

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: P957667

Luminaire Tested: **GALN-SB9D-950-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957667
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9D-950-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 64088 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

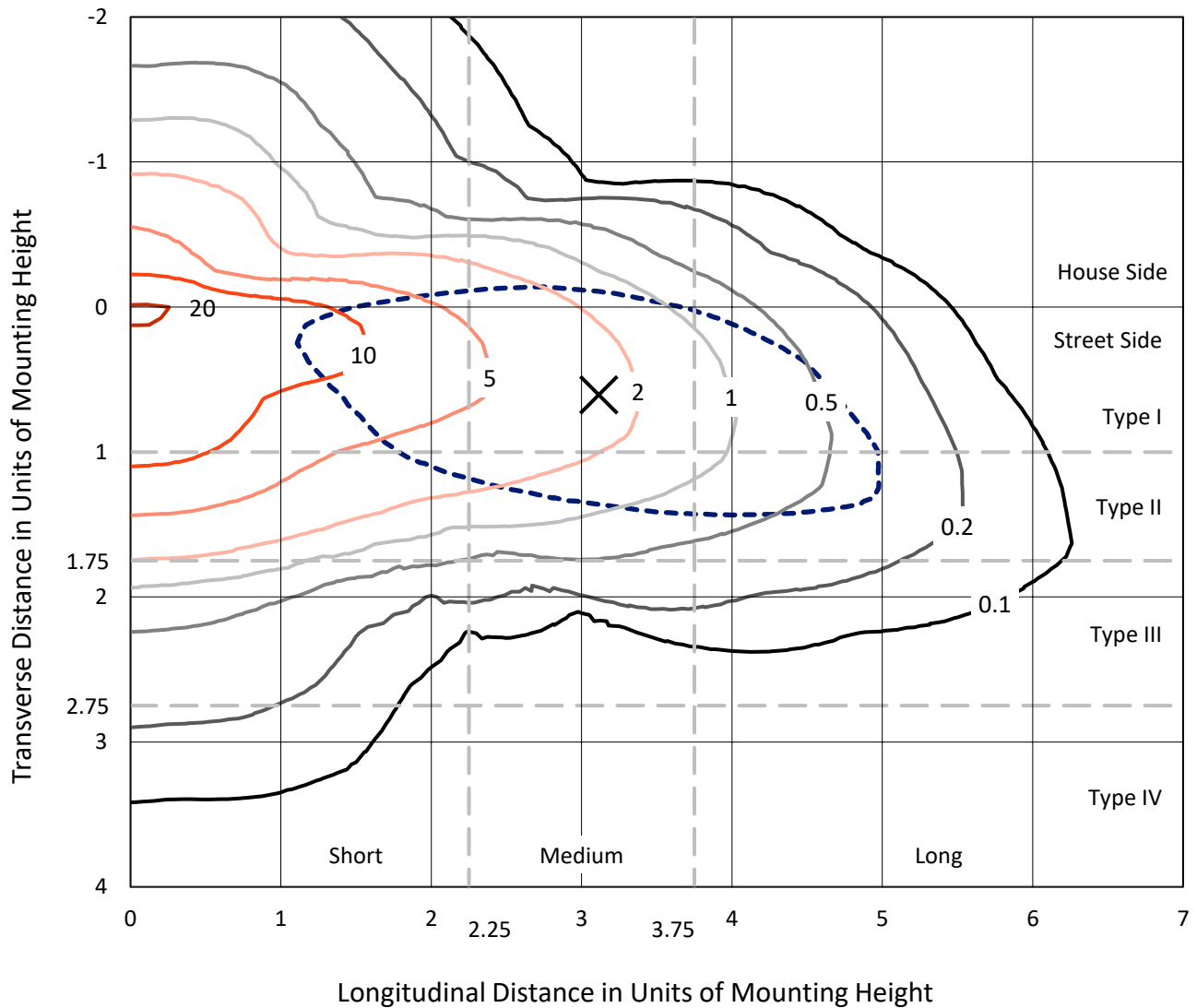
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

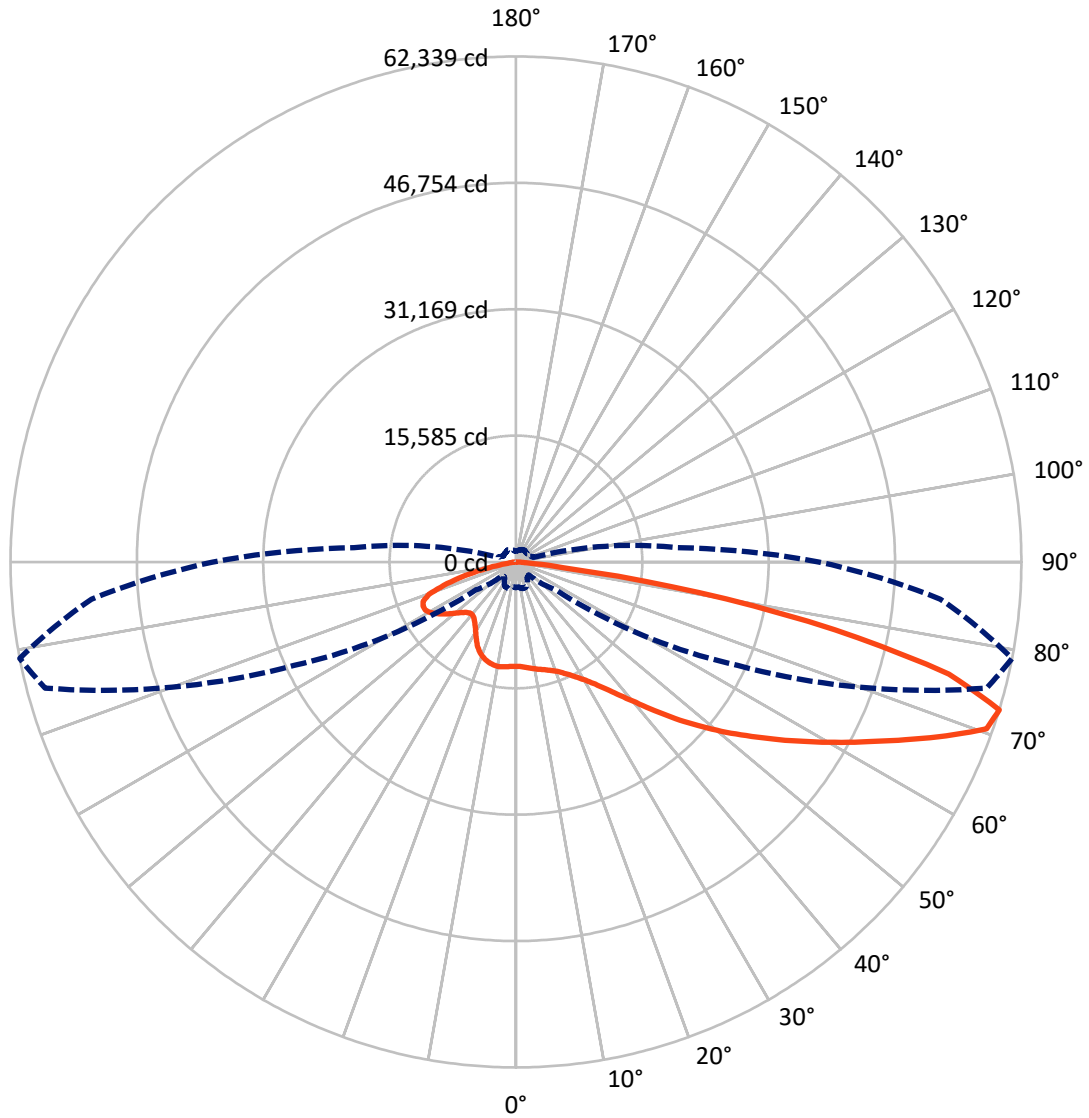
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14102.9	0.0	14102.9
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	49985.1	0.0	49985.1
	% Fixture	78.0	0.0	78.0
Total	Lumens	64088.0	0.0	64088.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1167.8	1.8
10°-20°	3053.2	4.8
20°-30°	4926.5	7.7
30°-40°	7394.0	11.5
40°-50°	10488.8	16.4
50°-60°	13246.0	20.7
60°-70°	13453.1	21.0
70°-80°	9168.9	14.3
80°-90°	1189.6	1.9
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°	64088.0	100.0
0°-180°	64088.0	100.0

Coefficient of Utilization



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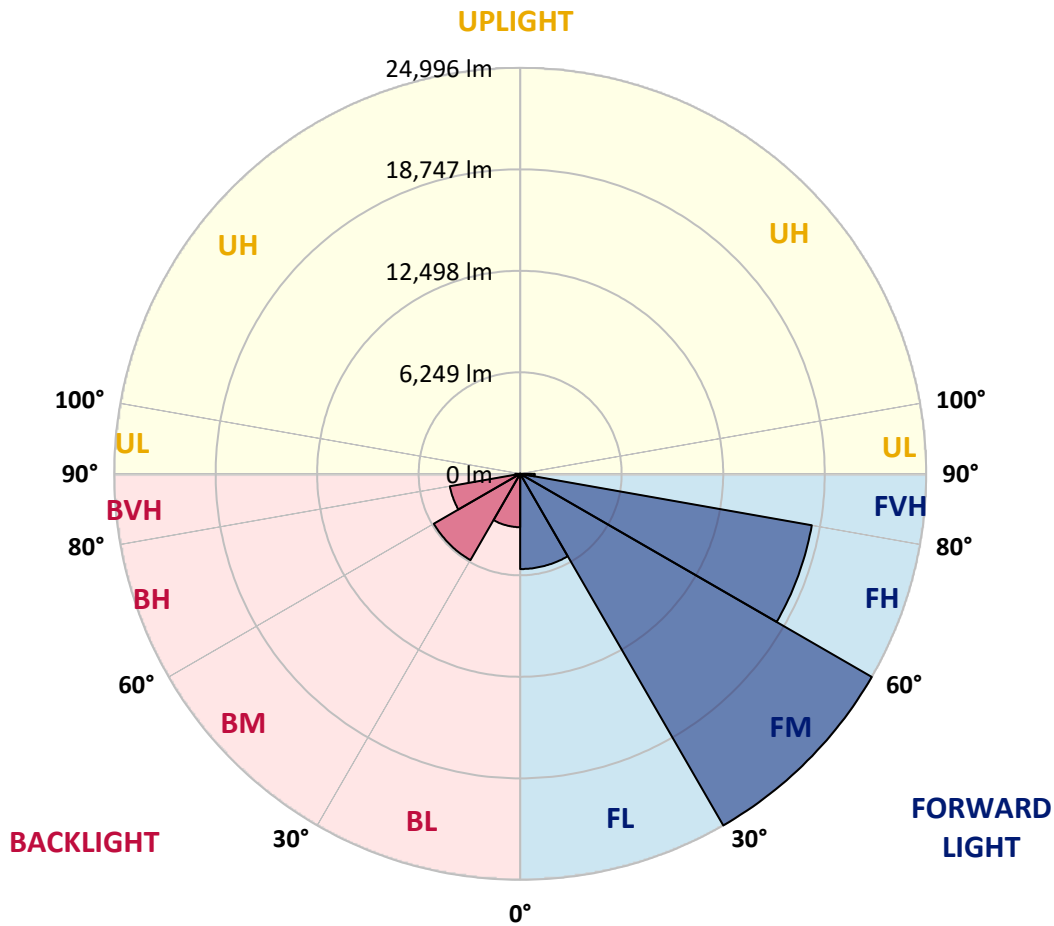
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5862.5	9.1			
FM (30°-60°)	24995.6	39.0			
FH (60°-80°)	18230.9	28.4			G5
FVH (80°-90°)	896.1	1.4			G5
BL (0°-30°)	3285.0	5.1	B4/5000		
BM (30°-60°)	6133.3	9.6	B4/8500		
BH (60°-80°)	4391.2	6.9	B4/5000		G4/5000
BVH (80°-90°)	293.5	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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	12865.1	12865.1	12865.1	12865.1	12865.1	12865.1	12865.1	12865.1	12865.1	12865.1
2.5°	12871.8	12810.8	12848.1	12834.5	12851.5	12871.8	12878.6	12888.8	12922.7	12919.3
5°	12844.7	12783.7	12834.5	12817.6	12861.7	12909.1	12949.8	12987.1	13041.3	13065.1
7.5°	12787.1	12746.4	12797.3	12848.1	12929.5	13000.7	13058.3	13143.0	13221.0	13234.6
10°	12451.5	12421.0	12539.6	12671.8	12895.6	13088.8	13214.2	13312.5	13397.3	13410.8
12.5°	12102.3	12065.0	12197.2	12376.9	12739.6	13088.8	13353.2	13482.0	13556.6	13600.7
15°	12044.7	12014.2	12088.7	12244.7	12546.4	12997.3	13448.1	13685.4	13749.8	13800.7
17.5°	12322.7	12265.0	12295.5	12349.8	12526.1	12912.5	13522.7	13916.0	14014.3	14068.5
20°	12966.8	12885.4	12837.9	12729.5	12698.9	12926.1	13515.9	14193.9	14322.8	14390.6
22.5°	13824.4	13770.2	13668.5	13393.9	13095.6	13092.2	13644.8	14549.9	14790.6	14855.0
25°	14861.8	14780.4	14651.6	14278.7	13705.8	13421.0	13861.7	15004.1	15407.6	15424.5
27.5°	16055.0	15933.0	15756.7	15265.2	14492.3	13936.3	14193.9	15526.2	16116.1	16109.3
30°	17312.7	17190.7	17004.2	16407.6	15434.7	14631.2	14655.0	16088.9	16956.8	16919.5
32.5°	18231.4	18139.9	18102.6	17641.6	16519.5	15451.6	15183.8	16712.7	17994.1	17960.2
35°	18936.5	18817.9	18862.0	18628.1	17702.6	16370.3	15831.3	17455.1	19255.2	19251.8
37.5°	19634.9	19529.8	19567.1	19411.2	18797.6	17536.5	16621.2	18363.6	20818.0	20892.6
40°	20272.2	20160.3	20309.5	20163.7	19648.5	18777.2	17519.5	19390.8	22628.3	22770.6
42.5°	20655.3	20567.1	20814.6	20818.0	20387.5	19824.7	18506.0	20523.1	24723.3	25041.9
45°	20787.5	20757.0	21129.9	21207.9	21041.7	20431.5	19394.2	21757.0	26981.0	27550.5
47.5°	20645.1	20587.5	21102.8	21390.9	21523.1	20716.3	20129.8	23092.7	29286.2	30120.2
50°	19926.4	19814.6	20580.7	21187.5	21658.7	20902.8	20872.2	24635.1	31906.7	32818.6
52.5°	18634.8	18550.1	19421.3	20475.6	21360.4	20994.3	21706.2	26320.0	34395.0	35574.7
55°	16983.9	16872.0	17831.4	19207.7	20618.0	20963.8	22540.1	28204.8	37330.7	38527.4
57.5°	14366.8	14143.1	15356.7	16983.9	19407.8	20926.5	23408.0	30079.5	40313.9	41747.9
60°	10549.7	10217.5	11705.7	13634.6	17041.5	20563.8	24482.6	32181.3	43893.7	45185.3
62.5°	6142.7	5949.5	6922.4	8722.5	12844.7	18428.0	25086.0	34625.5	47412.6	48768.6
65°	4769.7	4715.5	4800.2	4939.2	7149.5	13797.3	23224.9	37008.6	51887.4	52836.6
67.5°	4362.9	4322.3	4359.5	4098.5	3627.3	7685.1	18373.8	37612.1	56680.8	57257.1
70°	3878.2	3830.7	3952.7	3729.0	2854.4	3495.1	11871.8	35422.1	60494.6	61576.0
72.5°	3159.5	3105.2	3390.0	3288.3	2403.5	2244.2	5963.0	30218.5	60094.6	62338.7
75°	2427.2	2396.7	2735.7	2820.5	1959.4	1766.2	2861.2	22462.2	52884.0	55145.2
77.5°	1884.8	1861.1	2034.0	2342.5	1579.7	1369.6	1759.4	14248.2	39852.9	40249.5
80°	1413.6	1345.8	1505.2	1813.7	1230.6	1000.1	1193.3	8308.9	25191.1	22835.1
82.5°	884.8	850.9	983.1	1210.2	867.8	688.2	776.3	4590.1	10095.4	5946.1
85°	505.1	491.6	535.6	691.6	471.2	396.6	444.1	2027.2	1844.2	1267.9
87.5°	203.4	196.6	244.1	308.5	172.9	145.8	155.9	488.2	406.8	376.3
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°
12865.1	0°	12865.1	12865.1	12865.1	12865.1	12865.1	12865.1	12865.1	12865.1	12865.1	12865.1
12915.9	2.5°	12902.3	12902.3	12854.9	12780.3	12695.6	12641.3	12553.2	12529.4	12437.9	12410.8
13031.2	5°	13058.3	13031.2	12885.4	12675.2	12387.1	12122.6	11831.1	11648.0	11390.4	11298.9
13258.3	7.5°	13254.9	13180.3	12929.5	12468.4	11865.0	11271.8	10654.8	10187.0	9739.5	9580.1
13444.7	10°	13434.6	13329.5	12902.3	12095.5	11051.4	10024.2	9041.1	8353.0	7830.9	7617.3
13651.5	12.5°	13614.2	13421.0	12722.7	11475.2	9895.4	8502.1	7454.6	6919.0	6596.9	6339.3
13821.0	15°	13783.7	13512.5	12444.7	10644.6	8627.6	7213.9	6441.0	6013.9	5756.2	5586.7
14068.5	17.5°	13980.4	13590.5	12027.7	9590.3	7420.7	6322.4	5691.8	5434.2	5383.3	5363.0
14407.5	20°	14255.0	13661.7	11478.5	8410.6	6532.5	5610.5	5285.0	5261.3	5257.9	5247.7
14814.3	22.5°	14549.9	13746.5	10753.1	7339.4	5776.6	5166.4	5108.7	5061.3	5030.8	5027.4
15305.9	25°	14899.1	13773.6	9844.6	6461.3	5132.5	4956.2	4888.4	4817.2	4796.9	4796.9
15865.2	27.5°	15238.1	13682.0	8786.9	5698.6	4769.7	4763.0	4674.8	4651.1	4647.7	4657.9
16502.5	30°	15577.1	13509.2	7736.0	4993.5	4559.6	4559.6	4529.0	4546.0	4559.6	4593.5
17377.1	32.5°	16034.7	13326.1	6858.0	4471.4	4376.5	4342.6	4373.1	4407.0	4420.6	4464.6
18526.4	35°	16705.9	13197.3	6159.6	4186.7	4186.7	4142.6	4159.5	4152.8	4122.2	4101.9
19916.3	37.5°	17594.1	13190.5	5583.3	4054.4	4027.3	4020.5	4023.9	3979.9	3861.2	3718.8
21597.7	40°	18662.0	13373.6	5139.2	3962.9	3942.6	3983.3	3962.9	3844.3	3518.8	3271.4
23665.6	42.5°	20095.9	13895.6	4854.5	3851.0	3912.1	3962.9	3881.6	3471.4	3251.0	3084.9
26021.7	45°	21784.2	14743.1	4708.7	3732.4	3854.4	3915.5	3522.2	3342.5	3166.3	2966.3
28591.3	47.5°	23696.1	15811.0	4674.8	3620.5	3725.6	3762.9	3369.7	3288.3	3088.3	2871.3
31174.5	50°	25777.6	17075.4	4766.3	3488.3	3539.2	3410.3	3318.8	3244.2	3037.4	2823.9
33822.0	52.5°	27930.2	18468.7	4949.4	3308.6	3352.7	3210.3	3298.5	3234.1	3006.9	2718.8
36557.8	55°	30045.6	19872.2	5125.7	3098.5	3162.9	3030.7	3240.8	3193.4	2867.9	2542.5
39476.6	57.5°	32194.8	21268.9	5298.6	2912.0	2979.8	2857.8	3149.3	3084.9	2712.0	2379.8
42663.2	60°	34428.9	22624.9	5379.9	2732.3	2779.8	2698.4	3010.3	2898.5	2535.7	2213.7
45795.5	62.5°	36520.5	23753.7	5247.7	2552.7	2583.2	2549.3	2827.3	2678.1	2359.4	2027.2
49060.1	65°	38618.9	24425.0	4840.9	2376.4	2383.2	2366.2	2569.6	2440.8	2152.7	1864.5
51917.9	67.5°	40520.7	24801.3	4193.4	2186.6	2169.6	2162.8	2328.9	2183.2	1952.6	1701.8
54090.9	70°	40924.1	23845.3	3203.6	1962.8	1962.8	1945.9	2064.5	1915.4	1732.3	1528.9
52534.9	72.5°	37378.2	20058.6	2274.7	1708.6	1735.7	1701.8	1800.1	1674.7	1508.6	1373.0
45276.9	75°	30140.5	14709.2	1654.3	1447.5	1495.0	1437.4	1528.9	1440.8	1298.4	1295.0
31201.6	77.5°	20709.5	9095.4	1200.1	1193.3	1227.2	1152.6	1257.7	1210.2	1081.4	1023.8
13580.3	80°	8837.7	3627.3	874.6	922.1	922.1	854.3	976.3	989.9	878.0	850.9
2620.5	82.5°	1759.4	1030.6	613.6	633.9	596.6	576.3	691.6	766.1	1057.7	1176.3
789.9	85°	528.8	379.7	369.5	345.8	305.1	308.5	406.8	769.5	949.2	542.4
261.0	87.5°	145.8	94.9	98.3	78.0	64.4	84.8	139.0	583.1	318.7	135.6
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°
12865.1
12454.9
11366.7
9600.5
7664.8
6424.1
5617.2
5376.5
5281.6
5064.7
4817.2
4685.0
4617.2
4501.9
4149.4
3722.2
3264.6
3078.1
2952.7
2854.4
2800.1
2698.4
2525.6
2373.0
2203.5
2023.8
1844.2
1681.4
1522.1
1332.3
1166.2
959.4
850.9
1179.7
467.8
115.3
0.0

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