

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: P944207

Luminaire Tested: **GALN-SB9A-750-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944207
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-750-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43256 lumens
Efficiency: N/A
Efficacy: 169.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

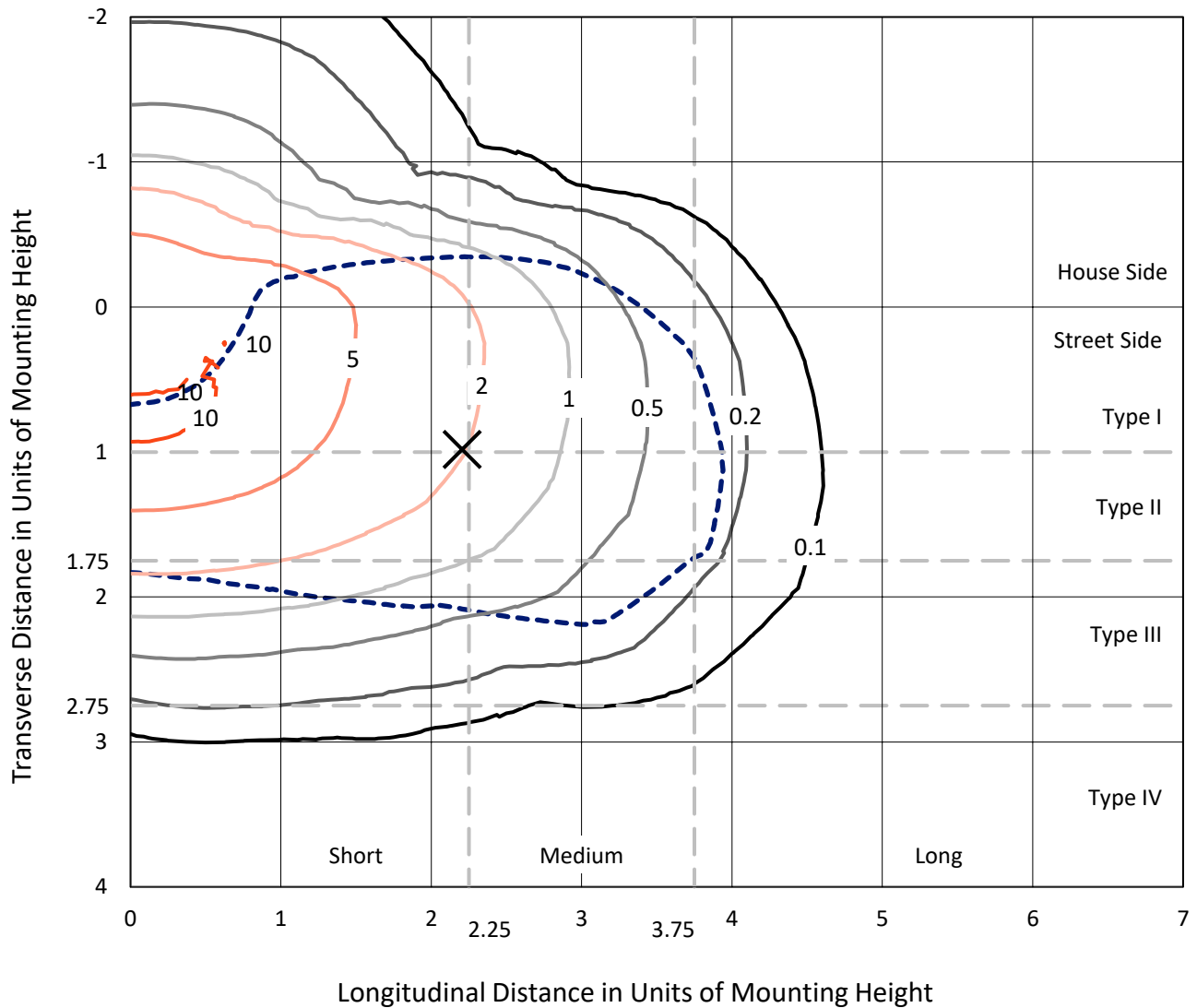
Input Watts (W): 255.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

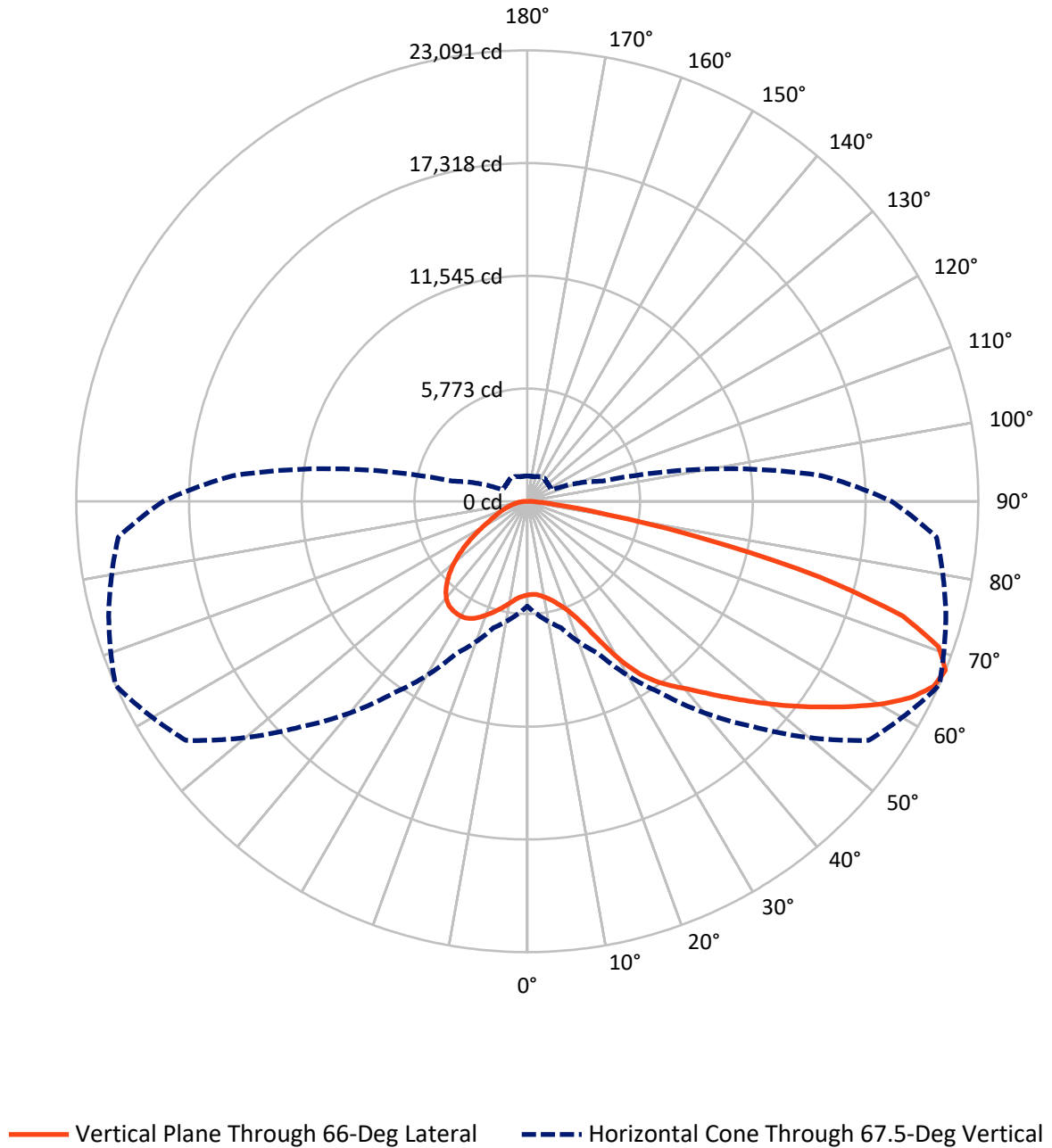
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 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	10755.5	0.0	10755.5
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	32500.5	0.0	32500.5
	% Fixture	75.1	0.0	75.1
Total	Lumens	43256.0	0.0	43256.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	475.7	1.1
10°-20°	1571.5	3.6
20°-30°	3029.1	7.0
30°-40°	5311.1	12.3
40°-50°	7895.8	18.3
50°-60°	10008.7	23.1
60°-70°	9793.3	22.6
70°-80°	4671.5	10.8
80°-90°	499.3	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°	43256.0	100.0
0°-180°	43256.0	100.0

Coefficient of Utilization



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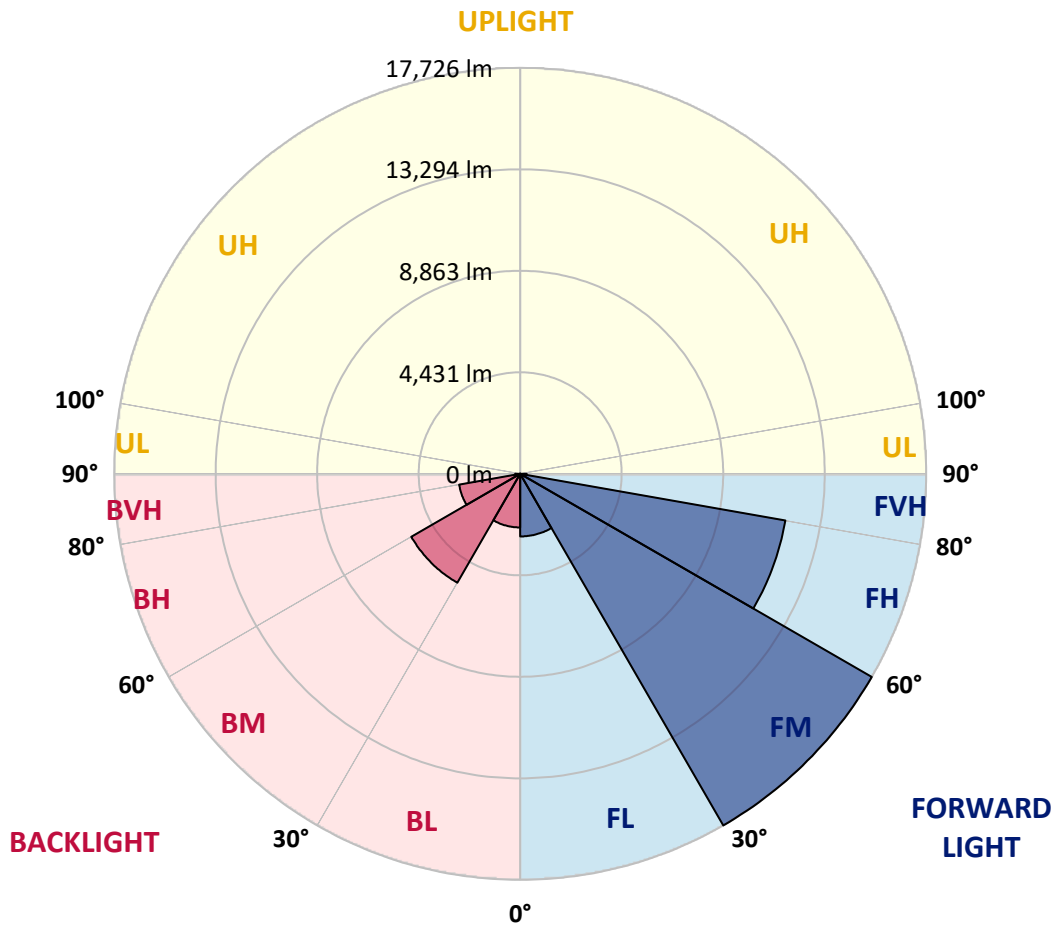
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2733.4	6.3			
FM (30°-60°)	17725.9	41.0			
FH (60°-80°)	11758.2	27.2			G4/12000
FVH (80°-90°)	283.1	0.7			G3/500
BL (0°-30°)	2342.9	5.4	B3/2500		
BM (30°-60°)	5489.7	12.7	B4/8500		
BH (60°-80°)	2706.6	6.3	B4/5000		G4/5000
BVH (80°-90°)	216.2	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°	4797.7	4797.7	4797.7	4797.7	4797.7	4797.7	4797.7	4797.7	4797.7	4797.7
2.5°	4747.7	4774.9	4768.1	4756.8	4754.5	4759.0	4765.8	4772.7	4770.4	4781.8
5°	4734.0	4761.3	4759.0	4759.0	4768.1	4786.3	4797.7	4809.0	4797.7	4811.3
7.5°	4743.1	4763.6	4772.7	4781.8	4804.5	4838.6	4865.8	4890.8	4877.2	4893.1
10°	4859.0	4874.9	4884.0	4884.0	4899.9	4938.6	4965.8	5011.3	4999.9	5024.9
12.5°	5070.4	5086.3	5086.3	5077.2	5088.6	5113.6	5122.7	5172.7	5152.2	5193.1
15°	5329.5	5361.3	5336.3	5320.4	5324.9	5349.9	5347.7	5386.3	5365.8	5399.9
17.5°	5615.8	5656.7	5615.8	5613.6	5604.5	5631.7	5634.0	5668.1	5631.7	5656.7
20°	5954.5	6011.3	5977.2	5988.6	5968.1	5979.5	5990.8	6040.8	5984.0	6002.2
22.5°	6431.7	6499.9	6463.5	6506.7	6493.1	6484.0	6481.7	6570.4	6481.7	6488.5
25°	7127.2	7209.0	7145.4	7204.4	7204.4	7234.0	7268.1	7381.7	7234.0	7190.8
27.5°	8154.4	8236.3	8111.3	8147.6	8136.3	8209.0	8172.6	8454.4	8295.3	8224.9
30°	9390.8	9536.2	9299.9	9290.8	9279.4	9395.3	9447.6	9634.0	9472.6	9402.1
32.5°	10727.1	10879.4	10597.6	10515.8	10472.6	10543.0	10499.9	10649.9	10538.5	10429.4
35°	12140.7	12290.7	12022.6	11863.5	11690.8	11543.0	11388.5	11427.1	11322.6	11156.7
37.5°	13477.1	13752.1	13468.0	13297.5	12979.4	12690.7	12258.9	12079.4	11981.7	11829.4
40°	14838.4	14995.3	14779.3	14633.9	14288.4	13836.2	13145.3	12765.7	12633.9	12486.2
42.5°	15840.7	15990.7	15874.8	15774.8	15504.3	14979.3	14086.2	13611.2	13420.3	13254.4
45°	16636.1	16747.5	16674.8	16711.1	16595.2	16086.1	15061.2	14518.0	14320.3	14118.0
47.5°	16956.6	17074.8	17190.7	17406.6	17604.3	17229.3	16108.9	15499.8	15290.7	15083.9
50°	16920.2	17040.7	17377.0	17836.1	18449.7	18324.8	17213.4	16545.2	16352.1	16115.7
52.5°	16629.3	16765.7	17197.5	17961.1	18938.4	19145.2	18338.4	17624.8	17442.9	17161.1
55°	15865.7	15947.5	16595.2	17677.0	19054.3	19717.9	19440.6	18774.7	18592.9	18199.8
57.5°	14449.8	14568.0	15511.2	16911.1	18763.4	20106.5	20408.8	19983.8	19808.8	19242.9
60°	12602.1	12790.7	13870.3	15624.8	18022.5	20104.3	21288.3	21172.4	21027.0	20270.2
62.5°	10511.2	10729.4	11768.0	13806.6	16727.0	19533.8	21838.3	22167.9	22092.9	21217.9
65°	8072.6	8222.6	9256.7	11454.4	14711.2	18308.8	21902.0	22847.4	22861.1	21938.3
67.5°	5374.9	5806.7	6704.5	8595.3	12011.2	16306.6	21342.9	22958.8	23090.6	22186.1
70°	2622.7	3190.9	4070.4	5586.3	8595.3	13236.2	19881.5	22045.2	22338.3	21463.3
72.5°	1088.6	1272.7	1752.2	2756.8	4934.0	8931.7	16945.2	19567.9	20111.1	19017.9
75°	734.1	795.4	1002.3	1413.6	2247.7	4404.5	12220.3	14590.7	15465.7	14363.4
77.5°	565.9	604.5	729.5	988.6	1336.3	1665.9	6540.8	8793.1	9245.3	8559.0
80°	445.4	475.0	545.4	720.4	947.7	890.9	2229.5	3984.0	4245.4	3561.3
82.5°	386.4	397.7	390.9	488.6	629.5	520.4	731.8	1470.4	1622.7	1177.3
85°	279.5	311.4	325.0	302.3	334.1	263.6	300.0	520.4	572.7	511.4
87.5°	113.6	168.2	206.8	195.5	122.7	75.0	93.2	152.3	175.0	190.9
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°
4797.7	0°	4797.7	4797.7	4797.7	4797.7	4797.7	4797.7	4797.7	4797.7	4797.7	4797.7
4799.9	2.5°	4802.2	4818.1	4829.5	4843.1	4852.2	4865.8	4893.1	4909.0	4911.3	4922.7
4836.3	5°	4845.4	4868.1	4893.1	4929.5	4970.4	5004.5	5056.7	5093.1	5106.7	5118.1
4924.9	7.5°	4938.6	4970.4	5015.8	5079.5	5138.6	5184.0	5247.7	5290.8	5334.0	5349.9
5065.8	10°	5077.2	5122.7	5188.6	5274.9	5338.6	5397.7	5463.6	5499.9	5543.1	5561.3
5234.0	12.5°	5249.9	5297.7	5384.0	5504.5	5563.6	5604.5	5627.2	5618.1	5627.2	5643.1
5436.3	15°	5447.7	5499.9	5597.7	5727.2	5768.1	5731.7	5681.7	5636.3	5629.5	5634.0
5681.7	17.5°	5681.7	5720.4	5834.0	5943.1	5913.6	5763.6	5654.5	5581.7	5545.4	5534.0
5995.4	20°	6009.0	6009.0	6102.2	6170.4	5972.6	5718.1	5547.7	5429.5	5354.5	5322.7
6422.6	22.5°	6406.7	6370.4	6429.5	6381.7	5961.3	5590.8	5354.5	5149.9	5036.3	4990.8
7020.4	25°	6911.3	6868.1	6852.2	6556.7	5879.5	5388.6	5004.5	4756.8	4656.8	4631.8
7881.7	27.5°	7672.6	7563.5	7356.7	6652.2	5729.5	5070.4	4595.4	4365.8	4309.0	4311.3
8988.5	30°	8686.2	8468.1	7961.3	6668.1	5484.0	4620.4	4177.2	4013.6	3986.3	3997.7
9918.0	32.5°	9624.9	9418.1	8579.4	6595.4	5106.7	4179.5	3802.2	3693.1	3652.2	3665.9
10627.1	35°	10361.2	10304.4	9152.1	6493.1	4643.1	3765.9	3465.9	3372.7	3293.1	3275.0
11295.3	37.5°	11056.7	11033.9	9581.7	6349.9	4184.0	3472.7	3195.4	3072.7	2956.8	2893.1
12033.9	40°	11820.3	11797.6	9863.5	6129.5	3777.2	3218.1	2952.2	2790.9	2647.7	2531.8
12870.3	42.5°	12679.4	12545.3	9997.6	5813.6	3431.8	3002.2	2754.5	2536.3	2347.7	2240.9
13815.7	45°	13618.0	13315.7	9995.3	5411.3	3140.9	2804.5	2543.1	2234.1	2059.1	1959.1
14786.2	47.5°	14613.4	14052.1	9872.6	4965.8	2859.1	2586.3	2215.9	1979.5	1863.6	1802.2
15840.7	50°	15640.7	14740.7	9663.5	4454.5	2570.4	2338.6	2011.3	1850.0	1761.3	1704.5
16886.1	52.5°	16606.6	15365.7	9411.2	3874.9	2277.2	2097.7	1920.4	1795.4	1702.2	1638.6
17899.8	55°	17504.3	15904.3	9054.4	3281.8	2038.6	1936.3	1877.2	1772.7	1665.9	1590.9
18929.3	57.5°	18302.0	16254.3	8438.5	2725.0	1868.2	1825.0	1831.8	1734.1	1611.3	1547.7
19942.9	60°	18965.7	16511.1	7527.2	2209.1	1729.5	1715.9	1761.3	1661.3	1518.2	1445.4
20799.7	62.5°	19363.4	16506.6	6409.0	1809.1	1611.3	1615.9	1668.2	1570.4	1425.0	1356.8
21247.4	65°	19329.3	16102.1	5181.7	1547.7	1497.7	1502.3	1570.4	1470.4	1347.7	1306.8
21022.4	67.5°	18645.2	15115.7	3974.9	1377.3	1372.7	1393.2	1472.7	1402.3	1300.0	1295.4
19681.6	70°	16793.0	13068.0	2863.6	1240.9	1243.2	1272.7	1377.3	1359.1	1275.0	1284.1
16547.5	72.5°	13465.7	9963.5	1922.7	1097.7	1100.0	1147.7	1286.3	1325.0	1250.0	1370.4
11740.7	75°	8968.1	6213.6	1236.3	945.4	947.7	1009.1	1206.8	1259.1	1181.8	1365.9
6109.0	77.5°	4309.0	2793.1	895.4	795.4	795.4	852.3	1043.2	1127.3	1006.8	1061.3
1963.6	80°	1488.6	1050.0	704.5	640.9	627.3	665.9	879.5	977.3	868.2	800.0
640.9	82.5°	586.4	545.4	565.9	497.7	452.3	477.3	684.1	806.8	638.6	577.3
361.4	85°	336.4	354.5	400.0	329.5	261.4	293.2	502.3	579.5	481.8	425.0
118.2	87.5°	90.9	125.0	184.1	170.5	118.2	125.0	238.6	320.5	277.3	213.6
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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180°
4797.7
4920.4
5115.8
5352.2
5570.4
5647.7
5649.9
5549.9
5315.8
4984.0
4636.3
4318.1
4036.3
3684.0
3288.6
2895.4
2543.1
2247.7
1954.5
1788.6
1684.1
1611.3
1561.3
1506.8
1413.6
1336.3
1304.5
1302.3
1281.8
1388.6
1377.3
972.7
750.0
575.0
434.1
220.5
0.0

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