

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: P957543

Luminaire Tested: **GALN-SB9D-840-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957543
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
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-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 86648 lumens
Efficiency: N/A
Efficacy: 131.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

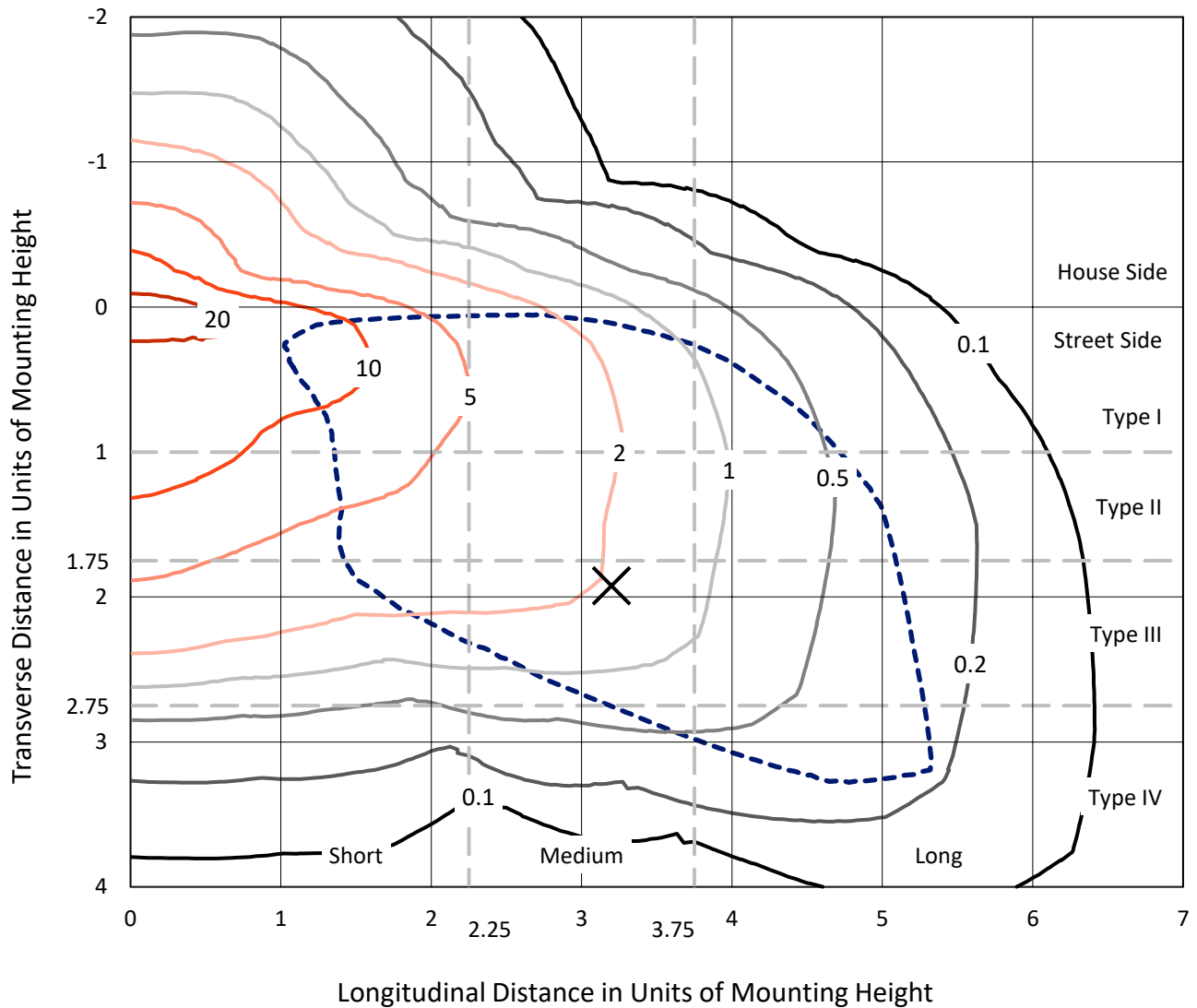
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

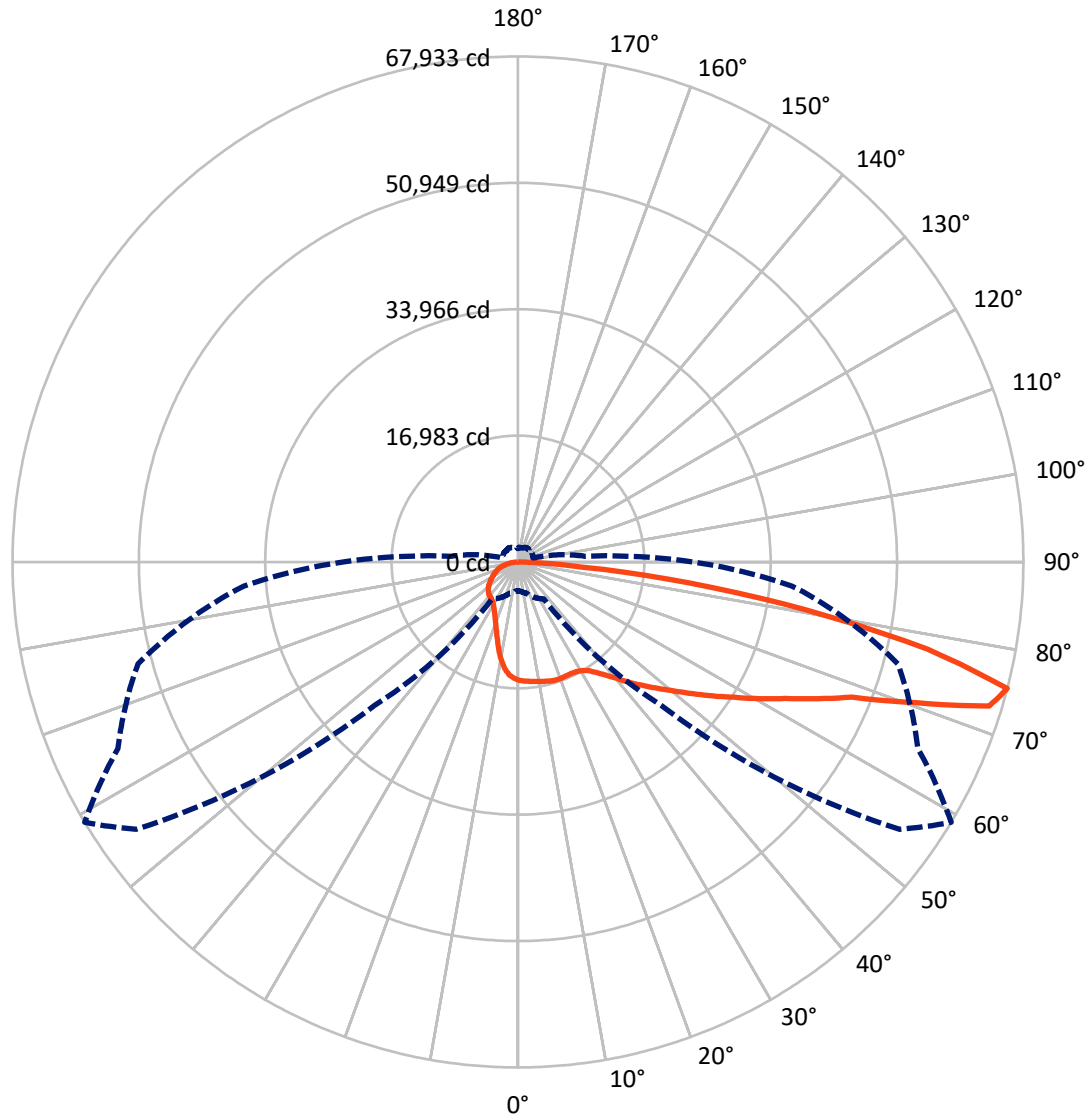
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 25.4 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16251.4	0.0	16251.4
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	70396.6	0.0	70396.6
	% Fixture	81.2	0.0	81.2
Total	Lumens	86648.0	0.0	86648.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1426.0	1.6
10°-20°	3645.1	4.2
20°-30°	5536.6	6.4
30°-40°	8230.0	9.5
40°-50°	12239.5	14.1
50°-60°	16613.6	19.2
60°-70°	20282.5	23.4
70°-80°	15917.4	18.4
80°-90°	2757.3	3.2
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°	86648.0	100.0
0°-180°	86648.0	100.0



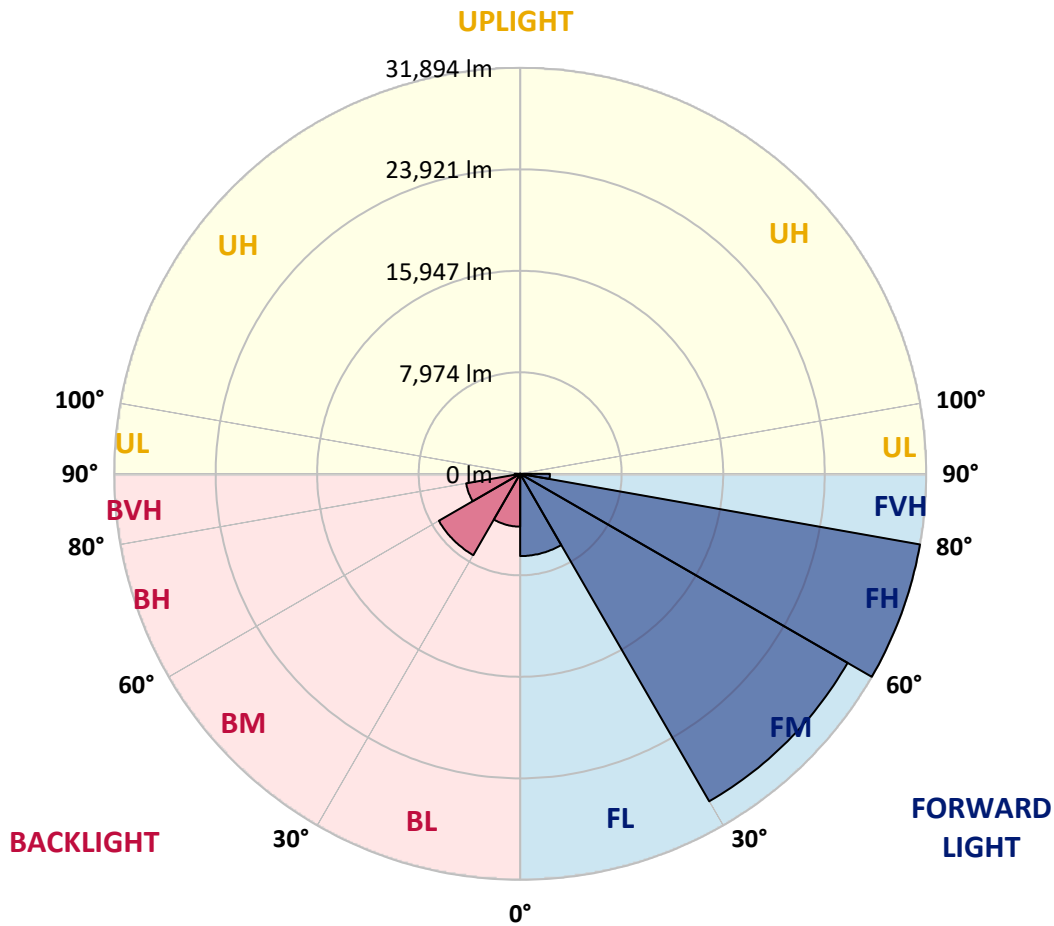
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6460.5	7.5			
FM (30°-60°)	29706.5	34.3			
FH (60°-80°)	31894.3	36.8			G5
FVH (80°-90°)	2335.2	2.7			G5
BL (0°-30°)	4147.2	4.8	B4/5000		
BM (30°-60°)	7376.5	8.5	B4/8500		
BH (60°-80°)	4305.6	5.0	B4/5000		G4/5000
BVH (80°-90°)	422.1	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	15904.0	15904.0	15904.0	15904.0	15904.0	15904.0	15904.0	15904.0	15904.0	15904.0
2.5°	16039.2	15983.3	16039.2	16015.9	16006.6	15987.9	15992.6	16025.2	16006.6	16029.9
5°	15932.0	15899.4	15955.3	15941.3	16001.9	16011.3	16071.9	16109.1	16132.4	16137.1
7.5°	15754.9	15722.3	15801.5	15866.8	15997.3	16034.6	16160.4	16221.0	16253.6	16309.6
10°	15107.0	15093.0	15288.8	15535.8	15843.5	16034.6	16225.7	16328.2	16379.5	16528.6
12.5°	13960.3	13979.0	14235.3	14710.8	15326.1	15941.3	16300.3	16449.4	16528.6	16715.1
15°	12864.9	12860.3	13139.9	13648.0	14510.3	15531.2	16337.5	16593.9	16729.1	17004.1
17.5°	12231.0	12212.4	12408.1	12795.0	13596.7	14901.9	16244.3	16673.1	16962.1	17307.1
20°	12114.5	12077.2	12179.7	12370.9	12939.5	14212.0	16001.9	16673.1	17148.6	17596.1
22.5°	12538.7	12478.1	12436.1	12412.8	12664.5	13643.4	15726.9	16617.2	17423.6	18010.9
25°	13391.7	13298.4	13084.0	12874.3	12799.7	13387.0	15484.5	16603.2	17833.8	18570.3
27.5°	14771.4	14654.8	14221.4	13717.9	13265.8	13517.5	15377.3	16687.1	18285.9	19162.2
30°	16482.0	16356.2	15810.8	15037.1	14226.0	14002.3	15512.5	16934.2	18863.9	19950.0
32.5°	18015.6	17875.7	17409.6	16621.9	15526.5	14841.3	15941.3	17405.0	19772.9	21045.4
35°	19376.6	19213.5	18794.0	18066.8	17120.6	16020.6	16715.1	18239.3	21064.0	22825.9
37.5°	20709.8	20518.6	20061.8	19292.7	18630.9	17591.4	17782.5	19311.4	22779.3	24988.7
40°	22201.3	21926.3	21371.6	20611.9	19968.6	19432.6	19185.5	20625.9	24522.6	27403.3
42.5°	23646.3	23385.3	22723.4	22075.5	21269.1	21115.3	20812.3	22164.1	26429.1	30055.5
45°	25203.2	24890.9	24089.1	23268.8	22760.7	22234.0	22387.8	23702.3	28298.2	32759.0
47.5°	26662.1	26312.5	25366.3	24452.7	24173.0	23175.5	23832.8	25394.3	30241.9	35499.8
50°	27449.9	27104.9	26317.2	25492.2	25273.1	24336.2	25398.9	27254.1	32278.9	38231.2
52.5°	28107.1	27734.2	26704.1	26247.3	26182.0	25599.4	27328.7	29379.6	34315.8	40645.7
55°	28806.3	28391.4	27077.0	26666.8	26965.1	27016.4	29617.3	31789.4	36469.3	42999.7
57.5°	29612.7	29085.9	27435.9	27021.0	27729.5	28675.8	32246.2	34287.9	38585.5	45181.1
60°	30372.4	29841.1	28125.7	27585.0	28554.6	30600.8	35262.1	37313.0	40981.4	47124.8
62.5°	30521.6	30083.4	28675.8	28671.1	29673.3	32847.5	38832.5	40366.1	43074.2	49045.2
65°	27939.3	27664.3	26829.9	28629.1	31276.7	36082.4	42808.5	44272.2	45735.8	50723.3
67.5°	21264.4	21301.7	21241.1	24713.7	29980.9	40729.6	48565.1	48453.3	49021.9	52606.4
70°	9723.3	9942.4	11368.7	17060.0	24019.2	41265.7	58083.3	56633.7	53147.1	55044.2
72.5°	5253.2	5421.0	6003.6	8264.3	14440.4	36688.4	65196.3	66226.5	58633.4	56685.0
75°	3854.8	3948.0	4353.6	5253.2	6064.2	27268.1	62646.7	67932.5	59318.6	52858.1
77.5°	2885.3	2927.2	3258.2	4162.5	3104.4	14375.2	50056.7	56260.8	50779.2	43428.5
80°	2092.9	2139.5	2386.5	3123.0	2176.8	5257.8	34371.8	39489.8	34777.3	27682.9
82.5°	1445.0	1463.6	1570.8	2125.5	1519.6	2041.6	19502.5	23156.9	19413.9	9714.0
85°	871.6	895.0	941.6	1239.9	862.3	969.5	8418.1	8707.1	5803.2	2321.3
87.5°	358.9	382.2	419.5	522.1	340.3	270.4	1389.0	1743.3	1086.1	680.5
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°
15904.0	0°	15904.0	15904.0	15904.0	15904.0	15904.0	15904.0	15904.0	15904.0	15904.0	15904.0
15950.7	2.5°	15927.4	15894.7	15806.2	15685.0	15573.1	15433.3	15372.7	15321.4	15274.8	15186.2
16076.5	5°	16025.2	15936.7	15699.0	15391.3	15041.7	14659.5	14286.6	14030.2	13811.2	13648.0
16221.0	7.5°	16174.4	16006.6	15573.1	14943.8	14142.1	13321.7	12580.6	12053.9	11657.7	11513.2
16426.1	10°	16328.2	16127.8	15372.7	14263.3	12878.9	11615.7	10632.2	10091.5	9774.6	9672.0
16668.5	12.5°	16510.0	16216.3	15060.4	13317.1	11466.6	10082.2	9224.5	8907.6	8744.4	8688.5
16966.8	15°	16775.7	16290.9	14589.6	12133.1	10119.5	8963.5	8408.8	8189.7	8105.8	8101.2
17274.4	17.5°	16976.1	16304.9	13857.8	10865.3	9084.7	8287.6	7830.8	7746.9	7802.9	7886.8
17577.4	20°	17199.9	16179.1	12897.6	9709.3	8357.5	7695.7	7504.5	7560.5	7695.7	7816.8
17978.3	22.5°	17358.3	15950.7	11736.9	8809.7	7728.3	7355.4	7346.1	7462.6	7537.2	7597.8
18449.1	25°	17498.2	15563.8	10506.4	8054.6	7210.9	7150.3	7252.8	7215.6	7164.3	7215.6
18919.8	27.5°	17600.7	14953.2	9406.3	7392.7	6847.3	7010.5	6949.9	6866.0	6861.3	6889.3
19474.5	30°	17568.1	14137.4	8502.0	6763.4	6591.0	6749.4	6604.9	6591.0	6577.0	6591.0
20308.9	32.5°	17568.1	13209.9	7807.5	6329.9	6427.8	6367.2	6353.2	6320.6	6264.7	6260.0
21441.6	35°	17666.0	12282.3	7210.9	6096.9	6292.6	6148.1	6157.5	6078.2	5961.7	5905.8
22942.5	37.5°	17866.4	11536.5	6618.9	5985.0	6054.9	6050.3	6013.0	5877.8	5672.7	5495.6
24816.3	40°	18351.2	11317.4	6213.4	5933.7	5943.0	5999.0	5901.1	5640.1	5173.9	4884.9
26718.1	42.5°	19111.0	11685.7	6124.8	5807.9	5868.5	5924.4	5733.3	5127.3	4796.4	4623.9
28713.1	45°	20075.8	12328.9	6315.9	5626.1	5691.3	5789.2	5220.6	4931.6	4782.4	4787.1
30689.4	47.5°	21297.1	13004.8	6670.2	5467.6	5435.0	5490.9	4880.3	4703.2	4498.1	4549.3
32586.5	50°	22709.4	13690.0	7005.8	5253.2	5150.6	4968.8	4661.2	4493.4	4232.4	4111.2
34418.4	52.5°	24238.3	14351.9	7141.0	4992.2	4843.0	4633.2	4512.1	4307.0	3990.0	3789.6
36147.7	55°	25687.9	14953.2	6991.8	4679.9	4535.4	4372.2	4353.6	4227.7	3887.4	3607.8
37685.9	57.5°	27058.3	15456.6	6618.9	4362.9	4223.1	4125.2	4251.0	4190.4	3761.6	3402.7
39140.2	60°	28219.0	15801.5	6078.2	4041.3	3943.4	3892.1	4083.2	4064.6	3584.5	3183.6
40445.3	62.5°	29141.9	15936.7	5481.6	3733.6	3710.3	3617.1	3850.2	3850.2	3360.7	2969.2
41592.0	65°	29864.4	15806.2	4875.6	3430.7	3477.3	3337.4	3565.8	3537.9	3123.0	2778.1
42911.1	67.5°	30503.0	15377.3	4204.4	3132.3	3239.5	3062.4	3267.5	3202.3	2862.0	2587.0
44053.1	70°	30787.3	14379.8	3440.0	2834.0	2964.5	2792.1	2969.2	2848.0	2568.3	2381.9
42799.2	72.5°	28503.3	11951.3	2708.2	2521.7	2633.6	2493.7	2647.6	2507.7	2251.4	2167.5
36958.7	75°	23581.1	8968.2	2083.6	2181.4	2265.3	2158.1	2260.7	2158.1	1925.1	1985.7
27300.7	77.5°	17125.3	6054.9	1594.1	1822.5	1859.8	1803.9	1892.5	1775.9	1566.2	1552.2
13606.1	80°	8516.0	3547.2	1249.2	1440.3	1426.3	1389.0	1491.6	1435.7	1258.5	1333.1
3673.0	82.5°	2465.8	1519.6	908.9	1011.5	983.5	992.8	1067.4	1095.4	1640.7	1626.8
1142.0	85°	773.8	596.6	545.4	564.0	536.0	550.0	629.3	1249.2	1156.0	675.9
354.3	87.5°	200.4	205.1	135.2	144.5	149.2	177.1	200.4	759.8	363.6	237.7
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°
15904.0
15144.3
13512.8
11261.5
9513.5
8702.5
8119.8
7919.4
7858.8
7630.4
7248.2
6935.9
6642.2
6320.6
5961.7
5556.2
4922.2
4623.9
4810.4
4679.9
4143.8
3784.9
3607.8
3384.0
3169.6
2955.2
2759.4
2568.3
2344.6
2097.5
1813.2
1482.3
1319.1
1664.1
731.8
251.7
0.0

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