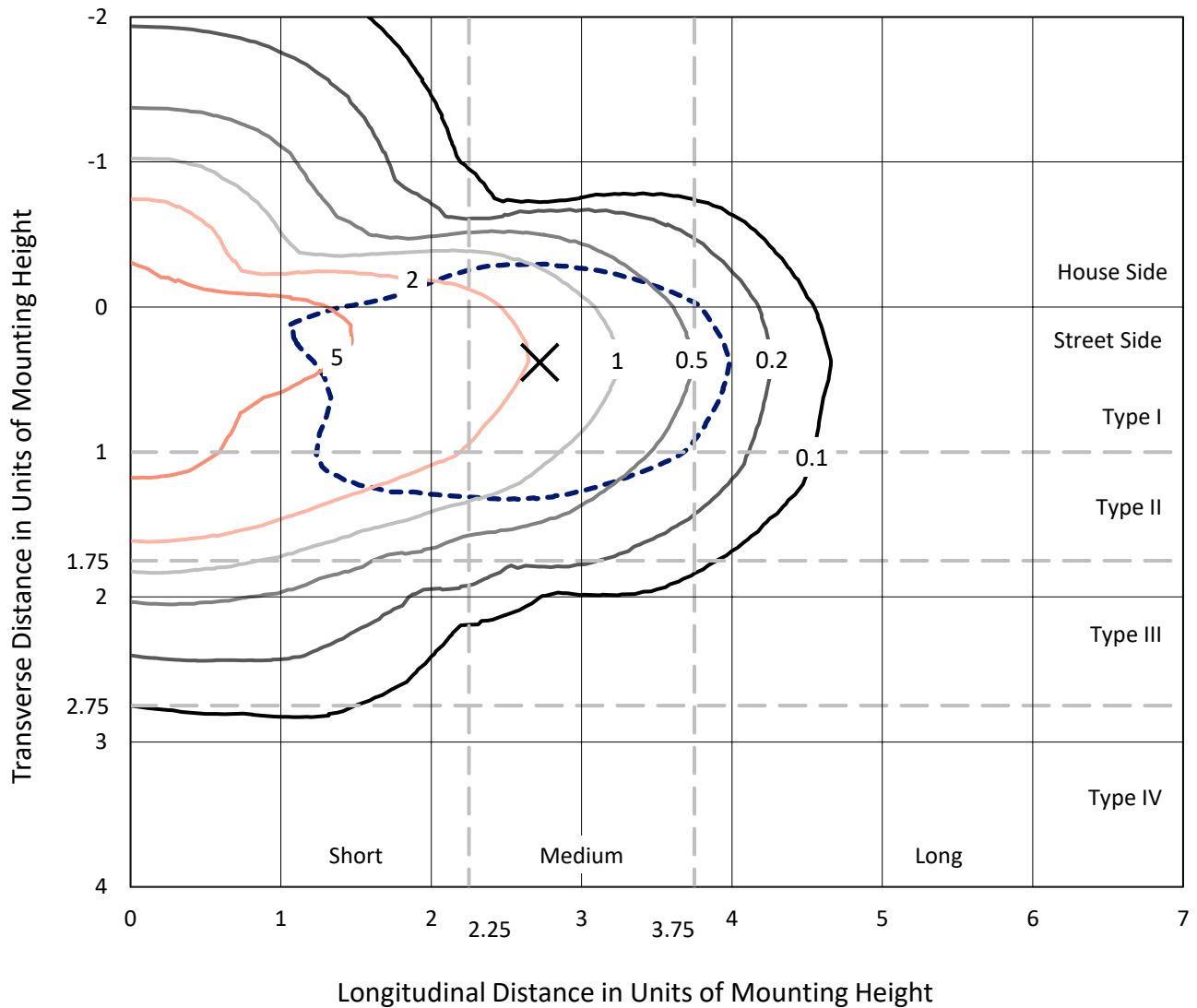
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

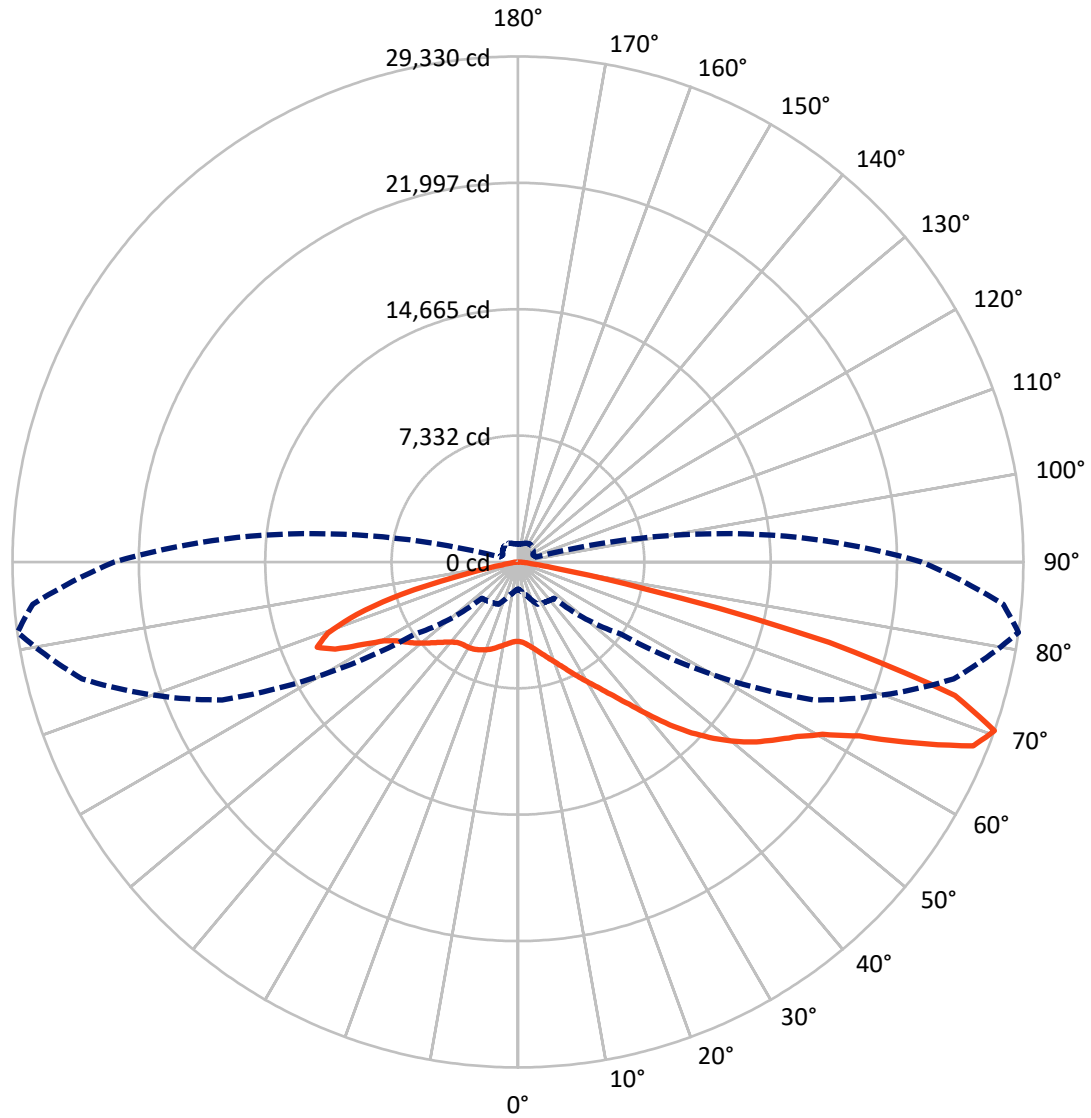
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 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	7737.4	0.0	7737.4
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	23648.6	0.0	23648.6
	% Fixture	75.3	0.0	75.3
Total	Lumens	31386.0	0.0	31386.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	434.5	1.4
10°-20°	1248.3	4.0
20°-30°	2088.2	6.7
30°-40°	3262.3	10.4
40°-50°	5195.6	16.6
50°-60°	7230.4	23.0
60°-70°	7563.3	24.1
70°-80°	3953.0	12.6
80°-90°	410.5	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°	31386.0	100.0
0°-180°	31386.0	100.0

Coefficient of Utilization



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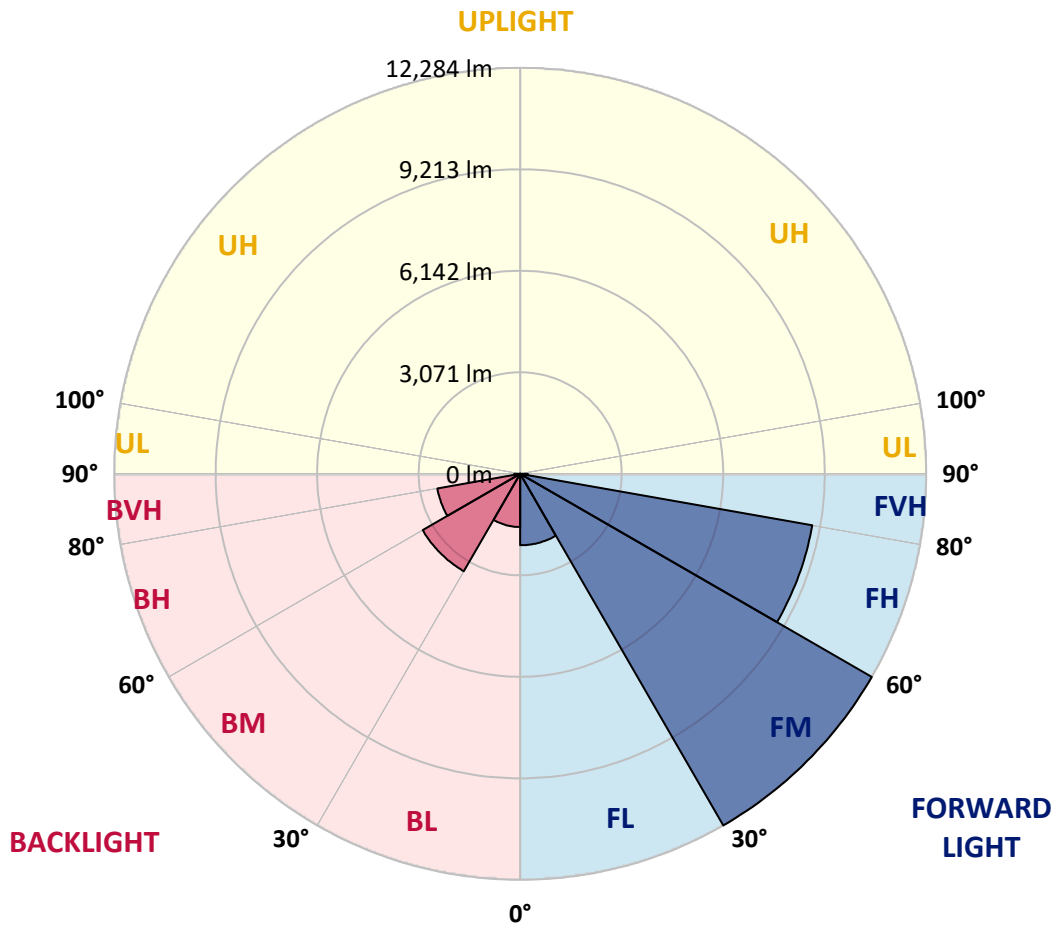
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2161.3	6.9			
FM (30°-60°)	12284.2	39.1			
FH (60°-80°)	8973.4	28.6			G4/12000
FVH (80°-90°)	229.8	0.7			G3/500
BL (0°-30°)	1609.7	5.1	B3/2500		
BM (30°-60°)	3404.2	10.8	B3/5000		
BH (60°-80°)	2542.9	8.1	B4/5000		G4/5000
BVH (80°-90°)	180.7	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	4601.6	4601.6	4601.6	4601.6	4601.6	4601.6	4601.6	4601.6	4601.6	4601.6
2.5°	4711.5	4738.1	4729.8	4721.5	4721.5	4709.8	4708.2	4691.5	4678.2	4656.5
5°	4771.5	4799.8	4796.4	4803.1	4824.7	4829.7	4834.7	4824.7	4798.1	4771.5
7.5°	4718.2	4749.8	4759.8	4799.8	4866.4	4926.3	4971.3	4989.6	4964.6	4926.3
10°	4538.3	4573.3	4608.2	4703.2	4821.4	4963.0	5082.9	5154.5	5149.5	5112.9
12.5°	4173.6	4210.2	4285.1	4470.0	4686.5	4936.3	5159.5	5309.4	5361.0	5334.4
15°	3882.1	3913.8	3970.4	4160.2	4441.7	4821.4	5187.8	5479.3	5610.8	5595.8
17.5°	3873.8	3887.1	3922.1	4012.0	4228.5	4641.6	5157.8	5645.8	5897.3	5895.6
20°	4020.3	4025.3	4045.3	4063.6	4186.9	4505.0	5081.2	5784.0	6218.7	6218.7
22.5°	4223.5	4220.2	4240.2	4223.5	4283.5	4493.3	5032.9	5905.6	6576.8	6603.4
25°	4528.3	4511.6	4506.7	4468.3	4480.0	4601.6	5086.2	6043.8	7001.5	7056.4
27.5°	4934.7	4908.0	4889.7	4801.4	4771.5	4824.7	5249.4	6210.4	7474.4	7569.4
30°	5464.3	5416.0	5389.3	5236.1	5127.9	5136.2	5495.9	6431.9	7969.1	8122.3
32.5°	6187.1	6112.1	6040.5	5789.0	5590.8	5525.9	5814.0	6738.3	8505.3	8750.2
35°	6996.5	6936.5	6859.9	6471.9	6167.1	6017.2	6243.7	7166.3	9133.2	9521.3
37.5°	7775.9	7724.3	7760.9	7238.0	6844.9	6626.7	6806.6	7740.9	9907.6	10480.5
40°	8582.0	8542.0	8547.0	8047.4	7589.4	7344.5	7489.4	8462.0	10795.3	11621.4
42.5°	9458.0	9428.0	9328.1	8885.1	8370.4	8142.3	8275.5	9294.8	11747.9	12920.4
45°	10438.9	10420.6	10327.3	9819.4	9229.8	8973.3	9153.2	10214.1	12705.6	14142.8
47.5°	11286.6	11301.6	11289.9	10861.9	10250.7	9874.3	10089.2	11173.4	13596.6	15292.0
50°	11694.6	11772.9	11887.8	11754.6	11374.9	10991.8	11033.5	12099.3	14445.9	16369.5
52.5°	11481.5	11629.7	11942.8	12156.0	12302.5	12222.6	12111.0	13018.7	15245.3	17342.1
55°	10687.1	10895.2	11414.8	11929.5	12677.2	13258.5	13405.0	14037.9	16024.8	18198.1
57.5°	9239.8	9577.9	10044.2	11085.1	12344.2	13759.8	14913.9	15451.8	16850.8	19112.5
60°	6758.3	7211.3	7790.9	9339.7	11178.4	13491.6	16198.0	17623.6	18024.9	20296.6
62.5°	4325.1	4604.9	5137.8	6596.8	8710.2	12117.7	16591.0	20338.2	20015.1	22238.5
65°	2961.1	3141.0	3629.0	4448.4	5630.8	9020.0	15538.5	22373.4	23176.1	25316.2
67.5°	2151.7	2288.3	2704.7	3422.5	3668.9	5337.7	12057.7	22280.1	26248.8	28487.2
70°	1568.8	1665.4	2015.2	2704.7	2822.9	2969.5	7304.6	18939.3	26182.2	29329.9
72.5°	1162.5	1229.1	1463.9	2098.4	2285.0	2005.2	3615.6	13764.8	22498.3	26528.6
75°	841.0	891.0	1064.2	1605.5	1828.6	1527.2	1803.7	8044.0	15693.3	18661.1
77.5°	642.9	681.2	794.4	1175.8	1463.9	1145.8	1119.2	3700.6	7441.1	7477.8
80°	516.3	541.3	602.9	827.7	1122.5	857.7	729.5	1493.9	2351.6	1990.2
82.5°	379.7	421.4	509.6	581.2	802.7	591.2	444.7	754.4	894.3	769.4
85°	216.5	244.8	308.1	416.4	513.0	361.4	254.8	334.8	416.4	341.4
87.5°	76.6	99.9	108.3	163.2	223.2	149.9	98.3	96.6	136.6	101.6
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°
4601.6	0°	4601.6	4601.6	4601.6	4601.6	4601.6	4601.6	4601.6	4601.6	4601.6	4601.6
4651.5	2.5°	4634.9	4626.6	4593.3	4548.3	4501.7	4456.7	4441.7	4410.1	4388.4	4376.7
4759.8	5°	4728.2	4701.5	4623.2	4523.3	4418.4	4305.1	4225.2	4151.9	4098.6	4048.7
4908.0	7.5°	4861.4	4814.8	4679.9	4505.0	4318.5	4130.3	3990.4	3883.8	3812.2	3765.5
5081.2	10°	5016.3	4944.7	4738.1	4476.7	4188.6	3918.8	3753.9	3662.3	3617.3	3592.3
5279.4	12.5°	5194.5	5092.9	4798.1	4411.7	3990.4	3682.3	3569.0	3542.4	3544.0	3545.7
5529.2	15°	5414.3	5272.7	4846.4	4270.2	3732.2	3500.7	3480.7	3524.0	3569.0	3590.7
5812.3	17.5°	5662.5	5462.6	4854.7	4037.0	3479.1	3384.2	3447.4	3540.7	3609.0	3639.0
6128.8	20°	5928.9	5655.8	4794.8	3707.2	3270.9	3289.2	3402.5	3522.4	3597.3	3635.6
6490.2	22.5°	6233.7	5862.3	4651.5	3360.8	3101.0	3186.0	3319.2	3435.8	3514.1	3552.4
6914.9	25°	6581.8	6093.8	4426.7	3069.4	2954.5	3069.4	3202.6	3299.2	3362.5	3397.5
7389.5	27.5°	6968.2	6335.3	4126.9	2837.9	2826.2	2949.5	3059.4	3134.3	3167.6	3194.3
7894.1	30°	7356.2	6555.1	3763.9	2663.0	2714.6	2831.2	2909.5	2942.8	2952.8	2957.8
8457.0	32.5°	7775.9	6745.0	3382.5	2518.1	2608.1	2716.3	2762.9	2777.9	2731.3	2699.7
9139.9	35°	8283.8	6948.2	3009.4	2403.2	2503.1	2596.4	2611.4	2598.1	2543.1	2478.2
9995.9	37.5°	8911.7	7201.3	2711.3	2321.6	2404.9	2466.5	2448.2	2444.8	2449.8	2373.2
11025.1	40°	9681.1	7531.1	2493.1	2258.3	2324.9	2338.3	2286.6	2314.9	2339.9	2223.3
12154.3	42.5°	10535.5	7929.1	2354.9	2215.0	2258.3	2226.7	2146.7	2178.4	2175.1	2021.8
13288.5	45°	11406.5	8362.1	2306.6	2183.4	2196.7	2133.4	2045.1	2053.5	1983.5	1845.3
14376.0	47.5°	12272.5	8826.8	2336.6	2156.7	2120.1	2048.5	1980.2	1943.6	1840.3	1737.0
15418.5	50°	13121.9	9314.7	2446.5	2103.4	2015.2	1973.5	1923.6	1858.6	1748.7	1660.4
16404.5	52.5°	13909.7	9806.0	2569.8	2015.2	1883.6	1908.6	1876.9	1802.0	1693.7	1603.8
17337.1	55°	14655.8	10297.3	2618.1	1893.6	1760.4	1852.0	1833.6	1695.4	1565.5	1492.2
18313.1	57.5°	15468.5	10888.6	2564.8	1738.7	1660.4	1787.0	1717.1	1563.8	1488.9	1433.9
19583.8	60°	16594.3	11816.2	2449.8	1547.2	1565.5	1690.4	1570.5	1507.2	1425.6	1364.0
21489.0	62.5°	18464.6	13546.6	2265.0	1357.3	1453.9	1547.2	1500.6	1437.3	1354.0	1294.0
24746.6	65°	21229.2	15951.5	1916.9	1209.1	1329.0	1407.3	1425.6	1362.3	1275.7	1212.4
27601.2	67.5°	23560.8	17460.4	1450.6	1085.9	1200.8	1294.0	1345.7	1284.0	1192.4	1130.8
28269.0	70°	23432.6	16364.5	1107.5	964.3	1087.5	1182.5	1249.1	1200.8	1102.5	1044.2
25677.6	72.5°	20812.9	13689.8	896.0	841.0	972.6	1065.9	1145.8	1109.2	1009.2	952.6
18811.0	75°	15290.3	9717.8	716.1	716.1	829.4	944.3	1032.6	1009.2	917.7	877.7
7897.5	77.5°	6445.2	4077.0	561.2	594.6	689.5	811.1	921.0	929.3	849.4	899.3
2088.4	80°	1713.7	1124.2	428.0	468.0	541.3	669.5	801.1	797.7	711.1	664.5
776.1	82.5°	652.8	443.0	304.8	329.8	391.4	513.0	634.5	654.5	567.9	491.3
304.8	85°	251.5	189.9	188.2	198.2	228.2	339.7	479.6	496.3	428.0	363.1
84.9	87.5°	65.0	56.6	69.9	66.6	104.9	181.5	274.8	284.8	261.5	151.6
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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<u>180°</u>
4601.6
4390.1
4068.6
3775.5
3599.0
3549.0
3589.0
3645.6
3645.6
3562.4
3407.5
3204.3
2969.5
2709.7
2481.5
2378.2
2226.7
2020.2
1850.3
1737.0
1653.8
1605.5
1485.6
1428.9
1360.7
1294.0
1215.8
1132.5
1049.2
952.6
866.0
816.1
617.9
491.3
374.7
216.5
0.0

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