

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: P957045

Luminaire Tested: **GALN-SB9C-735-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957045
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-SB9C-735-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 69479 lumens
Efficiency: N/A
Efficacy: 154.5 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

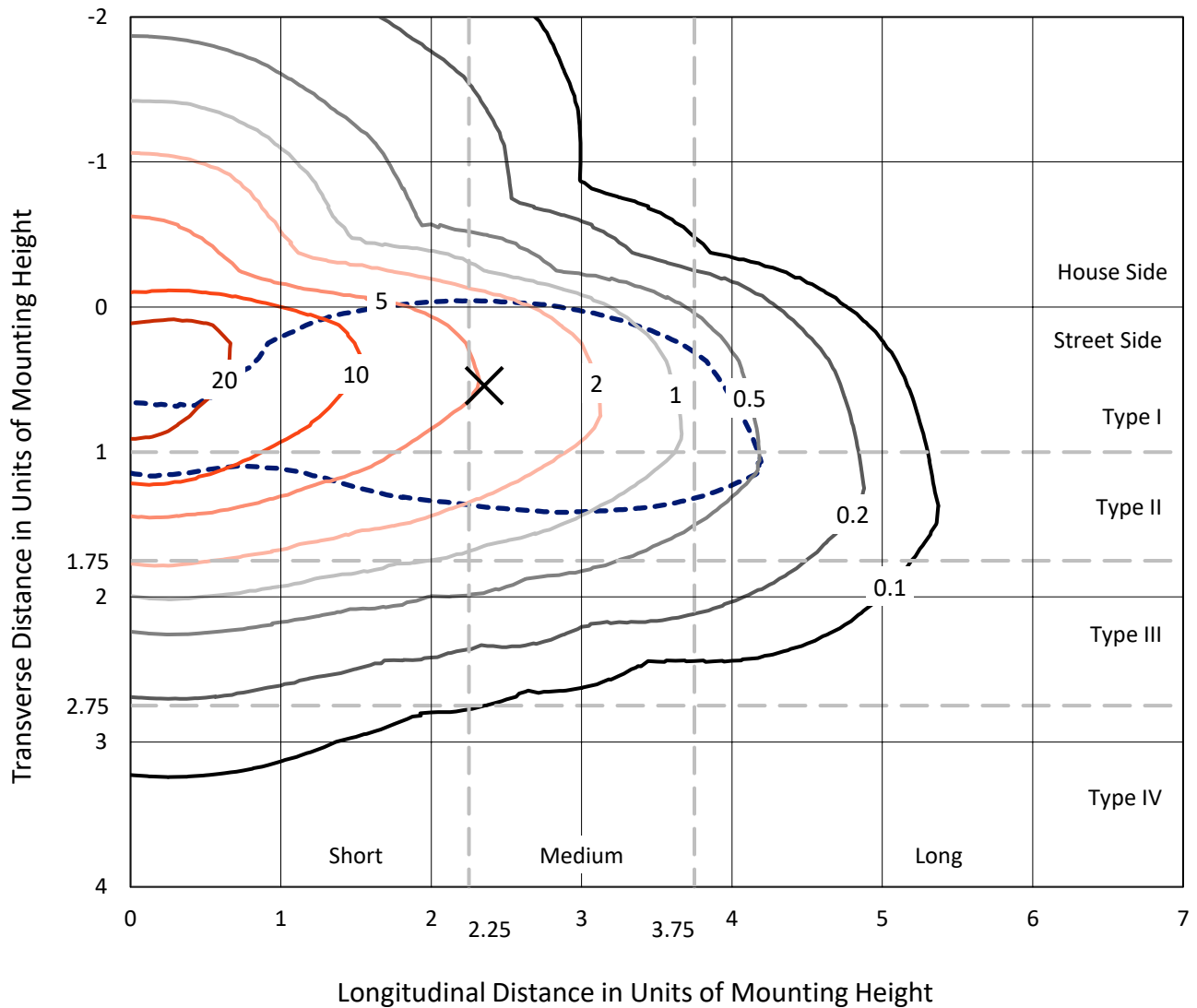
Input Watts (W): 449.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

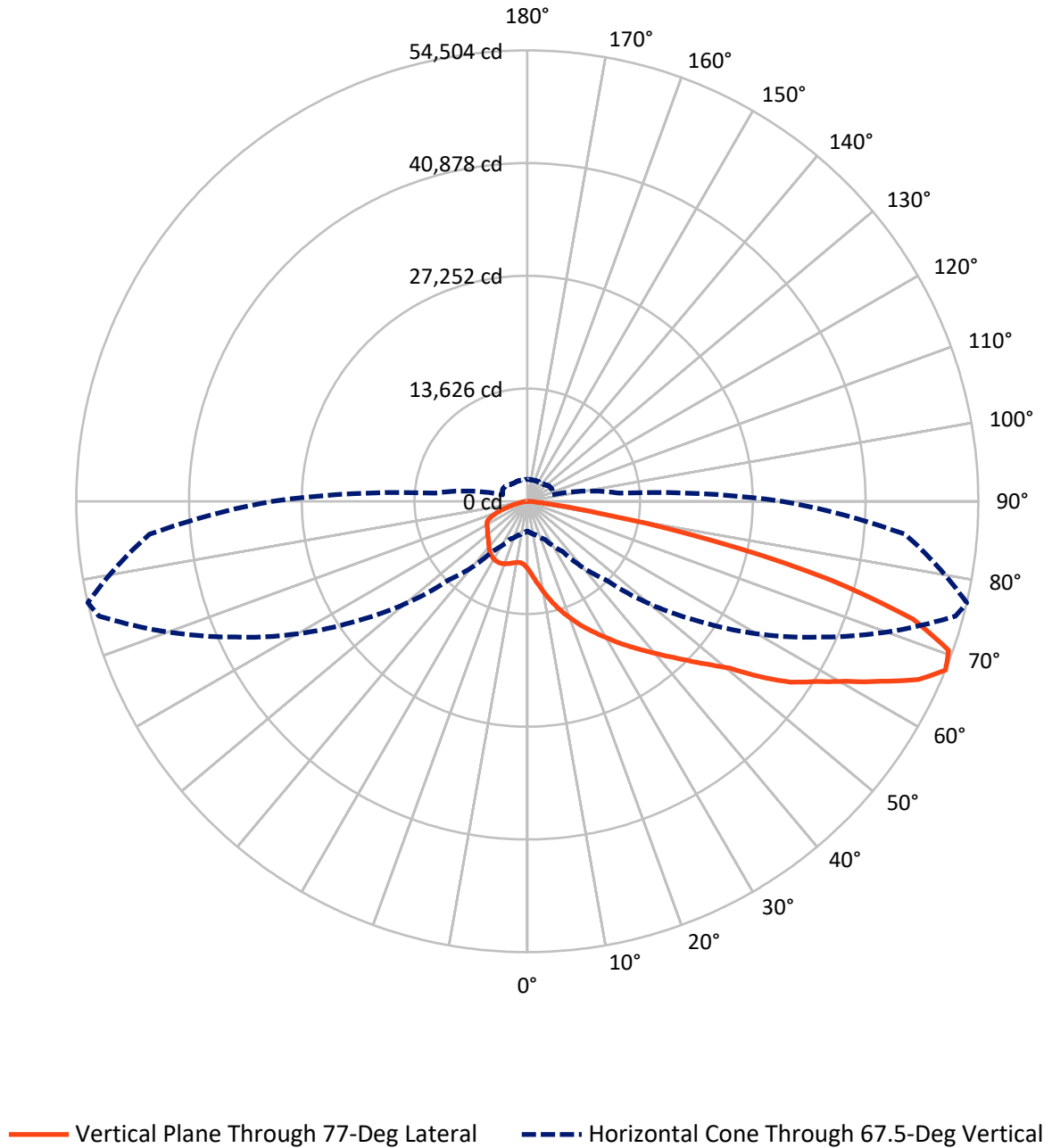
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 25.5 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	13142.6	0.0	13142.6
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	56336.3	0.0	56336.3
	% Fixture	81.1	0.0	81.1
Total	Lumens	69479.0	0.0	69479.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	873.8	1.3
10°-20°	3139.2	4.5
20°-30°	5927.1	8.5
30°-40°	9548.4	13.7
40°-50°	13060.5	18.8
50°-60°	14732.3	21.2
60°-70°	13750.8	19.8
70°-80°	7537.7	10.8
80°-90°	909.2	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°	69479.0	100.0
0°-180°	69479.0	100.0



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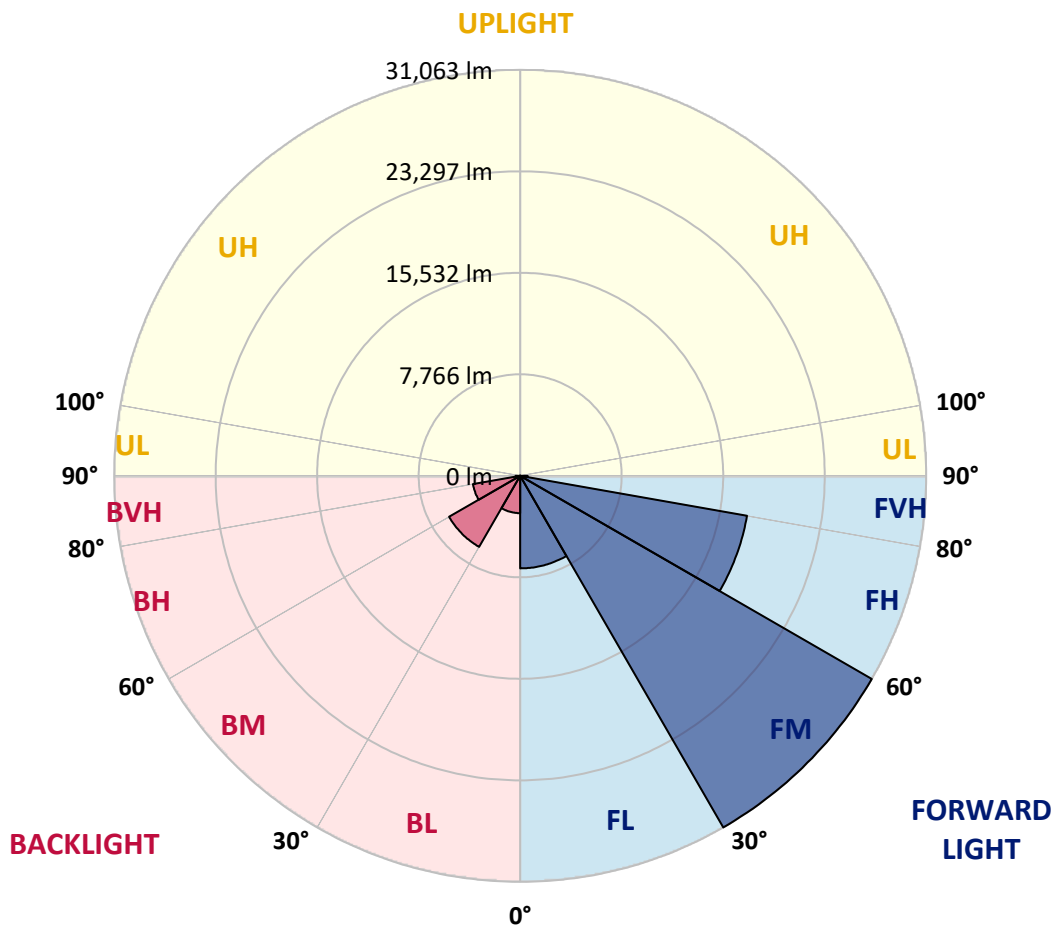
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7082.5	10.2			
FM (30°-60°)	31063.3	44.7			
FH (60°-80°)	17621.9	25.4			G5
FVH (80°-90°)	568.6	0.8			G4/750
BL (0°-30°)	2857.5	4.1	B4/5000		
BM (30°-60°)	6277.9	9.0	B4/8500		
BH (60°-80°)	3666.6	5.3	B4/5000		G4/5000
BVH (80°-90°)	340.6	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°	8152.0	8152.0	8152.0	8152.0	8152.0	8152.0	8152.0	8152.0	8152.0	8152.0
2.5°	10207.1	10278.8	10189.2	10189.2	9887.9	9730.1	9428.8	9199.3	8786.9	8715.1
5°	12064.9	12154.5	12029.0	11975.2	11620.2	11293.8	10788.1	10289.6	9554.4	9479.0
7.5°	13503.1	13617.8	13506.6	13449.3	13133.7	12767.8	12176.1	11480.3	10443.8	10296.8
10°	14675.8	14693.8	14657.9	14679.4	14432.0	14130.7	13524.6	12714.0	11419.3	11218.5
12.5°	15339.3	15421.8	15493.5	15622.7	15579.6	15393.1	14848.0	13879.6	12452.2	12194.0
15°	15651.4	15794.8	15956.2	16253.9	16494.2	16540.8	16124.8	15131.3	13503.1	13191.0
17.5°	15762.5	15898.8	16153.5	16583.8	17100.3	17448.2	17261.7	16347.1	14543.1	14184.5
20°	16325.6	16365.1	16519.3	16928.1	17487.6	18065.0	18204.9	17516.3	15572.5	15167.2
22.5°	17530.7	17451.8	17494.8	17681.3	18083.0	18642.5	18961.7	18549.2	16630.5	16164.2
25°	19521.2	19291.6	19062.1	18846.9	19051.3	19366.9	19729.2	19582.1	17738.7	17146.9
27.5°	22035.3	21755.5	21249.8	20543.3	20295.8	20407.0	20568.4	20539.7	18764.4	18165.5
30°	24509.9	24183.6	23581.0	22558.9	21906.2	21612.1	21490.1	21407.6	19879.8	19241.4
32.5°	26486.1	26227.9	25636.1	24492.0	23545.2	23043.1	22637.8	22343.7	21045.4	20407.0
35°	28214.8	27974.5	27296.6	26048.5	25019.2	24484.8	23954.0	23326.4	22257.6	21612.1
37.5°	29792.8	29552.5	28623.6	27325.3	26288.8	25919.4	25446.0	24380.8	23473.4	22863.7
40°	30789.8	30736.0	29868.1	28397.7	27321.7	27138.8	26981.0	25603.8	24822.0	24255.3
42.5°	31044.5	31162.8	30474.2	29265.6	28239.9	28092.8	28462.2	26988.2	26335.4	25793.9
45°	30431.2	30771.9	30320.0	29498.7	28892.6	28813.7	29774.9	28501.7	28010.3	27515.4
47.5°	28878.3	29455.7	29269.2	29154.4	29068.3	29409.1	30929.7	30108.4	29907.6	29477.2
50°	25743.7	26837.6	27163.9	27888.4	28720.4	29871.7	31980.5	31862.2	32124.0	31690.0
52.5°	20324.5	21830.8	23724.5	25539.2	27651.7	29717.5	33135.4	34379.9	35484.5	35247.8
55°	16777.5	17455.3	18911.5	22239.7	25578.7	29068.3	33655.4	36413.4	38819.9	38608.3
57.5°	14051.8	14657.9	15554.5	18334.0	22444.1	27594.3	33978.2	37654.3	41104.5	41083.0
60°	11128.8	11770.8	12688.9	14657.9	18782.3	25047.9	33906.5	39067.4	44020.3	44199.7
62.5°	7829.3	8535.8	9554.4	11390.6	15041.7	21748.4	32443.2	40089.6	47452.6	47940.3
65°	5146.6	5612.8	6380.3	7965.5	11207.7	17505.6	29649.3	40222.3	51125.1	51950.0
67.5°	3608.0	3787.3	4239.2	5100.0	7388.1	13424.2	25198.5	38848.6	53574.7	54503.6
70°	2815.4	2905.0	3134.6	3478.9	4640.9	9027.1	19309.6	35276.5	53051.1	54019.4
72.5°	2431.6	2517.7	2603.8	2646.8	3113.1	5573.4	13079.9	29495.1	48119.7	48776.0
75°	2205.7	2227.2	2298.9	2284.6	2374.2	3615.2	7549.5	21490.1	37966.4	37740.4
77.5°	1854.2	1882.9	2001.2	1983.3	2108.8	2471.1	3920.0	13868.9	24613.9	23078.9
80°	1570.9	1585.2	1714.3	1692.8	1832.7	1789.6	2001.2	7068.9	10440.2	8844.2
82.5°	545.1	674.3	1309.1	1348.5	1398.7	1083.1	1154.8	2883.5	3188.4	2442.4
85°	265.4	283.3	667.1	946.8	943.2	545.1	563.1	1029.3	1004.2	789.0
87.5°	43.0	53.8	78.9	369.4	294.1	143.5	193.7	200.8	208.0	179.3
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°
8152.0	0°	8152.0	8152.0	8152.0	8152.0	8152.0	8152.0	8152.0	8152.0	8152.0	8152.0
8442.5	2.5°	8241.7	8062.4	7685.8	7337.9	7065.3	6803.5	6656.5	6531.0	6459.2	6444.9
8837.1	5°	8464.1	8094.7	7409.6	6832.2	6455.6	6175.9	6028.9	5935.6	5889.0	5860.3
9367.9	7.5°	8783.3	8241.7	7266.2	6609.9	6215.4	6014.5	5939.2	5924.8	5921.3	5924.8
10009.8	10°	9224.4	8482.0	7251.8	6556.1	6226.1	6114.9	6111.3	6114.9	6129.3	6132.9
10709.2	12.5°	9701.4	8729.5	7309.2	6602.7	6362.4	6301.4	6290.7	6287.1	6297.8	6305.0
11415.7	15°	10221.4	9055.8	7406.1	6703.1	6513.0	6448.5	6437.7	6416.2	6412.6	6409.0
12158.1	17.5°	10755.8	9378.6	7513.7	6810.7	6609.9	6520.2	6480.8	6430.5	6391.1	6380.3
12925.6	20°	11297.4	9697.8	7589.0	6864.5	6617.0	6491.5	6412.6	6326.5	6258.4	6218.9
13700.3	22.5°	11874.8	10031.4	7635.6	6850.2	6552.5	6380.3	6236.9	6136.4	6032.4	5964.3
14482.2	25°	12437.9	10321.9	7632.0	6774.8	6427.0	6208.2	6025.3	5896.2	5752.7	5681.0
15289.1	27.5°	12979.4	10583.7	7542.3	6642.1	6247.6	6003.7	5785.0	5630.8	5490.9	5422.7
16103.2	30°	13538.9	10802.4	7402.5	6448.5	6036.0	5767.0	5526.7	5394.1	5268.5	5204.0
16964.0	32.5°	14094.8	11003.3	7205.2	6208.2	5792.1	5533.9	5297.2	5175.3	5100.0	5100.0
17889.3	35°	14683.0	11143.2	6943.4	5928.4	5533.9	5286.5	5100.0	5028.2	5021.1	4978.0
18868.4	37.5°	15303.5	11232.8	6624.2	5641.5	5279.3	5046.2	4988.8	4902.7	4831.0	4737.7
19944.4	40°	15956.2	11322.5	6240.5	5343.8	5010.3	4881.2	4856.1	4741.3	4536.9	4307.3
21163.8	42.5°	16748.8	11383.5	5842.4	5046.2	4727.0	4683.9	4719.8	4522.5	4196.2	4024.0
22634.2	45°	17666.9	11483.9	5476.5	4752.1	4436.5	4436.5	4587.1	4328.9	4059.9	3952.3
24312.7	47.5°	18857.7	11717.0	5135.8	4429.3	4167.5	4239.2	4293.0	4095.7	3945.1	3812.4
26357.0	50°	20579.2	12276.5	4784.4	4102.9	3963.0	4106.5	4031.2	3916.4	3740.7	3633.1
29606.3	52.5°	22716.7	12606.4	4472.3	3808.8	3787.3	3930.8	3823.2	3715.6	3582.9	3439.4
32070.2	55°	24172.8	12667.4	4210.5	3593.6	3669.0	3654.6	3615.2	3518.3	3446.6	3256.5
34501.8	57.5°	25801.1	12789.4	3995.3	3464.5	3593.6	3435.8	3421.5	3339.0	3245.8	3116.6
37467.8	60°	27748.5	12979.4	3808.8	3414.3	3529.1	3292.4	3220.6	3188.4	3095.1	3030.6
41036.4	62.5°	29871.7	13151.6	3618.7	3421.5	3453.8	3152.5	3044.9	3034.2	2976.8	2955.3
44386.1	65°	31320.6	12681.8	3382.0	3414.3	3335.4	3009.0	2872.8	2869.2	2822.6	2815.4
45838.7	67.5°	30814.9	11193.4	3062.8	3313.9	3213.5	2865.6	2715.0	2700.6	2639.6	2643.2
44321.6	70°	28282.9	9070.2	2621.7	3066.4	3062.8	2736.5	2550.0	2503.4	2420.9	2435.2
38536.6	72.5°	23534.4	6721.0	2029.9	2654.0	2822.6	2618.1	2359.9	2284.6	2180.6	2194.9
28447.9	75°	16996.3	4569.2	1477.6	2019.2	2456.7	2478.3	2173.4	2044.3	1918.8	1940.3
15834.3	77.5°	8697.2	2589.4	1086.7	1391.6	1929.5	2252.3	2004.8	1832.7	1804.0	2004.8
4565.6	80°	2836.9	1298.3	753.2	975.5	1266.0	1843.4	1757.4	1560.1	1552.9	1599.6
957.6	82.5°	846.4	548.7	484.2	642.0	699.4	1413.1	1517.1	1179.9	1015.0	1068.8
319.2	85°	290.5	265.4	276.2	319.2	333.5	828.5	1061.6	781.9	738.8	814.1
71.7	87.5°	68.1	93.2	78.9	71.7	71.7	200.8	412.4	326.4	451.9	301.3
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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<u>180°</u>
8152.0
6444.9
5856.7
5935.6
6136.4
6308.6
6405.4
6391.1
6233.3
5967.9
5681.0
5419.2
5200.4
5103.5
4967.3
4723.4
4275.1
4027.6
3970.2
3808.8
3622.3
3410.7
3260.1
3073.6
3048.5
2955.3
2811.8
2643.2
2449.6
2191.3
1947.5
1976.1
1373.6
1104.6
803.4
290.5
0.0

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