

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: P956967

Luminaire Tested: **GALN-SB9B-950-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956967
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-SB9B-950-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35610 lumens
Efficiency: N/A
Efficacy: 108.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

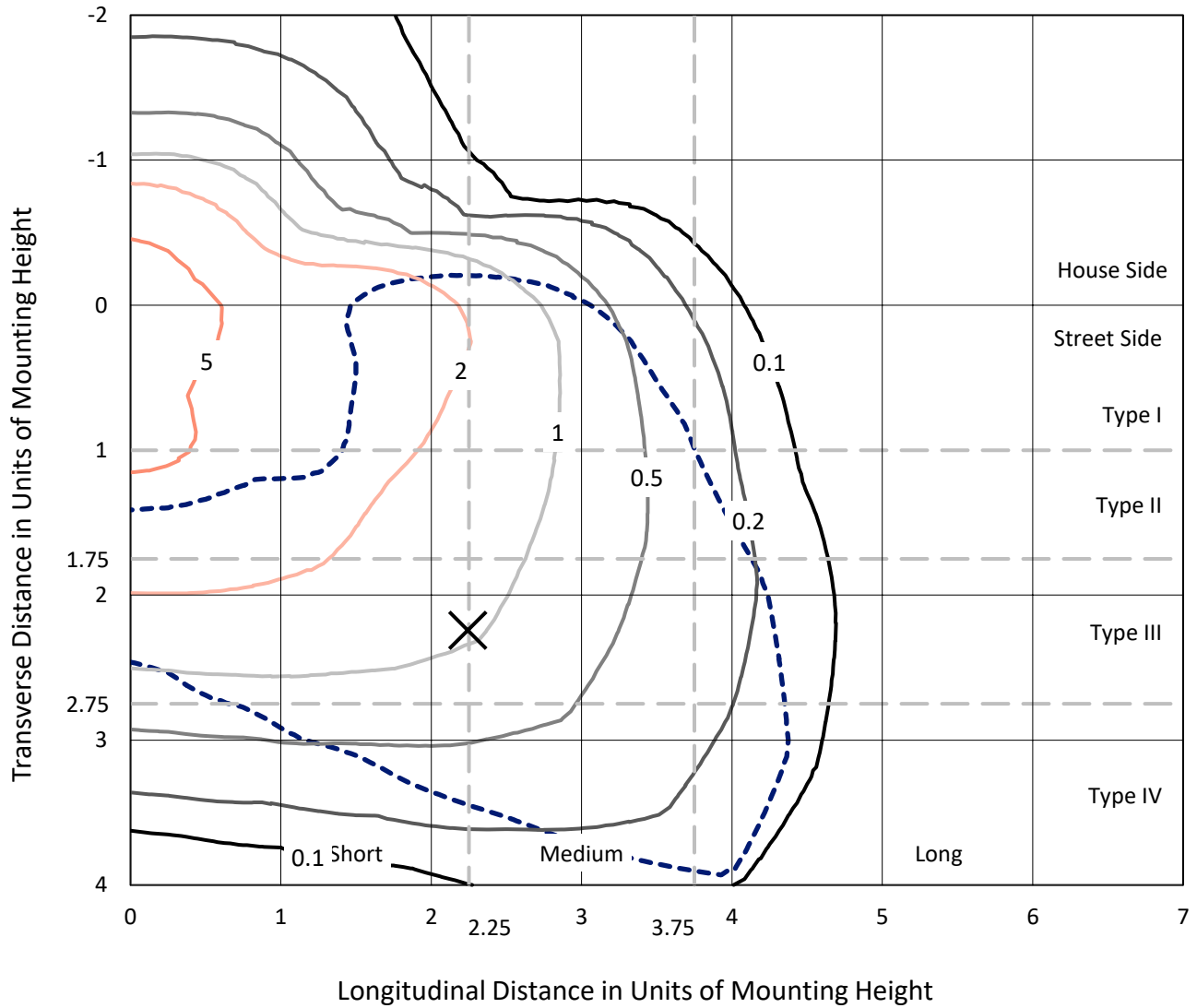
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

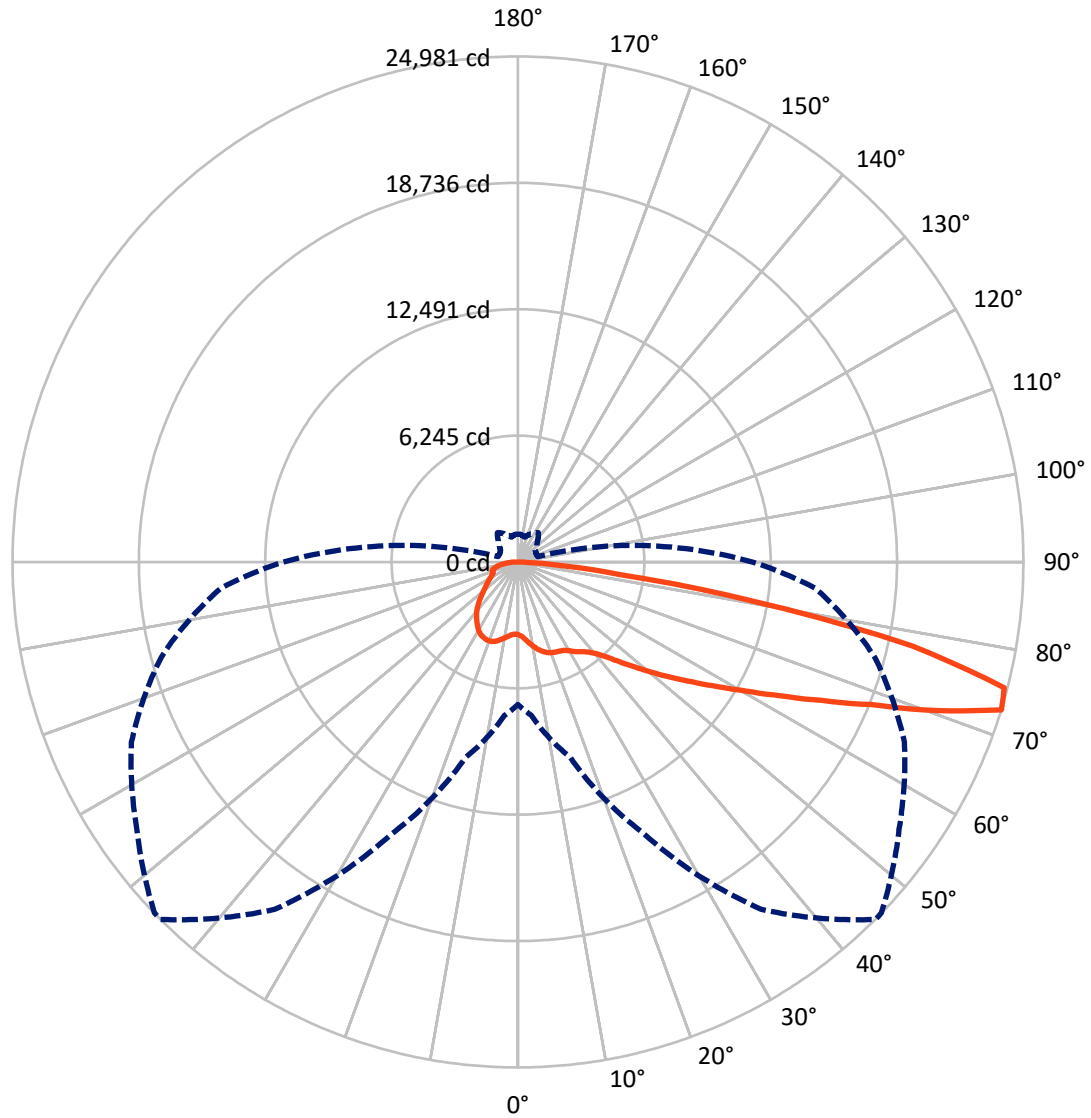
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 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	8050.2	0.0	8050.2
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	27559.8	0.0	27559.8
	% Fixture	77.4	0.0	77.4
Total	Lumens	35610.0	0.0	35610.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	365.6	1.0
10°-20°	1219.1	3.4
20°-30°	2120.6	6.0
30°-40°	3040.0	8.5
40°-50°	4280.5	12.0
50°-60°	6556.5	18.4
60°-70°	9498.1	26.7
70°-80°	7584.8	21.3
80°-90°	944.7	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°	35610.0	100.0
0°-180°	35610.0	100.0



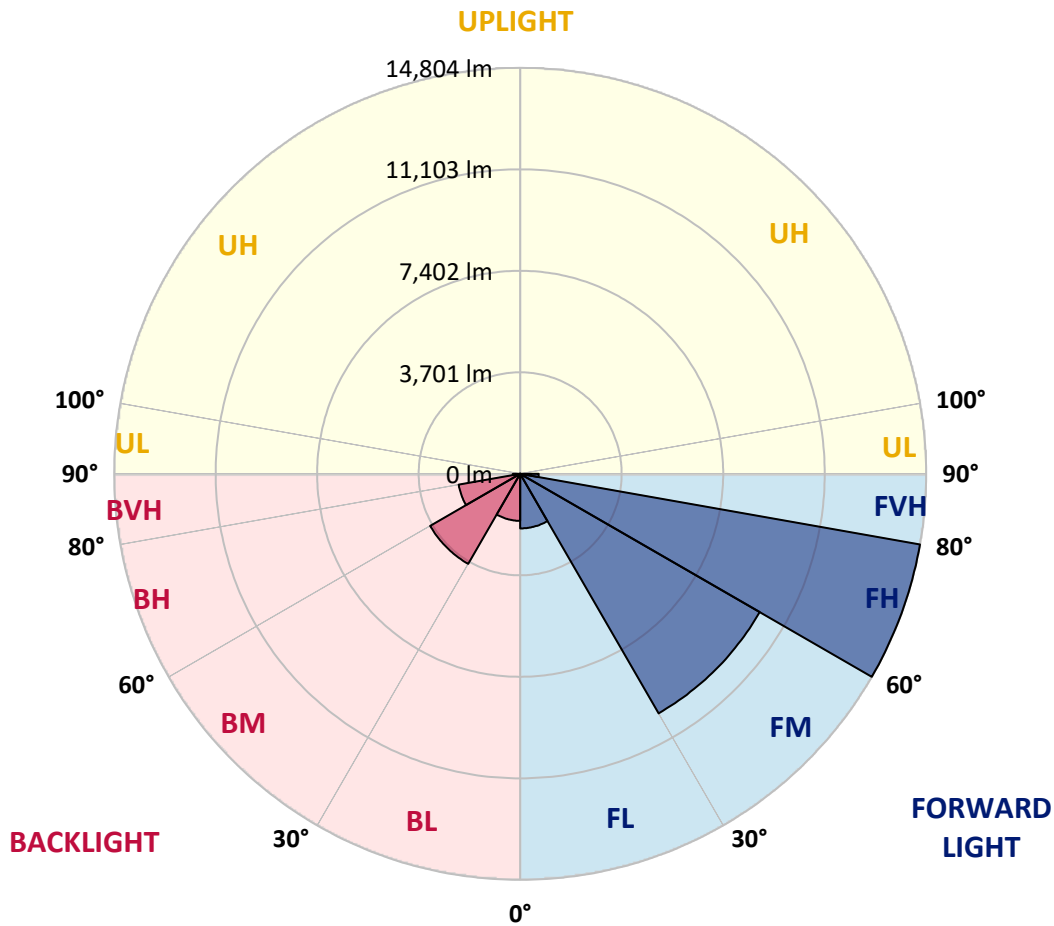
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1991.4	5.6			
FM (30°-60°)	10086.6	28.3			
FH (60°-80°)	14804.1	41.6			G5
FVH (80°-90°)	677.7	1.9			G4/750
BL (0°-30°)	1714.0	4.8	B3/2500		
BM (30°-60°)	3790.5	10.6	B3/5000		
BH (60°-80°)	2278.8	6.4	B3/2500		G3/2500
BVH (80°-90°)	266.9	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	3592.4	3592.4	3592.4	3592.4	3592.4	3592.4	3592.4	3592.4	3592.4	3592.4
2.5°	3733.0	3757.4	3734.9	3714.3	3704.9	3680.5	3678.6	3663.6	3654.3	3628.0
5°	3993.8	4025.7	3988.2	3946.9	3909.4	3849.4	3841.9	3798.7	3749.9	3693.7
7.5°	4288.3	4316.5	4273.3	4211.4	4145.7	4046.3	4044.4	3965.7	3888.7	3793.1
10°	4545.3	4582.8	4524.7	4440.3	4357.7	4245.2	4232.0	4142.0	4044.4	3920.6
12.5°	4772.3	4798.6	4742.3	4639.1	4543.4	4430.9	4414.0	4314.6	4205.8	4065.1
15°	4952.4	4986.2	4911.1	4800.4	4699.1	4588.5	4573.5	4483.4	4374.6	4226.4
17.5°	5070.6	5098.7	5021.8	4898.0	4800.4	4708.5	4697.3	4622.2	4526.6	4376.5
20°	5115.6	5145.6	5064.9	4939.3	4849.2	4777.9	4772.3	4717.9	4652.2	4515.3
22.5°	5160.6	5188.8	5083.7	4952.4	4873.6	4828.6	4826.7	4791.1	4764.8	4652.2
25°	5342.6	5350.1	5209.4	5019.9	4907.4	4868.0	4866.1	4864.2	4875.5	4787.3
27.5°	5500.2	5498.3	5378.2	5200.0	5025.5	4943.0	4941.1	4959.9	4995.5	4922.4
30°	5730.9	5710.3	5567.7	5382.0	5222.5	5095.0	5083.7	5066.8	5095.0	5036.8
32.5°	6220.5	6154.8	5924.1	5593.9	5385.7	5288.2	5273.2	5168.1	5179.4	5143.7
35°	6922.1	6835.8	6528.1	5995.4	5588.3	5449.5	5442.0	5308.8	5286.3	5254.4
37.5°	7756.9	7649.9	7291.6	6576.9	5937.2	5637.1	5625.8	5505.8	5413.9	5380.1
40°	8595.4	8460.3	8163.9	7286.0	6451.2	5950.4	5914.7	5732.8	5627.7	5571.4
42.5°	9409.5	9297.0	9043.7	8081.4	7085.3	6408.1	6329.3	6017.9	5939.1	5886.6
45°	10129.9	10028.6	9842.9	8931.2	7828.1	7030.9	6954.0	6445.6	6421.2	6421.2
47.5°	10715.2	10692.7	10495.7	9797.8	8704.2	7740.0	7606.8	7040.3	7105.9	7207.2
50°	11364.2	11302.3	11092.2	10651.4	9734.1	8552.2	8443.4	7770.0	8015.7	8293.4
52.5°	11960.8	11994.5	11760.0	11540.6	10897.1	9458.3	9267.0	8631.0	9161.9	9621.5
55°	12574.2	12576.1	12510.4	12480.4	12116.5	10460.0	10249.9	9666.5	10510.7	11081.0
57.5°	13150.1	13153.8	13251.4	13515.9	13530.9	11615.6	11377.4	10938.4	12009.5	12591.1
60°	13664.1	13690.3	13956.7	14575.8	14774.6	12940.0	12714.9	12441.0	13559.0	14144.3
62.5°	13836.7	13932.3	14525.1	15404.9	16003.3	14564.5	14343.2	14180.0	15187.3	15731.3
65°	13544.0	13763.5	14909.7	16089.6	17267.7	16494.8	16275.3	16097.1	16879.4	17391.5
67.5°	12825.6	13108.8	14887.2	16808.1	18802.2	18817.2	18612.7	18194.4	18693.4	18890.4
70°	10932.8	11356.7	13575.9	17076.4	20563.7	21993.1	21796.1	20719.4	20503.6	19550.7
72.5°	7044.0	7614.3	9996.7	14868.4	20955.7	24981.4	24970.2	22998.6	21075.8	18267.6
75°	2570.0	2918.9	4644.7	9332.6	17590.4	24829.5	24902.6	22608.4	19239.3	14110.5
77.5°	936.1	1024.2	1515.7	3586.7	10818.3	19922.1	20074.0	18074.3	13694.1	7081.5
80°	491.5	540.3	776.6	1391.9	4635.4	11831.3	12069.6	10741.4	6436.2	2132.9
82.5°	272.0	294.5	435.2	756.0	2087.9	5059.3	5201.9	4243.3	2264.2	904.2
85°	146.3	155.7	204.5	412.7	1020.5	1754.0	1793.4	1268.1	902.3	530.9
87.5°	43.1	52.5	67.5	131.3	399.6	393.9	403.3	251.4	356.4	268.3
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°
3592.4	0°	3592.4	3592.4	3592.4	3592.4	3592.4	3592.4	3592.4	3592.4	3592.4	3592.4
3620.5	2.5°	3609.2	3603.6	3583.0	3573.6	3562.3	3560.5	3569.8	3571.7	3573.6	3575.5
3661.8	5°	3643.0	3624.2	3605.5	3594.2	3598.0	3599.9	3618.6	3631.7	3641.1	3648.6
3738.7	7.5°	3708.7	3693.7	3661.8	3659.9	3665.5	3682.4	3706.8	3736.8	3753.7	3766.8
3838.1	10°	3806.2	3778.1	3740.6	3746.2	3757.4	3781.8	3832.5	3856.9	3885.0	3909.4
3960.0	12.5°	3905.6	3881.2	3838.1	3841.9	3860.6	3903.8	3952.5	3982.5	4001.3	4020.1
4091.3	15°	4035.1	3991.9	3945.0	3945.0	3978.8	4025.7	4048.2	4072.6	4083.8	4104.5
4232.0	17.5°	4168.3	4112.0	4050.1	4046.3	4087.6	4110.1	4123.2	4127.0	4130.7	4153.3
4369.0	20°	4301.4	4239.5	4151.4	4143.9	4153.3	4149.5	4147.6	4143.9	4149.5	4177.6
4509.7	22.5°	4432.8	4361.5	4239.5	4205.8	4179.5	4143.9	4142.0	4140.1	4143.9	4172.0
4661.6	25°	4586.6	4500.3	4337.1	4235.8	4147.6	4098.8	4104.5	4106.4	4110.1	4132.6
4819.2	27.5°	4753.5	4657.9	4427.1	4226.4	4067.0	4033.2	4023.8	4029.4	4042.6	4078.2
4976.8	30°	4920.5	4807.9	4509.7	4188.9	3965.7	3918.8	3888.7	3901.9	3943.1	3978.8
5113.7	32.5°	5072.4	4959.9	4575.3	4106.4	3836.2	3763.1	3723.7	3740.6	3781.8	3795.0
5265.7	35°	5250.7	5123.1	4603.5	3975.0	3695.5	3583.0	3530.5	3506.1	3526.7	3513.6
5443.9	37.5°	5449.5	5316.3	4599.7	3802.5	3530.5	3401.0	3327.9	3235.9	3192.8	3147.8
5706.5	40°	5744.0	5552.7	4554.7	3594.2	3326.0	3207.8	3076.5	2920.8	2823.2	2735.1
6130.5	42.5°	6145.5	5881.0	4472.2	3365.4	3095.2	2984.6	2806.4	2624.4	2470.6	2324.2
6773.9	45°	6743.9	6310.5	4369.0	3121.5	2845.7	2736.9	2543.7	2339.3	2164.8	1977.2
7687.5	47.5°	7606.8	6888.3	4271.4	2843.9	2583.1	2483.7	2309.2	2119.8	1913.4	1731.5
9008.1	50°	8792.4	7717.5	4181.4	2573.7	2324.2	2249.2	2110.4	1917.2	1708.9	1562.6
10555.7	52.5°	10300.6	8844.9	4143.9	2313.0	2082.3	2054.1	1943.4	1763.3	1566.4	1442.6
12360.3	55°	12032.0	10193.7	4143.9	2063.5	1870.3	1879.7	1802.7	1635.8	1465.1	1354.4
14221.2	57.5°	13799.1	11559.3	4068.8	1832.8	1690.2	1729.6	1680.8	1534.5	1380.7	1266.2
16177.8	60°	15427.4	12703.6	3764.9	1622.7	1530.7	1592.6	1560.8	1435.1	1247.5	1151.8
17813.6	62.5°	16678.7	13348.9	3179.7	1455.7	1399.4	1470.7	1453.8	1303.8	1223.1	1183.7
19156.7	65°	17305.2	13243.9	2431.2	1307.5	1288.7	1399.4	1363.8	1358.2	1294.4	1249.4
19593.8	67.5°	16920.7	12339.7	1763.3	1198.7	1225.0	1333.8	1470.7	1493.2	1375.0	1286.9
18363.2	70°	15234.2	10703.9	1313.1	1095.5	1144.3	1335.6	1677.1	1562.6	1348.8	1245.6
14727.7	72.5°	11589.3	7982.0	1018.6	986.7	1039.3	1345.0	1769.0	1530.7	1273.7	1376.9
9175.0	75°	6627.6	4382.1	817.9	853.5	907.9	1256.9	1722.1	1448.2	1215.6	1264.4
3635.5	77.5°	2526.8	1684.6	675.3	722.2	729.7	1097.4	1647.0	1442.6	1157.4	1129.3
1089.9	80°	876.0	658.4	559.0	574.0	564.6	975.5	1579.5	1255.0	947.3	847.9
450.2	82.5°	358.3	328.3	442.7	424.0	401.4	757.9	1275.6	1026.1	774.7	684.7
217.6	85°	155.7	208.2	292.6	257.0	232.6	525.3	1022.4	868.5	654.7	564.6
71.3	87.5°	31.9	78.8	123.8	116.3	120.1	350.8	726.0	617.2	463.3	347.0
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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180°
3592.4
3583.0
3652.4
3770.6
3903.8
4027.6
4112.0
4160.8
4188.9
4190.8
4162.6
4113.9
4018.2
3841.9
3554.8
3175.9
2740.7
2311.1
1954.7
1710.8
1553.2
1433.2
1343.1
1247.5
1136.8
1170.6
1234.3
1271.9
1228.7
1365.7
1264.4
1029.9
819.8
677.2
562.8
272.0
0.0

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