

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: P950159

Luminaire Tested: **GALN-SB4C-940-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950159
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB4C-940-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22041 lumens
Efficiency: N/A
Efficacy: 109.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

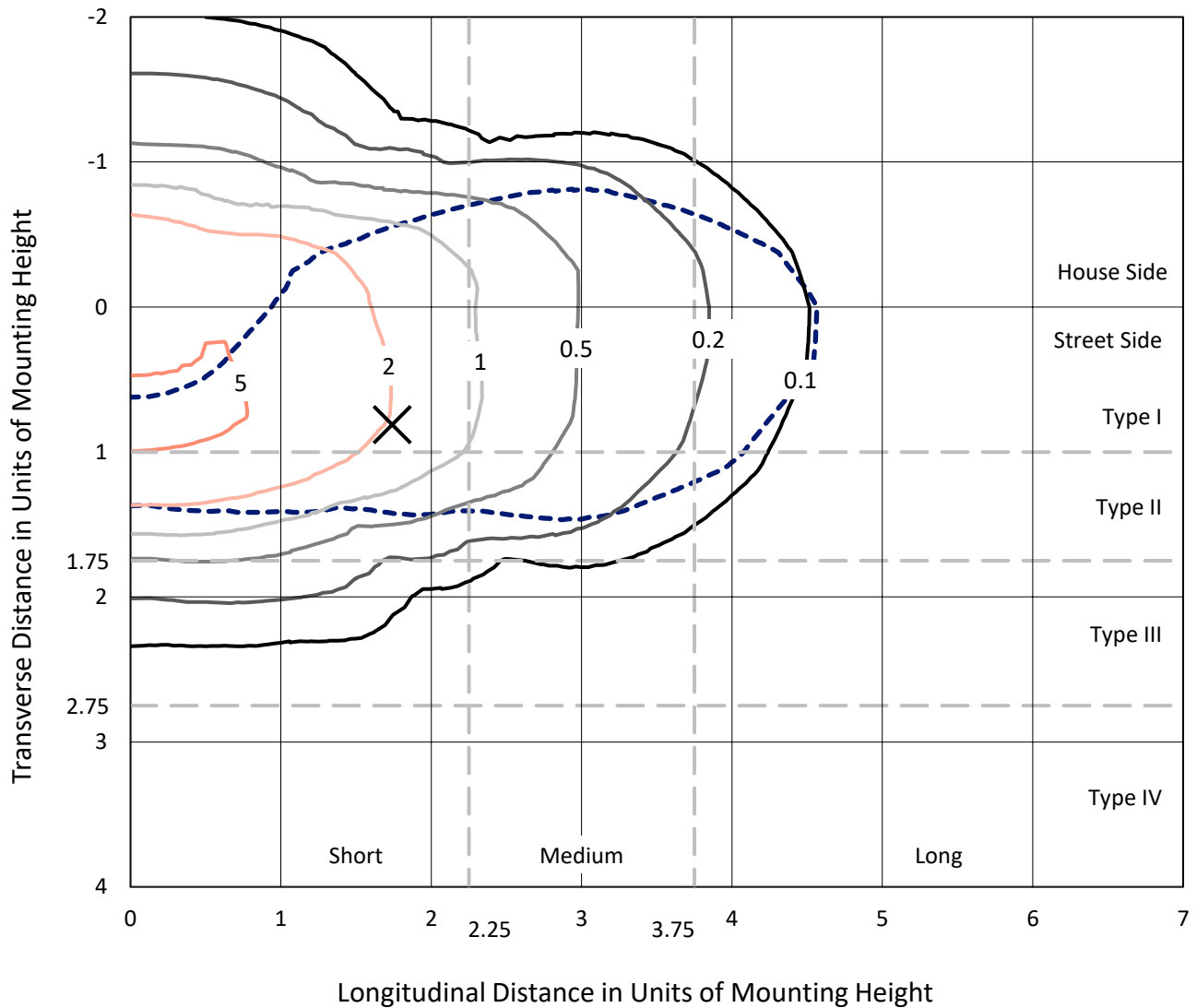
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

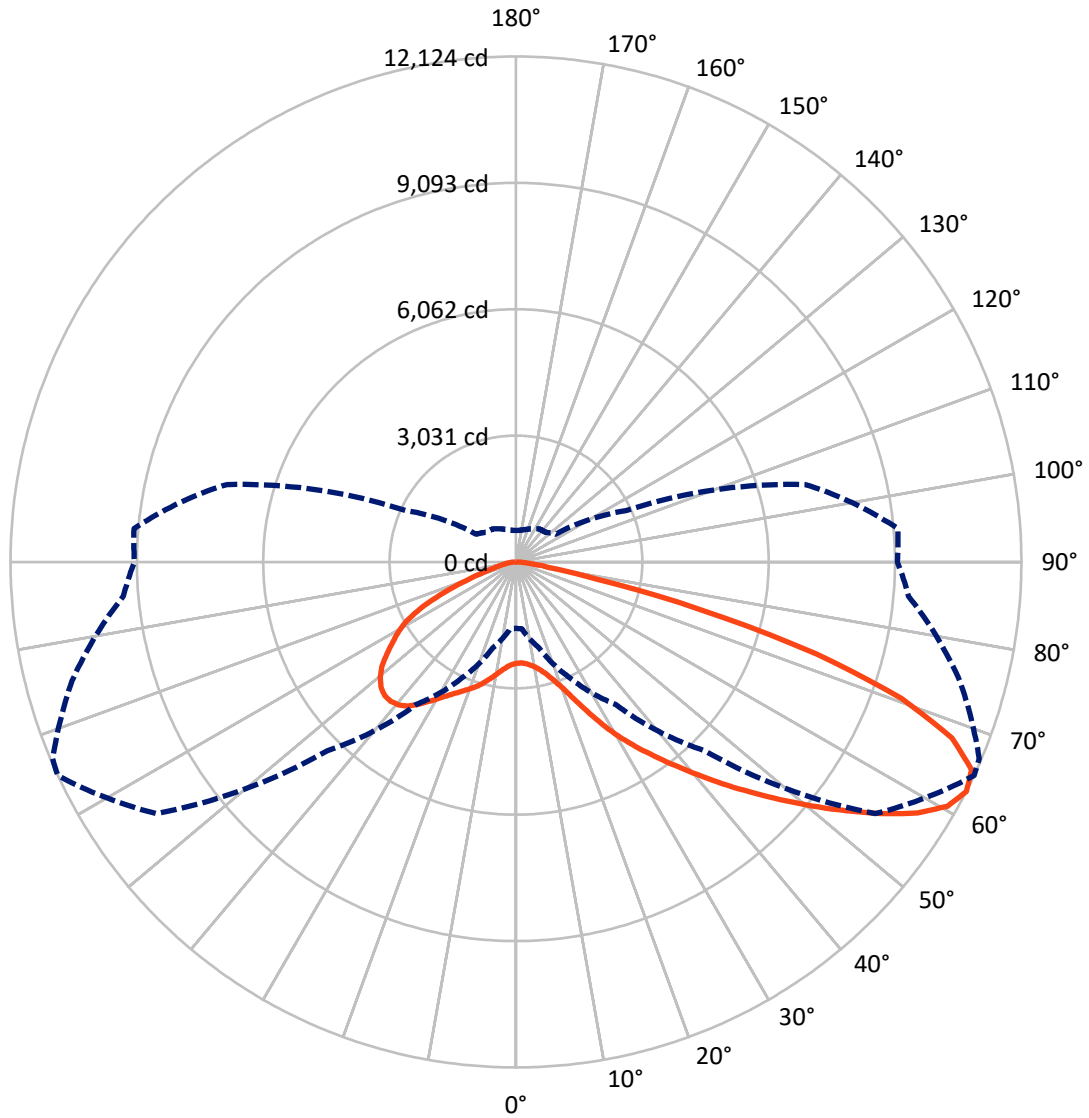
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6955.2	0.0	6955.2
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	15085.8	0.0	15085.8
	% Fixture	68.4	0.0	68.4
Total	Lumens	22041.0	0.0	22041.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.2	1.1
10°-20°	821.2	3.7
20°-30°	1665.0	7.6
30°-40°	2881.2	13.1
40°-50°	4360.2	19.8
50°-60°	5112.0	23.2
60°-70°	4285.8	19.4
70°-80°	2366.1	10.7
80°-90°	307.3	1.4
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°	22041.0	100.0
0°-180°	22041.0	100.0



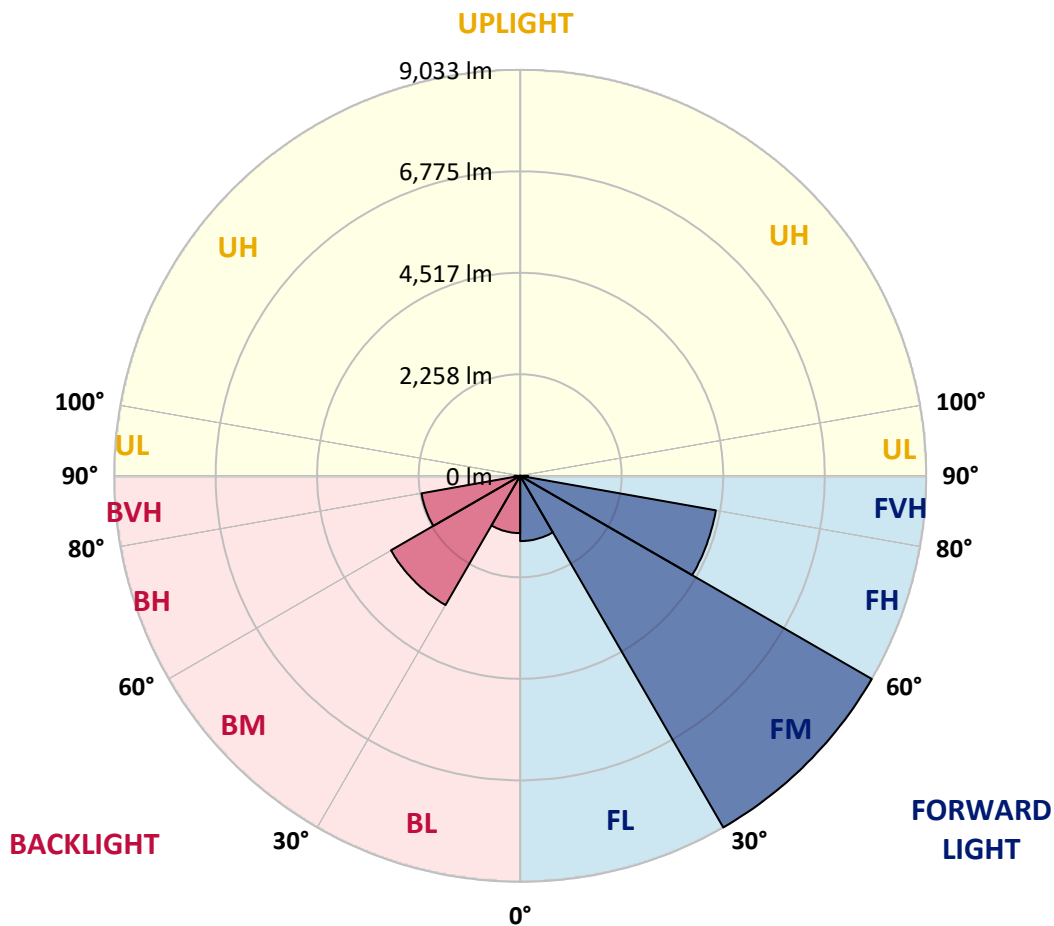
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1452.8	6.6			
FM (30°-60°)	9033.1	41.0			
FH (60°-80°)	4420.8	20.1			G2/5000
FVH (80°-90°)	179.1	0.8			G2/225
BL (0°-30°)	1275.5	5.8	B3/2500		
BM (30°-60°)	3320.3	15.1	B3/5000		
BH (60°-80°)	2231.2	10.1	B3/2500		G3/2500
BVH (80°-90°)	128.2	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	2428.8	2428.8	2428.8	2428.8	2428.8	2428.8	2428.8	2428.8	2428.8	2428.8
2.5°	2412.8	2406.0	2411.7	2411.7	2414.0	2412.8	2420.8	2423.1	2426.5	2433.4
5°	2388.8	2387.7	2397.9	2407.1	2416.2	2424.2	2434.5	2449.4	2451.7	2459.7
7.5°	2380.8	2373.9	2389.9	2401.4	2423.1	2442.5	2470.0	2495.1	2505.4	2508.9
10°	2442.5	2431.1	2446.0	2452.8	2471.1	2490.6	2522.6	2562.6	2574.0	2587.8
12.5°	2547.7	2535.2	2556.9	2567.2	2584.3	2601.5	2623.2	2662.1	2667.8	2693.0
15°	2691.8	2677.0	2690.7	2703.3	2731.9	2747.9	2769.6	2807.3	2807.3	2826.8
17.5°	2887.4	2867.9	2878.2	2882.8	2901.1	2925.1	2961.7	2994.9	3012.0	3005.2
20°	3179.0	3155.0	3155.0	3132.1	3125.2	3144.7	3192.7	3238.4	3256.7	3221.3
22.5°	3616.9	3582.6	3563.2	3485.4	3454.6	3456.8	3504.9	3560.9	3575.8	3512.9
25°	4173.8	4120.1	4093.8	3979.4	3909.7	3849.1	3886.8	3958.8	3979.4	3901.7
27.5°	4730.7	4734.1	4709.0	4571.8	4456.3	4345.4	4325.9	4401.4	4423.1	4335.1
30°	5511.7	5430.5	5382.5	5217.9	5053.2	4897.7	4817.6	4848.5	4854.2	4749.0
32.5°	6185.3	6164.7	6061.8	5917.7	5706.1	5462.6	5328.8	5279.6	5270.5	5120.7
35°	6952.6	6941.1	6832.5	6661.0	6432.3	6093.8	5852.5	5711.8	5700.4	5490.0
37.5°	7732.4	7732.4	7626.1	7438.6	7201.8	6778.7	6411.7	6188.7	6152.1	5877.7
40°	8354.5	8316.8	8336.2	8257.3	7986.3	7536.9	7032.6	6709.0	6659.8	6330.5
42.5°	8707.9	8695.3	8811.9	8900.0	8789.0	8430.0	7716.4	7272.7	7204.1	6829.1
45°	8786.8	8773.0	8981.2	9303.6	9459.1	9311.6	8459.7	7866.2	7782.8	7350.5
47.5°	8604.9	8577.5	8882.8	9391.7	9890.2	10149.8	9264.7	8510.0	8388.8	7858.2
50°	8058.3	8032.0	8494.0	9169.8	10035.5	10719.3	10138.4	9192.7	9007.5	8402.5
52.5°	6870.2	6882.8	7606.7	8535.2	9844.5	11073.8	10890.8	9912.0	9689.0	8959.4
55°	5351.6	5379.1	6268.7	7291.0	9080.6	11020.0	11404.3	10653.0	10431.1	9483.2
57.5°	3831.9	3953.1	4786.7	5798.8	7613.5	10168.1	11516.3	11357.4	11142.4	10054.9
60°	2483.7	2505.4	3363.1	4383.1	5797.6	8654.1	11288.8	11891.4	11723.3	10638.1
62.5°	1591.8	1606.6	2129.2	3065.8	4172.7	6402.5	10522.6	12123.5	12072.1	11023.5
65°	1169.8	1158.4	1430.5	2026.3	2810.8	3948.6	9034.9	12011.5	12113.2	11264.8
67.5°	976.6	960.6	1094.3	1403.1	2070.9	2242.4	6685.0	11283.0	11655.8	11237.3
70°	889.7	875.9	957.1	1041.7	1615.8	1501.4	3369.9	9809.1	10383.1	10925.1
72.5°	753.6	729.6	840.5	925.1	1256.7	1151.5	1392.8	7534.6	8234.4	9924.6
75°	584.3	568.3	663.2	814.2	944.5	898.8	880.5	4575.2	5339.1	7675.3
77.5°	463.1	441.4	528.3	634.6	849.6	678.1	641.5	1970.3	2727.3	4900.0
80°	348.8	329.3	401.4	502.0	652.9	511.2	415.1	803.9	1028.0	2482.6
82.5°	248.1	231.0	280.2	368.2	439.1	458.5	255.0	450.5	506.6	957.1
85°	158.9	148.7	187.5	231.0	279.0	295.0	155.5	235.6	258.4	394.5
87.5°	86.9	70.9	100.6	107.5	129.2	117.8	74.3	85.8	92.6	142.9
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°
2428.8	0°	2428.8	2428.8	2428.8	2428.8	2428.8	2428.8	2428.8	2428.8	2428.8	2428.8
2433.4	2.5°	2438.0	2441.4	2452.8	2456.3	2464.3	2474.6	2481.4	2488.3	2488.3	2495.1
2470.0	5°	2471.1	2479.1	2503.2	2515.7	2536.3	2556.9	2569.5	2584.3	2593.5	2598.1
2528.3	7.5°	2535.2	2547.7	2582.1	2603.8	2639.2	2667.8	2687.3	2707.8	2712.4	2725.0
2609.5	10°	2622.1	2636.9	2675.8	2717.0	2759.3	2794.7	2813.0	2827.9	2833.6	2835.9
2713.6	12.5°	2721.6	2743.3	2793.6	2843.9	2888.5	2919.4	2924.0	2920.5	2904.5	2890.8
2841.6	15°	2843.9	2863.4	2919.4	2974.3	3017.7	3023.4	2994.9	2976.6	2957.1	2953.7
2984.6	17.5°	2990.3	3000.6	3052.0	3105.8	3109.2	3089.8	3047.5	3030.3	3012.0	2999.4
3171.0	20°	3160.7	3157.2	3193.8	3216.7	3192.7	3133.2	3069.2	3040.6	3022.3	3007.4
3399.7	22.5°	3364.2	3337.9	3333.3	3327.6	3263.6	3138.9	3052.0	3015.4	2986.9	2966.3
3718.7	25°	3660.4	3559.8	3490.0	3451.1	3307.0	3108.1	2997.1	2916.0	2862.2	2826.8
4108.6	27.5°	4030.9	3861.6	3685.5	3590.6	3307.0	3045.2	2864.5	2733.0	2644.9	2608.4
4486.0	30°	4384.2	4207.0	3947.4	3758.7	3299.0	2942.3	2650.7	2467.7	2364.8	2328.2
4808.5	32.5°	4686.1	4492.9	4225.3	3942.8	3279.6	2775.3	2385.4	2183.0	2083.5	2040.0
5127.5	35°	4966.3	4760.4	4504.3	4145.2	3228.1	2530.6	2093.8	1939.4	1828.5	1758.7
5452.3	37.5°	5253.3	5008.6	4768.5	4328.2	3135.5	2244.7	1869.6	1738.1	1607.8	1514.0
5797.6	40°	5565.5	5272.7	5050.9	4436.8	2983.4	1972.6	1695.8	1575.8	1437.4	1337.9
6195.6	42.5°	5930.3	5589.5	5365.4	4492.9	2775.3	1779.3	1582.6	1464.8	1334.5	1253.3
6622.1	45°	6311.1	5938.3	5652.4	4491.7	2543.2	1689.0	1546.0	1429.4	1285.3	1200.7
7060.1	47.5°	6710.1	6303.0	5900.5	4418.5	2341.9	1701.5	1525.4	1352.8	1193.8	1111.5
7502.6	50°	7110.4	6702.1	6140.7	4281.3	2256.2	1674.1	1448.8	1245.3	1057.7	983.4
7917.7	52.5°	7507.2	7126.4	6347.6	4085.8	2169.2	1572.3	1350.5	1105.8	1001.7	950.3
8346.5	55°	7906.3	7546.0	6572.9	3801.0	1952.0	1453.4	1185.8	1053.2	957.1	910.2
8766.2	57.5°	8306.5	8030.9	6786.8	3516.3	1678.7	1307.0	1095.5	989.1	912.5	872.5
9117.2	60°	8722.7	8585.5	7007.5	3254.4	1408.8	1119.5	1029.2	937.7	859.9	815.3
9454.6	62.5°	9151.5	9196.1	7180.1	2917.1	1160.7	1005.1	969.7	875.9	800.5	758.1
9733.6	65°	9583.8	9785.0	7293.3	2449.4	941.1	896.5	905.7	808.5	731.8	695.3
9938.3	67.5°	9909.7	10209.3	7261.3	1853.6	771.9	793.6	825.6	737.6	665.5	636.9
9905.1	70°	9946.3	10159.0	6945.7	1269.3	646.1	693.0	736.4	667.8	593.5	572.9
9438.6	72.5°	9459.1	9472.9	6066.3	829.0	546.6	608.3	642.7	596.9	524.9	504.3
8257.3	75°	8181.8	7834.2	4454.0	546.6	457.4	522.6	554.6	522.6	452.8	457.4
6178.4	77.5°	6199.0	5548.3	2704.4	388.8	381.9	439.1	482.6	459.7	400.2	449.4
3106.9	80°	3193.8	3001.7	1206.4	290.5	301.9	351.1	396.8	367.1	316.8	301.9
694.1	82.5°	731.8	850.8	475.7	208.1	218.4	252.7	303.0	275.6	227.6	192.1
289.3	85°	256.1	280.2	210.4	130.4	128.1	157.8	205.8	184.1	154.4	123.5
122.4	87.5°	81.2	106.3	78.9	52.6	54.9	70.9	94.9	86.9	72.0	46.9
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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<u>180°</u>
2428.8
2495.1
2600.3
2720.4
2830.2
2890.8
2953.7
3000.6
3008.6
2973.1
2840.5
2626.7
2349.9
2061.8
1781.6
1539.2
1357.4
1269.3
1214.4
1122.9
988.0
950.3
905.7
865.6
811.9
757.0
694.1
638.1
574.0
503.1
441.4
395.7
275.6
189.8
130.4
49.2
0.0

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