

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: P951591

Luminaire Tested: **GALN-SB5C-940-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951591
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-SB5C-940-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27360 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

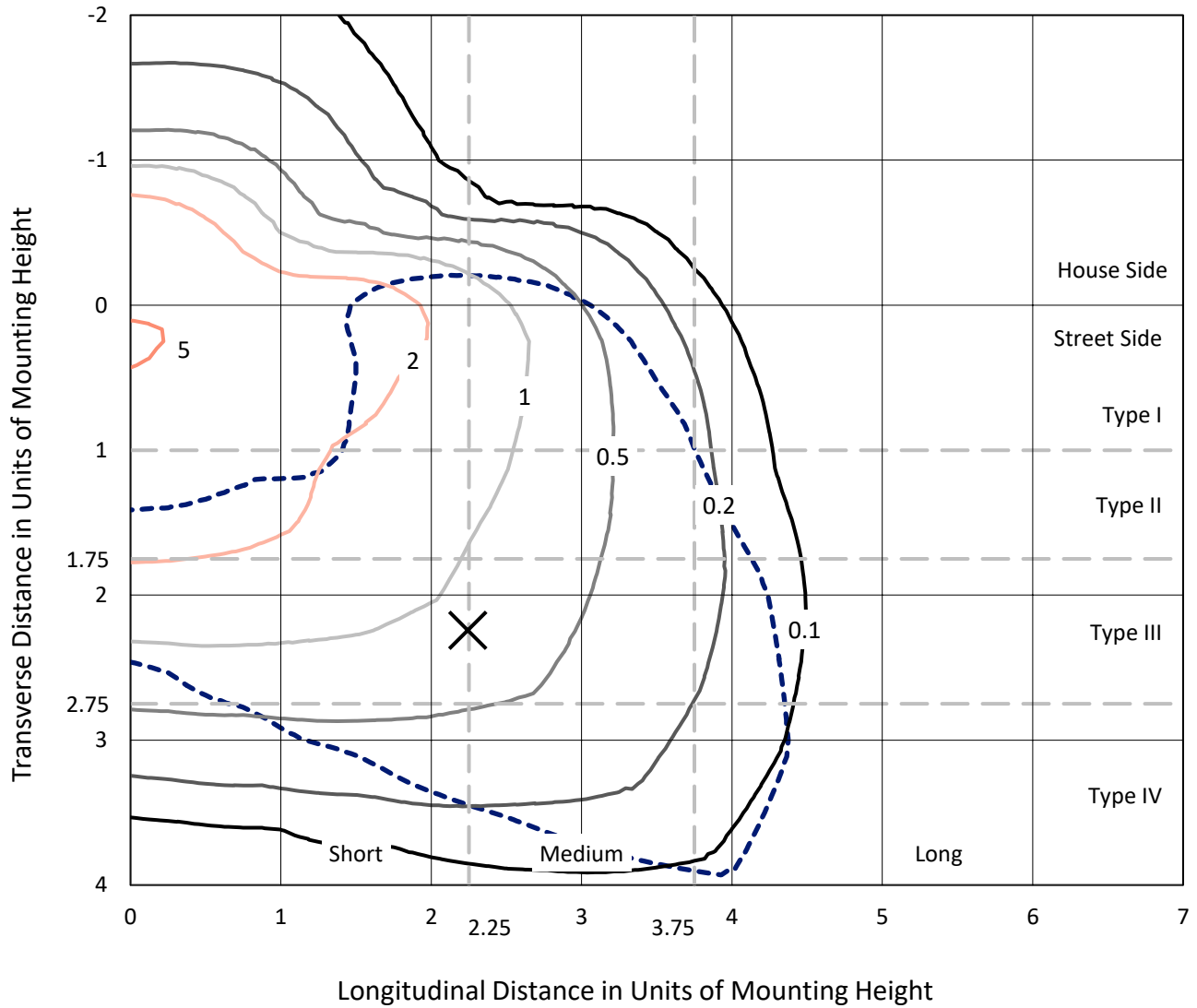
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

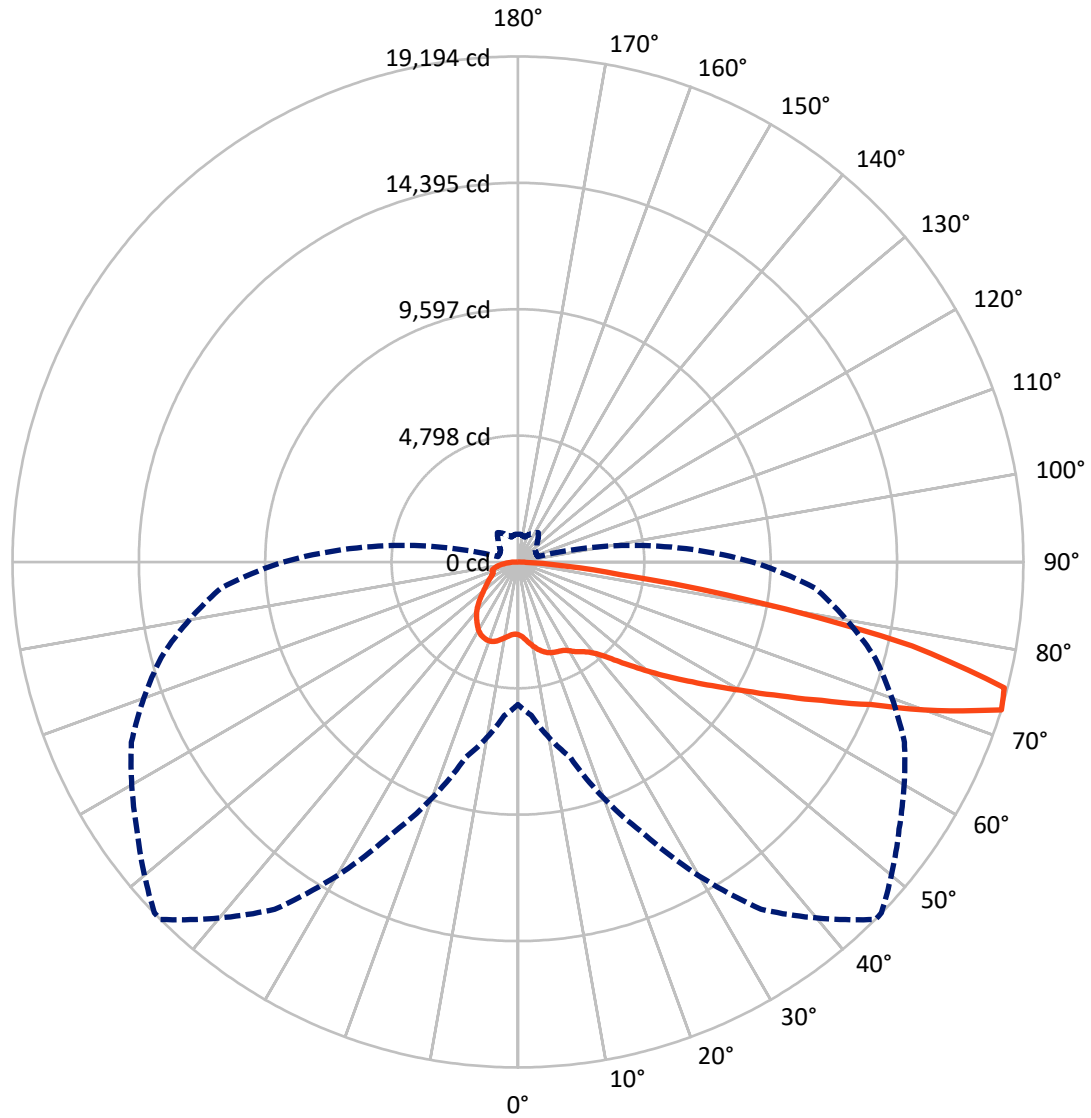
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6185.2	0.0	6185.2
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	21174.9	0.0	21174.9
	% Fixture	77.4	0.0	77.4
Total	Lumens	27360.0	0.0	27360.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.9	1.0
10°-20°	936.6	3.4
20°-30°	1629.3	6.0
30°-40°	2335.7	8.5
40°-50°	3288.8	12.0
50°-60°	5037.5	18.4
60°-70°	7297.6	26.7
70°-80°	5827.6	21.3
80°-90°	725.8	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°	27360.0	100.0
0°-180°	27360.0	100.0



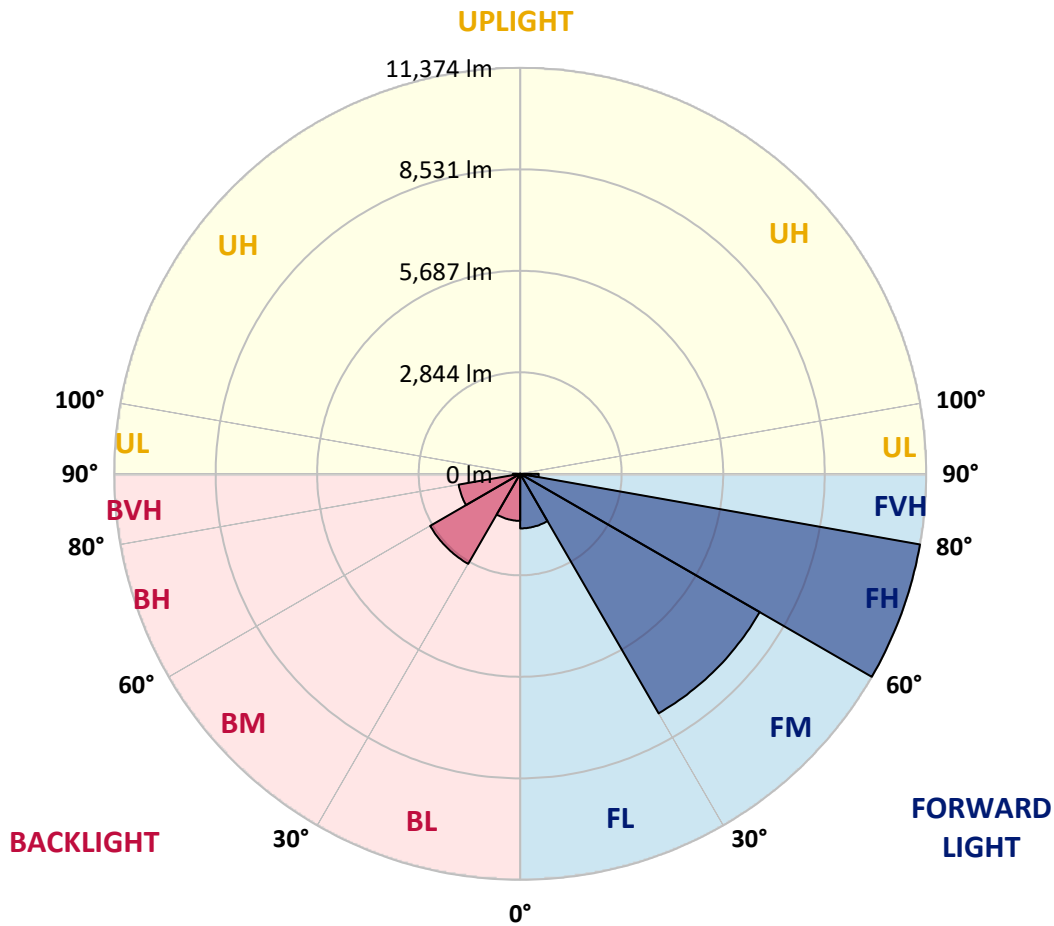
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1530.0	5.6			
FM (30°-60°)	7749.8	28.3			
FH (60°-80°)	11374.4	41.6			G4/12000
FVH (80°-90°)	520.7	1.9			G4/750
BL (0°-30°)	1316.9	4.8	B3/2500		
BM (30°-60°)	2912.3	10.6	B3/5000		
BH (60°-80°)	1750.9	6.4	B3/2500		G3/2500
BVH (80°-90°)	205.1	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	2760.1	2760.1	2760.1	2760.1	2760.1	2760.1	2760.1	2760.1	2760.1	2760.1
2.5°	2868.2	2886.9	2869.6	2853.8	2846.6	2827.8	2826.4	2814.9	2807.7	2787.5
5°	3068.5	3093.0	3064.2	3032.5	3003.7	2957.5	2951.8	2918.6	2881.2	2837.9
7.5°	3294.8	3316.4	3283.3	3235.7	3185.3	3108.9	3107.4	3046.9	2987.8	2914.3
10°	3492.3	3521.1	3476.4	3411.6	3348.1	3261.7	3251.6	3182.4	3107.4	3012.3
12.5°	3666.7	3686.8	3643.6	3564.3	3490.8	3404.4	3391.4	3315.0	3231.4	3123.3
15°	3805.0	3831.0	3773.3	3688.3	3610.5	3525.4	3513.9	3444.7	3361.1	3247.3
17.5°	3895.8	3917.5	3858.4	3763.2	3688.3	3617.7	3609.0	3551.4	3477.9	3362.6
20°	3930.4	3953.5	3891.5	3794.9	3725.8	3671.0	3666.7	3624.9	3574.4	3469.2
22.5°	3965.0	3986.6	3905.9	3805.0	3744.5	3709.9	3708.5	3681.1	3660.9	3574.4
25°	4104.8	4110.6	4002.5	3856.9	3770.4	3740.2	3738.7	3737.3	3745.9	3678.2
27.5°	4225.9	4224.5	4132.2	3995.3	3861.2	3797.8	3796.4	3810.8	3838.2	3782.0
30°	4403.2	4387.3	4277.8	4135.1	4012.6	3914.6	3905.9	3893.0	3914.6	3869.9
32.5°	4779.4	4728.9	4551.6	4298.0	4138.0	4063.0	4051.5	3970.8	3979.4	3952.0
35°	5318.4	5252.1	5015.7	4606.4	4293.6	4187.0	4181.2	4078.9	4061.6	4037.1
37.5°	5959.8	5877.6	5602.3	5053.2	4561.7	4331.1	4322.5	4230.2	4159.6	4133.7
40°	6604.0	6500.3	6272.5	5598.0	4956.6	4571.8	4544.4	4404.6	4323.9	4280.7
42.5°	7229.6	7143.1	6948.5	6209.1	5443.8	4923.5	4862.9	4623.7	4563.2	4522.8
45°	7783.0	7705.2	7562.5	6862.0	6014.5	5402.0	5342.9	4952.3	4933.6	4933.6
47.5°	8232.7	8215.4	8064.1	7527.9	6687.6	5946.8	5844.5	5409.2	5459.6	5537.5
50°	8731.4	8683.8	8522.4	8183.7	7478.9	6570.9	6487.3	5969.9	6158.7	6372.0
52.5°	9189.7	9215.7	9035.5	8866.9	8372.5	7267.0	7120.0	6631.4	7039.3	7392.4
55°	9661.0	9662.5	9612.0	9589.0	9309.4	8036.7	7875.3	7427.0	8075.6	8513.8
57.5°	10103.5	10106.4	10181.4	10384.6	10396.1	8924.5	8741.5	8404.2	9227.2	9674.0
60°	10498.4	10518.6	10723.3	11198.9	11351.7	9942.1	9769.1	9558.7	10417.7	10867.4
62.5°	10631.0	10704.5	11160.0	11836.0	12295.7	11190.3	11020.2	10894.8	11668.8	12086.8
65°	10406.2	10574.8	11455.5	12362.0	13267.2	12673.4	12504.7	12367.8	12968.8	13362.3
67.5°	9854.2	10071.8	11438.2	12914.1	14446.2	14457.7	14300.6	13979.2	14362.6	14513.9
70°	8399.9	8725.6	10430.7	13120.2	15799.5	16897.8	16746.5	15919.2	15753.4	15021.2
72.5°	5412.1	5850.2	7680.7	11423.8	16100.8	19193.8	19185.2	17670.4	16193.0	14035.4
75°	1974.6	2242.7	3568.7	7170.5	13515.1	19077.1	19133.3	17370.6	14782.0	10841.5
77.5°	719.2	787.0	1164.6	2755.8	8312.0	15306.6	15423.4	13886.9	10521.5	5440.9
80°	377.6	415.1	596.7	1069.4	3561.5	9090.3	9273.3	8252.9	4945.1	1638.8
82.5°	209.0	226.3	334.4	580.8	1604.2	3887.2	3996.7	3260.2	1739.7	694.7
85°	112.4	119.6	157.1	317.1	784.1	1347.6	1377.9	974.3	693.3	407.9
87.5°	33.1	40.4	51.9	100.9	307.0	302.7	309.9	193.1	273.8	206.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P951591
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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2760.1	0°	2760.1	2760.1	2760.1	2760.1	2760.1	2760.1	2760.1	2760.1	2760.1	2760.1
2781.7	2.5°	2773.1	2768.7	2752.9	2745.7	2737.0	2735.6	2742.8	2744.2	2745.7	2747.1
2813.4	5°	2799.0	2784.6	2770.2	2761.5	2764.4	2765.9	2780.3	2790.4	2797.6	2803.3
2872.5	7.5°	2849.5	2837.9	2813.4	2812.0	2816.3	2829.3	2848.0	2871.1	2884.0	2894.1
2948.9	10°	2924.4	2902.8	2874.0	2878.3	2886.9	2905.7	2944.6	2963.3	2984.9	3003.7
3042.6	12.5°	3000.8	2982.1	2948.9	2951.8	2966.2	2999.3	3036.8	3059.9	3074.3	3088.7
3143.5	15°	3100.2	3067.1	3031.1	3031.1	3057.0	3093.0	3110.3	3129.1	3137.7	3153.6
3251.6	17.5°	3202.6	3159.3	3111.8	3108.9	3140.6	3157.9	3168.0	3170.9	3173.7	3191.0
3356.8	20°	3304.9	3257.3	3189.6	3183.8	3191.0	3188.2	3186.7	3183.8	3188.2	3209.8
3464.9	22.5°	3405.8	3351.0	3257.3	3231.4	3211.2	3183.8	3182.4	3181.0	3183.8	3205.5
3581.6	25°	3524.0	3457.7	3332.3	3254.5	3186.7	3149.2	3153.6	3155.0	3157.9	3175.2
3702.7	27.5°	3652.3	3578.8	3401.5	3247.3	3124.7	3098.8	3091.6	3095.9	3106.0	3133.4
3823.8	30°	3780.5	3694.1	3464.9	3218.4	3046.9	3010.9	2987.8	2997.9	3029.6	3057.0
3929.0	32.5°	3897.3	3810.8	3515.3	3155.0	2947.5	2891.2	2861.0	2874.0	2905.7	2915.8
4045.7	35°	4034.2	3936.2	3537.0	3054.1	2839.4	2752.9	2712.5	2693.8	2709.6	2699.6
4182.7	37.5°	4187.0	4084.6	3534.1	2921.5	2712.5	2613.1	2556.9	2486.2	2453.1	2418.5
4384.4	40°	4413.3	4266.3	3499.5	2761.5	2555.4	2464.6	2363.7	2244.1	2169.2	2101.4
4710.2	42.5°	4721.7	4518.5	3436.1	2585.7	2378.1	2293.1	2156.2	2016.4	1898.2	1785.8
5204.5	45°	5181.5	4848.5	3356.8	2398.3	2186.5	2102.9	1954.4	1797.3	1663.3	1519.1
5906.5	47.5°	5844.5	5292.5	3281.8	2185.0	1984.7	1908.3	1774.2	1628.7	1470.1	1330.3
6921.1	50°	6755.4	5929.5	3212.7	1977.5	1785.8	1728.1	1621.5	1473.0	1313.0	1200.6
8110.2	52.5°	7914.2	6795.7	3183.8	1777.1	1599.8	1578.2	1493.2	1354.8	1203.5	1108.4
9496.7	55°	9244.5	7832.0	3183.8	1585.4	1437.0	1444.2	1385.1	1256.8	1125.7	1040.6
10926.5	57.5°	10602.2	8881.3	3126.2	1408.2	1298.6	1328.9	1291.4	1179.0	1060.8	972.9
12429.8	60°	11853.3	9760.5	2892.7	1246.7	1176.1	1223.7	1199.2	1102.6	958.5	885.0
13686.6	62.5°	12814.6	10256.3	2443.0	1118.4	1075.2	1130.0	1117.0	1001.7	939.7	909.5
14718.6	65°	13296.0	10175.6	1867.9	1004.6	990.2	1075.2	1047.8	1043.5	994.5	959.9
15054.4	67.5°	13000.5	9480.9	1354.8	921.0	941.2	1024.8	1130.0	1147.3	1056.5	988.7
14108.9	70°	11704.8	8224.1	1008.9	841.7	879.2	1026.2	1288.5	1200.6	1036.3	957.0
11315.7	72.5°	8904.4	6132.7	782.6	758.1	798.5	1033.4	1359.1	1176.1	978.6	1057.9
7049.4	75°	5092.1	3366.9	628.4	655.8	697.6	965.7	1323.1	1112.7	934.0	971.4
2793.2	77.5°	1941.4	1294.3	518.9	554.9	560.7	843.2	1265.5	1108.4	889.3	867.7
837.4	80°	673.1	505.9	429.5	441.0	433.8	749.5	1213.6	964.2	727.9	651.5
345.9	82.5°	275.3	252.2	340.1	325.7	308.4	582.3	980.1	788.4	595.3	526.1
167.2	85°	119.6	160.0	224.8	197.5	178.7	403.6	785.5	667.3	503.0	433.8
54.8	87.5°	24.5	60.5	95.1	89.4	92.2	269.5	557.8	474.2	356.0	266.6
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>
2760.1
2752.9
2806.2
2897.0
2999.3
3094.5
3159.3
3196.8
3218.4
3219.9
3198.2
3160.8
3087.3
2951.8
2731.3
2440.1
2105.7
1775.7
1501.8
1314.5
1193.4
1101.2
1032.0
958.5
873.4
899.4
948.4
977.2
944.1
1049.3
971.4
791.3
629.8
520.3
432.4
209.0
0.0

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