

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: P955743

Luminaire Tested: **GALN-SB8C-835-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955743
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-835-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 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: 57212 lumens
Efficiency: N/A
Efficacy: 143.1 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

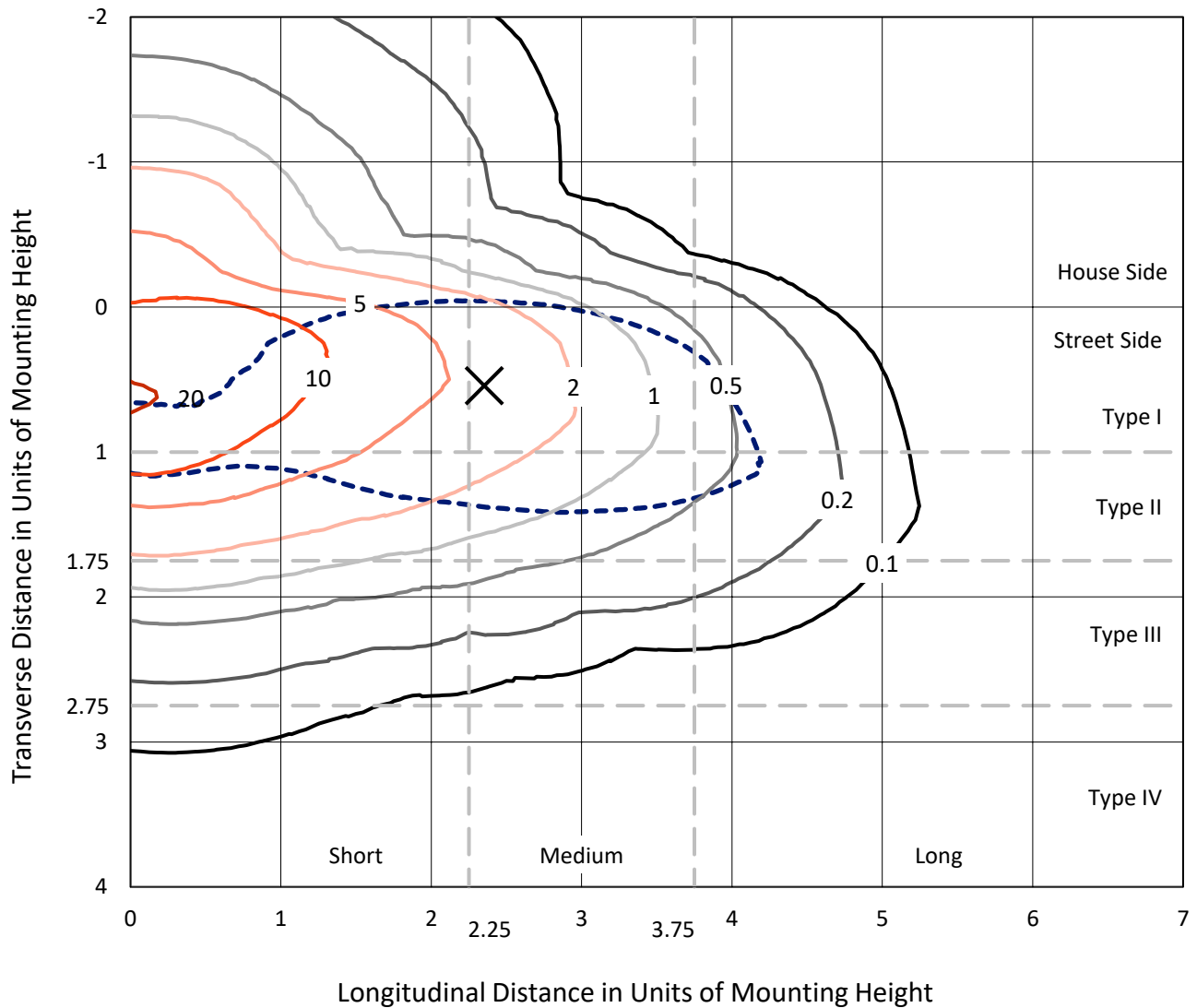
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

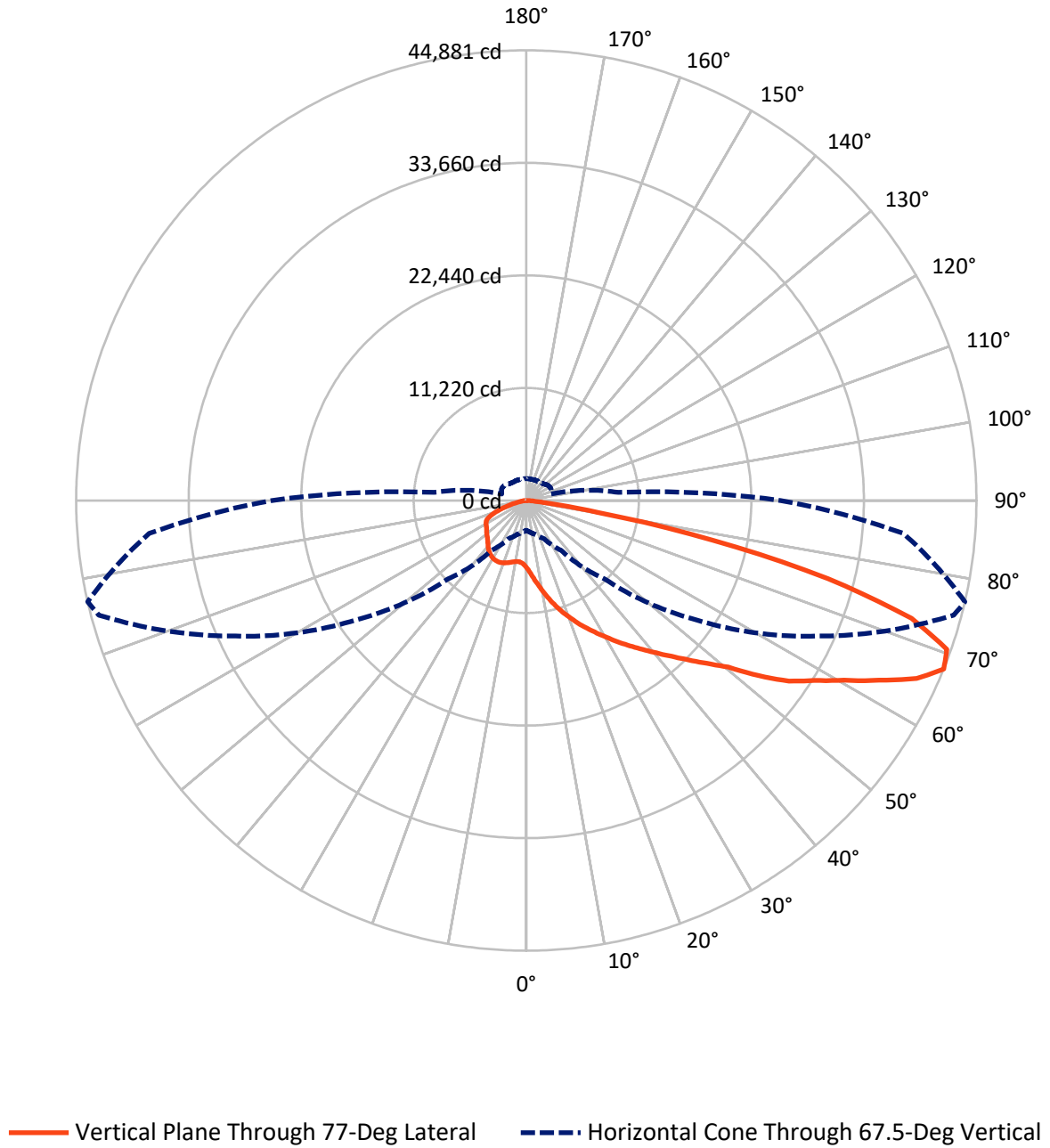
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21 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	10822.2	0.0	10822.2
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	46389.8	0.0	46389.8
	% Fixture	81.1	0.0	81.1
Total	Lumens	57212.0	0.0	57212.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	719.5	1.3
10°-20°	2584.9	4.5
20°-30°	4880.6	8.5
30°-40°	7862.6	13.7
40°-50°	10754.6	18.8
50°-60°	12131.2	21.2
60°-70°	11323.0	19.8
70°-80°	6206.9	10.8
80°-90°	748.7	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°	57212.0	100.0
0°-180°	57212.0	100.0

Coefficient of Utilization



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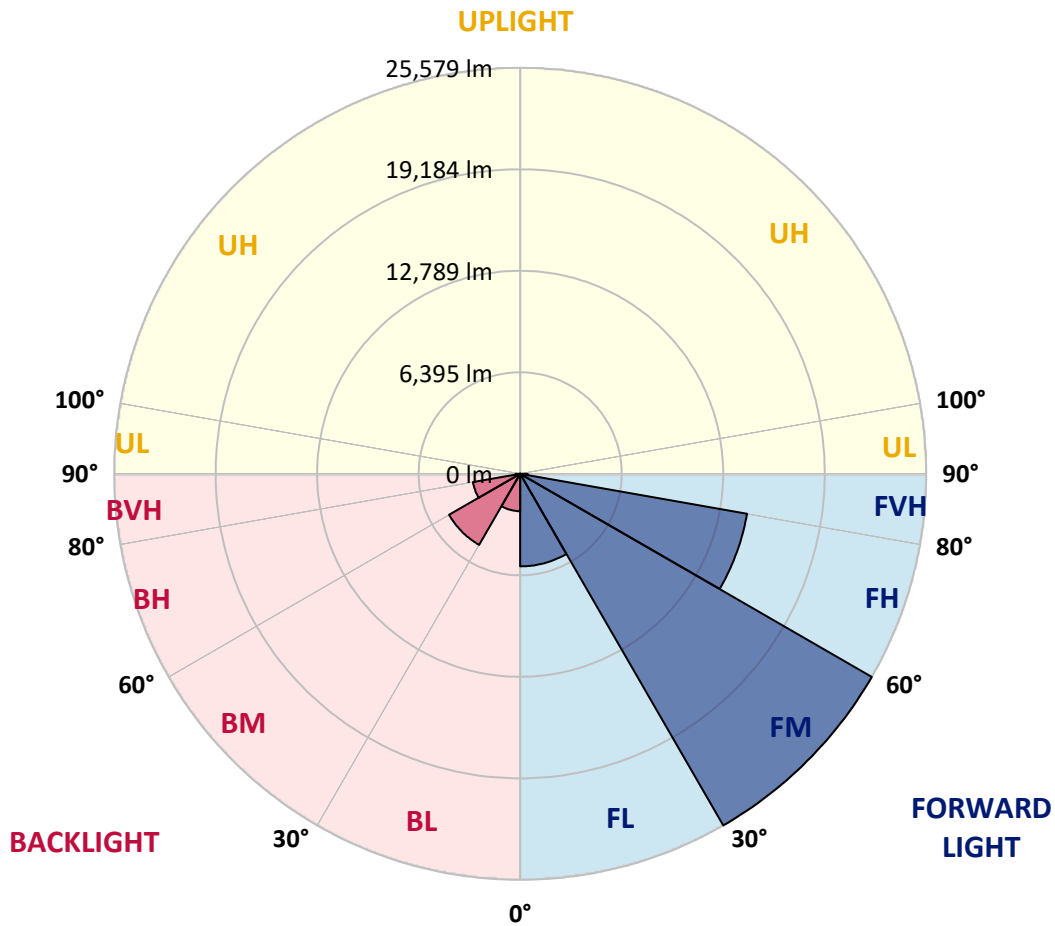
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5832.0	10.2			
FM (30°-60°)	25578.9	44.7			
FH (60°-80°)	14510.7	25.4			G5
FVH (80°-90°)	468.2	0.8			G3/500
BL (0°-30°)	2353.0	4.1	B3/2500		
BM (30°-60°)	5169.5	9.0	B4/8500		
BH (60°-80°)	3019.2	5.3	B4/5000		G4/5000
BVH (80°-90°)	280.5	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°	6712.7	6712.7	6712.7	6712.7	6712.7	6712.7	6712.7	6712.7	6712.7	6712.7
2.5°	8405.0	8464.0	8390.2	8390.2	8142.1	8012.2	7764.1	7575.1	7235.5	7176.4
5°	9934.7	10008.6	9905.2	9860.9	9568.5	9299.8	8883.4	8472.9	7867.5	7805.4
7.5°	11119.0	11213.5	11122.0	11074.7	10814.8	10513.6	10026.3	9453.4	8599.9	8478.8
10°	12084.7	12099.5	12069.9	12087.7	11883.9	11635.8	11136.7	10469.3	9403.2	9237.8
12.5°	12631.1	12699.0	12758.1	12864.4	12828.9	12675.4	12226.5	11429.1	10253.7	10041.1
15°	12888.0	13006.1	13139.0	13384.1	13582.0	13620.4	13277.8	12459.8	11119.0	10862.1
17.5°	12979.5	13091.8	13301.5	13655.8	14081.1	14367.6	14214.0	13460.9	11975.4	11680.1
20°	13443.2	13475.7	13602.7	13939.4	14400.1	14875.5	14990.7	14423.7	12823.0	12489.3
22.5°	14435.5	14370.5	14406.0	14559.5	14890.3	15351.0	15613.9	15274.2	13694.2	13310.3
25°	16074.6	15885.6	15696.5	15519.3	15687.7	15947.6	16245.8	16124.8	14606.8	14119.5
27.5°	18144.8	17914.4	17498.0	16916.2	16712.5	16804.0	16936.9	16913.3	15451.4	14958.2
30°	20182.5	19913.8	19417.6	18576.0	18038.5	17796.3	17695.9	17628.0	16369.9	15844.2
32.5°	21809.8	21597.1	21109.9	20167.8	19388.1	18974.7	18640.9	18398.8	17329.7	16804.0
35°	23233.2	23035.4	22477.2	21449.5	20601.9	20161.9	19724.8	19208.0	18327.9	17796.3
37.5°	24532.7	24334.8	23569.9	22500.8	21647.3	21343.2	20953.3	20076.2	19329.0	18827.0
40°	25353.7	25309.4	24594.7	23383.9	22497.9	22347.3	22217.3	21083.3	20439.5	19972.9
42.5°	25563.4	25660.8	25093.8	24098.5	23253.9	23132.8	23437.0	22223.2	21685.7	21239.8
45°	25058.4	25338.9	24966.8	24290.5	23791.4	23726.4	24517.9	23469.5	23064.9	22657.4
47.5°	23779.6	24255.1	24101.5	24007.0	23936.1	24216.7	25468.9	24792.6	24627.2	24272.8
50°	21198.5	22099.2	22367.9	22964.5	23649.7	24597.6	26334.2	26236.7	26452.3	26094.9
52.5°	16736.1	17976.5	19535.8	21030.1	22769.6	24470.7	27285.1	28309.9	29219.5	29024.6
55°	13815.3	14373.5	15572.5	18313.1	21062.6	23936.1	27713.3	29984.4	31966.0	31791.8
57.5°	11570.8	12069.9	12808.3	15097.0	18481.5	22722.3	27979.1	31006.2	33847.2	33829.5
60°	9163.9	9692.6	10448.6	12069.9	15466.2	20625.5	27920.1	32169.8	36248.2	36395.9
62.5°	6447.0	7028.7	7867.5	9379.5	12385.9	17908.5	26715.1	33011.5	39074.5	39476.1
65°	4237.9	4621.8	5253.8	6559.2	9228.9	14414.8	24414.5	33120.7	42098.6	42777.9
67.5°	2971.0	3118.6	3490.7	4199.5	6083.7	11054.0	20749.6	31989.6	44115.7	44880.6
70°	2318.3	2392.1	2581.1	2864.7	3821.5	7433.3	15900.3	29048.2	43684.5	44481.9
72.5°	2002.3	2073.2	2144.1	2179.5	2563.4	4589.4	10770.5	24287.6	39623.8	40164.2
75°	1816.3	1834.0	1893.0	1881.2	1955.1	2976.9	6216.6	17695.9	31263.1	31077.1
77.5°	1526.8	1550.5	1647.9	1633.1	1736.5	2034.8	3227.9	11420.2	20268.2	19004.2
80°	1293.5	1305.3	1411.7	1393.9	1509.1	1473.7	1647.9	5820.9	8596.9	7282.7
82.5°	448.9	555.2	1077.9	1110.4	1151.8	891.9	950.9	2374.4	2625.4	2011.2
85°	218.5	233.3	549.3	779.7	776.7	448.9	463.7	847.6	826.9	649.7
87.5°	35.4	44.3	65.0	304.2	242.2	118.1	159.5	165.4	171.3	147.7
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°
6712.7	0°	6712.7	6712.7	6712.7	6712.7	6712.7	6712.7	6712.7	6712.7	6712.7	6712.7
6952.0	2.5°	6786.6	6638.9	6328.8	6042.4	5817.9	5602.3	5481.2	5377.9	5318.8	5307.0
7276.8	5°	6969.7	6665.5	6101.4	5625.9	5315.9	5085.5	4964.4	4887.6	4849.2	4825.6
7713.9	7.5°	7232.5	6786.6	5983.3	5442.8	5118.0	4952.6	4890.6	4878.8	4875.8	4878.8
8242.5	10°	7595.8	6984.4	5971.5	5398.5	5126.8	5035.3	5032.3	5035.3	5047.1	5050.1
8818.4	12.5°	7988.6	7188.2	6018.7	5436.9	5239.1	5188.9	5180.0	5177.1	5185.9	5191.8
9400.2	15°	8416.8	7457.0	6098.5	5519.6	5363.1	5309.9	5301.1	5283.4	5280.4	5277.5
10011.5	17.5°	8856.8	7722.8	6187.1	5608.2	5442.8	5369.0	5336.5	5295.2	5262.7	5253.8
10643.5	20°	9302.7	7985.6	6249.1	5652.5	5448.8	5345.4	5280.4	5209.5	5153.4	5120.9
11281.4	22.5°	9778.2	8260.2	6287.5	5640.7	5395.6	5253.8	5135.7	5053.0	4967.4	4911.3
11925.2	25°	10241.9	8499.5	6284.5	5578.7	5292.2	5112.1	4961.5	4855.1	4737.0	4678.0
12589.7	27.5°	10687.8	8715.1	6210.7	5469.4	5144.6	4943.7	4763.6	4636.6	4521.4	4465.3
13260.1	30°	11148.5	8895.2	6095.5	5309.9	4970.3	4748.8	4551.0	4441.7	4338.3	4285.2
13968.9	32.5°	11606.3	9060.6	5933.1	5112.1	4769.5	4556.9	4362.0	4261.5	4199.5	4199.5
14730.8	35°	12090.6	9175.8	5717.5	4881.7	4556.9	4353.1	4199.5	4140.5	4134.6	4099.1
15537.1	37.5°	12601.5	9249.6	5454.7	4645.5	4347.2	4155.2	4108.0	4037.1	3978.0	3901.2
16423.0	40°	13139.0	9323.4	5138.7	4400.3	4125.7	4019.4	3998.7	3904.2	3735.9	3546.9
17427.1	42.5°	13791.7	9373.6	4810.8	4155.2	3892.4	3856.9	3886.5	3724.1	3455.3	3313.6
18638.0	45°	14547.7	9456.3	4509.6	3913.1	3653.2	3653.2	3777.2	3564.6	3343.1	3254.5
20020.1	47.5°	15528.2	9648.3	4229.1	3647.3	3431.7	3490.7	3535.0	3372.6	3248.6	3139.3
21703.5	50°	16945.8	10109.0	3939.6	3378.5	3263.3	3381.5	3319.5	3225.0	3080.2	2991.6
24379.1	52.5°	18705.9	10380.7	3682.7	3136.4	3118.6	3236.8	3148.2	3059.6	2950.3	2832.2
26408.0	55°	19904.9	10430.9	3467.1	2959.2	3021.2	3009.4	2976.9	2897.1	2838.1	2681.6
28410.3	57.5°	21245.7	10531.3	3289.9	2852.8	2959.2	2829.2	2817.4	2749.5	2672.7	2566.4
30852.6	60°	22849.3	10687.8	3136.4	2811.5	2906.0	2711.1	2652.0	2625.4	2548.7	2495.5
33791.1	62.5°	24597.6	10829.6	2979.8	2817.4	2844.0	2595.9	2507.3	2498.5	2451.2	2433.5
36549.5	65°	25790.8	10442.7	2784.9	2811.5	2746.5	2477.8	2365.6	2362.6	2324.2	2318.3
37745.5	67.5°	25374.4	9217.1	2522.1	2728.8	2646.1	2359.6	2235.6	2223.8	2173.6	2176.5
36496.3	70°	23289.4	7468.8	2158.8	2525.0	2522.1	2253.3	2099.8	2061.4	1993.4	2005.3
31732.7	72.5°	19379.2	5534.4	1671.5	2185.4	2324.2	2155.9	1943.2	1881.2	1795.6	1807.4
23425.2	75°	13995.5	3762.4	1216.7	1662.7	2023.0	2040.7	1789.7	1683.4	1580.0	1597.7
13038.6	77.5°	7161.6	2132.2	894.8	1145.9	1588.9	1854.6	1650.9	1509.1	1485.5	1650.9
3759.5	80°	2336.0	1069.1	620.2	803.3	1042.5	1518.0	1447.1	1284.7	1278.8	1317.2
788.5	82.5°	697.0	451.8	398.7	528.6	575.9	1163.6	1249.2	971.6	835.8	880.1
262.8	85°	239.2	218.5	227.4	262.8	274.7	682.2	874.2	643.8	608.4	670.4
59.1	87.5°	56.1	76.8	65.0	59.1	59.1	165.4	339.6	268.7	372.1	248.1
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>
6712.7
5307.0
4822.7
4887.6
5053.0
5194.8
5274.5
5262.7
5132.8
4914.2
4678.0
4462.4
4282.2
4202.5
4090.3
3889.4
3520.3
3316.5
3269.3
3136.4
2982.8
2808.5
2684.5
2530.9
2510.3
2433.5
2315.4
2176.5
2017.1
1804.4
1603.6
1627.2
1131.1
909.6
661.5
239.2
0.0

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