

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: P944825

Luminaire Tested: **GALN-SB9D-950-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944825
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
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-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 63888 lumens
Efficiency: N/A
Efficacy: 97.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B5 - U0 - G5

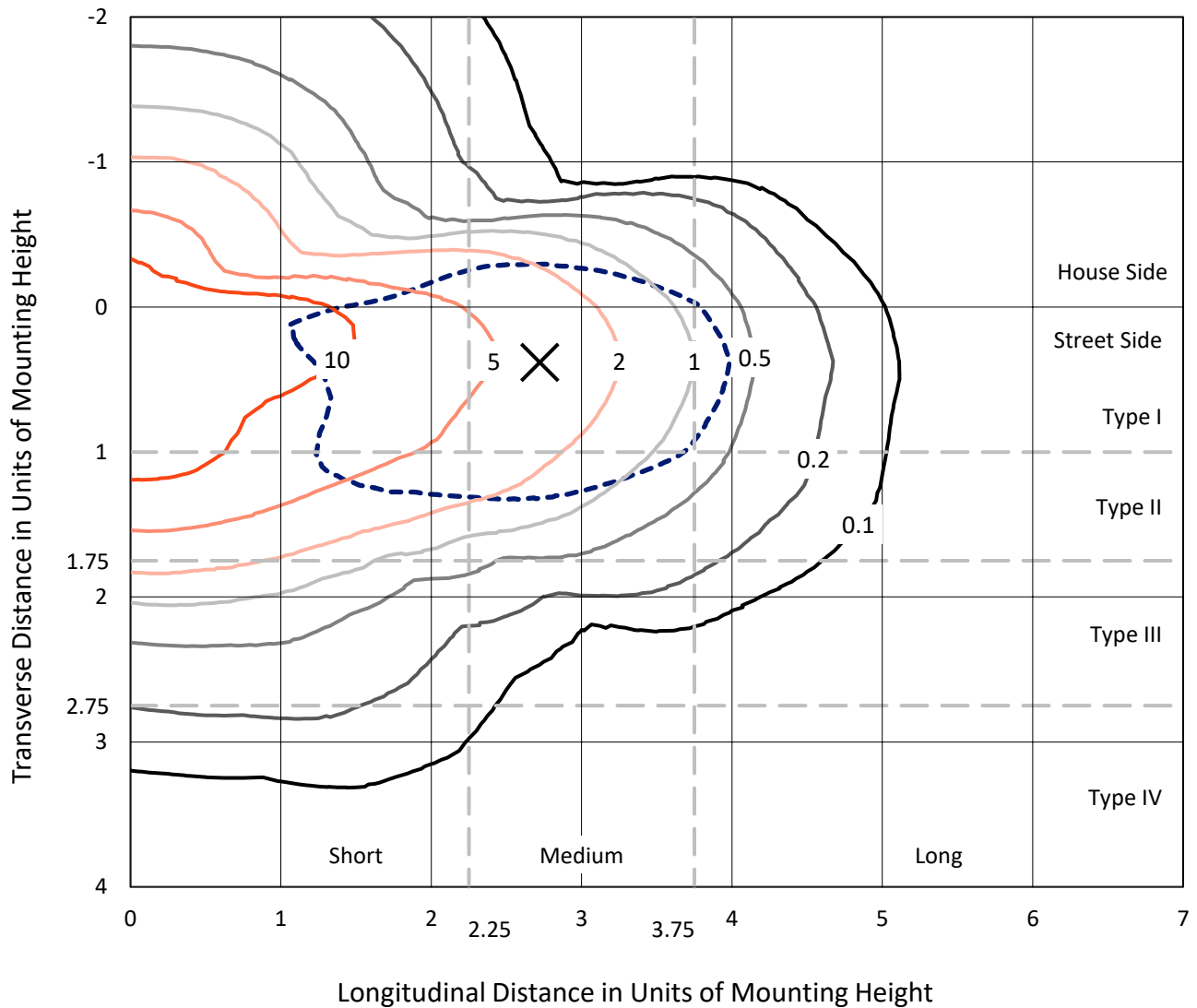
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

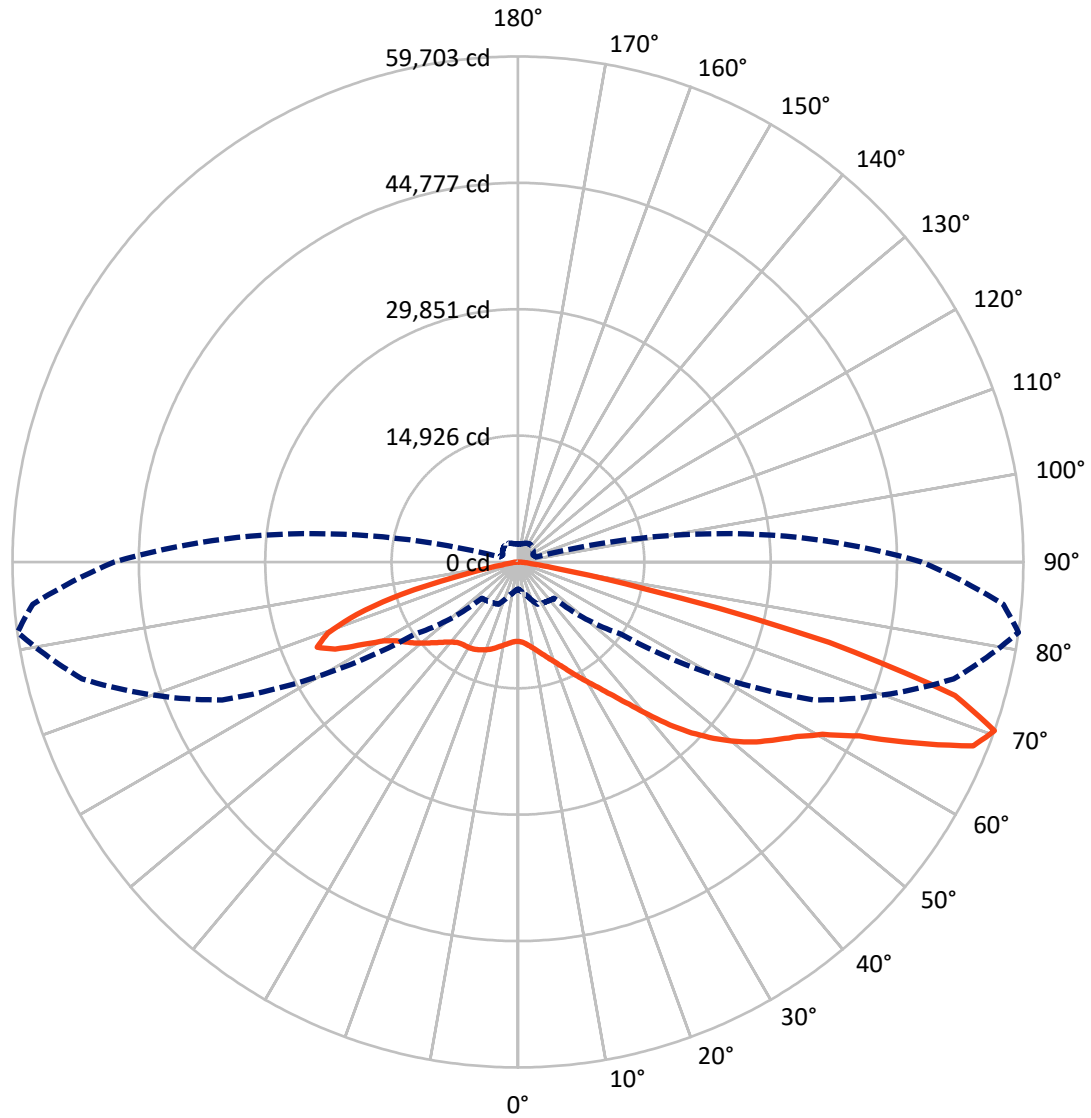
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15750.0	0.0	15750.0
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	48138.0	0.0	48138.0
	% Fixture	75.3	0.0	75.3
Total	Lumens	63888.0	0.0	63888.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	884.4	1.4
10°-20°	2540.9	4.0
20°-30°	4250.7	6.7
30°-40°	6640.7	10.4
40°-50°	10576.0	16.6
50°-60°	14717.8	23.0
60°-70°	15395.5	24.1
70°-80°	8046.5	12.6
80°-90°	835.5	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°	63888.0	100.0
0°-180°	63888.0	100.0

Coefficient of Utilization



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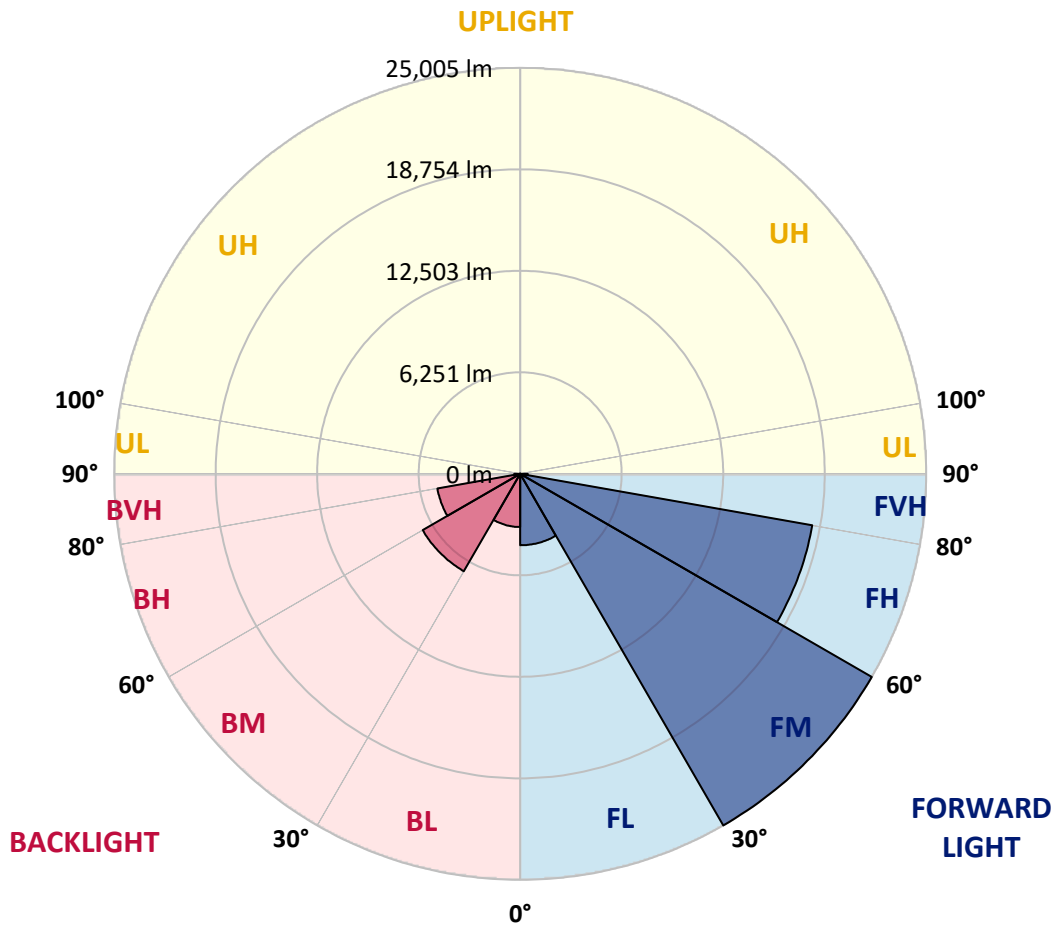
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4399.4	6.9			
FM (30°-60°)	25005.1	39.1			
FH (60°-80°)	18265.8	28.6			G5
FVH (80°-90°)	467.7	0.7			G3/500
BL (0°-30°)	3276.6	5.1	B4/5000		
BM (30°-60°)	6929.4	10.8	B4/8500		
BH (60°-80°)	5176.2	8.1	B5		G5
BVH (80°-90°)	367.8	0.6			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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	9366.8	9366.8	9366.8	9366.8	9366.8	9366.8	9366.8	9366.8	9366.8	9366.8
2.5°	9590.5	9644.8	9627.8	9610.9	9610.9	9587.1	9583.7	9549.8	9522.7	9478.7
5°	9712.6	9770.2	9763.4	9777.0	9821.0	9831.2	9841.4	9821.0	9766.8	9712.6
7.5°	9604.1	9668.5	9688.8	9770.2	9905.8	10027.8	10119.4	10156.7	10105.8	10027.8
10°	9238.0	9309.1	9380.3	9573.6	9814.3	10102.4	10346.5	10492.3	10482.1	10407.5
12.5°	8495.5	8570.1	8722.7	9099.0	9539.7	10048.2	10502.5	10807.6	10912.7	10858.4
15°	7902.3	7966.7	8081.9	8468.4	9041.3	9814.3	10560.1	11153.3	11421.2	11390.7
17.5°	7885.3	7912.4	7983.6	8166.7	8607.4	9448.1	10499.1	11492.4	12004.3	12000.9
20°	8183.6	8193.8	8234.5	8271.8	8522.7	9170.2	10343.1	11773.7	12658.5	12658.5
22.5°	8597.2	8590.5	8631.1	8597.2	8719.3	9146.4	10244.8	12021.2	13387.4	13441.7
25°	9217.6	9183.7	9173.5	9095.6	9119.3	9366.8	10353.3	12302.6	14251.9	14363.8
27.5°	10044.8	9990.6	9953.3	9773.6	9712.6	9821.0	10685.5	12641.6	15214.7	15407.9
30°	11122.8	11024.5	10970.3	10658.4	10438.0	10455.0	11187.3	13092.5	16221.5	16533.4
32.5°	12594.1	12441.6	12295.8	11783.9	11380.5	11248.3	11834.8	13716.2	17313.1	17811.5
35°	14241.7	14119.7	13963.7	13173.8	12553.5	12248.3	12709.4	14587.5	18591.2	19381.1
37.5°	15828.3	15723.2	15797.8	14733.3	13933.2	13489.1	13855.2	15757.1	20167.6	21333.7
40°	17469.1	17387.7	17397.9	16380.8	15448.6	14950.2	15245.2	17225.0	21974.5	23655.9
42.5°	19252.2	19191.2	18987.8	18086.1	17038.5	16574.1	16845.3	18920.0	23913.6	26300.2
45°	21249.0	21211.7	21021.9	19987.9	18787.8	18265.7	18631.9	20791.3	25862.9	28788.5
47.5°	22974.5	23005.1	22981.3	22110.1	20865.9	20099.8	20537.1	22744.0	27676.6	31127.7
50°	23805.1	23964.4	24198.4	23927.2	23154.2	22374.5	22459.3	24628.9	29405.5	33321.1
52.5°	23371.2	23672.9	24310.2	24744.2	25042.5	24879.8	24652.6	26500.2	31032.8	35300.9
55°	21754.1	22177.9	23235.6	24283.1	25805.3	26988.4	27286.7	28574.9	32619.3	37043.4
57.5°	18808.1	19496.3	20445.5	22564.3	25127.2	28008.8	30358.1	31453.1	34300.8	38904.5
60°	13756.9	14679.0	15858.8	19011.5	22754.2	27463.0	32971.9	35873.8	36690.8	41314.9
62.5°	8804.0	9373.6	10458.4	13428.1	17730.1	24666.2	33771.9	41399.6	40741.9	45267.7
65°	6027.6	6393.7	7387.0	9054.9	11461.8	18360.7	31629.4	45542.3	47176.3	51532.5
67.5°	4380.0	4658.0	5505.5	6966.6	7468.3	10865.2	24544.1	45352.4	53431.0	57987.2
70°	3193.5	3390.1	4102.0	5505.5	5746.2	6044.5	14868.9	38551.9	53295.4	59702.6
72.5°	2366.3	2501.9	2979.9	4271.5	4651.2	4081.7	7359.9	28019.0	45796.5	54000.5
75°	1712.0	1813.7	2166.3	3268.0	3722.3	3108.7	3671.5	16374.1	31944.7	37985.8
77.5°	1308.6	1386.5	1617.1	2393.4	2979.9	2332.4	2278.1	7532.7	15146.9	15221.4
80°	1050.9	1101.8	1227.2	1684.9	2284.9	1745.9	1484.9	3040.9	4786.8	4051.1
82.5°	772.9	857.7	1037.4	1183.1	1634.0	1203.5	905.2	1535.7	1820.5	1566.2
85°	440.7	498.3	627.2	847.5	1044.1	735.6	518.7	681.4	847.5	695.0
87.5°	155.9	203.4	220.4	332.2	454.3	305.1	200.0	196.6	278.0	206.8
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°
9366.8	0°	9366.8	9366.8	9366.8	9366.8	9366.8	9366.8	9366.8	9366.8	9366.8	9366.8
9468.5	2.5°	9434.6	9417.6	9349.8	9258.3	9163.4	9071.8	9041.3	8976.9	8932.8	8909.1
9688.8	5°	9624.4	9570.2	9410.9	9207.4	8993.9	8763.3	8600.6	8451.5	8343.0	8241.3
9990.6	7.5°	9895.6	9800.7	9526.1	9170.2	8790.5	8407.4	8122.6	7905.7	7759.9	7665.0
10343.1	10°	10210.9	10065.1	9644.8	9112.5	8526.0	7976.8	7641.2	7454.8	7363.2	7312.4
10746.5	12.5°	10573.6	10366.9	9766.8	8980.3	8122.6	7495.5	7264.9	7210.7	7214.1	7217.5
11255.1	15°	11021.1	10733.0	9865.1	8692.2	7597.2	7125.9	7085.3	7173.4	7264.9	7309.0
11831.4	17.5°	11526.3	11119.4	9882.1	8217.5	7081.9	6888.6	7017.5	7207.3	7346.3	7407.3
12475.5	20°	12068.7	11512.7	9760.0	7546.3	6658.1	6695.4	6925.9	7170.0	7322.6	7400.5
13211.1	22.5°	12689.1	11933.1	9468.5	6841.2	6312.3	6485.2	6756.4	6993.7	7153.1	7231.0
14075.6	25°	13397.6	12404.3	9010.8	6247.9	6014.0	6247.9	6519.1	6715.7	6844.6	6915.8
15041.8	27.5°	14184.1	12895.8	8400.6	5776.7	5753.0	6003.8	6227.6	6380.1	6447.9	6502.2
16069.0	30°	14974.0	13343.3	7661.6	5420.7	5525.8	5763.1	5922.5	5990.3	6010.6	6020.8
17214.8	32.5°	15828.3	13729.8	6885.2	5125.8	5308.9	5529.2	5624.1	5654.6	5559.7	5495.3
18604.7	35°	16862.2	14143.4	6125.9	4891.9	5095.3	5285.1	5315.6	5288.5	5176.6	5044.4
20347.2	37.5°	18140.3	14658.7	5519.0	4725.8	4895.3	5020.7	4983.4	4976.6	4986.8	4830.9
22442.3	40°	19706.5	15329.9	5074.9	4596.9	4732.5	4759.7	4654.6	4712.2	4763.1	4525.8
24740.8	42.5°	21445.6	16140.2	4793.6	4508.8	4596.9	4532.5	4369.8	4434.2	4427.4	4115.6
27049.4	45°	23218.6	17021.6	4695.3	4444.4	4471.5	4342.7	4163.0	4180.0	4037.6	3756.2
29263.1	47.5°	24981.5	17967.4	4756.3	4390.1	4315.6	4169.8	4030.8	3956.2	3746.0	3535.8
31385.3	50°	26710.4	18960.7	4980.0	4281.7	4102.0	4017.2	3915.5	3783.3	3559.6	3379.9
33392.2	52.5°	28313.9	19960.8	5230.9	4102.0	3834.2	3885.0	3820.6	3668.1	3447.7	3264.6
35290.7	55°	29832.7	20960.8	5329.2	3854.5	3583.3	3769.8	3732.5	3451.1	3186.7	3037.5
37277.3	57.5°	31487.0	22164.3	5220.7	3539.2	3379.9	3637.6	3495.2	3183.3	3030.7	2918.9
39863.9	60°	33778.7	24052.6	4986.8	3149.4	3186.7	3440.9	3196.8	3068.0	2901.9	2776.5
43742.1	62.5°	37585.8	27574.9	4610.5	2762.9	2959.5	3149.4	3054.5	2925.6	2756.1	2634.1
50373.1	65°	43213.3	32470.1	3902.0	2461.2	2705.3	2864.6	2901.9	2773.1	2596.8	2468.0
56183.7	67.5°	47959.4	35541.6	2952.8	2210.3	2444.2	2634.1	2739.2	2613.7	2427.3	2301.9
57543.1	70°	47698.4	33310.9	2254.4	1962.9	2213.7	2407.0	2542.6	2444.2	2244.2	2125.6
52268.2	72.5°	42365.8	27866.4	1823.9	1712.0	1979.8	2169.6	2332.4	2257.8	2054.4	1939.1
38290.9	75°	31124.3	19781.1	1457.7	1457.7	1688.3	1922.2	2101.8	2054.4	1867.9	1786.6
16075.7	77.5°	13119.6	8298.9	1142.5	1210.3	1403.5	1651.0	1874.7	1891.7	1728.9	1830.6
4251.2	80°	3488.4	2288.3	871.2	952.6	1101.8	1362.8	1630.6	1623.8	1447.6	1352.6
1579.8	82.5°	1328.9	901.8	620.4	671.2	796.7	1044.1	1291.6	1332.3	1156.0	1000.1
620.4	85°	511.9	386.5	383.1	403.4	464.4	691.6	976.3	1010.2	871.2	739.0
172.9	87.5°	132.2	115.3	142.4	135.6	213.6	369.5	559.4	579.7	532.2	308.5
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°
9366.8
8936.2
8282.0
7685.3
7326.0
7224.3
7305.6
7420.9
7420.9
7251.4
6936.1
6522.5
6044.5
5515.7
5051.2
4841.0
4532.5
4112.2
3766.4
3535.8
3366.3
3268.0
3023.9
2908.7
2769.7
2634.1
2474.8
2305.3
2135.7
1939.1
1762.8
1661.1
1257.7
1000.1
762.8
440.7
0.0

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