

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: P941817

Luminaire Tested: **GALN-SB5C-740-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941817
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-SB5C-740-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40051 lumens
Efficiency: N/A
Efficacy: 160.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

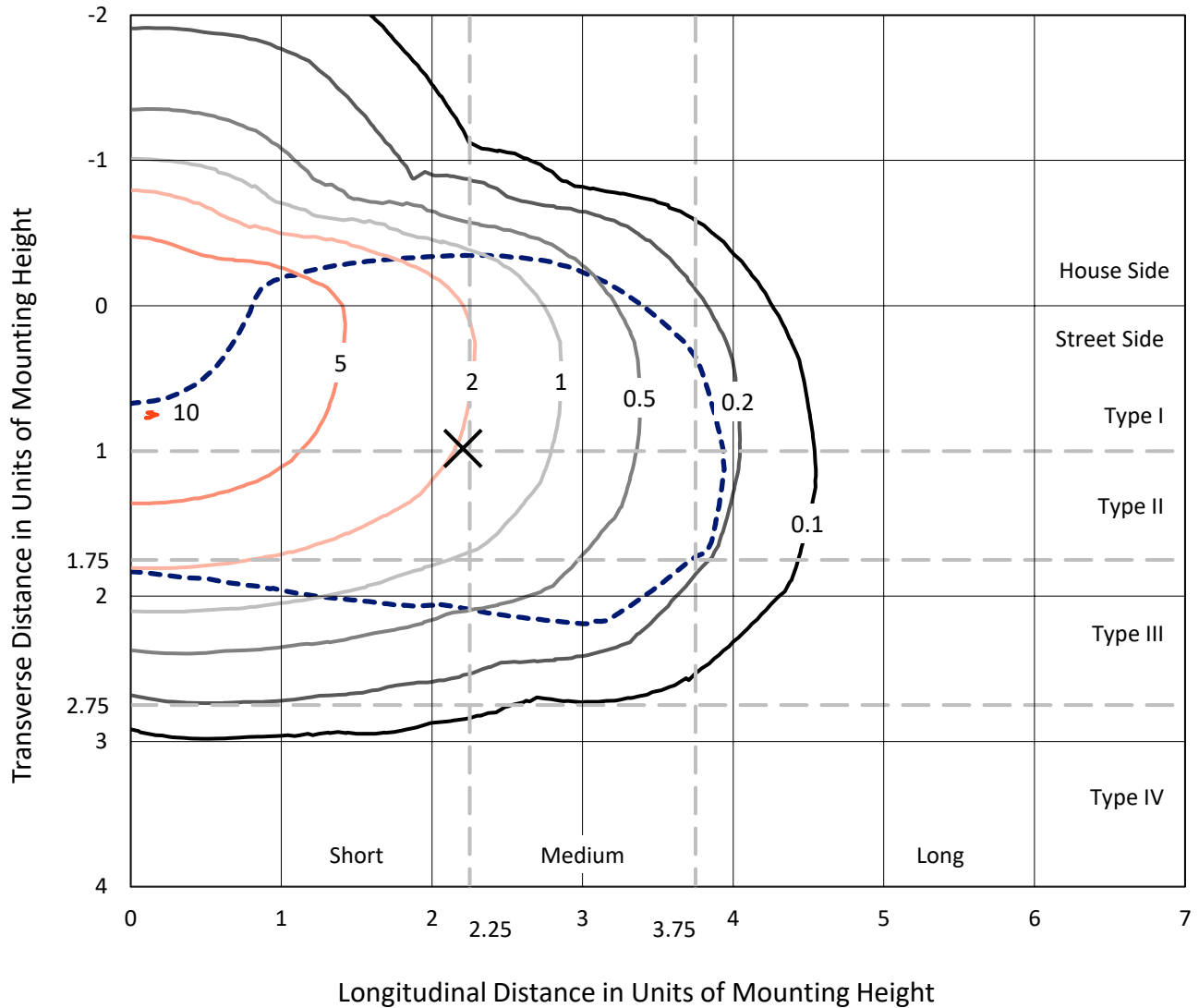
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

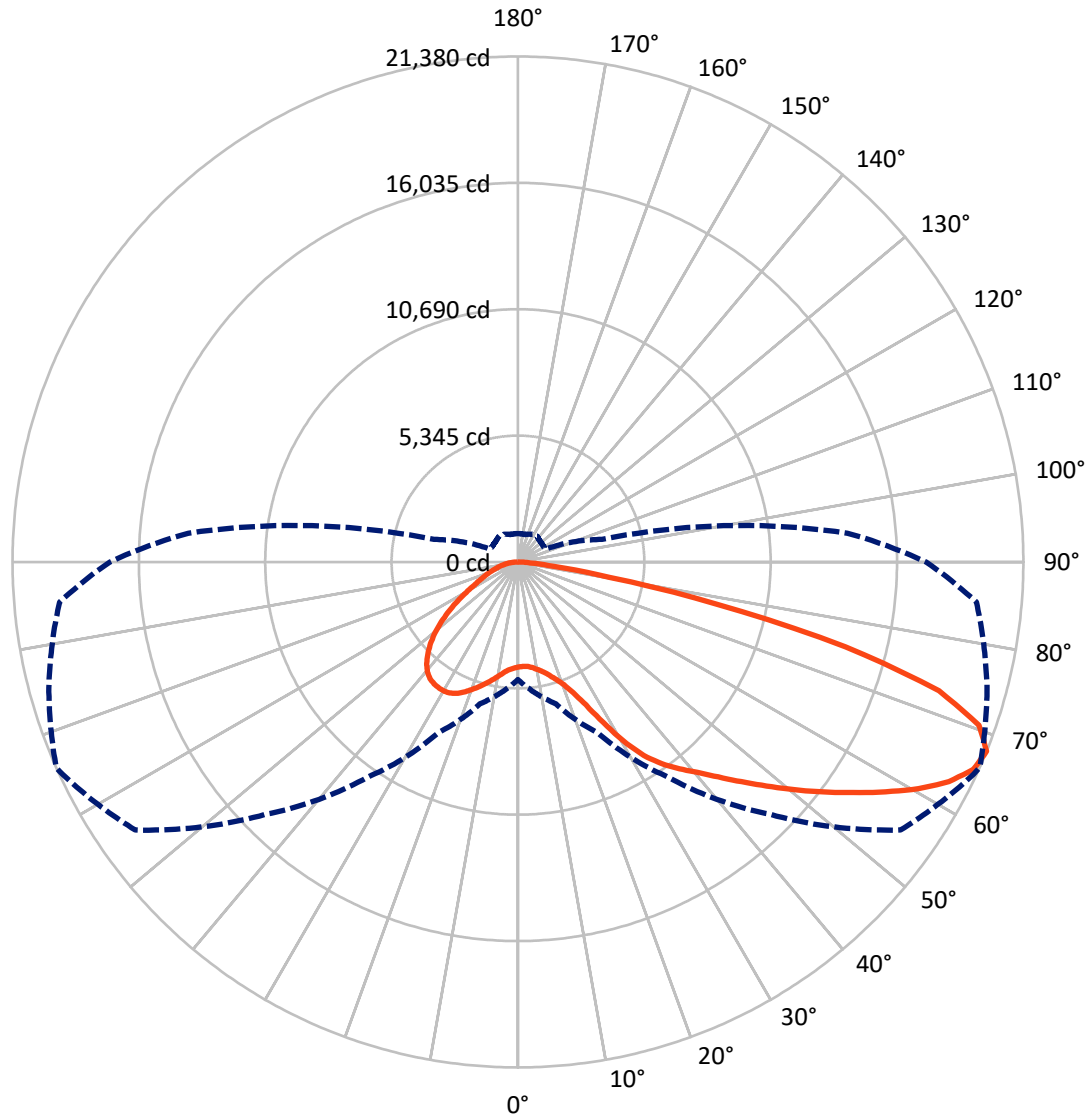
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 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	9958.6	0.0	9958.6
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	30092.4	0.0	30092.4
	% Fixture	75.1	0.0	75.1
Total	Lumens	40051.0	0.0	40051.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	440.4	1.1
10°-20°	1455.1	3.6
20°-30°	2804.6	7.0
30°-40°	4917.6	12.3
40°-50°	7310.8	18.3
50°-60°	9267.2	23.1
60°-70°	9067.7	22.6
70°-80°	4325.4	10.8
80°-90°	462.3	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°	40051.0	100.0
0°-180°	40051.0	100.0

Coefficient of Utilization



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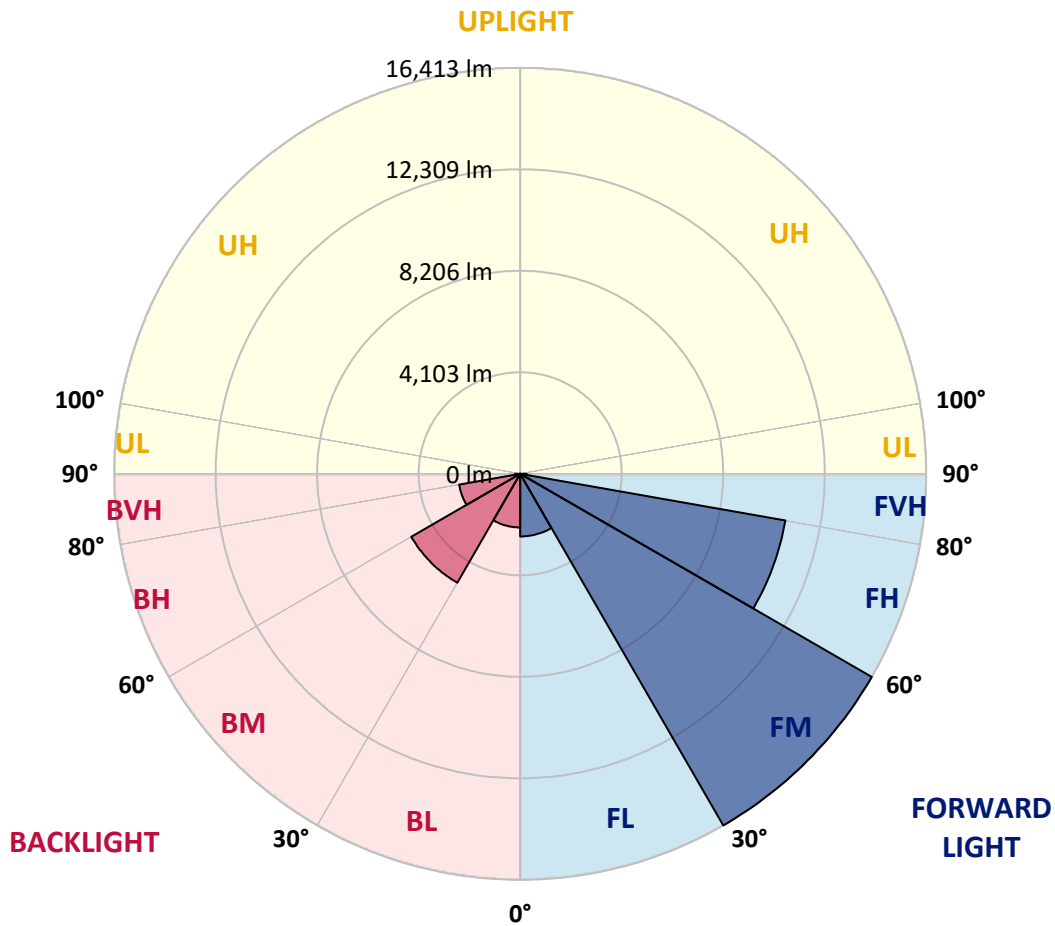
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2530.8	6.3			
FM (30°-60°)	16412.6	41.0			
FH (60°-80°)	10887.0	27.2			G4/12000
FVH (80°-90°)	262.1	0.7			G3/500
BL (0°-30°)	2169.3	5.4	B3/2500		
BM (30°-60°)	5083.0	12.7	B4/8500		
BH (60°-80°)	2506.1	6.3	B4/5000		G4/5000
BVH (80°-90°)	200.2	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	4442.2	4442.2	4442.2	4442.2	4442.2	4442.2	4442.2	4442.2	4442.2	4442.2
2.5°	4395.9	4421.1	4414.8	4404.3	4402.2	4406.4	4412.7	4419.0	4416.9	4427.5
5°	4383.3	4408.5	4406.4	4406.4	4414.8	4431.7	4442.2	4452.7	4442.2	4454.8
7.5°	4391.7	4410.6	4419.0	4427.5	4448.5	4480.1	4505.3	4528.5	4515.8	4530.6
10°	4499.0	4513.7	4522.1	4522.1	4536.9	4572.7	4597.9	4640.0	4629.5	4652.6
12.5°	4694.7	4709.4	4709.4	4701.0	4711.5	4734.7	4743.1	4789.4	4770.5	4808.3
15°	4934.6	4964.1	4940.9	4926.2	4930.4	4953.5	4951.4	4987.2	4968.3	4999.8
17.5°	5199.7	5237.6	5199.7	5197.6	5189.2	5214.5	5216.6	5248.1	5214.5	5237.6
20°	5513.3	5565.9	5534.3	5544.8	5525.9	5536.4	5546.9	5593.2	5540.6	5557.5
22.5°	5955.2	6018.3	5984.6	6024.6	6012.0	6003.6	6001.5	6083.5	6001.5	6007.8
25°	6599.1	6674.9	6615.9	6670.6	6670.6	6698.0	6729.6	6834.8	6698.0	6658.0
27.5°	7550.2	7626.0	7510.3	7543.9	7533.4	7600.7	7567.1	7828.0	7680.7	7615.5
30°	8695.0	8829.7	8610.8	8602.4	8591.9	8699.2	8747.6	8920.1	8770.7	8705.5
32.5°	9932.3	10073.3	9812.4	9736.6	9696.6	9761.9	9721.9	9860.8	9757.7	9656.6
35°	11241.2	11380.1	11131.8	10984.5	10824.5	10687.8	10544.7	10580.4	10483.6	10330.0
37.5°	12478.5	12733.1	12470.1	12312.3	12017.7	11750.4	11350.6	11184.4	11093.9	10952.9
40°	13739.0	13884.2	13684.3	13549.6	13229.8	12811.0	12171.3	11819.9	11697.8	11561.0
42.5°	14667.0	14805.9	14698.6	14606.0	14355.6	13869.5	13042.5	12602.7	12425.9	12272.3
45°	15403.5	15506.6	15439.3	15472.9	15365.6	14894.3	13945.2	13442.3	13259.2	13071.9
47.5°	15700.2	15809.6	15917.0	16116.9	16299.9	15952.7	14915.3	14351.4	14157.8	13966.3
50°	15666.5	15778.1	16089.5	16514.6	17082.7	16967.0	15938.0	15319.3	15140.5	14921.6
52.5°	15397.2	15523.4	15923.3	16630.3	17535.2	17726.7	16979.6	16318.9	16150.5	15889.6
55°	14690.1	14765.9	15365.6	16367.3	17642.5	18256.9	18000.2	17383.7	17215.3	16851.3
57.5°	13379.2	13488.6	14361.9	15658.1	17373.1	18616.8	18896.6	18503.1	18341.1	17817.1
60°	11668.4	11843.0	12842.6	14467.1	16687.1	18614.7	19711.0	19603.7	19469.0	18768.3
62.5°	9732.4	9934.4	10896.1	12783.6	15487.7	18086.5	20220.3	20525.4	20455.9	19645.8
65°	7474.5	7613.4	8570.8	10605.7	13621.2	16952.3	20279.2	21154.6	21167.2	20312.8
67.5°	4976.7	5376.5	6207.7	7958.5	11121.2	15098.4	19761.5	21257.7	21379.7	20542.2
70°	2428.4	2954.4	3768.8	5172.4	7958.5	12255.5	18408.4	20411.7	20683.2	19873.0
72.5°	1008.0	1178.4	1622.4	2552.5	4568.4	8269.9	15689.7	18118.1	18621.0	17608.8
75°	679.7	736.5	928.0	1308.9	2081.2	4078.1	11314.8	13509.6	14319.8	13299.2
77.5°	524.0	559.7	675.5	915.4	1237.3	1542.5	6056.2	8141.6	8560.3	7924.8
80°	412.4	439.8	505.0	667.1	877.5	824.9	2064.3	3688.8	3930.8	3297.4
82.5°	357.7	368.3	361.9	452.4	582.9	481.9	677.6	1361.5	1502.5	1090.0
85°	258.8	288.3	300.9	279.9	309.3	244.1	277.8	481.9	530.3	473.5
87.5°	105.2	155.7	191.5	181.0	113.6	69.4	86.3	141.0	162.0	176.8
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°
4442.2	0°	4442.2	4442.2	4442.2	4442.2	4442.2	4442.2	4442.2	4442.2	4442.2	4442.2
4444.3	2.5°	4446.4	4461.1	4471.6	4484.3	4492.7	4505.3	4530.6	4545.3	4547.4	4557.9
4478.0	5°	4486.4	4507.4	4530.6	4564.2	4602.1	4633.7	4682.1	4715.7	4728.4	4738.9
4560.0	7.5°	4572.7	4602.1	4644.2	4703.1	4757.8	4799.9	4858.8	4898.8	4938.8	4953.5
4690.5	10°	4701.0	4743.1	4804.1	4884.1	4943.0	4997.7	5058.7	5092.4	5132.4	5149.2
4846.2	12.5°	4860.9	4905.1	4985.1	5096.6	5151.3	5189.2	5210.3	5201.8	5210.3	5225.0
5033.5	15°	5044.0	5092.4	5182.9	5302.8	5340.7	5307.1	5260.8	5218.7	5212.4	5216.6
5260.8	17.5°	5260.8	5296.5	5401.7	5502.8	5475.4	5336.5	5235.5	5168.2	5134.5	5124.0
5551.2	20°	5563.8	5563.8	5650.1	5713.2	5530.1	5294.4	5136.6	5027.2	4957.7	4928.3
5946.8	22.5°	5932.0	5898.4	5953.1	5908.9	5519.6	5176.6	4957.7	4768.4	4663.1	4621.1
6500.2	25°	6399.2	6359.2	6344.5	6070.9	5443.8	4989.3	4633.7	4404.3	4311.7	4288.6
7297.7	27.5°	7104.1	7003.1	6811.6	6159.3	5304.9	4694.7	4254.9	4042.4	3989.8	3991.9
8322.5	30°	8042.6	7840.6	7371.4	6174.0	5077.7	4278.0	3867.7	3716.2	3690.9	3701.5
9183.2	32.5°	8911.7	8720.2	7943.7	6106.7	4728.4	3869.8	3520.5	3419.5	3381.6	3394.2
9839.7	35°	9593.5	9540.9	8474.0	6012.0	4299.1	3486.8	3209.1	3122.8	3049.1	3032.3
10458.4	37.5°	10237.4	10216.4	8871.7	5879.4	3874.0	3215.4	2958.7	2845.0	2737.7	2678.8
11142.3	40°	10944.5	10923.4	9132.7	5675.3	3497.4	2979.7	2733.5	2584.1	2451.5	2344.2
11916.7	42.5°	11739.9	11615.8	9256.8	5382.8	3177.5	2779.8	2550.4	2348.4	2173.7	2074.8
12792.1	45°	12609.0	12329.1	9254.7	5010.3	2908.1	2596.7	2354.7	2068.5	1906.5	1813.9
13690.6	47.5°	13530.7	13010.9	9141.1	4597.9	2647.2	2394.7	2051.7	1832.8	1725.5	1668.7
14667.0	50°	14481.8	13648.5	8947.5	4124.4	2380.0	2165.3	1862.3	1712.9	1630.8	1578.2
15635.0	52.5°	15376.1	14227.2	8713.9	3587.8	2108.5	1942.3	1778.1	1662.4	1576.1	1517.2
16573.5	55°	16207.3	14725.9	8383.5	3038.6	1887.6	1792.9	1738.2	1641.4	1542.5	1473.0
17526.7	57.5°	16946.0	15050.0	7813.3	2523.1	1729.7	1689.8	1696.1	1605.6	1492.0	1433.0
18465.3	60°	17560.4	15287.8	6969.5	2045.4	1601.4	1588.7	1630.8	1538.2	1405.7	1338.3
19258.6	62.5°	17928.7	15283.6	5934.1	1675.0	1492.0	1496.2	1544.6	1454.1	1319.4	1256.3
19673.1	65°	17897.1	14909.0	4797.8	1433.0	1386.7	1390.9	1454.1	1361.5	1247.9	1210.0
19464.8	67.5°	17263.7	13995.7	3680.4	1275.2	1271.0	1289.9	1363.6	1298.4	1203.7	1199.5
18223.3	70°	15548.7	12099.7	2651.4	1148.9	1151.1	1178.4	1275.2	1258.4	1180.5	1188.9
15321.4	72.5°	12468.0	9225.3	1780.2	1016.4	1018.5	1062.7	1191.0	1226.8	1157.4	1268.9
10870.8	75°	8303.6	5753.2	1144.7	875.4	877.5	934.3	1117.4	1165.8	1094.2	1264.7
5656.4	77.5°	3989.8	2586.2	829.1	736.5	736.5	789.1	965.9	1043.7	932.2	982.7
1818.1	80°	1378.3	972.2	652.3	593.4	580.8	616.6	814.4	904.9	803.8	740.7
593.4	82.5°	542.9	505.0	524.0	460.8	418.8	441.9	633.4	747.0	591.3	534.5
334.6	85°	311.4	328.3	370.4	305.1	242.0	271.5	465.1	536.6	446.1	393.5
109.4	87.5°	84.2	115.7	170.4	157.8	109.4	115.7	221.0	296.7	256.7	197.8
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°
4442.2
4555.8
4736.8
4955.6
5157.6
5229.2
5231.3
5138.7
4922.0
4614.7
4292.8
3998.2
3737.2
3411.1
3044.9
2680.9
2354.7
2081.2
1809.7
1656.1
1559.3
1492.0
1445.7
1395.2
1308.9
1237.3
1207.9
1205.8
1186.8
1285.7
1275.2
900.6
694.4
532.4
401.9
204.1
0.0

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