

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: P955638

Luminaire Tested: **GALN-SB8C-740-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955638
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8C-740-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 65257 lumens
Efficiency: N/A
Efficacy: 163.2 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

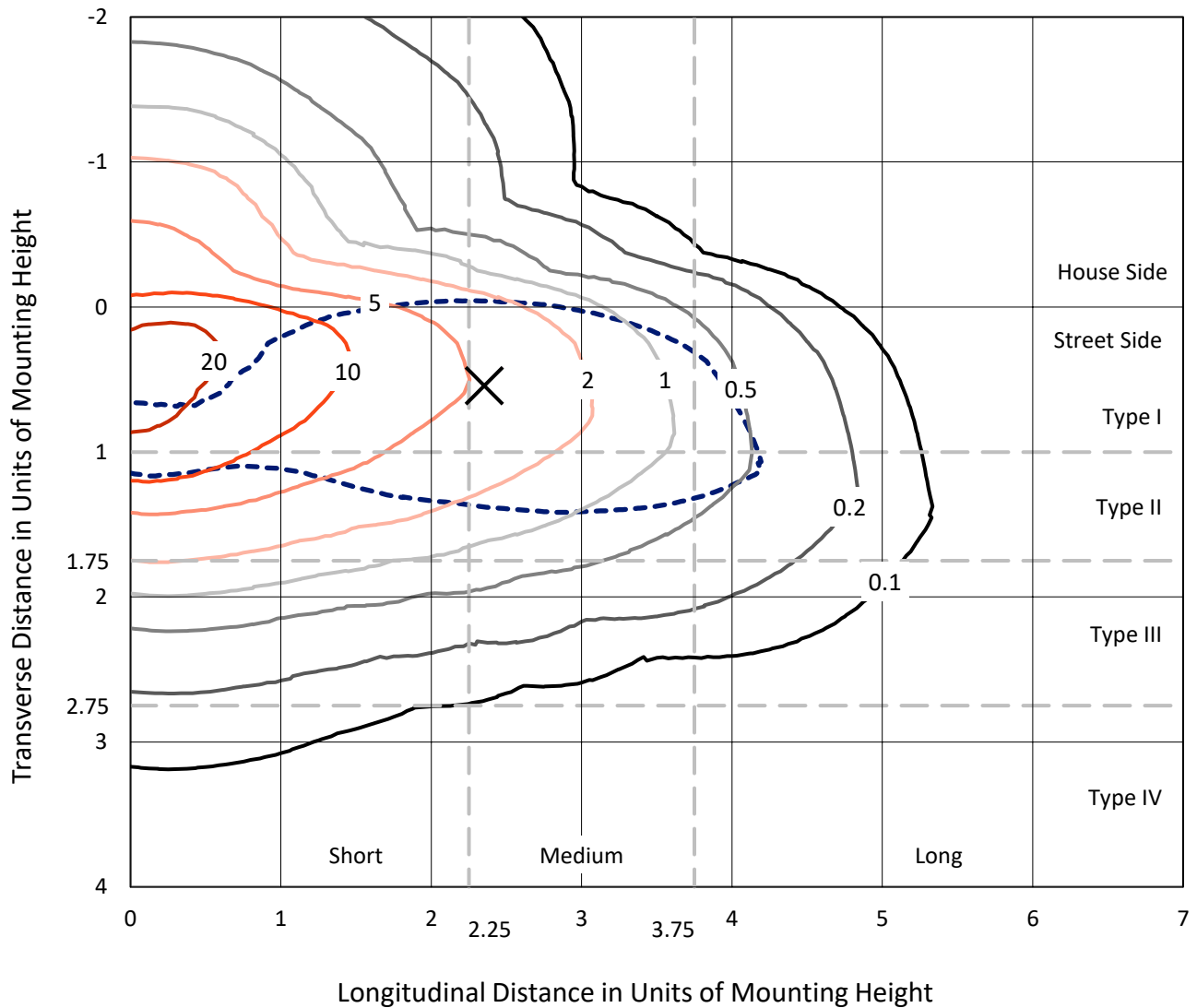
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

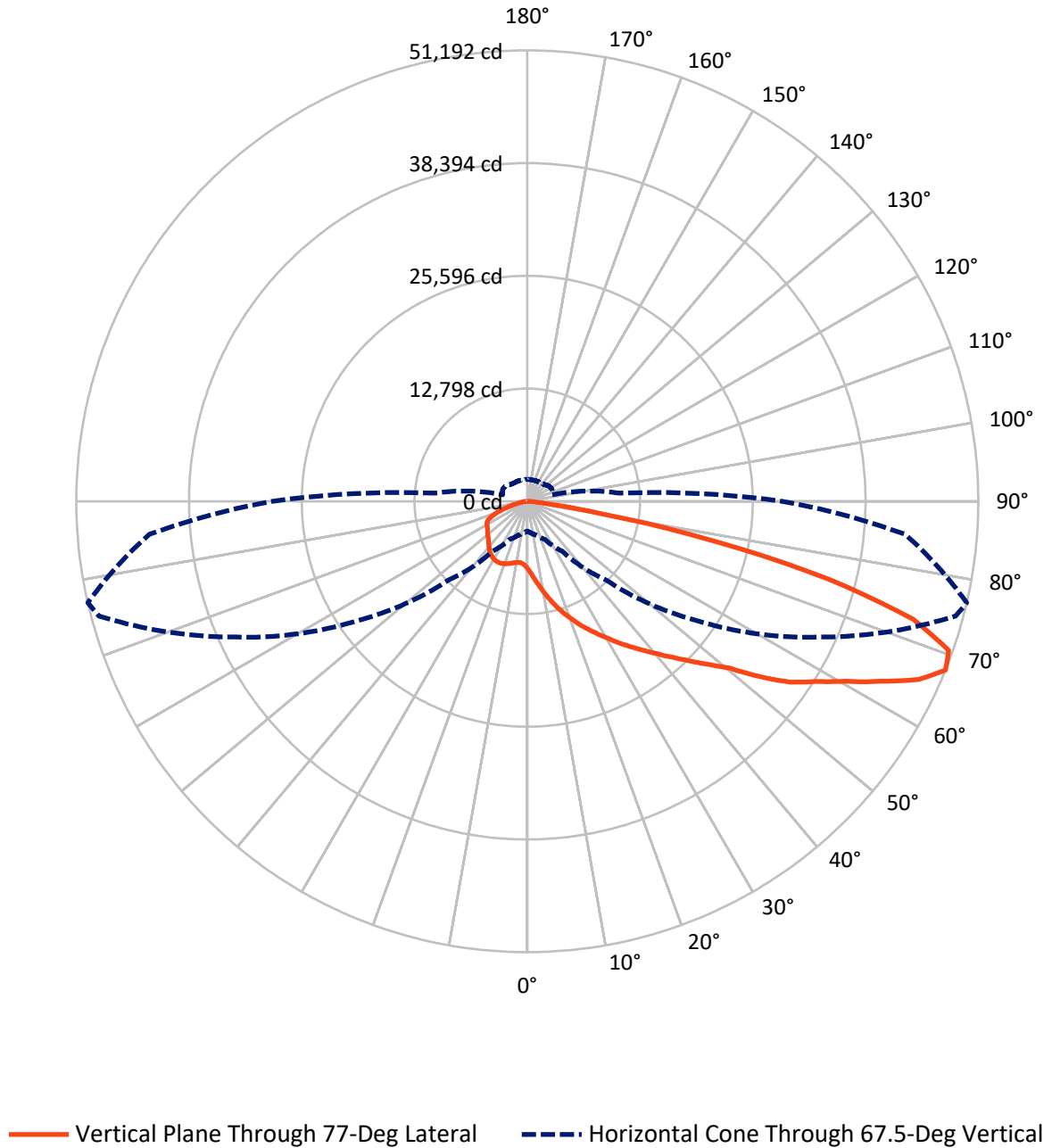
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12344.0	0.0	12344.0
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	52913.0	0.0	52913.0
	% Fixture	81.1	0.0	81.1
Total	Lumens	65257.0	0.0	65257.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	820.7	1.3
10°-20°	2948.4	4.5
20°-30°	5566.9	8.5
30°-40°	8968.2	13.7
40°-50°	12266.8	18.8
50°-60°	13837.1	21.2
60°-70°	12915.2	19.8
70°-80°	7079.7	10.8
80°-90°	854.0	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°	65257.0	100.0
0°-180°	65257.0	100.0

Coefficient of Utilization



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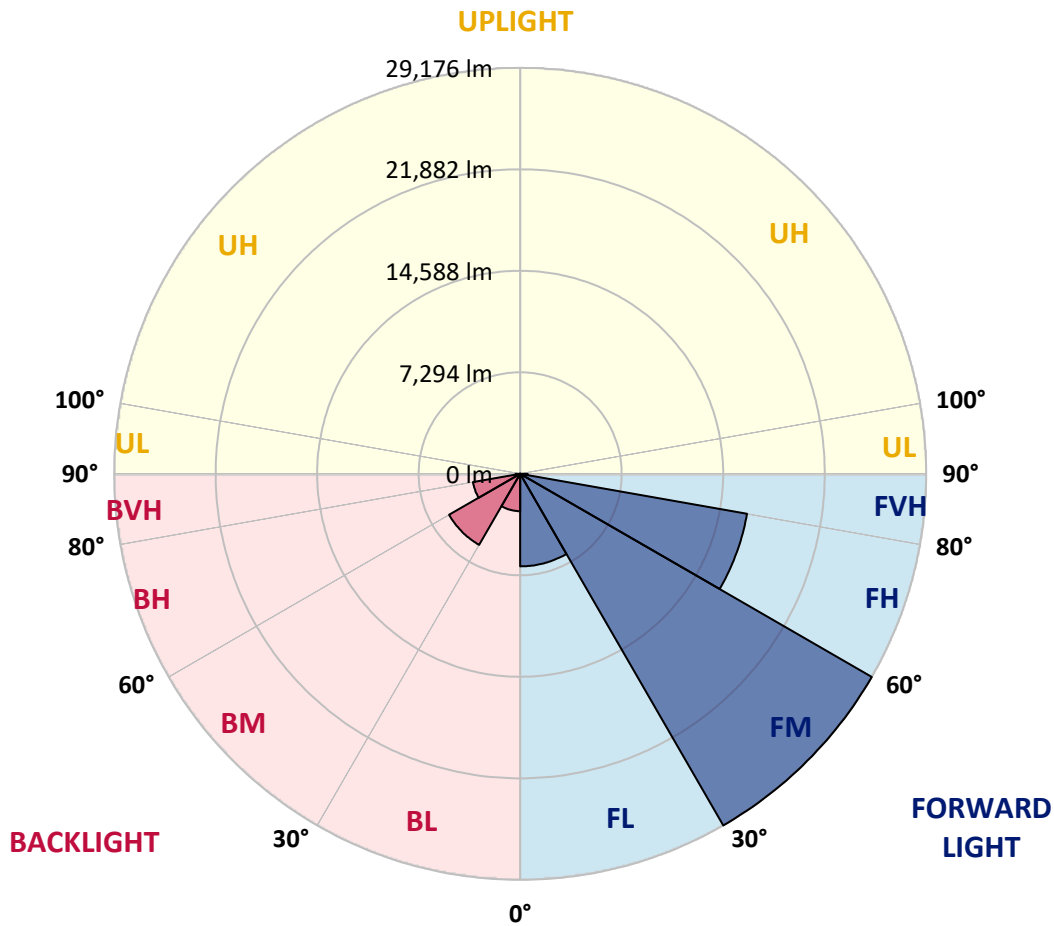
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6652.1	10.2			
FM (30°-60°)	29175.7	44.7			
FH (60°-80°)	16551.1	25.4			G5
FVH (80°-90°)	534.1	0.8			G4/750
BL (0°-30°)	2683.9	4.1	B4/5000		
BM (30°-60°)	5896.4	9.0	B4/8500		
BH (60°-80°)	3443.8	5.3	B4/5000		G4/5000
BVH (80°-90°)	319.9	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°	77°
0°	7656.7	7656.7	7656.7	7656.7	7656.7	7656.7	7656.7	7656.7	7656.7	7656.7
2.5°	9586.8	9654.2	9570.0	9570.0	9287.0	9138.8	8855.9	8640.3	8252.9	8185.5
5°	11331.7	11416.0	11298.1	11247.5	10914.0	10607.5	10132.5	9664.3	8973.8	8903.0
7.5°	12682.5	12790.3	12685.9	12632.0	12335.6	11992.0	11436.2	10782.7	9809.2	9671.1
10°	13784.0	13800.9	13767.2	13787.4	13555.0	13272.0	12702.7	11941.4	10725.4	10536.8
12.5°	14407.2	14484.7	14552.1	14673.3	14632.9	14457.7	13945.7	13036.2	11695.5	11453.0
15°	14700.3	14835.0	14986.6	15266.2	15491.9	15535.7	15144.9	14211.8	12682.5	12389.5
17.5°	14804.7	14932.7	15171.9	15576.1	16061.2	16387.9	16212.7	15353.8	13659.4	13322.5
20°	15333.6	15370.6	15515.5	15899.5	16425.0	16967.3	17098.7	16451.9	14626.2	14245.5
22.5°	16465.4	16391.3	16431.7	16606.9	16984.1	17509.6	17809.4	17422.0	15619.9	15182.0
25°	18334.9	18119.3	17903.7	17701.6	17893.6	18190.1	18530.3	18392.2	16660.8	16105.0
27.5°	20696.3	20433.5	19958.6	19295.0	19062.5	19166.9	19318.5	19291.6	17624.2	17061.6
30°	23020.5	22714.0	22148.1	21188.1	20575.0	20298.8	20184.2	20106.8	18671.8	18072.2
32.5°	24876.6	24634.1	24078.3	23003.7	22114.4	21642.8	21262.2	20986.0	19766.5	19166.9
35°	26500.2	26274.6	25637.9	24465.6	23498.9	22997.0	22498.4	21908.9	20905.1	20298.8
37.5°	27982.4	27756.7	26884.3	25664.8	24691.3	24344.4	23899.7	22899.3	22047.0	21474.4
40°	28918.8	28868.3	28053.1	26672.0	25661.5	25489.7	25341.5	24048.0	23313.6	22781.4
42.5°	29158.0	29269.2	28622.4	27487.2	26523.8	26385.7	26732.7	25348.2	24735.1	24226.5
45°	28582.0	28902.0	28477.6	27706.2	27136.9	27062.8	27965.6	26769.7	26308.2	25843.4
47.5°	27123.4	27665.8	27490.6	27382.8	27302.0	27622.0	29050.2	28278.8	28090.2	27686.0
50°	24179.3	25206.7	25513.3	26193.7	26975.2	28056.5	30037.2	29926.0	30171.9	29764.3
52.5°	19089.5	20504.3	22282.8	23987.3	25971.4	27911.7	31121.9	32290.7	33328.3	33105.9
55°	15758.0	16394.6	17762.3	20888.3	24024.4	27302.0	31610.3	34200.7	36461.0	36262.2
57.5°	13197.9	13767.2	14609.3	17219.9	21080.3	25917.5	31913.5	35366.2	38606.7	38586.5
60°	10452.6	11055.5	11917.9	13767.2	17641.0	23525.8	31846.1	36693.4	41345.4	41513.8
62.5°	7353.5	8017.1	8973.8	10698.5	14127.6	20426.8	30471.7	37653.5	44569.0	45027.2
65°	4833.8	5271.8	5992.6	7481.5	10526.7	16441.8	27847.7	37778.1	48018.4	48793.2
67.5°	3388.7	3557.2	3981.6	4790.1	6939.2	12608.4	23667.3	36487.9	50319.1	51191.6
70°	2644.3	2728.5	2944.1	3267.5	4358.9	8478.6	18136.2	33132.9	49827.3	50736.8
72.5°	2283.9	2364.7	2445.6	2486.0	2923.9	5234.7	12285.0	27702.8	45195.6	45812.0
75°	2071.6	2091.9	2159.2	2145.8	2230.0	3395.5	7090.8	20184.2	35659.3	35447.1
77.5°	1741.5	1768.5	1879.6	1862.8	1980.7	2320.9	3681.8	13026.1	23118.2	21676.5
80°	1475.4	1488.9	1610.2	1589.9	1721.3	1680.9	1879.6	6639.4	9805.8	8306.8
82.5°	512.0	633.3	1229.5	1266.6	1313.7	1017.3	1084.7	2708.3	2994.6	2294.0
85°	249.3	266.1	626.5	889.3	885.9	512.0	528.9	966.8	943.2	741.1
87.5°	40.4	50.5	74.1	347.0	276.2	134.7	181.9	188.6	195.4	168.4
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°
7656.7	0°	7656.7	7656.7	7656.7	7656.7	7656.7	7656.7	7656.7	7656.7	7656.7	7656.7
7929.5	2.5°	7740.9	7572.5	7218.8	6892.0	6636.0	6390.1	6252.0	6134.1	6066.7	6053.3
8300.1	5°	7949.7	7602.8	6959.4	6417.1	6063.4	5800.6	5662.5	5574.9	5531.1	5504.2
8798.6	7.5°	8249.5	7740.9	6824.6	6208.2	5837.7	5649.0	5578.3	5564.8	5561.4	5564.8
9401.6	10°	8663.9	7966.6	6811.2	6157.7	5847.8	5743.3	5740.0	5743.3	5756.8	5760.2
10058.4	12.5°	9111.9	8199.0	6865.1	6201.5	5975.8	5918.5	5908.4	5905.0	5915.1	5921.9
10722.0	15°	9600.3	8505.5	6956.0	6295.8	6117.3	6056.6	6046.5	6026.3	6022.9	6019.6
11419.3	17.5°	10102.2	8808.7	7057.1	6396.8	6208.2	6124.0	6086.9	6039.8	6002.7	5992.6
12140.2	20°	10610.9	9108.5	7127.8	6447.4	6214.9	6097.0	6022.9	5942.1	5878.1	5841.0
12867.8	22.5°	11153.2	9421.8	7171.6	6433.9	6154.3	5992.6	5857.9	5763.6	5665.9	5601.9
13602.1	25°	11682.1	9694.6	7168.2	6363.2	6036.4	5830.9	5659.1	5537.9	5403.1	5335.8
14360.1	27.5°	12190.7	9940.5	7084.0	6238.5	5868.0	5638.9	5433.4	5288.6	5157.2	5093.2
15124.7	30°	12716.2	10146.0	6952.7	6056.6	5669.2	5416.6	5190.9	5066.3	4948.4	4887.7
15933.2	32.5°	13238.3	10334.7	6767.4	5830.9	5440.2	5197.6	4975.3	4860.8	4790.1	4790.1
16802.2	35°	13790.8	10466.0	6521.5	5568.2	5197.6	4965.2	4790.1	4722.7	4715.9	4675.5
17721.8	37.5°	14373.5	10550.2	6221.7	5298.7	4958.5	4739.5	4685.6	4604.8	4537.4	4449.8
18732.4	40°	14986.6	10634.5	5861.2	5019.1	4705.8	4584.6	4561.0	4453.2	4261.2	4045.6
19877.7	42.5°	15731.0	10691.7	5487.3	4739.5	4439.7	4399.3	4433.0	4247.7	3941.2	3779.5
21258.8	45°	16593.4	10786.0	5143.7	4463.3	4166.9	4166.9	4308.4	4065.8	3813.2	3712.1
22835.3	47.5°	17711.7	11005.0	4823.7	4160.1	3914.2	3981.6	4032.1	3846.9	3705.4	3580.7
24755.3	50°	19328.6	11530.5	4493.6	3853.6	3722.2	3857.0	3786.2	3678.4	3513.4	3412.3
27807.2	52.5°	21336.3	11840.4	4200.6	3577.4	3557.2	3691.9	3590.9	3489.8	3365.2	3230.4
30121.4	55°	22703.9	11897.7	3954.7	3375.3	3446.0	3432.5	3395.5	3304.5	3237.2	3058.6
32405.3	57.5°	24233.2	12012.2	3752.5	3254.0	3375.3	3227.1	3213.6	3136.1	3048.5	2927.3
35191.1	60°	26062.3	12190.7	3577.4	3206.8	3314.6	3092.3	3024.9	2994.6	2907.0	2846.4
38542.7	62.5°	28056.5	12352.4	3398.8	3213.6	3243.9	2960.9	2859.9	2849.8	2795.9	2775.7
41689.0	65°	29417.4	11911.1	3176.5	3206.8	3132.7	2826.2	2698.2	2694.8	2651.0	2644.3
43053.2	67.5°	28942.4	10513.2	2876.7	3112.5	3018.2	2691.5	2550.0	2536.5	2479.2	2482.6
41628.3	70°	26564.2	8519.0	2462.4	2880.1	2876.7	2570.2	2395.0	2351.2	2273.8	2287.2
36194.9	72.5°	22104.3	6312.6	1906.6	2492.7	2651.0	2459.0	2216.5	2145.8	2048.1	2061.5
26719.2	75°	15963.5	4291.5	1387.8	1896.5	2307.4	2327.7	2041.3	1920.1	1802.2	1822.4
14872.1	77.5°	8168.7	2432.1	1020.7	1307.0	1812.3	2115.4	1883.0	1721.3	1694.4	1883.0
4288.1	80°	2664.5	1219.4	707.4	916.2	1189.1	1731.4	1650.6	1465.3	1458.6	1502.4
899.4	82.5°	795.0	515.4	454.8	603.0	656.9	1327.2	1424.9	1108.2	953.3	1003.8
299.8	85°	272.9	249.3	259.4	299.8	313.3	778.1	997.1	734.3	693.9	764.7
67.4	87.5°	64.0	87.6	74.1	67.4	67.4	188.6	387.4	306.5	424.4	283.0
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°
7656.7
6053.3
5500.8
5574.9
5763.6
5925.2
6016.2
6002.7
5854.5
5605.2
5335.8
5089.9
4884.4
4793.4
4665.4
4436.4
4015.3
3782.9
3729.0
3577.4
3402.2
3203.5
3062.0
2886.8
2863.3
2775.7
2640.9
2482.6
2300.7
2058.2
1829.1
1856.1
1290.1
1037.5
754.6
272.9
0.0

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