

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: P944317

Luminaire Tested: **GALN-SB9A-950-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944317
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB9A-950-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28442 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

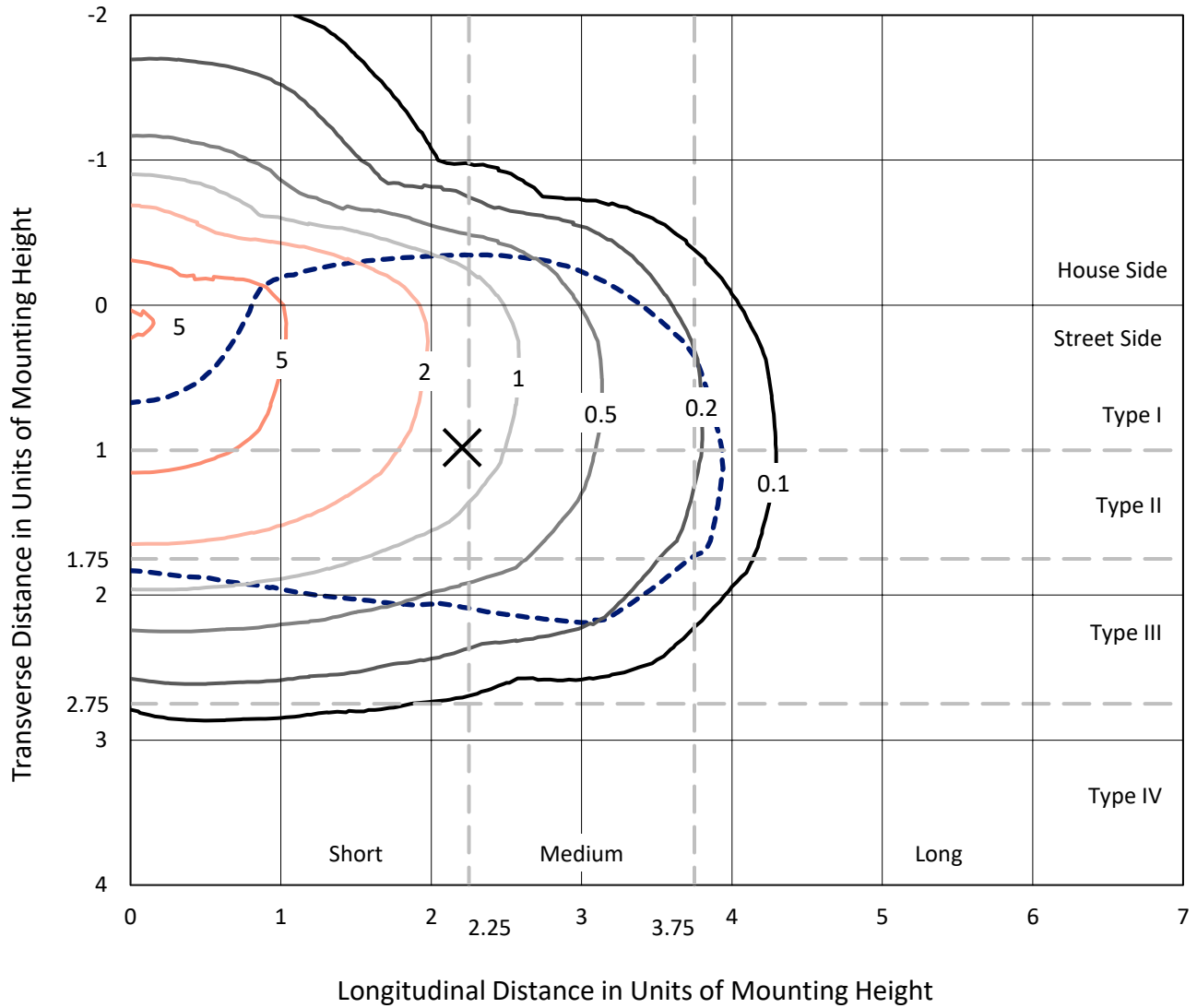
Input Watts (W): 255.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

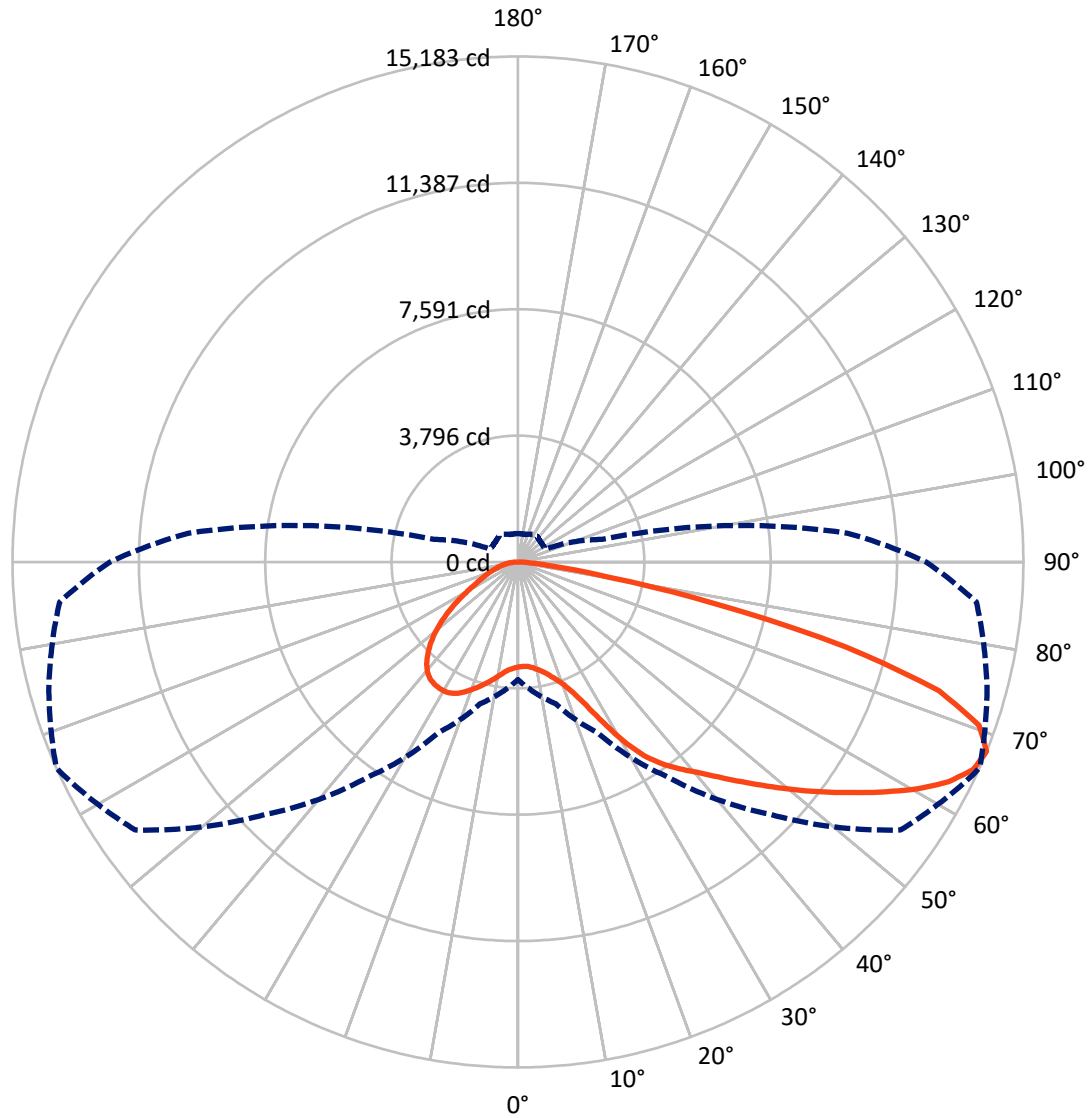
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7072.0	0.0	7072.0
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	21370.0	0.0	21370.0
	% Fixture	75.1	0.0	75.1
Total	Lumens	28442.0	0.0	28442.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	312.8	1.1
10°-20°	1033.3	3.6
20°-30°	1991.7	7.0
30°-40°	3492.2	12.3
40°-50°	5191.7	18.3
50°-60°	6581.0	23.1
60°-70°	6439.4	22.6
70°-80°	3071.6	10.8
80°-90°	328.3	1.2
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°	28442.0	100.0
0°-180°	28442.0	100.0

Coefficient of Utilization



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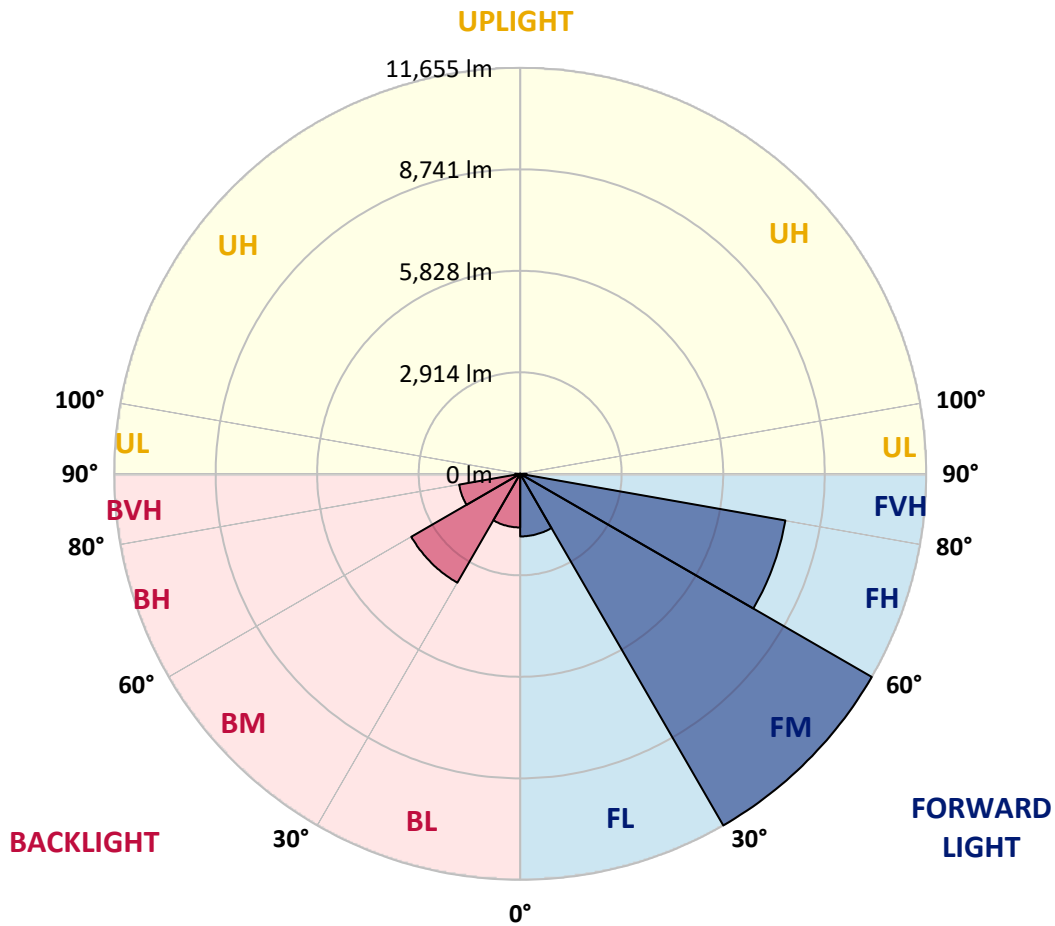
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1797.3	6.3			
FM (30°-60°)	11655.3	41.0			
FH (60°-80°)	7731.3	27.2			G4/12000
FVH (80°-90°)	186.1	0.7			G2/225
BL (0°-30°)	1540.5	5.4	B3/2500		
BM (30°-60°)	3609.6	12.7	B3/5000		
BH (60°-80°)	1779.7	6.3	B3/2500		G3/2500
BVH (80°-90°)	142.2	0.5			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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	3154.6	3154.6	3154.6	3154.6	3154.6	3154.6	3154.6	3154.6	3154.6	3154.6
2.5°	3121.7	3139.7	3135.2	3127.7	3126.2	3129.2	3133.7	3138.2	3136.7	3144.1
5°	3112.8	3130.7	3129.2	3129.2	3135.2	3147.1	3154.6	3162.1	3154.6	3163.6
7.5°	3118.7	3132.2	3138.2	3144.1	3159.1	3181.5	3199.4	3215.9	3206.9	3217.4
10°	3194.9	3205.4	3211.4	3211.4	3221.8	3247.2	3265.2	3295.1	3287.6	3304.0
12.5°	3333.9	3344.4	3344.4	3338.4	3345.9	3362.3	3368.3	3401.2	3387.7	3414.6
15°	3504.3	3525.2	3508.8	3498.3	3501.3	3517.7	3516.2	3541.6	3528.2	3550.6
17.5°	3692.6	3719.5	3692.6	3691.1	3685.1	3703.0	3704.5	3726.9	3703.0	3719.5
20°	3915.2	3952.6	3930.2	3937.6	3924.2	3931.7	3939.1	3972.0	3934.6	3946.6
22.5°	4229.0	4273.9	4250.0	4278.4	4269.4	4263.4	4261.9	4320.2	4261.9	4266.4
25°	4686.3	4740.1	4698.3	4737.1	4737.1	4756.5	4779.0	4853.7	4756.5	4728.2
27.5°	5361.8	5415.6	5333.4	5357.3	5349.8	5397.6	5373.7	5559.0	5454.4	5408.1
30°	6174.7	6270.3	6114.9	6108.9	6101.5	6177.7	6212.1	6334.6	6228.5	6182.2
32.5°	7053.4	7153.5	6968.2	6914.4	6886.0	6932.3	6903.9	7002.6	6929.3	6857.6
35°	7982.9	8081.5	7905.2	7800.6	7687.0	7589.9	7488.2	7513.6	7444.9	7335.8
37.5°	8861.6	9042.4	8855.6	8743.5	8534.3	8344.5	8060.6	7942.5	7878.3	7778.1
40°	9756.7	9859.8	9717.8	9622.2	9395.0	9097.7	8643.4	8393.8	8307.1	8210.0
42.5°	10415.7	10514.3	10438.1	10372.4	10194.5	9849.3	9262.0	8949.7	8824.2	8715.1
45°	10938.7	11011.9	10964.1	10988.0	10911.8	10577.1	9903.1	9546.0	9416.0	9283.0
47.5°	11149.4	11227.1	11303.3	11445.3	11575.3	11328.7	10592.0	10191.5	10054.1	9918.1
50°	11125.5	11204.7	11425.9	11727.7	12131.2	12049.0	11318.3	10878.9	10751.9	10596.5
52.5°	10934.2	11023.9	11307.8	11809.9	12452.5	12588.5	12058.0	11588.8	11469.2	11283.9
55°	10432.1	10485.9	10911.8	11623.1	12528.7	12965.1	12782.8	12344.9	12225.4	11966.8
57.5°	9501.1	9578.8	10199.0	11119.5	12337.4	13220.6	13419.4	13139.9	13024.8	12652.7
60°	8286.2	8410.3	9120.1	10273.7	11850.3	13219.1	13997.7	13921.5	13825.8	13328.2
62.5°	6911.4	7054.9	7737.8	9078.2	10998.5	12844.0	14359.3	14576.0	14526.7	13951.3
65°	5308.0	5406.6	6086.5	7531.6	9673.0	12038.6	14401.1	15022.8	15031.8	14425.1
67.5°	3534.2	3818.1	4408.4	5651.7	7897.7	10722.0	14033.5	15096.0	15182.7	14587.9
70°	1724.5	2098.1	2676.4	3673.1	5651.7	8703.2	13072.7	14495.3	14688.1	14112.7
72.5°	715.8	836.8	1152.2	1812.7	3244.3	5872.8	11141.9	12866.4	13223.6	12504.8
75°	482.7	523.0	659.0	929.5	1477.9	2896.1	8035.2	9593.8	10169.1	9444.4
77.5°	372.1	397.5	479.7	650.0	878.7	1095.4	4300.8	5781.7	6079.1	5627.8
80°	292.9	312.3	358.6	473.7	623.1	585.8	1466.0	2619.6	2791.5	2341.7
82.5°	254.0	261.5	257.0	321.3	413.9	342.2	481.2	966.9	1067.0	774.1
85°	183.8	204.7	213.7	198.7	219.7	173.3	197.3	342.2	376.6	336.2
87.5°	74.7	110.6	136.0	128.5	80.7	49.3	61.3	100.1	115.1	125.5
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°
3154.6	0°	3154.6	3154.6	3154.6	3154.6	3154.6	3154.6	3154.6	3154.6	3154.6	3154.6
3156.1	2.5°	3157.6	3168.0	3175.5	3184.5	3190.5	3199.4	3217.4	3227.8	3229.3	3236.8
3180.0	5°	3186.0	3200.9	3217.4	3241.3	3268.2	3290.6	3325.0	3348.9	3357.8	3365.3
3238.3	7.5°	3247.2	3268.2	3298.1	3339.9	3378.7	3408.6	3450.5	3478.9	3507.3	3517.7
3330.9	10°	3338.4	3368.3	3411.6	3468.4	3510.3	3549.1	3592.4	3616.4	3644.7	3656.7
3441.5	12.5°	3452.0	3483.4	3540.1	3619.3	3658.2	3685.1	3700.0	3694.1	3700.0	3710.5
3574.5	15°	3582.0	3616.4	3680.6	3765.8	3792.7	3768.8	3735.9	3706.0	3701.5	3704.5
3735.9	17.5°	3735.9	3761.3	3836.0	3907.8	3888.3	3789.7	3718.0	3670.1	3646.2	3638.8
3942.1	20°	3951.1	3951.1	4012.4	4057.2	3927.2	3759.8	3647.7	3570.0	3520.7	3499.8
4223.1	22.5°	4212.6	4188.7	4227.5	4196.2	3919.7	3676.1	3520.7	3386.2	3311.5	3281.6
4616.1	25°	4544.3	4516.0	4505.5	4311.2	3865.9	3543.1	3290.6	3127.7	3061.9	3045.5
5182.4	27.5°	5045.0	4973.2	4837.2	4374.0	3767.3	3333.9	3021.6	2870.7	2833.3	2834.8
5910.2	30°	5711.4	5568.0	5234.7	4384.5	3605.9	3038.0	2746.6	2639.0	2621.1	2628.6
6521.4	32.5°	6328.6	6192.6	5641.2	4336.6	3357.8	2748.1	2500.1	2428.3	2401.4	2410.4
6987.6	35°	6812.8	6775.4	6017.8	4269.4	3053.0	2476.2	2278.9	2217.6	2165.3	2153.4
7427.0	37.5°	7270.1	7255.1	6300.2	4175.2	2751.1	2283.4	2101.1	2020.4	1944.2	1902.3
7912.6	40°	7772.2	7757.2	6485.5	4030.3	2483.6	2116.0	1941.2	1835.1	1740.9	1664.7
8462.6	42.5°	8337.0	8248.9	6573.7	3822.6	2256.5	1974.0	1811.2	1667.7	1543.7	1473.4
9084.2	45°	8954.2	8755.5	6572.2	3558.1	2065.2	1844.0	1672.2	1469.0	1353.9	1288.1
9722.3	47.5°	9608.7	9239.6	6491.5	3265.2	1879.9	1700.6	1457.0	1301.6	1225.4	1185.0
10415.7	50°	10284.2	9692.4	6354.0	2928.9	1690.1	1537.7	1322.5	1216.4	1158.1	1120.8
11103.1	52.5°	10919.3	10103.4	6188.1	2547.9	1497.3	1379.3	1262.7	1180.5	1119.3	1077.4
11769.6	55°	11509.6	10457.5	5953.5	2157.9	1340.4	1273.2	1234.3	1165.6	1095.4	1046.1
12446.5	57.5°	12034.1	10687.7	5548.6	1791.7	1228.4	1200.0	1204.5	1140.2	1059.5	1017.7
13113.0	60°	12470.4	10856.5	4949.3	1452.5	1137.2	1128.2	1158.1	1092.4	998.2	950.4
13676.4	62.5°	12731.9	10853.5	4214.1	1189.5	1059.5	1062.5	1096.9	1032.6	937.0	892.1
13970.8	65°	12709.5	10587.5	3407.1	1017.7	984.8	987.8	1032.6	966.9	886.2	859.3
13822.8	67.5°	12259.7	9939.0	2613.6	905.6	902.6	916.0	968.3	922.0	854.8	851.8
12941.2	70°	11041.8	8592.6	1882.9	815.9	817.4	836.8	905.6	893.6	838.3	844.3
10880.4	72.5°	8854.1	6551.3	1264.2	721.8	723.3	754.7	845.8	871.2	821.9	901.1
7719.9	75°	5896.7	4085.6	812.9	621.7	623.1	663.5	793.5	827.9	777.1	898.1
4016.8	77.5°	2833.3	1836.6	588.8	523.0	523.0	560.4	685.9	741.2	662.0	697.9
1291.1	80°	978.8	690.4	463.3	421.4	412.4	437.8	578.3	642.6	570.8	526.0
421.4	82.5°	385.5	358.6	372.1	327.3	297.4	313.8	449.8	530.5	419.9	379.6
237.6	85°	221.2	233.1	263.0	216.7	171.9	192.8	330.3	381.1	316.8	279.4
77.7	87.5°	59.8	82.2	121.0	112.1	77.7	82.2	156.9	210.7	182.3	140.5
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>
3154.6
3235.3
3363.8
3519.2
3662.7
3713.5
3715.0
3649.2
3495.3
3277.1
3048.5
2839.3
2654.0
2422.4
2162.3
1903.8
1672.2
1477.9
1285.1
1176.1
1107.3
1059.5
1026.6
990.8
929.5
878.7
857.8
856.3
842.8
913.1
905.6
639.6
493.1
378.1
285.4
145.0
0.0

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