

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: P944767

Luminaire Tested: **GALN-SB9D-840-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944767
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-SB9D-840-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 88717 lumens
Efficiency: N/A
Efficacy: 134.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U0 - G5

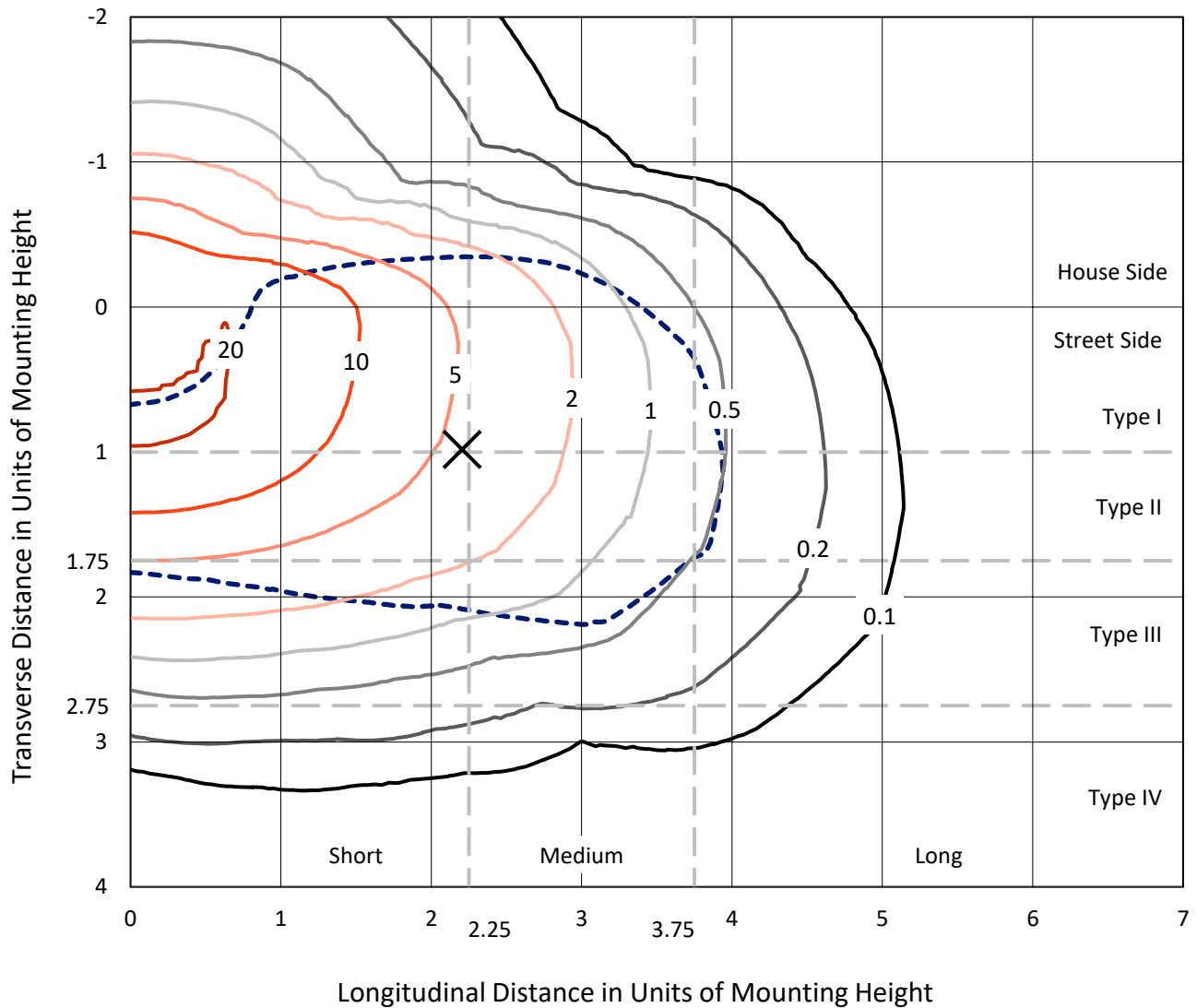
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

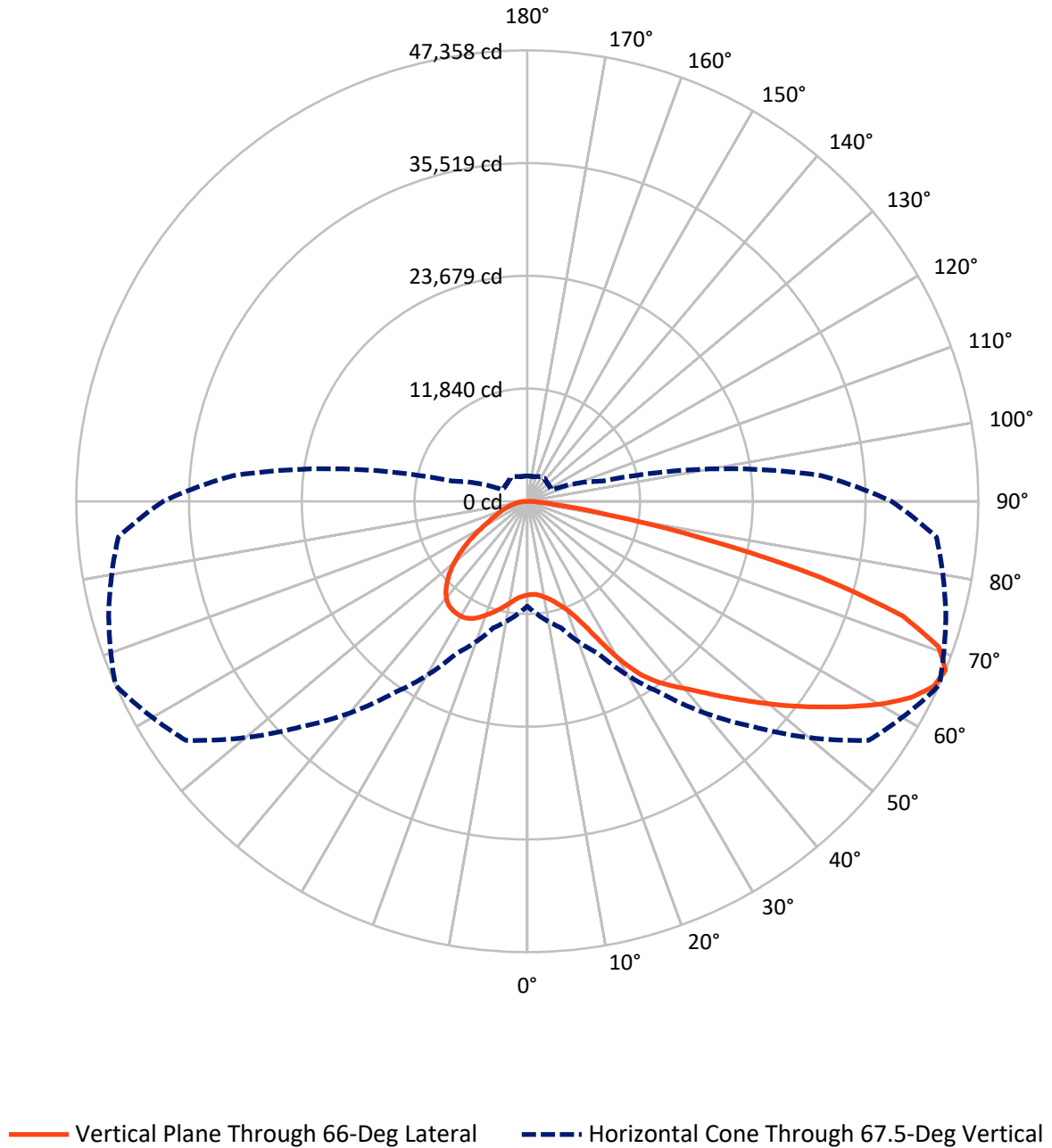
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.3 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	22059.2	0.0	22059.2
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	66657.8	0.0	66657.8
	% Fixture	75.1	0.0	75.1
Total	Lumens	88717.0	0.0	88717.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	975.6	1.1
10°-20°	3223.2	3.6
20°-30°	6212.6	7.0
30°-40°	10892.9	12.3
40°-50°	16194.2	18.3
50°-60°	20527.7	23.1
60°-70°	20085.8	22.6
70°-80°	9581.1	10.8
80°-90°	1024.0	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°	88717.0	100.0
0°-180°	88717.0	100.0

Coefficient of Utilization



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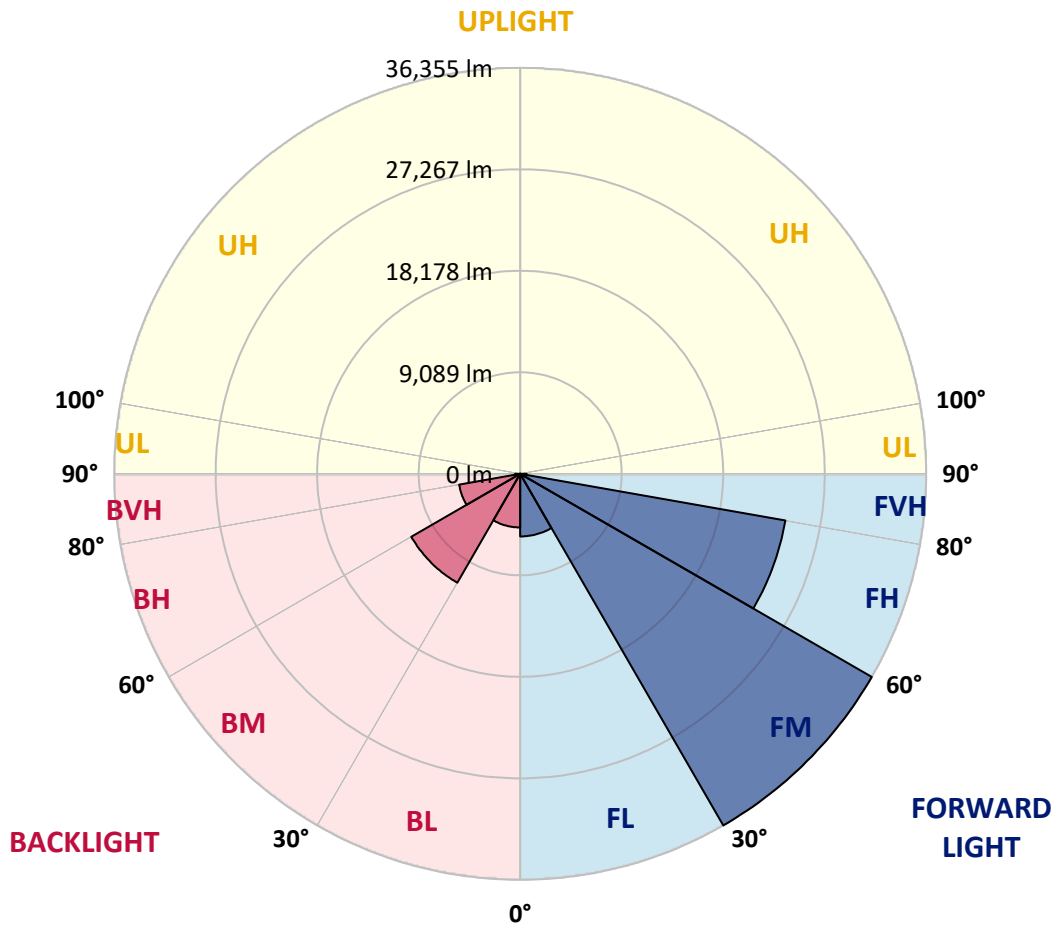
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5606.0	6.3			
FM (30°-60°)	36355.5	41.0			
FH (60°-80°)	24115.7	27.2			G5
FVH (80°-90°)	580.5	0.7			G4/750
BL (0°-30°)	4805.3	5.4	B4/5000		
BM (30°-60°)	11259.3	12.7	B5		
BH (60°-80°)	5551.2	6.3	B5		G5
BVH (80°-90°)	443.4	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	9839.9	9839.9	9839.9	9839.9	9839.9	9839.9	9839.9	9839.9	9839.9	9839.9
2.5°	9737.3	9793.3	9779.3	9756.0	9751.3	9760.6	9774.6	9788.6	9784.0	9807.3
5°	9709.4	9765.3	9760.6	9760.6	9779.3	9816.6	9839.9	9863.2	9839.9	9867.9
7.5°	9728.0	9770.0	9788.6	9807.3	9853.9	9923.8	9979.7	10031.0	10003.0	10035.7
10°	9965.7	9998.4	10017.0	10017.0	10049.6	10128.9	10184.8	10278.0	10254.7	10306.0
12.5°	10399.2	10431.9	10431.9	10413.2	10436.5	10487.8	10506.4	10609.0	10567.0	10650.9
15°	10930.6	10995.9	10944.6	10912.0	10921.3	10972.6	10967.9	11047.2	11005.2	11075.1
17.5°	11517.9	11601.8	11517.9	11513.3	11494.6	11550.6	11555.2	11625.1	11550.6	11601.8
20°	12212.5	12329.0	12259.1	12282.4	12240.4	12263.7	12287.0	12389.6	12273.1	12310.3
22.5°	13191.3	13331.2	13256.6	13345.1	13317.2	13298.5	13293.9	13475.7	13293.9	13307.9
25°	14617.7	14785.5	14655.0	14776.1	14776.1	14836.7	14906.7	15139.7	14836.7	14748.2
27.5°	16724.5	16892.4	16636.0	16710.6	16687.3	16836.4	16761.8	17339.8	17013.5	16869.0
30°	19260.3	19558.6	19073.8	19055.2	19031.9	19269.6	19376.8	19759.0	19428.1	19283.6
32.5°	22001.1	22313.4	21735.4	21567.6	21479.0	21623.5	21535.0	21842.6	21614.2	21390.5
35°	24900.4	25208.0	24658.0	24331.7	23977.4	23674.5	23357.5	23436.7	23222.3	22882.1
37.5°	27641.2	28205.2	27622.5	27272.9	26620.4	26028.4	25142.8	24774.5	24574.1	24261.8
40°	30433.3	30754.9	30312.1	30013.8	29305.2	28377.7	26960.6	26182.2	25911.9	25608.9
42.5°	32488.9	32796.5	32558.8	32353.7	31799.0	30722.3	28890.4	27916.2	27524.7	27184.4
45°	34120.3	34348.7	34199.6	34274.1	34036.4	32992.3	30890.1	29776.0	29370.5	28955.7
47.5°	34777.5	35019.9	35257.7	35700.5	36106.0	35336.9	33038.9	31789.7	31360.9	30936.7
50°	34703.0	34950.0	35639.9	36581.4	37840.0	37583.6	35304.3	33933.9	33537.7	33052.9
52.5°	34106.3	34386.0	35271.6	36837.8	38842.2	39266.3	37611.6	36148.0	35775.1	35197.1
55°	32540.1	32708.0	34036.4	36255.2	39079.9	40441.0	39872.3	38506.5	38133.6	37327.2
57.5°	29636.2	29878.6	31813.0	34684.3	38483.2	41238.0	41858.0	40986.3	40627.4	39466.8
60°	25846.6	26233.5	28447.6	32046.1	36963.7	41233.4	43661.9	43424.2	43125.8	41573.6
62.5°	21558.3	22005.7	24135.9	28317.1	34306.8	40063.4	44789.9	45465.8	45312.0	43517.4
65°	16556.7	16864.4	18985.2	23492.7	30172.2	37551.0	44920.4	46859.5	46887.5	44995.0
67.5°	11023.8	11909.5	13750.7	17628.8	24634.7	33444.4	43773.7	47087.9	47358.2	45503.1
70°	5379.1	6544.4	8348.3	11457.3	17628.8	27147.1	40776.6	45214.1	45815.4	44020.8
72.5°	2232.7	2610.3	3593.8	5654.1	10119.6	18318.7	34754.2	40133.3	41247.4	39005.3
75°	1505.6	1631.4	2055.6	2899.3	4610.0	9033.5	25063.5	29925.2	31719.8	29459.1
77.5°	1160.6	1239.9	1496.3	2027.6	2740.8	3416.7	13415.1	18034.4	18961.9	17554.2
80°	913.6	974.2	1118.7	1477.6	1943.7	1827.2	4572.7	8171.2	8707.2	7304.2
82.5°	792.4	815.7	801.7	1002.2	1291.2	1067.4	1500.9	3015.8	3328.1	2414.5
85°	573.3	638.6	666.6	619.9	685.2	540.7	615.3	1067.4	1174.6	1048.8
87.5°	233.1	344.9	424.2	400.9	251.7	153.8	191.1	312.3	358.9	391.5
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°
9839.9	0°	9839.9	9839.9	9839.9	9839.9	9839.9	9839.9	9839.9	9839.9	9839.9	9839.9
9844.5	2.5°	9849.2	9881.8	9905.1	9933.1	9951.8	9979.7	10035.7	10068.3	10072.9	10096.3
9919.1	5°	9937.8	9984.4	10035.7	10110.2	10194.1	10264.1	10371.3	10445.8	10473.8	10497.1
10100.9	7.5°	10128.9	10194.1	10287.4	10417.9	10539.1	10632.3	10762.8	10851.4	10939.9	10972.6
10389.9	10°	10413.2	10506.4	10641.6	10818.7	10949.3	11070.5	11205.6	11280.2	11368.8	11406.1
10734.8	12.5°	10767.5	10865.4	11042.5	11289.5	11410.7	11494.6	11541.2	11522.6	11541.2	11573.9
11149.7	15°	11173.0	11280.2	11480.6	11746.3	11830.2	11755.7	11653.1	11559.9	11545.9	11555.2
11653.1	17.5°	11653.1	11732.4	11965.4	12189.2	12128.6	11820.9	11597.2	11448.0	11373.4	11350.1
12296.4	20°	12324.3	12324.3	12515.4	12655.3	12249.8	11727.7	11378.1	11135.7	10981.9	10916.6
13172.7	22.5°	13140.0	13065.5	13186.7	13088.8	12226.4	11466.7	10981.9	10562.4	10329.3	10236.1
14398.6	25°	14174.8	14086.3	14053.7	13447.7	12058.6	11051.8	10264.1	9756.0	9550.9	9499.6
16165.2	27.5°	15736.4	15512.6	15088.4	13643.5	11751.0	10399.2	9425.0	8954.3	8837.7	8842.4
18435.2	30°	17815.3	17367.8	16328.3	13676.1	11247.6	9476.3	8567.4	8231.8	8175.8	8199.1
20341.7	32.5°	19740.4	19316.2	17596.2	13526.9	10473.8	8572.0	7798.3	7574.5	7490.6	7518.6
21796.0	35°	21250.6	21134.1	18770.8	13317.2	9522.9	7723.7	7108.4	6917.3	6754.1	6716.9
23166.4	37.5°	22677.0	22630.3	19651.8	13023.5	8581.4	7122.4	6553.7	6302.0	6064.3	5933.8
24681.3	40°	24243.1	24196.5	20229.8	12571.4	7747.0	6600.3	6055.0	5724.0	5430.4	5192.6
26396.6	42.5°	26005.1	25730.1	20504.8	11923.5	7038.5	6157.5	5649.4	5201.9	4815.1	4596.0
28335.7	45°	27930.2	27310.2	20500.2	11098.4	6441.8	5752.0	5215.9	4582.0	4223.1	4018.0
30326.1	47.5°	29971.8	28820.5	20248.4	10184.8	5863.8	5304.5	4544.7	4059.9	3822.2	3696.4
32488.9	50°	32078.7	30232.8	19819.6	9136.0	5271.9	4796.4	4125.2	3794.3	3612.5	3495.9
34633.0	52.5°	34059.7	31514.7	19302.2	7947.4	4670.6	4302.3	3938.8	3682.4	3491.3	3360.8
36712.0	55°	35900.9	32619.4	18570.4	6730.8	4181.1	3971.4	3850.2	3635.8	3416.7	3262.9
38823.5	57.5°	37537.0	33337.2	17307.2	5588.8	3831.5	3743.0	3757.0	3556.5	3304.8	3174.3
40902.4	60°	38898.1	33863.9	15438.0	4530.7	3547.2	3519.2	3612.5	3407.4	3113.7	2964.6
42659.7	62.5°	39713.8	33854.6	13144.7	3710.4	3304.8	3314.1	3421.4	3220.9	2922.6	2782.8
43578.0	65°	39643.9	33024.9	10627.6	3174.3	3071.8	3081.1	3220.9	3015.8	2764.1	2680.2
43116.5	67.5°	38240.9	31001.9	8152.5	2824.7	2815.4	2857.3	3020.5	2876.0	2666.2	2656.9
40366.4	70°	34441.9	26802.2	5873.2	2545.0	2549.7	2610.3	2824.7	2787.4	2615.0	2633.6
33938.5	72.5°	27617.9	20434.9	3943.4	2251.4	2256.0	2353.9	2638.3	2717.5	2563.7	2810.7
24080.0	75°	18393.3	12743.8	2535.7	1939.1	1943.7	2069.6	2475.1	2582.3	2423.8	2801.4
12529.4	77.5°	8837.7	5728.7	1836.5	1631.4	1631.4	1748.0	2139.5	2312.0	2064.9	2176.8
4027.3	80°	3053.1	2153.5	1445.0	1314.5	1286.5	1365.7	1803.9	2004.3	1780.6	1640.8
1314.5	82.5°	1202.6	1118.7	1160.6	1020.8	927.6	978.9	1403.0	1654.7	1309.8	1184.0
741.1	85°	689.9	727.2	820.4	675.9	536.0	601.3	1030.1	1188.6	988.2	871.7
242.4	87.5°	186.4	256.4	377.6	349.6	242.4	256.4	489.4	657.2	568.7	438.2
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°
9839.9
10091.6
10492.5
10977.2
11424.7
11583.2
11587.9
11382.8
10902.7
10222.1
9508.9
8856.4
8278.4
7555.9
6744.8
5938.4
5215.9
4610.0
4008.7
3668.4
3454.0
3304.8
3202.3
3090.4
2899.3
2740.8
2675.6
2670.9
2628.9
2848.0
2824.7
1995.0
1538.2
1179.3
890.3
452.1
0.0

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