

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: P943937

Luminaire Tested: **GALN-SB8C-927-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943937
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-SB8C-927-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36886 lumens
Efficiency: N/A
Efficacy: 92.3 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

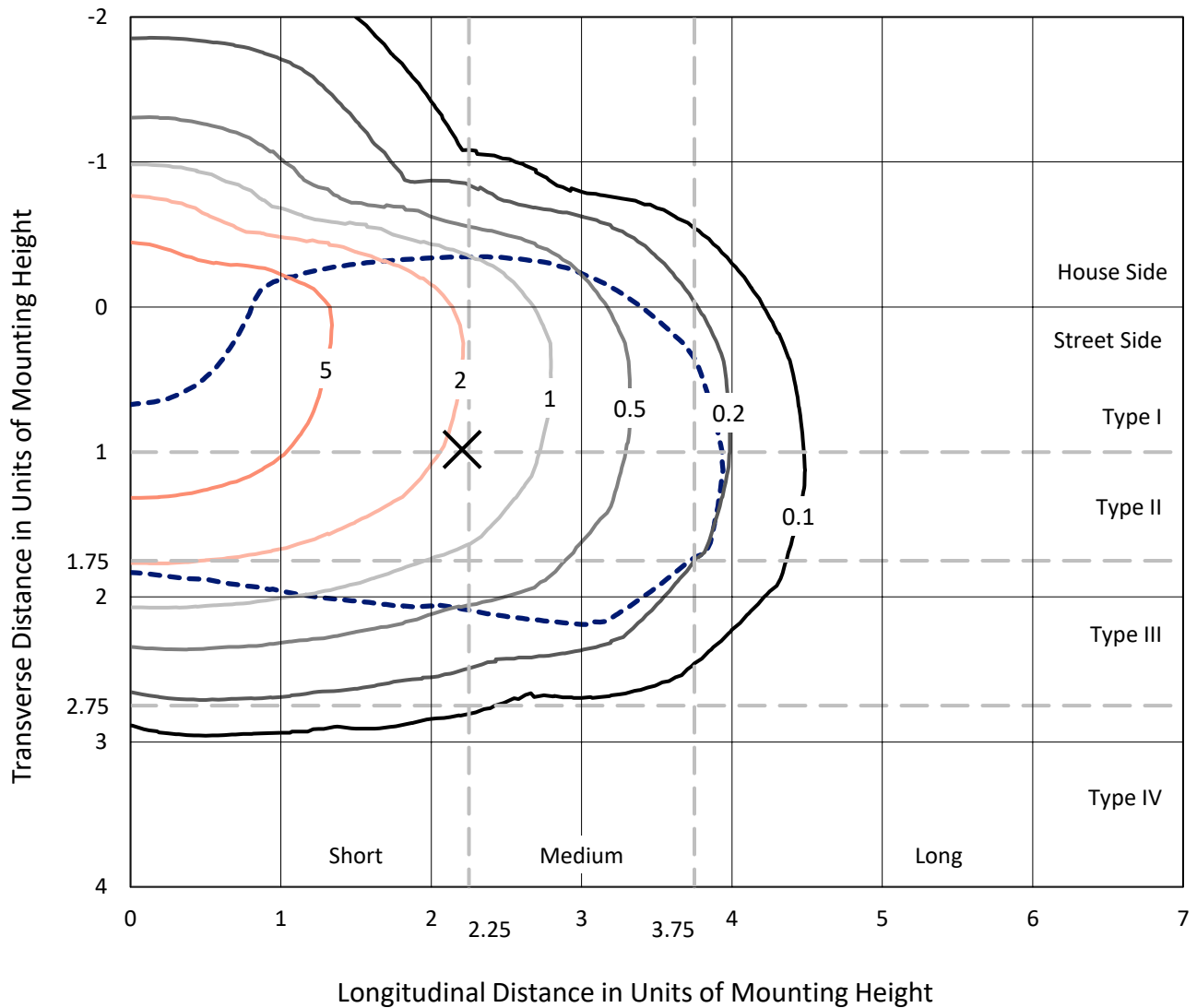
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

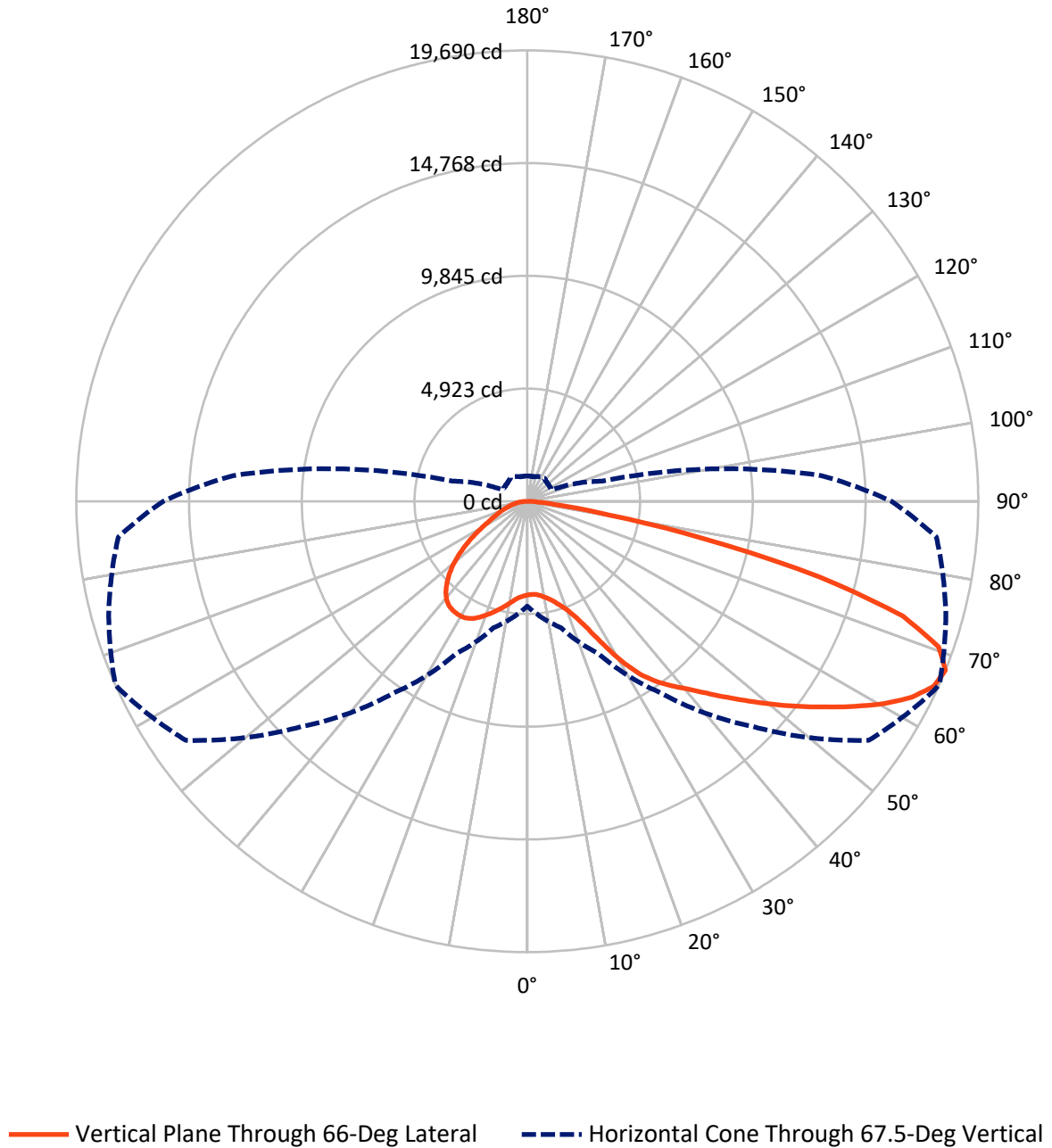
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9171.6	0.0	9171.6
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	27714.4	0.0	27714.4
	% Fixture	75.1	0.0	75.1
Total	Lumens	36886.0	0.0	36886.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	405.6	1.1
10°-20°	1340.1	3.6
20°-30°	2583.0	7.0
30°-40°	4529.0	12.3
40°-50°	6733.1	18.3
50°-60°	8534.8	23.1
60°-70°	8351.1	22.6
70°-80°	3983.6	10.8
80°-90°	425.7	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°	36886.0	100.0
0°-180°	36886.0	100.0

Coefficient of Utilization



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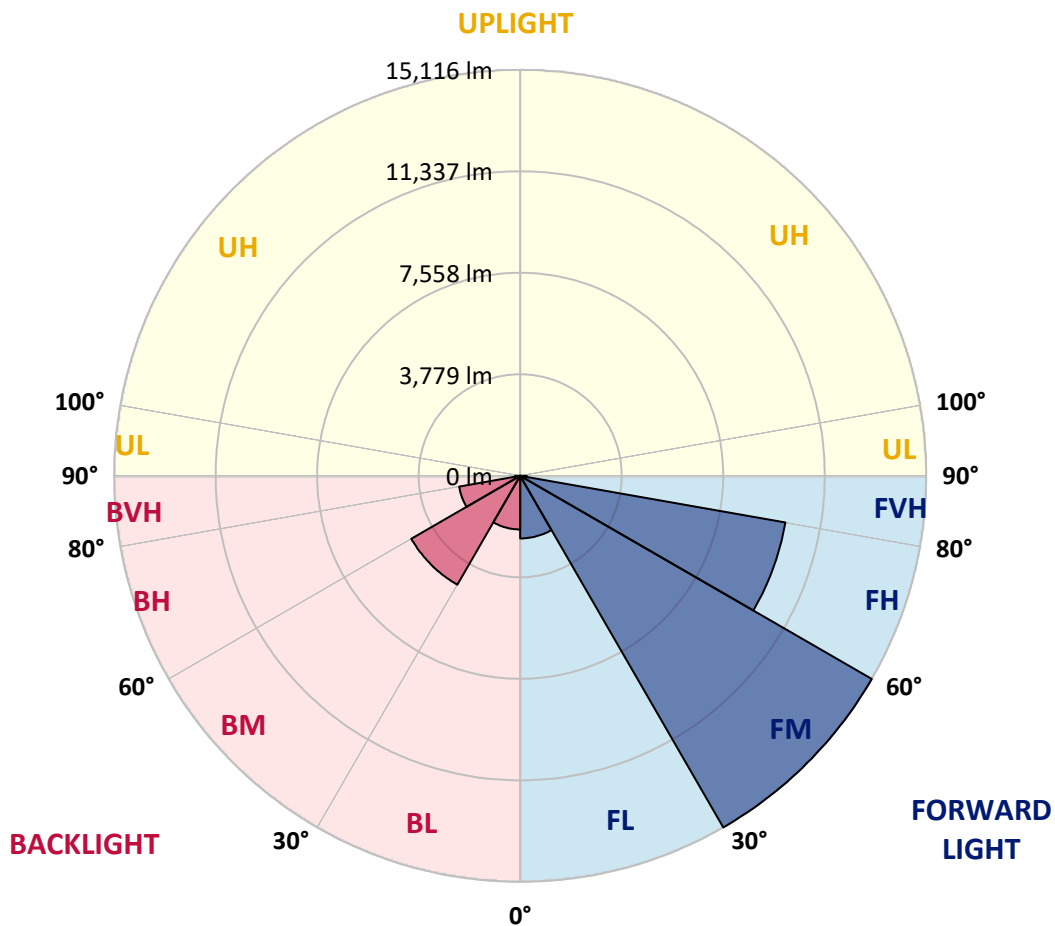
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2330.8	6.3			
FM (30°-60°)	15115.6	41.0			
FH (60°-80°)	10026.6	27.2			G4/12000
FVH (80°-90°)	241.4	0.7			G3/500
BL (0°-30°)	1997.9	5.4	B3/2500		
BM (30°-60°)	4681.3	12.7	B3/5000		
BH (60°-80°)	2308.1	6.3	B3/2500		G3/2500
BVH (80°-90°)	184.4	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°	4091.1	4091.1	4091.1	4091.1	4091.1	4091.1	4091.1	4091.1	4091.1	4091.1
2.5°	4048.5	4071.8	4066.0	4056.3	4054.3	4058.2	4064.0	4069.8	4067.9	4077.6
5°	4036.9	4060.1	4058.2	4058.2	4066.0	4081.5	4091.1	4100.8	4091.1	4102.8
7.5°	4044.6	4062.1	4069.8	4077.6	4097.0	4126.0	4149.3	4170.6	4159.0	4172.5
10°	4143.5	4157.0	4164.8	4164.8	4178.4	4211.3	4234.6	4273.3	4263.6	4284.9
12.5°	4323.7	4337.3	4337.3	4329.5	4339.2	4360.5	4368.3	4410.9	4393.5	4428.4
15°	4544.6	4571.8	4550.5	4536.9	4540.8	4562.1	4560.1	4593.1	4575.6	4604.7
17.5°	4788.8	4823.7	4788.8	4786.9	4779.1	4802.4	4804.3	4833.4	4802.4	4823.7
20°	5077.6	5126.0	5097.0	5106.7	5089.2	5098.9	5108.6	5151.2	5102.8	5118.3
22.5°	5484.6	5542.7	5511.7	5548.5	5536.9	5529.2	5527.2	5602.8	5527.2	5533.0
25°	6077.6	6147.4	6093.1	6143.5	6143.5	6168.7	6197.8	6294.7	6168.7	6131.9
27.5°	6953.6	7023.4	6916.8	6947.8	6938.1	7000.1	6969.1	7209.4	7073.7	7013.7
30°	8007.9	8131.9	7930.3	7922.6	7912.9	8011.7	8056.3	8215.2	8077.6	8017.6
32.5°	9147.4	9277.3	9037.0	8967.2	8930.4	8990.4	8953.6	9081.5	8986.6	8893.5
35°	10352.9	10480.8	10252.1	10116.4	9969.1	9843.2	9711.4	9744.3	9655.2	9513.7
37.5°	11492.4	11726.9	11484.7	11339.3	11068.0	10821.9	10453.6	10300.5	10217.2	10087.4
40°	12653.3	12787.0	12602.9	12478.9	12184.3	11798.6	11209.5	10885.8	10773.4	10647.4
42.5°	13507.9	13635.9	13537.0	13451.7	13221.1	12773.4	12011.8	11606.8	11444.0	11302.5
45°	14186.3	14281.2	14219.2	14250.2	14151.4	13717.3	12843.2	12380.0	12211.4	12038.9
47.5°	14459.5	14560.3	14659.1	14843.2	15011.8	14692.1	13736.6	13217.2	13038.9	12862.6
50°	14428.5	14531.2	14818.0	15209.5	15732.8	15626.2	14678.5	14108.7	13944.0	13742.4
52.5°	14180.4	14296.7	14664.9	15316.1	16149.5	16325.8	15637.8	15029.3	14874.2	14633.9
55°	13529.3	13599.0	14151.4	15073.9	16248.3	16814.2	16577.8	16009.9	15854.9	15519.6
57.5°	12321.9	12422.7	13226.9	14420.8	16000.2	17145.6	17403.4	17040.9	16891.7	16409.2
60°	10746.3	10907.1	11827.7	13323.8	15368.4	17143.7	18153.4	18054.5	17930.5	17285.1
62.5°	8963.3	9149.4	10035.0	11773.4	14263.8	16657.2	18622.4	18903.4	18839.8	18093.3
65°	6883.8	7011.7	7893.5	9767.6	12544.8	15612.6	18676.6	19482.8	19494.5	18707.6
67.5°	4583.4	4951.6	5717.1	7329.6	10242.4	13905.2	18199.9	19577.8	19690.2	18918.9
70°	2236.5	2721.0	3471.0	4763.6	7329.6	11287.0	16953.7	18798.7	19048.7	18302.6
72.5°	928.3	1085.3	1494.2	2350.8	4207.4	7616.4	14449.8	16686.3	17149.5	16217.3
75°	626.0	678.3	854.7	1205.4	1916.7	3755.9	10420.7	12442.0	13188.2	12248.2
77.5°	482.6	515.5	622.1	843.0	1139.6	1420.6	5577.6	7498.2	7883.8	7298.6
80°	379.9	405.0	465.1	614.4	808.2	759.7	1901.2	3397.3	3620.2	3036.9
82.5°	329.5	339.2	333.3	416.7	536.8	443.8	624.0	1253.9	1383.7	1003.9
85°	238.4	265.5	277.1	257.8	284.9	224.8	255.8	443.8	488.4	436.1
87.5°	96.9	143.4	176.4	166.7	104.7	64.0	79.5	129.8	149.2	162.8
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°
4091.1	0°	4091.1	4091.1	4091.1	4091.1	4091.1	4091.1	4091.1	4091.1	4091.1	4091.1
4093.1	2.5°	4095.0	4108.6	4118.3	4129.9	4137.7	4149.3	4172.5	4186.1	4188.0	4197.7
4124.1	5°	4131.8	4151.2	4172.5	4203.5	4238.4	4267.5	4312.1	4343.1	4354.7	4364.4
4199.7	7.5°	4211.3	4238.4	4277.2	4331.5	4381.8	4420.6	4474.9	4511.7	4548.5	4562.1
4319.8	10°	4329.5	4368.3	4424.5	4498.1	4552.4	4602.8	4659.0	4690.0	4726.8	4742.3
4463.2	12.5°	4476.8	4517.5	4591.2	4693.9	4744.3	4779.1	4798.5	4790.8	4798.5	4812.1
4635.7	15°	4645.4	4690.0	4773.3	4883.8	4918.7	4887.7	4845.0	4806.3	4800.5	4804.3
4845.0	17.5°	4845.0	4878.0	4974.9	5067.9	5042.7	4914.8	4821.8	4759.8	4728.8	4719.1
5112.5	20°	5124.1	5124.1	5203.6	5261.7	5093.1	4876.0	4730.7	4629.9	4566.0	4538.8
5476.8	22.5°	5463.3	5432.2	5482.6	5441.9	5083.4	4767.5	4566.0	4391.5	4294.6	4255.9
5986.5	25°	5893.5	5856.7	5843.1	5591.2	5013.6	4595.0	4267.5	4056.3	3971.0	3949.7
6721.0	27.5°	6542.7	6449.7	6273.3	5672.6	4885.7	4323.7	3918.7	3722.9	3674.5	3676.4
7664.8	30°	7407.1	7221.0	6788.9	5686.1	4676.4	3940.0	3562.1	3422.5	3399.3	3409.0
8457.5	32.5°	8207.5	8031.1	7316.0	5624.1	4354.7	3564.0	3242.3	3149.3	3114.4	3126.0
9062.1	35°	8835.4	8786.9	7804.4	5536.9	3959.4	3211.3	2955.5	2876.0	2808.2	2792.7
9631.9	37.5°	9428.4	9409.1	8170.7	5414.8	3567.9	2961.3	2724.8	2620.2	2521.4	2467.1
10261.8	40°	10079.6	10060.2	8411.0	5226.8	3221.0	2744.2	2517.5	2379.9	2257.8	2158.9
10975.0	42.5°	10812.2	10697.8	8525.3	4957.4	2926.4	2560.1	2348.9	2162.8	2002.0	1910.9
11781.2	45°	11612.6	11354.8	8523.4	4614.4	2678.3	2391.5	2168.6	1905.1	1755.8	1670.6
12608.7	47.5°	12461.4	11982.7	8418.7	4234.6	2438.0	2205.5	1889.6	1688.0	1589.2	1536.8
13507.9	50°	13337.4	12570.0	8240.4	3798.5	2191.9	1994.2	1715.1	1577.5	1502.0	1453.5
14399.4	52.5°	14161.1	13102.9	8025.3	3304.3	1941.9	1788.8	1637.6	1531.0	1451.6	1397.3
15263.8	55°	14926.6	13562.2	7721.0	2798.5	1738.4	1651.2	1600.8	1511.6	1420.6	1356.6
16141.7	57.5°	15606.8	13860.7	7195.8	2323.7	1593.0	1556.2	1562.0	1478.7	1374.1	1319.8
17006.1	60°	16172.7	14079.7	6418.7	1883.7	1474.8	1463.2	1502.0	1416.7	1294.6	1232.6
17736.7	62.5°	16511.9	14075.8	5465.2	1542.7	1374.1	1377.9	1422.5	1339.2	1215.1	1157.0
18118.5	65°	16482.8	13730.8	4418.7	1319.8	1277.2	1281.0	1339.2	1253.9	1149.2	1114.4
17926.6	67.5°	15899.5	12889.7	3389.6	1174.4	1170.6	1188.0	1255.8	1195.8	1108.5	1104.7
16783.2	70°	14320.0	11143.6	2441.9	1058.2	1060.1	1085.3	1174.4	1158.9	1087.2	1095.0
14110.7	72.5°	11482.7	8496.2	1639.6	936.1	938.0	978.7	1096.9	1129.9	1065.9	1168.6
10011.8	75°	7647.4	5298.5	1054.3	806.2	808.2	860.5	1029.1	1073.7	1007.8	1164.7
5209.4	77.5°	3674.5	2381.8	763.6	678.3	678.3	726.8	889.5	961.3	858.5	905.1
1674.4	80°	1269.4	895.4	600.8	546.5	534.9	567.8	750.0	833.3	740.3	682.2
546.5	82.5°	500.0	465.1	482.6	424.4	385.7	407.0	583.3	688.0	544.6	492.3
308.1	85°	286.8	302.3	341.1	281.0	222.9	250.0	428.3	494.2	410.9	362.4
100.8	87.5°	77.5	106.6	157.0	145.4	100.8	106.6	203.5	273.3	236.4	182.2
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°
4091.1
4195.8
4362.5
4564.0
4750.1
4816.0
4817.9
4732.6
4533.0
4250.1
3953.5
3682.2
3441.9
3141.5
2804.3
2469.0
2168.6
1916.7
1666.7
1525.2
1436.1
1374.1
1331.4
1284.9
1205.4
1139.6
1112.4
1110.5
1093.0
1184.1
1174.4
829.5
639.5
490.3
370.2
188.0
0.0

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