

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: P956232

Luminaire Tested: **GALN-SB8D-940-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956232
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB8D-940-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 59510 lumens
Efficiency: N/A
Efficacy: 101.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

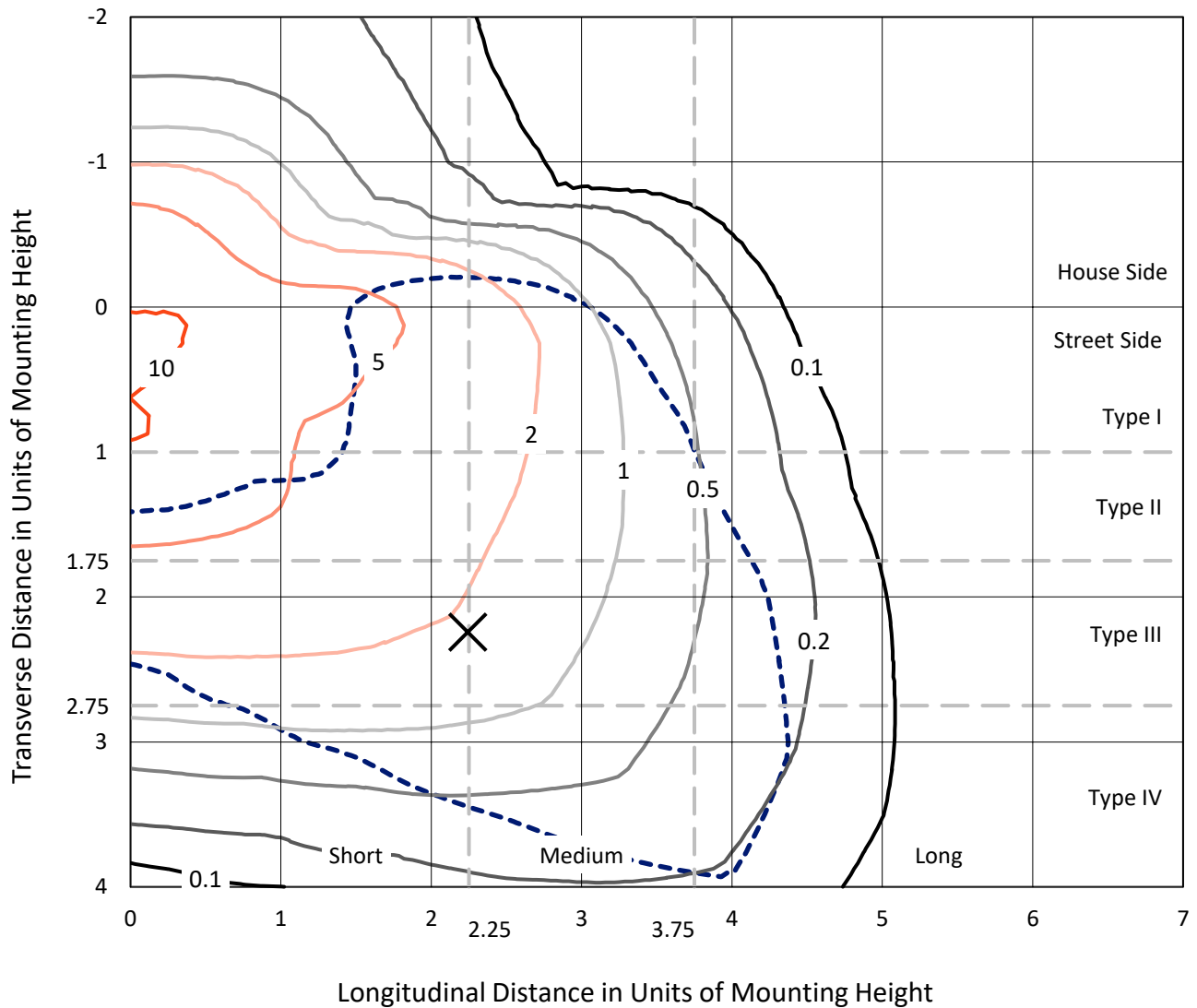
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

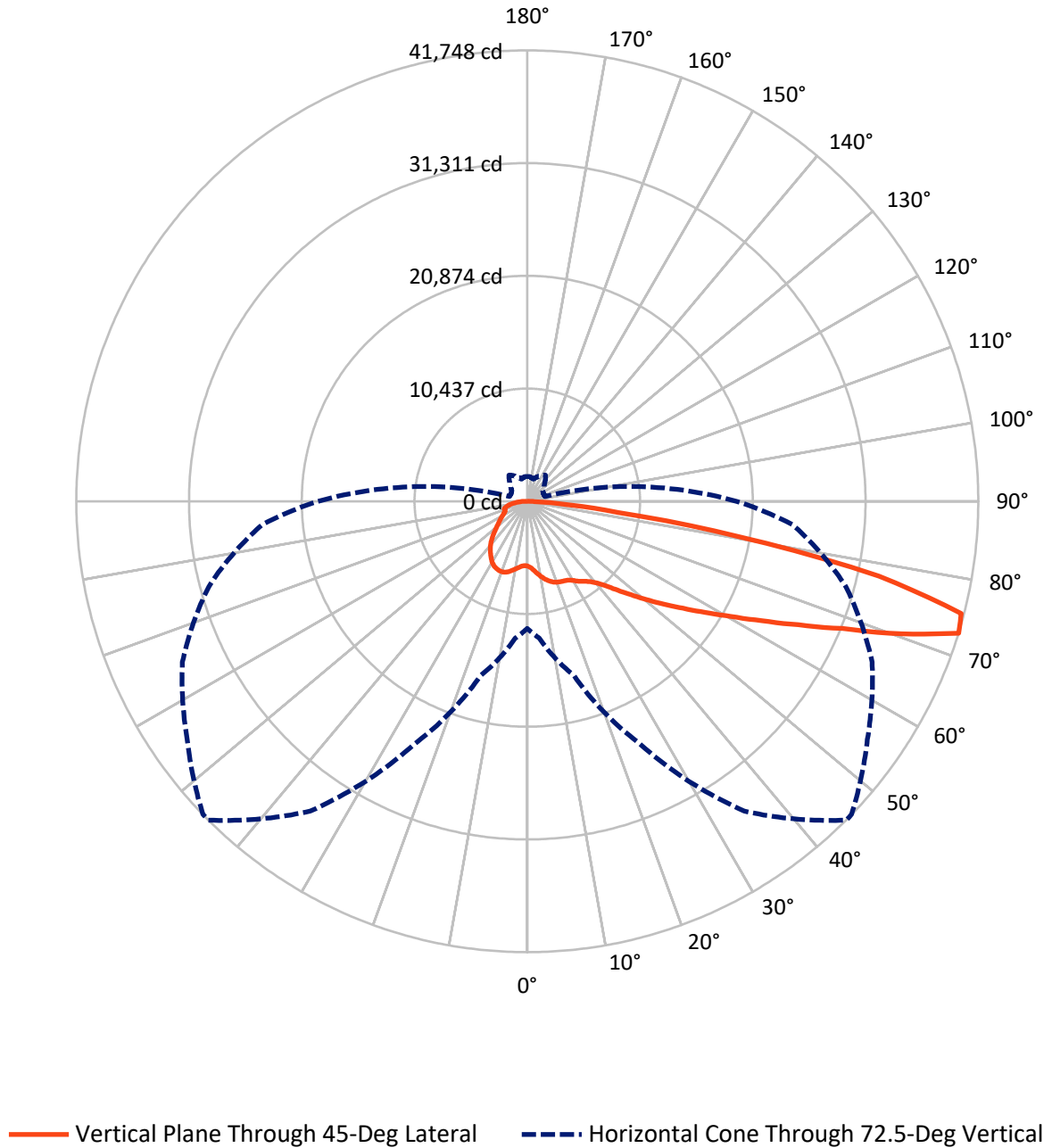
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13453.2	0.0	13453.2
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	46056.8	0.0	46056.8
	% Fixture	77.4	0.0	77.4
Total	Lumens	59510.0	0.0	59510.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	611.0	1.0
10°-20°	2037.2	3.4
20°-30°	3543.9	6.0
30°-40°	5080.4	8.5
40°-50°	7153.5	12.0
50°-60°	10957.0	18.4
60°-70°	15872.9	26.7
70°-80°	12675.4	21.3
80°-90°	1578.7	2.7
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°	59510.0	100.0
0°-180°	59510.0	100.0

Coefficient of Utilization



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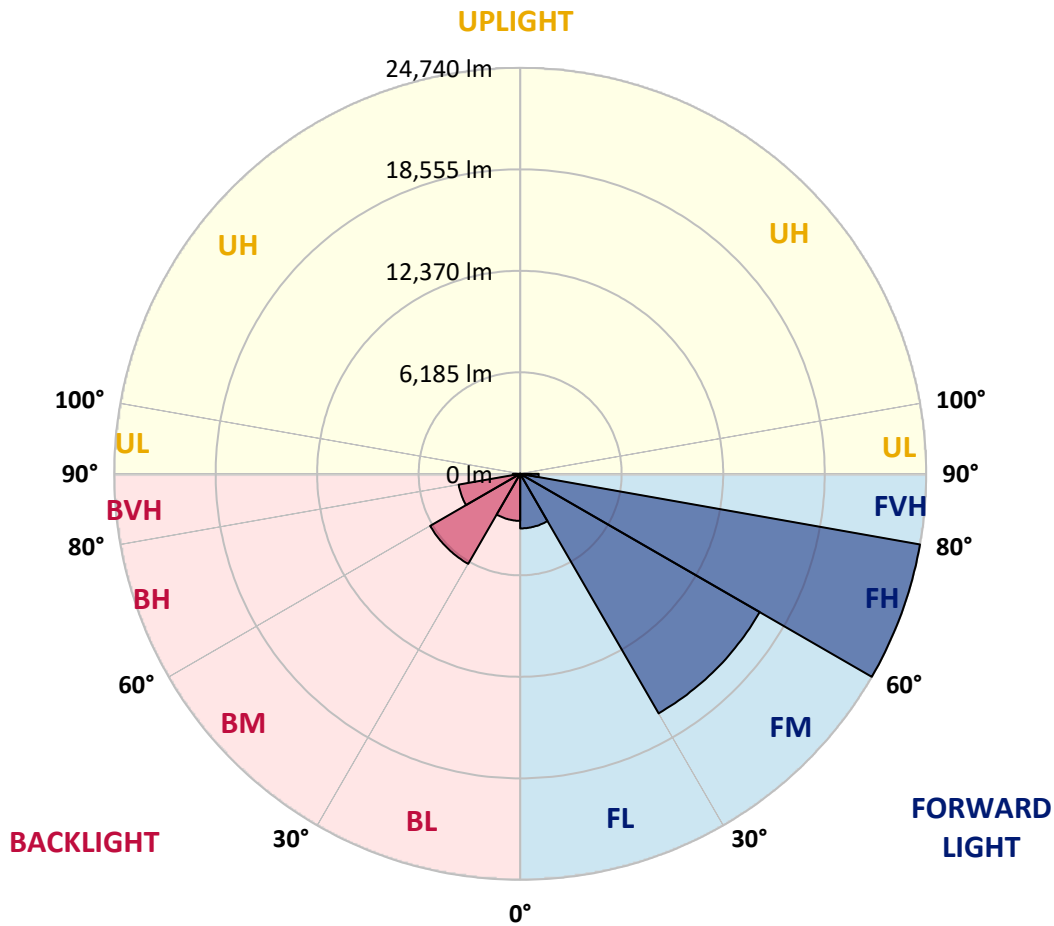
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3327.9	5.6			
FM (30°-60°)	16856.3	28.3			
FH (60°-80°)	24740.1	41.6			G5
FVH (80°-90°)	1132.6	1.9			G5
BL (0°-30°)	2864.3	4.8	B4/5000		
BM (30°-60°)	6334.5	10.6	B4/8500		
BH (60°-80°)	3808.2	6.4	B4/5000		G4/5000
BVH (80°-90°)	446.1	0.7			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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	6003.4	6003.4	6003.4	6003.4	6003.4	6003.4	6003.4	6003.4	6003.4	6003.4
2.5°	6238.5	6279.3	6241.7	6207.2	6191.5	6150.7	6147.6	6122.5	6106.9	6063.0
5°	6674.3	6727.6	6664.9	6595.9	6533.2	6432.9	6420.3	6348.2	6266.7	6172.7
7.5°	7166.5	7213.5	7141.4	7037.9	6928.2	6762.1	6758.9	6627.3	6498.7	6338.8
10°	7595.9	7658.6	7561.5	7420.4	7282.5	7094.4	7072.4	6921.9	6758.9	6552.0
12.5°	7975.3	8019.2	7925.1	7752.7	7592.8	7404.7	7376.5	7210.4	7028.5	6793.4
15°	8276.2	8332.7	8207.3	8022.3	7853.0	7668.1	7643.0	7492.5	7310.7	7063.0
17.5°	8473.7	8520.8	8392.2	8185.3	8022.3	7868.7	7849.9	7724.5	7564.6	7313.8
20°	8549.0	8599.1	8464.3	8254.3	8103.8	7984.7	7975.3	7884.4	7774.6	7545.8
22.5°	8624.2	8671.2	8495.7	8276.2	8144.6	8069.3	8066.2	8006.6	7962.7	7774.6
25°	8928.3	8940.8	8705.7	8389.1	8201.0	8135.2	8132.0	8128.9	8147.7	8000.4
27.5°	9191.6	9188.5	8987.9	8690.0	8398.5	8260.6	8257.4	8288.8	8348.3	8226.1
30°	9577.2	9542.7	9304.5	8994.1	8727.7	8514.5	8495.7	8467.5	8514.5	8417.3
32.5°	10395.4	10285.7	9900.1	9348.4	9000.4	8837.4	8812.3	8636.7	8655.6	8596.0
35°	11567.9	11423.7	10909.6	10019.3	9339.0	9107.0	9094.4	8871.9	8834.2	8781.0
37.5°	12963.0	12784.3	12185.5	10991.1	9922.1	9420.5	9401.7	9201.0	9047.4	8991.0
40°	14364.3	14138.6	13643.2	12176.1	10781.0	9944.0	9884.5	9580.4	9404.8	9310.8
42.5°	15724.8	15536.7	15113.5	13505.3	11840.6	10708.9	10577.3	10056.9	9925.2	9837.4
45°	16928.6	16759.4	16449.0	14925.4	13082.1	11749.7	11621.2	10771.6	10730.9	10730.9
47.5°	17906.7	17869.1	17540.0	16373.8	14546.1	12934.7	12712.2	11765.4	11875.1	12044.4
50°	18991.4	18888.0	18536.9	17800.2	16267.2	14292.2	14110.3	12984.9	13395.6	13859.5
52.5°	19988.3	20044.8	19652.9	19286.1	18210.8	15806.3	15486.6	14423.8	15311.0	16079.1
55°	21013.5	21016.6	20906.9	20856.7	20248.5	17480.4	17129.3	16154.3	17565.0	18518.1
57.5°	21975.9	21982.2	22145.2	22587.2	22612.3	19411.5	19013.4	18279.8	20069.9	21041.7
60°	22834.9	22878.8	23323.9	24358.4	24690.7	21624.8	21248.6	20790.9	22659.3	23637.4
62.5°	23123.3	23283.2	24273.8	25744.1	26744.1	24339.6	23969.7	23697.0	25380.4	26289.6
65°	22634.2	23001.0	24916.5	26888.3	28857.1	27565.5	27198.7	26900.9	28208.1	29064.0
67.5°	21433.6	21906.9	24878.8	28089.0	31421.5	31446.5	31104.8	30405.7	31239.6	31568.8
70°	18270.4	18978.9	22687.5	28537.3	34365.2	36754.0	36424.8	34625.4	34264.8	32672.3
72.5°	11771.7	12724.7	16706.1	24847.5	35020.4	41747.9	41729.1	38434.3	35221.0	30528.0
75°	4294.9	4878.0	7762.1	15596.3	29396.3	41494.0	41616.3	37782.2	32151.9	23581.0
77.5°	1564.3	1711.7	2533.0	5994.0	18079.2	33293.0	33546.9	30205.1	22885.0	11834.4
80°	821.4	902.9	1297.9	2326.1	7746.4	19772.0	20170.2	17950.6	10756.0	3564.4
82.5°	454.6	492.2	727.3	1263.4	3489.2	8454.9	8693.2	7091.2	3783.9	1511.0
85°	244.5	260.2	341.7	689.7	1705.4	2931.2	2997.0	2119.2	1507.9	887.2
87.5°	72.1	87.8	112.9	219.4	667.7	658.3	674.0	420.1	595.6	448.3
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°
6003.4	0°	6003.4	6003.4	6003.4	6003.4	6003.4	6003.4	6003.4	6003.4	6003.4	6003.4
6050.4	2.5°	6031.6	6022.2	5987.7	5972.1	5953.2	5950.1	5965.8	5968.9	5972.1	5975.2
6119.4	5°	6088.0	6056.7	6025.3	6006.5	6012.8	6015.9	6047.3	6069.2	6084.9	6097.4
6247.9	7.5°	6197.8	6172.7	6119.4	6116.3	6125.7	6153.9	6194.6	6244.8	6273.0	6294.9
6414.1	10°	6360.8	6313.8	6251.1	6260.5	6279.3	6320.0	6404.7	6445.4	6492.5	6533.2
6617.8	12.5°	6526.9	6486.2	6414.1	6420.3	6451.7	6523.8	6605.3	6655.5	6686.8	6718.2
6837.3	15°	6743.2	6671.1	6592.8	6592.8	6649.2	6727.6	6765.2	6805.9	6824.8	6859.2
7072.4	17.5°	6965.8	6871.8	6768.3	6762.1	6831.0	6868.6	6890.6	6896.9	6903.1	6940.7
7301.3	20°	7188.4	7085.0	6937.6	6925.1	6940.7	6934.5	6931.3	6925.1	6934.5	6981.5
7536.4	22.5°	7407.9	7288.7	7085.0	7028.5	6984.6	6925.1	6921.9	6918.8	6925.1	6972.1
7790.3	25°	7664.9	7520.7	7248.0	7078.7	6931.3	6849.8	6859.2	6862.4	6868.6	6906.3
8053.6	27.5°	7943.9	7784.0	7398.4	7063.0	6796.5	6740.1	6724.4	6733.8	6755.8	6815.3
8317.0	30°	8222.9	8034.8	7536.4	7000.3	6627.3	6548.9	6498.7	6520.7	6589.6	6649.2
8545.8	32.5°	8476.9	8288.8	7646.1	6862.4	6410.9	6288.7	6222.8	6251.1	6320.0	6342.0
8799.8	35°	8774.7	8561.5	7693.1	6642.9	6175.8	5987.7	5899.9	5859.2	5893.7	5871.7
9097.6	37.5°	9107.0	8884.4	7686.9	6354.5	5899.9	5683.6	5561.4	5407.8	5335.7	5260.4
9536.5	40°	9599.2	9279.4	7611.6	6006.5	5558.2	5360.7	5141.3	4881.1	4718.1	4570.7
10245.0	42.5°	10270.0	9828.0	7473.7	5624.1	5172.6	4987.7	4689.9	4385.8	4128.7	3884.2
11320.3	45°	11270.1	10545.9	7301.3	5216.5	4755.7	4573.9	4251.0	3909.3	3617.7	3304.2
12847.0	47.5°	12712.2	11511.5	7138.2	4752.6	4316.8	4150.7	3859.1	3542.5	3197.6	2893.5
15054.0	50°	14693.4	12897.1	6987.8	4301.1	3884.2	3758.8	3526.8	3203.9	2855.9	2611.4
17640.3	52.5°	17213.9	14781.2	6925.1	3865.4	3479.8	3432.8	3247.8	2946.8	2617.7	2410.8
20656.1	55°	20107.5	17035.2	6925.1	3448.4	3125.5	3141.2	3012.7	2733.7	2448.4	2263.4
23765.9	57.5°	23060.6	19317.5	6799.7	3062.8	2824.6	2890.4	2808.9	2564.4	2307.3	2116.1
27035.7	60°	25781.7	21229.8	6291.8	2711.7	2558.1	2661.6	2608.3	2398.2	2084.7	1924.9
29769.3	62.5°	27872.7	22308.2	5313.7	2432.7	2338.7	2457.8	2429.6	2178.8	2044.0	1978.1
32014.0	65°	28919.8	22132.6	4062.9	2185.0	2153.7	2338.7	2279.1	2269.7	2163.1	2087.9
32744.4	67.5°	28277.1	20621.6	2946.8	2003.2	2047.1	2228.9	2457.8	2495.4	2297.9	2150.6
30687.9	70°	25458.8	17887.9	2194.5	1830.8	1912.3	2232.1	2802.6	2611.4	2254.0	2081.6
24612.4	72.5°	19367.6	13339.1	1702.3	1649.0	1736.8	2247.7	2956.2	2558.1	2128.6	2301.0
15333.0	75°	11075.7	7323.2	1366.8	1426.4	1517.3	2100.4	2877.9	2420.2	2031.4	2112.9
6075.5	77.5°	4222.8	2815.2	1128.6	1207.0	1219.5	1833.9	2752.5	2410.8	1934.3	1887.2
1821.4	80°	1464.0	1100.4	934.2	959.3	943.6	1630.2	2639.6	2097.3	1583.1	1417.0
752.4	82.5°	598.8	548.6	739.8	708.5	670.9	1266.5	2131.8	1714.8	1294.7	1144.3
363.7	85°	260.2	348.0	489.0	429.5	388.7	877.8	1708.5	1451.5	1094.1	943.6
119.1	87.5°	53.3	131.7	206.9	194.4	200.6	586.2	1213.2	1031.4	774.3	580.0
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°
6003.4
5987.7
6103.7
6301.2
6523.8
6730.7
6871.8
6953.3
7000.3
7003.4
6956.4
6874.9
6715.0
6420.3
5940.7
5307.4
4580.1
3862.2
3266.6
2859.1
2595.7
2395.1
2244.6
2084.7
1899.8
1956.2
2062.8
2125.5
2053.4
2282.2
2112.9
1721.1
1370.0
1131.7
940.5
454.6
0.0

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