

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: P957427

Luminaire Tested: **GALN-SB9D-740-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957427
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9D-740-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 100668 lumens
Efficiency: N/A
Efficacy: 153.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B5 - U0 - G5

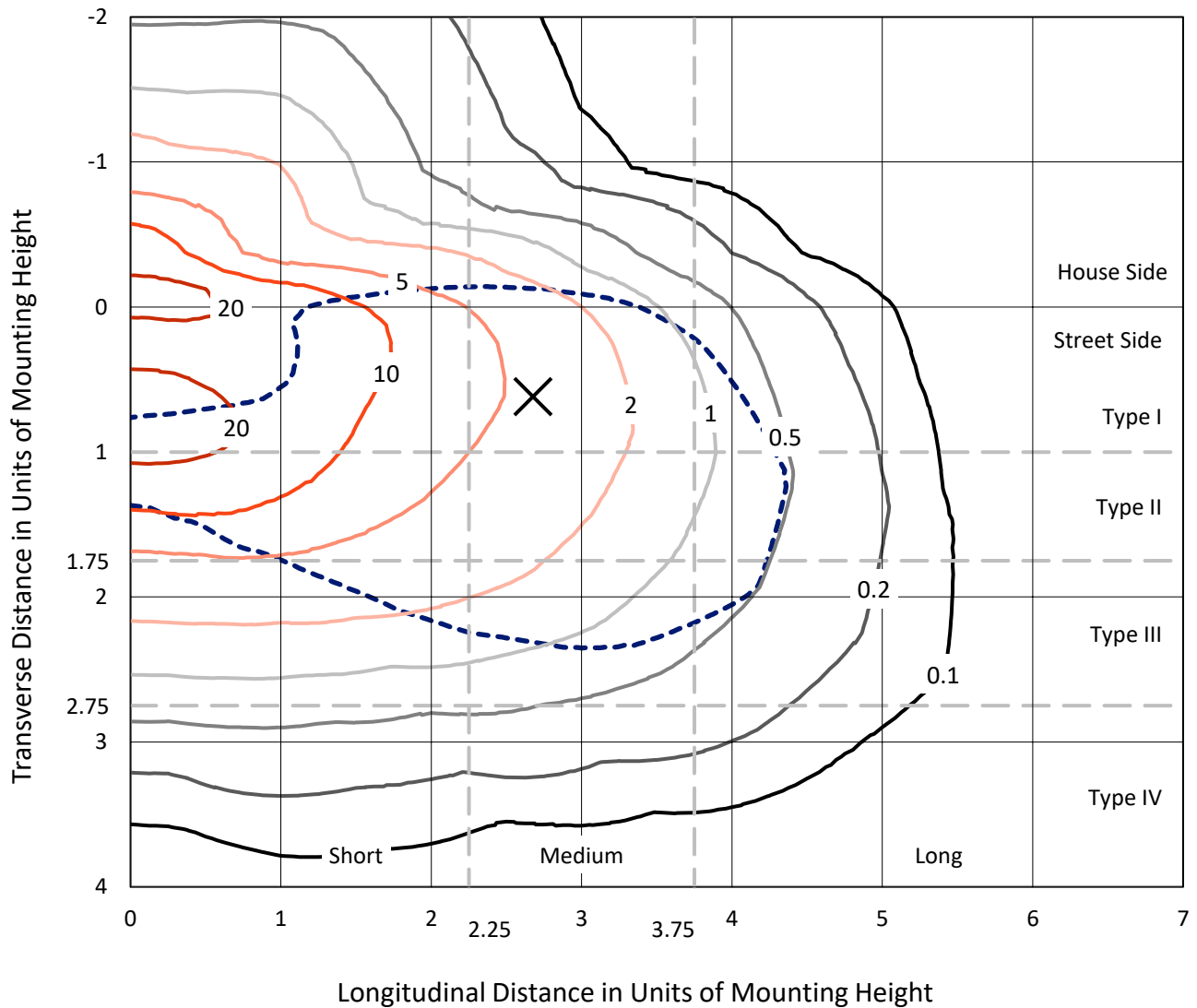
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

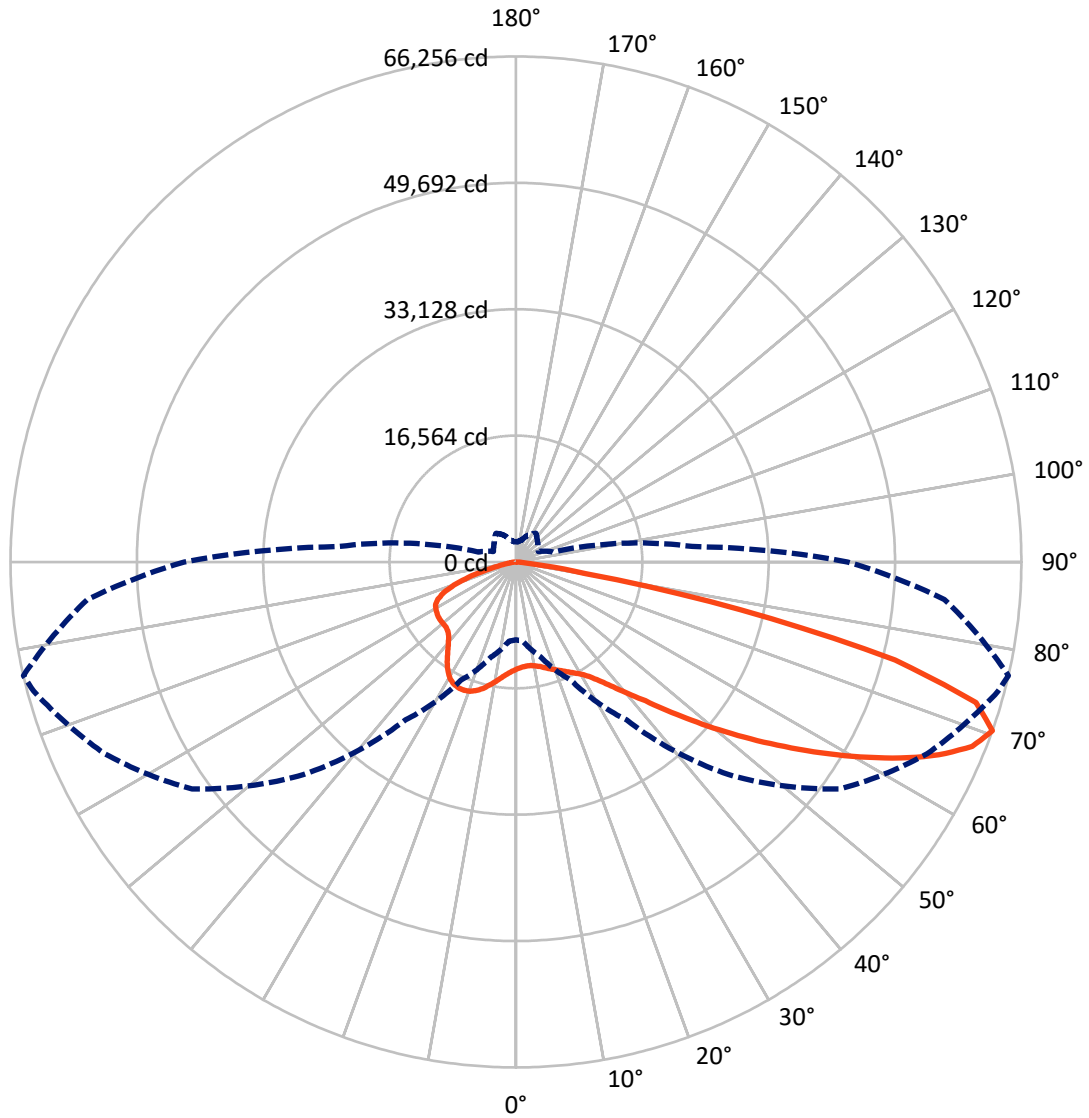
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 26.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	22044.7	0.0	22044.7
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	78623.3	0.0	78623.3
	% Fixture	78.1	0.0	78.1
Total	Lumens	100668.0	0.0	100668.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1339.4	1.3
10°-20°	3865.7	3.8
20°-30°	6610.9	6.6
30°-40°	10631.0	10.6
40°-50°	16597.9	16.5
50°-60°	22170.8	22.0
60°-70°	23630.6	23.5
70°-80°	14546.9	14.5
80°-90°	1274.7	1.3
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°	100668.0	100.0
0°-180°	100668.0	100.0

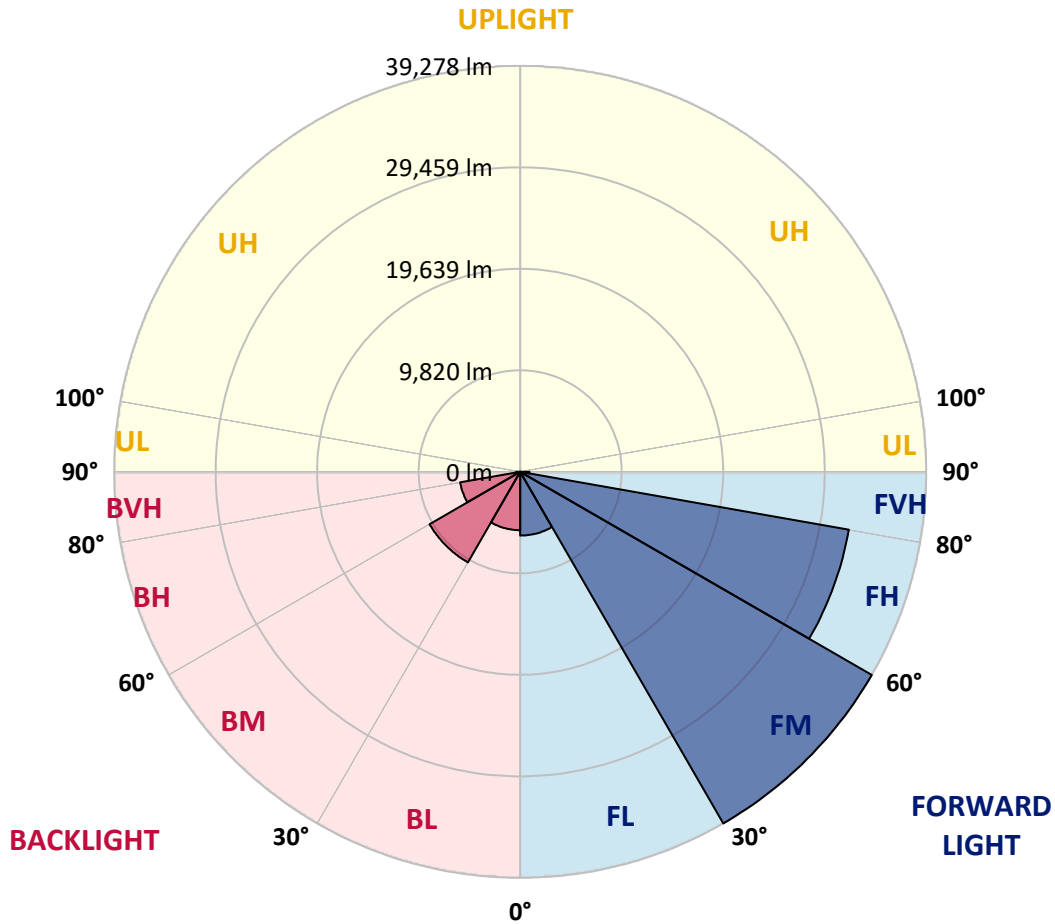


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6167.5	6.1			
FM (30°-60°)	39278.5	39.0			
FH (60°-80°)	32285.9	32.1			G5
FVH (80°-90°)	891.4	0.9			G5
BL (0°-30°)	5648.6	5.6	B5		
BM (30°-60°)	10121.2	10.1	B5		
BH (60°-80°)	5891.6	5.9	B5		G5
BVH (80°-90°)	383.4	0.4			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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	14044.1	14044.1	14044.1	14044.1	14044.1	14044.1	14044.1	14044.1	14044.1	14044.1
2.5°	12945.9	12940.8	13007.8	13028.4	13152.2	13239.8	13404.8	13580.1	13806.9	13832.7
5°	12198.4	12198.4	12275.7	12358.2	12518.0	12693.3	12945.9	13250.1	13642.0	13703.8
7.5°	11564.2	11605.5	11672.5	11832.3	12017.9	12270.5	12657.2	13090.3	13605.9	13703.8
10°	11053.8	11100.2	11182.7	11311.6	11590.0	11940.6	12445.8	13002.7	13693.5	13848.2
12.5°	10894.0	10940.4	10986.8	11084.7	11342.5	11755.0	12358.2	13043.9	13904.9	14059.6
15°	11265.2	11321.9	11285.8	11260.0	11394.1	11770.4	12399.4	13193.4	14167.8	14389.5
17.5°	12121.0	12141.7	12059.2	11816.8	11796.2	11997.3	12595.4	13399.6	14497.8	14740.1
20°	13502.8	13466.7	13296.5	12817.0	12543.8	12502.6	12930.5	13709.0	14838.1	15095.9
22.5°	15379.4	15338.2	14997.9	14240.0	13631.6	13229.5	13415.1	14111.1	15219.6	15508.3
25°	17720.1	17663.4	17163.3	16132.2	15188.7	14193.6	14075.0	14642.2	15688.8	15956.9
27.5°	20452.6	20406.2	19864.9	18503.8	17142.7	15513.5	14894.8	15266.0	16178.6	16482.7
30°	23391.4	23525.4	22566.5	21102.2	19380.2	17235.5	15998.1	16034.2	16812.7	17086.0
32.5°	26845.7	27077.7	25922.8	24066.8	21715.8	19107.0	17390.1	17106.6	17735.6	17962.4
35°	30269.1	30532.0	29573.0	27521.1	24814.3	21313.6	18844.1	18338.8	18962.6	19210.1
37.5°	33228.4	33579.0	33084.1	31300.2	28129.5	23974.0	20741.3	19787.5	20473.3	20782.6
40°	35564.0	36100.2	36064.1	34950.4	32037.5	27201.4	23149.1	21576.6	22349.9	22685.0
42.5°	37461.3	37925.3	38327.4	38270.7	36115.6	30867.1	25979.5	23901.8	24489.5	24876.2
45°	38770.8	39265.7	40131.9	41065.1	40039.1	34790.6	29222.5	26660.1	27196.3	27778.9
47.5°	39941.1	40503.1	41627.1	43106.7	43369.7	38729.6	32774.7	29872.1	30361.9	30965.1
50°	40044.3	40528.9	42271.5	44369.9	45736.1	42513.8	36589.9	33475.9	33934.8	34579.2
52.5°	37554.1	38317.1	41359.0	44333.8	46824.0	45679.4	40379.4	37224.1	37739.7	38513.0
55°	29150.3	30269.1	38683.2	42952.1	46437.3	47726.2	43983.2	41209.4	41869.4	42678.8
57.5°	25108.2	25598.0	30707.3	40436.1	44674.1	48257.3	47025.1	45236.0	46298.1	47184.9
60°	22566.5	22973.8	25995.0	36522.9	42354.0	47416.9	49376.1	48989.4	50824.8	51881.7
62.5°	19844.3	20230.9	22978.9	30495.9	39384.3	46019.7	50860.9	52454.0	55464.9	56619.8
65°	17142.7	17472.6	20107.2	25623.8	35610.4	44622.5	51629.1	55449.5	59759.6	60955.7
67.5°	14131.8	14405.0	16895.2	21617.8	31021.8	42709.8	52010.6	57805.6	63497.5	64523.5
70°	10198.0	10409.3	12982.0	17096.3	25262.9	39420.4	51855.9	59476.1	65436.0	66255.8
72.5°	4820.6	5011.3	8032.6	11100.2	17843.8	33017.1	48726.4	58151.0	63466.6	63059.3
75°	2572.7	2737.7	4614.3	6088.9	9424.6	22633.5	39874.1	50092.7	53294.4	51314.6
77.5°	1742.6	1871.5	2856.3	3655.4	4305.0	10744.5	25628.9	34682.3	33367.6	30098.9
80°	1381.7	1515.8	2340.7	2474.7	2082.9	3882.2	10589.8	16054.8	11533.3	9223.5
82.5°	1062.1	1211.6	1969.5	1794.2	1134.3	1593.1	3083.1	5078.4	2954.2	2247.9
85°	649.6	809.4	1546.7	1144.6	639.3	727.0	1046.6	1412.7	902.2	752.7
87.5°	330.0	464.0	783.7	417.6	288.7	170.1	278.4	278.4	237.2	206.2
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°
14044.1	0°	14044.1	14044.1	14044.1	14044.1	14044.1	14044.1	14044.1	14044.1	14044.1	14044.1
13971.9	2.5°	14095.7	14198.8	14374.1	14539.1	14667.9	14791.7	14915.4	14982.4	15003.1	15085.6
14049.3	5°	14260.6	14451.4	14791.7	15111.3	15312.4	15436.1	15523.8	15575.3	15585.7	15611.4
14260.6	7.5°	14564.8	14869.0	15343.3	15663.0	15812.5	15802.2	15766.1	15637.2	15585.7	15539.3
14570.0	10°	14992.8	15394.9	15977.5	16199.2	16106.4	15858.9	15539.3	15162.9	14987.6	14817.5
14992.8	12.5°	15523.8	16034.2	16606.5	16596.2	16137.3	15503.2	14760.7	14183.3	13817.3	13554.3
15513.5	15°	16168.2	16756.0	17194.2	16843.6	15838.3	14698.9	13611.0	12858.3	12528.3	12239.6
16039.4	17.5°	16833.3	17462.3	17663.4	16766.3	15085.6	13507.9	12275.7	11682.8	11358.0	11203.3
16606.5	20°	17483.0	18106.8	17941.8	16322.9	13941.0	12157.1	11059.0	10734.2	10667.1	10703.2
17158.1	22.5°	18168.7	18725.5	17998.5	15467.1	12481.9	10775.4	10172.2	10182.5	10332.0	10440.3
17735.6	25°	18869.8	19246.2	17849.0	14229.7	10914.6	9759.7	9610.2	9775.2	10069.1	10280.4
18385.2	27.5°	19545.2	19710.2	17524.2	12698.5	9569.0	9032.8	9058.6	9398.8	9842.2	10136.1
19174.0	30°	20308.3	20122.7	16900.4	10976.5	8635.8	8408.9	8625.5	9022.5	9465.9	9728.8
20169.1	32.5°	21169.3	20478.4	15910.5	9383.4	7975.9	7908.8	8264.6	8522.4	8718.3	8795.6
21488.9	35°	22241.7	20978.5	14642.2	8264.6	7383.0	7542.8	7883.1	7754.2	7676.8	7635.6
23262.5	37.5°	23633.7	21653.9	13157.3	7537.6	6903.5	7279.8	7419.0	7016.9	6712.7	6563.2
25412.4	40°	25309.3	22643.8	11729.2	6975.7	6599.3	7053.0	6810.7	6326.0	5939.4	5728.0
27830.4	42.5°	27170.5	23680.1	10527.9	6552.9	6429.1	6867.4	6362.1	5784.7	5160.8	5093.8
30712.5	45°	29124.5	24747.3	9708.2	6228.1	6346.7	6707.6	6104.3	5171.2	4727.8	5001.0
33604.8	47.5°	31078.5	25726.9	9213.2	5985.8	6305.4	6527.1	5877.5	4830.9	4516.4	4913.4
36703.4	50°	33254.2	26603.4	8991.5	5810.5	6259.0	6454.9	5537.2	4743.2	4294.7	4557.6
39910.2	52.5°	35414.4	27283.9	8826.5	5635.2	6192.0	6398.2	5372.2	4640.1	4026.6	4042.1
43137.7	55°	37569.5	27727.3	8646.1	5403.2	6042.5	6274.5	5356.8	4526.7	3825.5	3753.3
46550.7	57.5°	39869.0	27979.9	8424.4	5145.4	5784.7	5960.0	5341.3	4439.1	3763.7	3645.1
50041.1	60°	42209.6	28351.1	8135.7	4830.9	5439.3	5583.6	5305.2	4408.1	3727.6	3526.5
53330.5	62.5°	44308.0	28480.0	7790.3	4531.9	4995.9	5212.4	5227.9	4382.3	3629.6	3284.2
56063.0	65°	45684.6	27923.2	7187.0	4191.6	4516.4	4830.9	5078.4	4294.7	3454.3	3108.9
57413.8	67.5°	45627.9	26335.3	6243.5	3753.3	4052.4	4408.1	4861.8	4145.2	3242.9	2892.3
56393.0	70°	43503.7	23200.6	5047.4	3242.9	3542.0	3954.4	4583.4	3923.5	2990.3	2655.2
50144.3	72.5°	37311.7	18158.3	3665.7	2644.9	2949.1	3485.2	4222.5	3655.4	2732.5	2443.8
37059.1	75°	26654.9	11492.0	2485.0	2031.3	2294.3	2954.2	3774.0	3340.9	2495.4	2454.1
18560.5	77.5°	13616.2	5490.8	1644.7	1484.8	1598.3	2330.4	3170.8	2985.1	2531.4	2026.2
5279.4	80°	4428.7	2026.2	1036.3	1010.5	1062.1	1551.9	2454.1	2449.0	1917.9	1376.6
1278.6	82.5°	1412.7	871.3	675.4	649.6	623.8	974.4	1711.7	1938.5	1294.1	871.3
458.9	85°	562.0	520.7	397.0	366.1	262.9	458.9	897.1	1288.9	964.1	629.0
118.6	87.5°	206.2	206.2	108.3	77.3	56.7	154.7	242.3	386.7	551.7	324.8
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°
14044.1
15132.0
15652.7
15549.6
14765.9
13492.4
12208.7
11249.7
10687.7
10466.1
10337.2
10208.3
9790.7
8836.9
7676.8
6599.3
5743.4
5160.8
5145.4
5099.0
4753.5
4150.3
3804.9
3660.5
3542.0
3284.2
3108.9
2907.8
2686.1
2428.3
2314.9
1804.5
1216.7
866.2
644.5
319.7
0.0

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