

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: P942017

Luminaire Tested: **GALN-SB5D-827-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942017
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-SB5D-827-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44729 lumens
Efficiency: N/A
Efficacy: 122.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

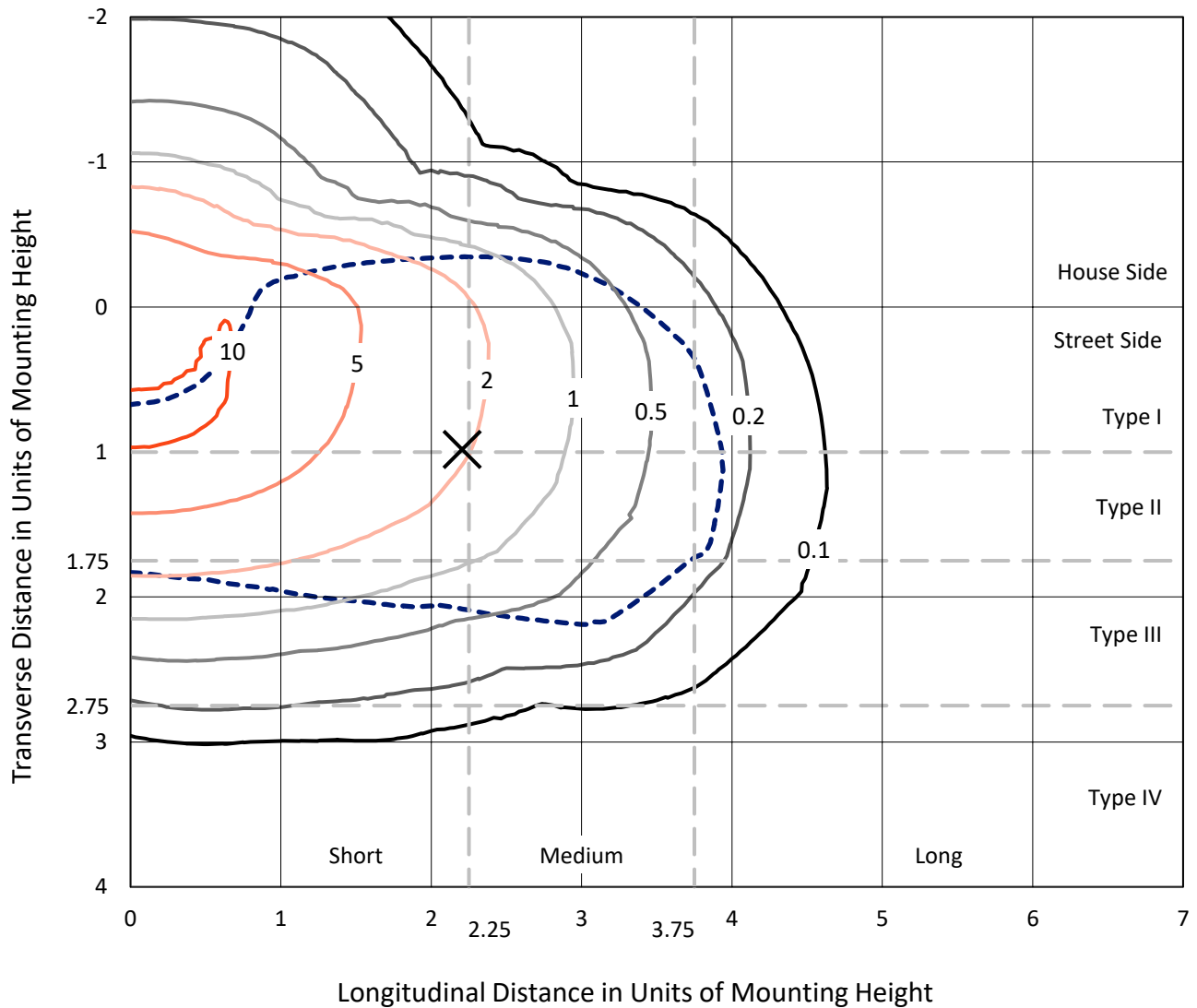
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

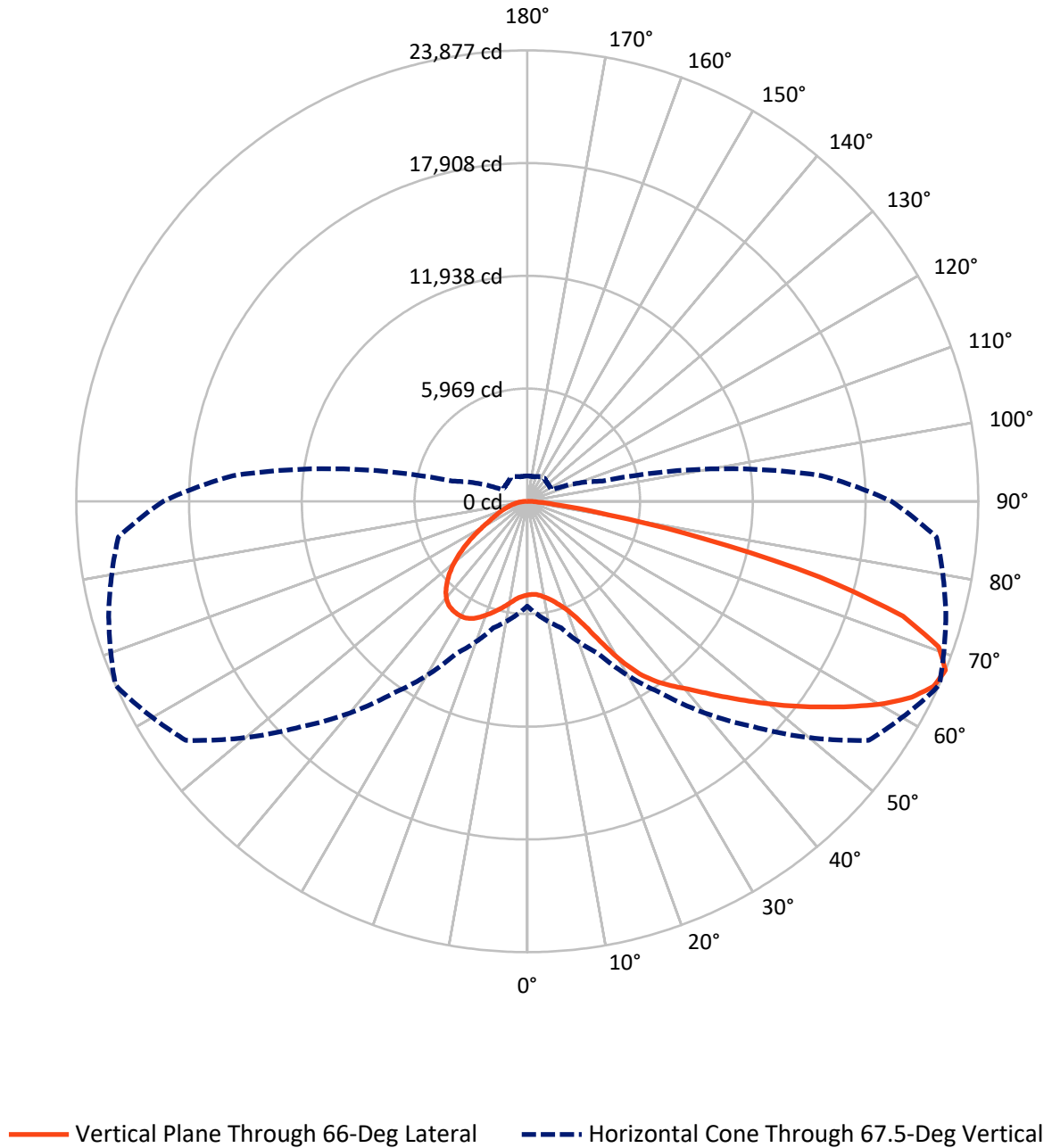
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 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	11121.7	0.0	11121.7
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	33607.3	0.0	33607.3
	% Fixture	75.1	0.0	75.1
Total	Lumens	44729.0	0.0	44729.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	491.9	1.1
10°-20°	1625.1	3.6
20°-30°	3132.2	7.0
30°-40°	5491.9	12.3
40°-50°	8164.7	18.3
50°-60°	10349.6	23.1
60°-70°	10126.8	22.6
70°-80°	4830.6	10.8
80°-90°	516.3	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°	44729.0	100.0
0°-180°	44729.0	100.0

Coefficient of Utilization



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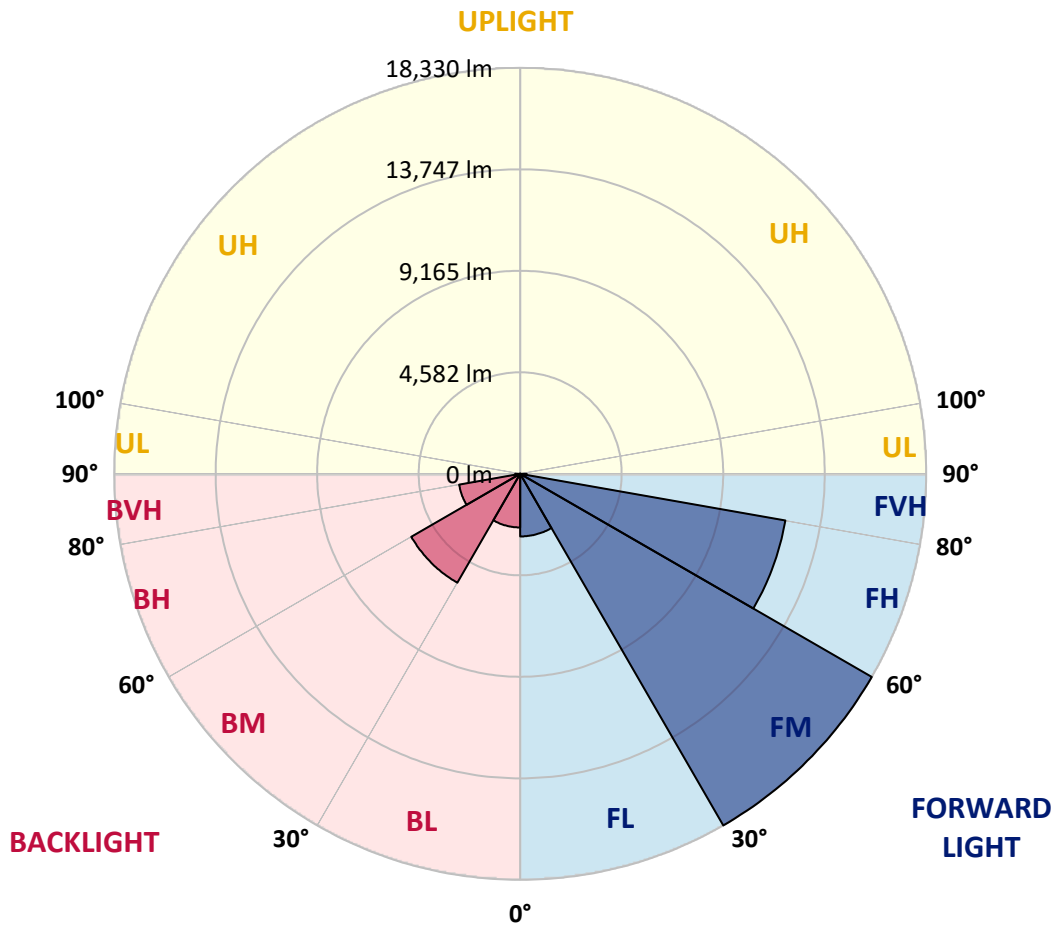
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2826.4	6.3			
FM (30°-60°)	18329.6	41.0			
FH (60°-80°)	12158.6	27.2			G5
FVH (80°-90°)	292.7	0.7			G3/500
BL (0°-30°)	2422.7	5.4	B3/2500		
BM (30°-60°)	5676.7	12.7	B4/8500		
BH (60°-80°)	2798.8	6.3	B4/5000		G4/5000
BVH (80°-90°)	223.6	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-G5

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	4961.0	4961.0	4961.0	4961.0	4961.0	4961.0	4961.0	4961.0	4961.0	4961.0
2.5°	4909.3	4937.5	4930.5	4918.7	4916.4	4921.1	4928.1	4935.2	4932.8	4944.6
5°	4895.2	4923.4	4921.1	4921.1	4930.5	4949.3	4961.0	4972.8	4961.0	4975.1
7.5°	4904.6	4925.8	4935.2	4944.6	4968.1	5003.3	5031.5	5057.4	5043.3	5059.7
10°	5024.5	5040.9	5050.3	5050.3	5066.8	5106.7	5134.9	5181.9	5170.2	5196.0
12.5°	5243.0	5259.5	5259.5	5250.1	5261.8	5287.7	5297.1	5348.8	5327.7	5370.0
15°	5511.0	5543.9	5518.0	5501.6	5506.3	5532.1	5529.8	5569.7	5548.6	5583.8
17.5°	5807.1	5849.4	5807.1	5804.7	5795.3	5823.5	5825.9	5861.1	5823.5	5849.4
20°	6157.2	6216.0	6180.7	6192.5	6171.3	6183.1	6194.8	6246.5	6187.8	6206.6
22.5°	6650.8	6721.3	6683.7	6728.3	6714.2	6704.8	6702.5	6794.1	6702.5	6709.5
25°	7369.9	7454.5	7388.7	7449.8	7449.8	7480.3	7515.6	7633.1	7480.3	7435.7
27.5°	8432.1	8516.7	8387.5	8425.1	8413.3	8488.5	8450.9	8742.3	8577.8	8505.0
30°	9710.6	9861.0	9616.6	9607.2	9595.4	9715.3	9769.3	9962.0	9795.2	9722.3
32.5°	11092.4	11249.9	10958.5	10873.9	10829.2	10902.1	10857.4	11012.5	10897.4	10784.6
35°	12554.2	12709.3	12432.0	12267.5	12088.9	11936.1	11776.3	11816.2	11708.1	11536.6
37.5°	13936.0	14220.4	13926.6	13750.4	13421.4	13122.9	12676.4	12490.7	12389.7	12232.2
40°	15343.7	15505.9	15282.6	15132.2	14775.0	14307.3	13592.9	13200.4	13064.1	12911.4
42.5°	16380.1	16535.2	16415.4	16312.0	16032.3	15489.4	14565.8	14074.7	13877.3	13705.7
45°	17202.6	17317.8	17242.6	17280.2	17160.3	16633.9	15574.0	15012.4	14807.9	14598.8
47.5°	17534.0	17656.2	17776.1	17999.3	18203.8	17816.0	16657.4	16027.6	15811.4	15597.5
50°	17496.4	17621.0	17968.8	18443.5	19078.0	18948.8	17799.6	17108.6	16908.9	16664.5
52.5°	17195.6	17336.6	17783.1	18572.8	19583.3	19797.1	18962.9	18224.9	18036.9	17745.5
55°	16406.0	16490.6	17160.3	18279.0	19703.1	20389.4	20102.7	19414.1	19226.1	18819.5
57.5°	14941.9	15064.1	16039.4	17487.0	19402.3	20791.2	21103.8	20664.3	20483.4	19898.2
60°	13031.2	13226.3	14342.6	16156.9	18636.2	20788.9	22013.3	21893.4	21743.0	20960.4
62.5°	10869.2	11094.8	12168.8	14276.8	17296.7	20199.0	22582.0	22922.8	22845.2	21940.4
65°	8347.5	8502.6	9571.9	11844.4	15212.1	18932.3	22647.8	23625.4	23639.5	22685.4
67.5°	5558.0	6004.5	6932.8	8888.0	12420.2	16861.9	22069.7	23740.6	23876.9	22941.6
70°	2712.0	3299.5	4209.0	5776.5	8888.0	13686.9	20558.6	22795.9	23099.0	22194.2
72.5°	1125.7	1316.0	1811.9	2850.7	5102.0	9235.8	17522.3	20234.3	20795.9	19665.5
75°	759.1	822.5	1036.4	1461.8	2324.2	4554.5	12636.4	15087.6	15992.4	14852.6
77.5°	585.2	625.1	754.4	1022.3	1381.9	1722.6	6763.6	9092.5	9560.2	8850.4
80°	460.6	491.2	564.0	745.0	980.0	921.2	2305.4	4119.7	4390.0	3682.6
82.5°	399.5	411.3	404.2	505.3	651.0	538.2	756.7	1520.5	1678.0	1217.3
85°	289.1	322.0	336.1	312.6	345.5	272.6	310.2	538.2	592.2	528.8
87.5°	117.5	173.9	213.9	202.1	126.9	77.6	96.4	157.5	181.0	197.4
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°
4961.0	0°	4961.0	4961.0	4961.0	4961.0	4961.0	4961.0	4961.0	4961.0	4961.0	4961.0
4963.4	2.5°	4965.7	4982.2	4993.9	5008.0	5017.4	5031.5	5059.7	5076.2	5078.5	5090.3
5001.0	5°	5010.4	5033.9	5059.7	5097.3	5139.6	5174.9	5228.9	5266.5	5280.6	5292.4
5092.6	7.5°	5106.7	5139.6	5186.6	5252.4	5313.6	5360.6	5426.4	5471.0	5515.7	5532.1
5238.3	10°	5250.1	5297.1	5365.3	5454.6	5520.4	5581.5	5649.6	5687.2	5731.9	5750.7
5412.3	12.5°	5428.7	5478.1	5567.4	5691.9	5753.0	5795.3	5818.8	5809.4	5818.8	5835.3
5621.4	15°	5633.2	5687.2	5788.3	5922.2	5964.5	5926.9	5875.2	5828.2	5821.2	5825.9
5875.2	17.5°	5875.2	5915.2	6032.7	6145.5	6114.9	5959.8	5847.0	5771.8	5734.2	5722.5
6199.5	20°	6213.6	6213.6	6310.0	6380.5	6176.0	5912.8	5736.6	5614.4	5536.8	5503.9
6641.4	22.5°	6624.9	6587.3	6648.4	6599.0	6164.3	5781.2	5536.8	5325.3	5207.8	5160.8
7259.4	25°	7146.6	7102.0	7085.5	6780.0	6079.7	5572.1	5174.9	4918.7	4815.3	4789.5
8150.1	27.5°	7933.9	7821.1	7607.2	6878.7	5924.6	5243.0	4751.9	4514.5	4455.8	4458.1
9294.6	30°	8982.0	8756.4	8232.4	6895.2	5670.8	4777.7	4319.5	4150.3	4122.1	4133.8
10255.8	32.5°	9952.6	9738.8	8871.6	6820.0	5280.6	4321.8	3931.7	3818.9	3776.6	3790.7
10989.0	35°	10714.1	10655.3	9463.8	6714.2	4801.2	3894.1	3583.9	3487.5	3405.3	3386.5
11679.9	37.5°	11433.2	11409.7	9908.0	6566.1	4326.5	3590.9	3304.2	3177.3	3057.5	2991.7
12443.7	40°	12222.8	12199.3	10199.4	6338.2	3905.8	3327.7	3052.8	2885.9	2737.9	2618.0
13308.6	42.5°	13111.1	12972.5	10338.0	6011.5	3548.6	3104.5	2848.3	2622.7	2427.6	2317.2
14286.2	45°	14081.7	13769.2	10335.7	5595.6	3247.8	2900.0	2629.7	2310.1	2129.2	2025.8
15289.7	47.5°	15111.1	14530.6	10208.8	5134.9	2956.4	2674.4	2291.3	2046.9	1927.1	1863.6
16380.1	50°	16173.3	15242.7	9992.6	4606.2	2658.0	2418.2	2079.8	1913.0	1821.3	1762.6
17461.2	52.5°	17172.1	15888.9	9731.7	4006.9	2354.8	2169.1	1985.8	1856.6	1760.2	1694.4
18509.3	55°	18100.4	16445.9	9362.8	3393.5	2108.0	2002.3	1941.2	1833.1	1722.6	1645.1
19573.9	57.5°	18925.3	16807.8	8725.9	2817.8	1931.8	1887.1	1894.2	1793.1	1666.2	1600.4
20622.0	60°	19611.5	17073.4	7783.5	2284.3	1788.4	1774.3	1821.3	1717.9	1569.9	1494.7
21508.0	62.5°	20022.8	17068.7	6627.3	1870.7	1666.2	1670.9	1725.0	1623.9	1473.5	1403.0
21971.0	65°	19987.5	16650.4	5358.2	1600.4	1548.7	1553.4	1623.9	1520.5	1393.6	1351.3
21738.3	67.5°	19280.1	15630.4	4110.3	1424.2	1419.5	1440.6	1522.9	1450.0	1344.3	1339.6
20351.8	70°	17364.8	13513.0	2961.1	1283.1	1285.5	1316.0	1424.2	1405.4	1318.4	1327.8
17111.0	72.5°	13924.3	10302.8	1988.2	1135.1	1137.4	1186.8	1330.2	1370.1	1292.5	1417.1
12140.6	75°	9273.4	6425.1	1278.4	977.6	980.0	1043.4	1247.9	1301.9	1222.0	1412.4
6317.0	77.5°	4455.8	2888.3	925.9	822.5	822.5	881.3	1078.7	1165.6	1041.1	1097.5
2030.5	80°	1539.3	1085.7	728.5	662.7	648.6	688.6	909.5	1010.5	897.7	827.2
662.7	82.5°	606.3	564.0	585.2	514.7	467.7	493.5	707.4	834.3	660.4	596.9
373.7	85°	347.8	366.6	413.6	340.8	270.3	303.2	519.4	599.3	498.2	439.5
122.2	87.5°	94.0	129.3	190.4	176.3	122.2	129.3	246.8	331.4	286.7	220.9
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°
4961.0
5087.9
5290.0
5534.5
5760.1
5840.0
5842.3
5738.9
5496.9
5153.7
4794.2
4465.2
4173.8
3809.5
3400.6
2994.0
2629.7
2324.2
2021.1
1849.5
1741.4
1666.2
1614.5
1558.1
1461.8
1381.9
1349.0
1346.6
1325.5
1435.9
1424.2
1005.8
775.5
594.6
448.9
228.0
0.0

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