

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: P943854

Luminaire Tested: **GALN-SB8C-740-U-T2-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P943854  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)  
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-T2-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

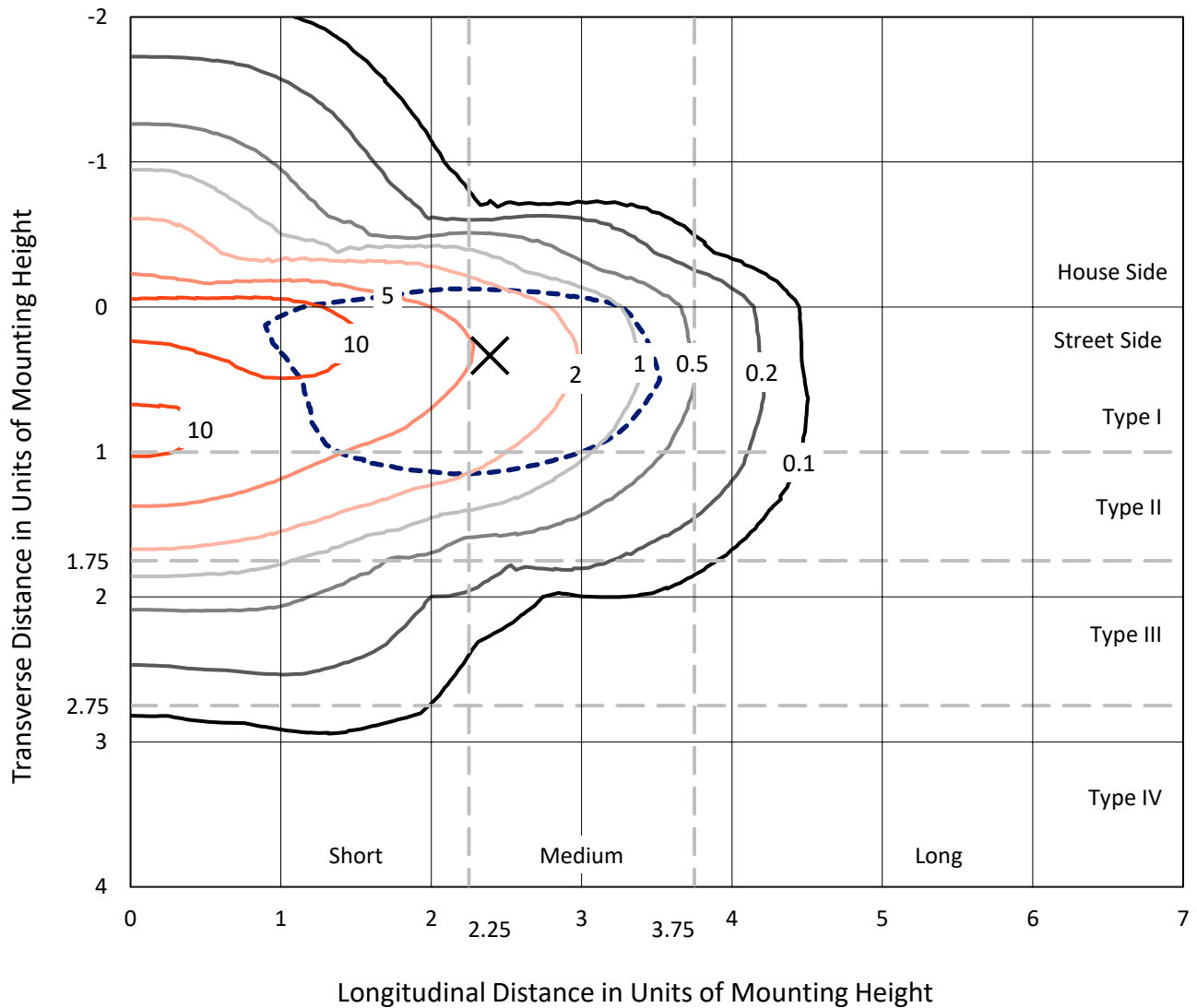
Lumens per Lamp: N/A  
Luminaire Lumens: 46785 lumens  
Efficiency: N/A  
Efficacy: 117.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 399.8  
Input Voltage (V): NR  
Input Current (Ain): 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

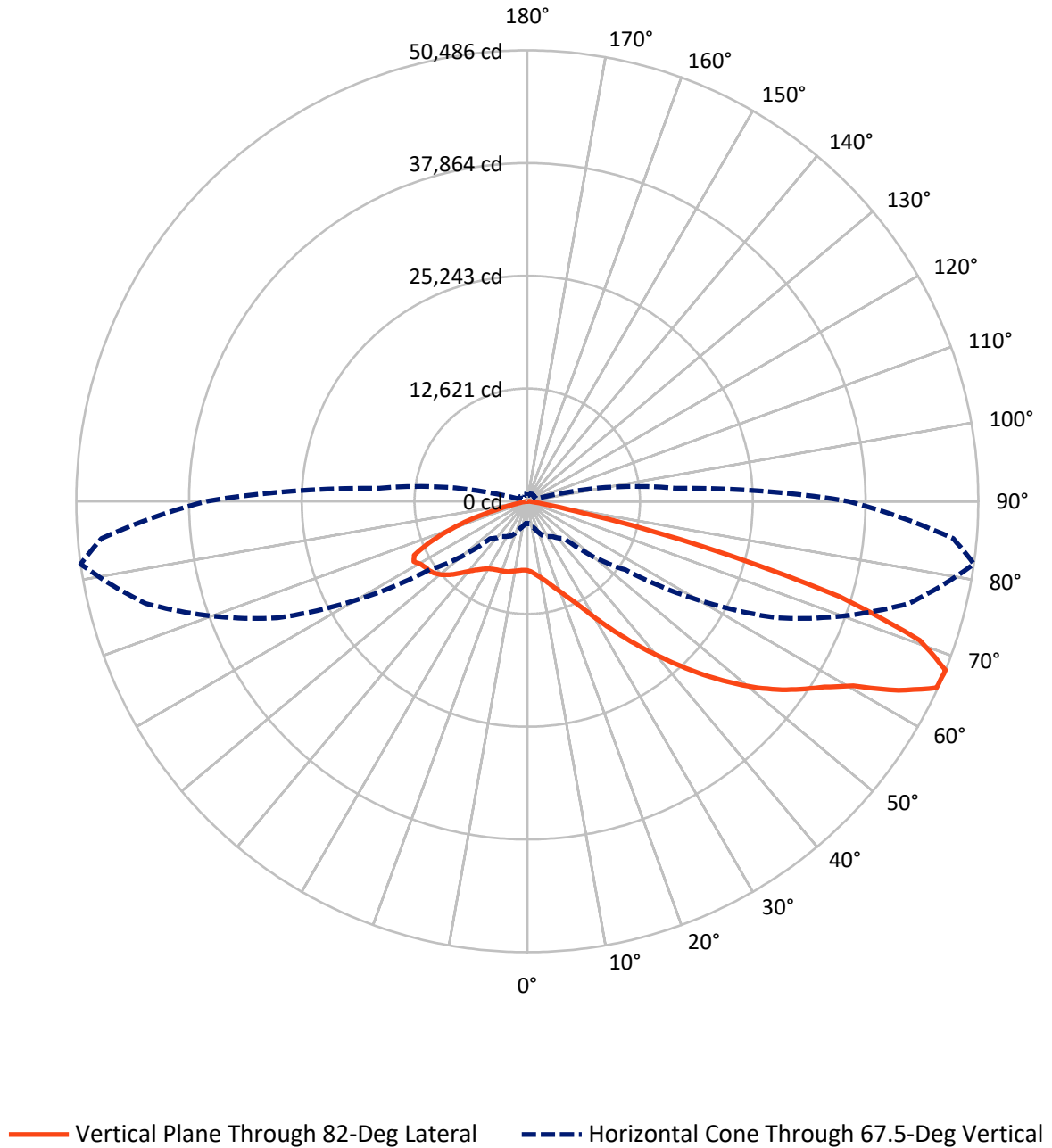
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.4 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8474.7	0.0	8474.7
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	38310.3	0.0	38310.3
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	46785.0	0.0	46785.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	690.5	1.5
10°-20°	1794.4	3.8
20°-30°	2874.1	6.1
30°-40°	5082.2	10.9
40°-50°	8904.6	19.0
50°-60°	11876.2	25.4
60°-70°	11056.1	23.6
70°-80°	4243.3	9.1
80°-90°	263.6	0.6
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°	46785.0	100.0
0°-180°	46785.0	100.0

**Coefficient of Utilization**



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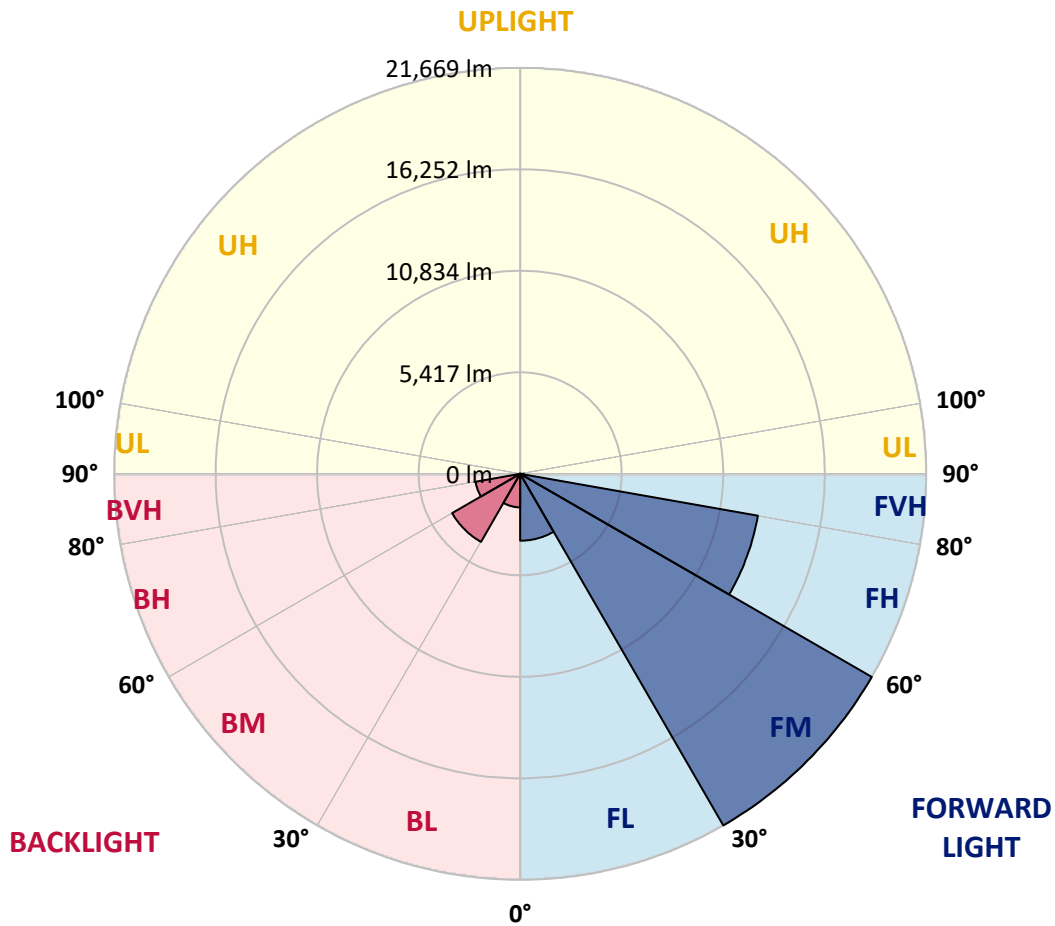
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3569.2	7.6			
FM (30°-60°)	21668.9	46.3			
FH (60°-80°)	12880.6	27.5			G5
FVH (80°-90°)	191.6	0.4			G2/225
BL (0°-30°)	1789.8	3.8	B3/2500		
BM (30°-60°)	4194.1	9.0	B3/5000		
BH (60°-80°)	2418.8	5.2	B3/2500		G3/2500
BVH (80°-90°)	71.9	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	7750.7	7750.7	7750.7	7750.7	7750.7	7750.7	7750.7	7750.7	7750.7	7750.7
2.5°	8192.0	8239.1	8212.2	8198.7	8175.1	8141.4	8114.5	8030.3	7942.7	7885.4
5°	8357.0	8404.2	8400.8	8414.3	8431.1	8441.2	8434.5	8340.2	8215.5	8117.8
7.5°	8215.5	8269.4	8313.2	8380.6	8498.5	8623.1	8683.7	8663.5	8535.5	8400.8
10°	7814.7	7872.0	7976.4	8134.7	8384.0	8653.4	8879.1	8983.5	8902.7	8754.5
12.5°	7080.4	7137.6	7343.1	7686.7	8104.4	8572.6	9003.7	9283.3	9303.5	9155.3
15°	6255.1	6312.4	6531.3	6962.5	7599.1	8350.3	9071.1	9599.9	9778.5	9650.5
17.5°	5743.1	5793.7	5958.7	6305.6	6969.2	7905.6	9047.5	9936.8	10344.4	10243.3
20°	5588.2	5632.0	5709.4	5952.0	6504.4	7444.2	8892.6	10253.4	10954.0	10896.8
22.5°	5753.2	5793.7	5817.2	5925.0	6272.0	7141.0	8697.2	10576.8	11661.4	11668.1
25°	6133.9	6174.3	6147.3	6214.7	6366.3	7046.7	8623.1	10957.4	12550.7	12624.8
27.5°	6760.4	6763.7	6699.8	6696.4	6720.0	7188.2	8700.6	11365.0	13672.3	13810.4
30°	8016.8	7966.3	7720.4	7454.3	7333.0	7612.6	8916.2	11846.7	14996.1	15242.0
32.5°	9953.6	9879.5	9428.2	8791.5	8151.5	8296.4	9303.5	12395.7	16437.8	16882.4
35°	12055.5	12035.3	11563.7	10617.2	9498.9	9269.8	9933.4	13116.6	18010.8	18718.2
37.5°	14009.2	13999.1	13729.6	12614.7	11253.8	10627.3	10943.9	14059.7	19695.0	20719.0
40°	15794.4	15824.7	15555.3	14558.2	13187.3	12368.8	12318.2	15225.2	21567.9	22898.4
42.5°	17337.2	17370.8	17098.0	16360.3	15097.2	14295.5	14005.8	16653.4	23396.9	25239.4
45°	18384.7	18593.6	18553.2	17963.7	17057.6	16225.6	16033.6	18445.4	25482.0	27721.9
47.5°	18681.2	18873.2	19176.3	19257.1	18704.7	17886.2	18115.3	20604.5	27590.6	30207.8
50°	17950.2	18128.7	18758.6	19597.4	19981.4	19728.7	20139.7	22918.6	29749.7	32687.0
52.5°	16508.5	16690.4	17485.4	18812.5	20378.8	21173.8	22170.8	25199.0	31841.5	35034.7
55°	14423.5	14615.5	15636.1	17138.4	19620.9	21770.0	23865.1	27476.0	33758.1	37146.7
57.5°	11587.3	11728.8	12789.8	14891.7	17714.4	21177.1	25114.8	29961.9	35563.6	39221.7
60°	7552.0	7676.6	8909.4	11253.8	14554.9	19196.5	25364.1	32734.1	37961.9	41919.8
62.5°	5022.3	5106.5	5837.4	7558.7	10250.0	15393.6	23905.5	34947.2	41478.5	46615.3
65°	3445.9	3530.1	4261.0	5460.2	6622.3	10182.7	19711.9	34654.1	44665.0	50344.1
67.5°	2458.9	2529.7	3149.5	4281.2	4793.2	5914.9	13362.4	30908.4	44206.9	50485.6
70°	1761.7	1802.1	2314.1	3334.7	3809.7	3553.7	7430.7	23639.4	38706.3	46618.7
72.5°	1232.8	1246.3	1606.7	2539.8	3068.6	2593.7	3536.8	15760.7	29274.8	36590.9
75°	835.4	852.2	1081.3	1862.7	2462.3	1980.6	1872.8	8451.3	17185.6	20254.2
77.5°	512.0	518.7	697.3	1273.3	1842.5	1509.0	1205.9	3580.6	6649.2	6528.0
80°	289.7	289.7	444.6	791.6	1256.4	973.5	845.5	1522.5	2105.3	1849.3
82.5°	161.7	165.1	323.4	491.8	832.0	576.0	464.8	704.0	909.5	805.0
85°	67.4	74.1	198.7	232.4	397.5	286.3	188.6	296.4	336.8	299.8
87.5°	6.7	10.1	60.6	43.8	47.2	57.3	26.9	57.3	47.2	47.2
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°
7750.7	0°	7750.7	7750.7	7750.7	7750.7	7750.7	7750.7	7750.7	7750.7	7750.7	7750.7
7865.2	2.5°	7801.2	7750.7	7622.7	7474.5	7279.1	7184.8	7056.8	6969.2	6895.1	6901.9
8060.6	5°	7952.8	7824.8	7538.5	7181.4	6736.8	6420.2	6083.3	5850.9	5662.3	5621.9
8330.1	7.5°	8161.6	7959.5	7457.6	6814.3	6063.1	5493.9	4985.2	4658.5	4426.1	4352.0
8656.8	10°	8431.1	8138.1	7353.2	6352.8	5271.5	4547.3	4001.7	3745.7	3587.3	3533.5
9040.8	12.5°	8744.4	8343.5	7215.1	5790.3	4456.4	3759.1	3412.2	3284.2	3233.7	3216.8
9512.4	15°	9138.5	8599.5	7006.3	5123.3	3765.9	3277.5	3129.2	3112.4	3119.1	3112.4
10078.3	17.5°	9606.7	8879.1	6666.1	4436.2	3301.0	3031.6	2977.7	2991.1	3008.0	3004.6
10711.5	20°	10118.7	9155.3	6231.5	3826.5	2984.4	2856.4	2826.1	2839.6	2853.0	2846.3
11442.5	22.5°	10701.4	9451.7	5749.9	3351.6	2772.2	2694.7	2661.0	2664.4	2664.4	2650.9
12368.8	25°	11398.7	9778.5	5244.6	3014.7	2610.5	2549.9	2509.5	2496.0	2475.8	2435.4
13493.8	27.5°	12230.7	10125.4	4759.6	2778.9	2482.5	2425.2	2378.1	2344.4	2293.9	2226.5
14844.5	30°	13167.1	10546.5	4348.6	2630.7	2381.5	2324.2	2270.3	2219.8	2145.7	2061.5
16397.4	32.5°	14268.5	10997.8	4048.8	2533.0	2290.5	2229.9	2165.9	2105.3	2024.4	1940.2
18142.2	35°	15582.2	11543.5	3873.7	2465.7	2219.8	2138.9	2068.2	2000.8	1940.2	1866.1
20038.6	37.5°	17007.1	12122.9	3819.8	2432.0	2172.6	2048.0	1967.1	1920.0	1913.3	1869.5
22090.0	40°	18566.6	12810.0	3860.2	2411.8	2122.1	1960.4	1872.8	1862.7	1879.6	1802.1
24282.8	42.5°	20217.1	13625.2	3927.6	2388.2	2051.4	1872.8	1788.6	1788.6	1775.1	1667.4
26600.3	45°	22002.4	14565.0	3994.9	2330.9	1967.1	1785.3	1721.3	1697.7	1640.4	1536.0
28931.2	47.5°	23801.1	15521.6	4045.4	2226.5	1866.1	1711.1	1653.9	1600.0	1515.8	1421.5
31218.3	50°	25508.9	16380.5	3991.6	2071.6	1751.6	1640.4	1579.8	1505.7	1414.7	1350.7
33384.2	52.5°	27034.8	17125.0	3762.5	1889.7	1630.3	1566.3	1512.4	1434.9	1360.8	1293.5
35337.9	55°	28361.9	17727.9	3358.3	1717.9	1522.5	1502.3	1448.4	1350.7	1249.7	1192.4
37274.7	57.5°	29635.2	18186.0	2853.0	1576.4	1424.8	1431.6	1350.7	1263.2	1168.8	1108.2
39885.2	60°	31329.5	18799.0	2341.0	1445.0	1320.4	1340.6	1253.0	1189.0	1071.2	993.7
44361.8	62.5°	34037.7	19752.3	1859.4	1283.4	1199.2	1205.9	1168.8	1091.4	949.9	858.9
47679.7	65°	36186.7	19402.0	1465.3	1108.2	1061.0	1071.2	1071.2	986.9	835.4	730.9
47858.2	67.5°	35944.2	16613.0	1168.8	936.4	929.7	936.4	960.0	889.3	741.0	656.8
44213.6	70°	33111.4	13214.2	936.4	778.1	808.4	791.6	858.9	811.8	666.9	582.7
34276.9	72.5°	27017.9	9519.1	714.1	643.4	619.8	646.7	774.7	730.9	555.8	461.5
18155.7	75°	15787.7	5079.5	532.2	508.6	448.0	538.9	687.2	623.2	424.4	340.2
5564.6	77.5°	5140.2	1771.8	390.7	373.9	333.5	434.5	586.1	525.5	346.9	269.5
1630.3	80°	1377.7	535.6	266.1	245.9	215.6	323.4	464.8	417.7	249.3	175.2
700.6	82.5°	552.4	225.7	154.9	138.1	117.9	222.3	367.2	336.8	185.3	111.2
218.9	85°	178.5	74.1	57.3	43.8	53.9	138.1	218.9	229.1	131.4	57.3
33.7	87.5°	23.6	10.1	10.1	13.5	10.1	23.6	67.4	64.0	37.1	6.7
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°
7750.7
6834.5
5530.9
4277.9
3493.0
3206.7
3109.0
2997.9
2842.9
2644.2
2428.6
2219.8
2054.7
1943.6
1859.4
1866.1
1805.5
1667.4
1532.6
1418.1
1340.6
1286.7
1185.7
1101.5
983.6
852.2
720.8
643.4
572.6
451.4
330.1
259.4
171.8
111.2
43.8
0.0
0.0

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