

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: P957171

Luminaire Tested: **GALN-SB9C-835-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957171
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-835-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 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: 64444 lumens
Efficiency: N/A
Efficacy: 143.3 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

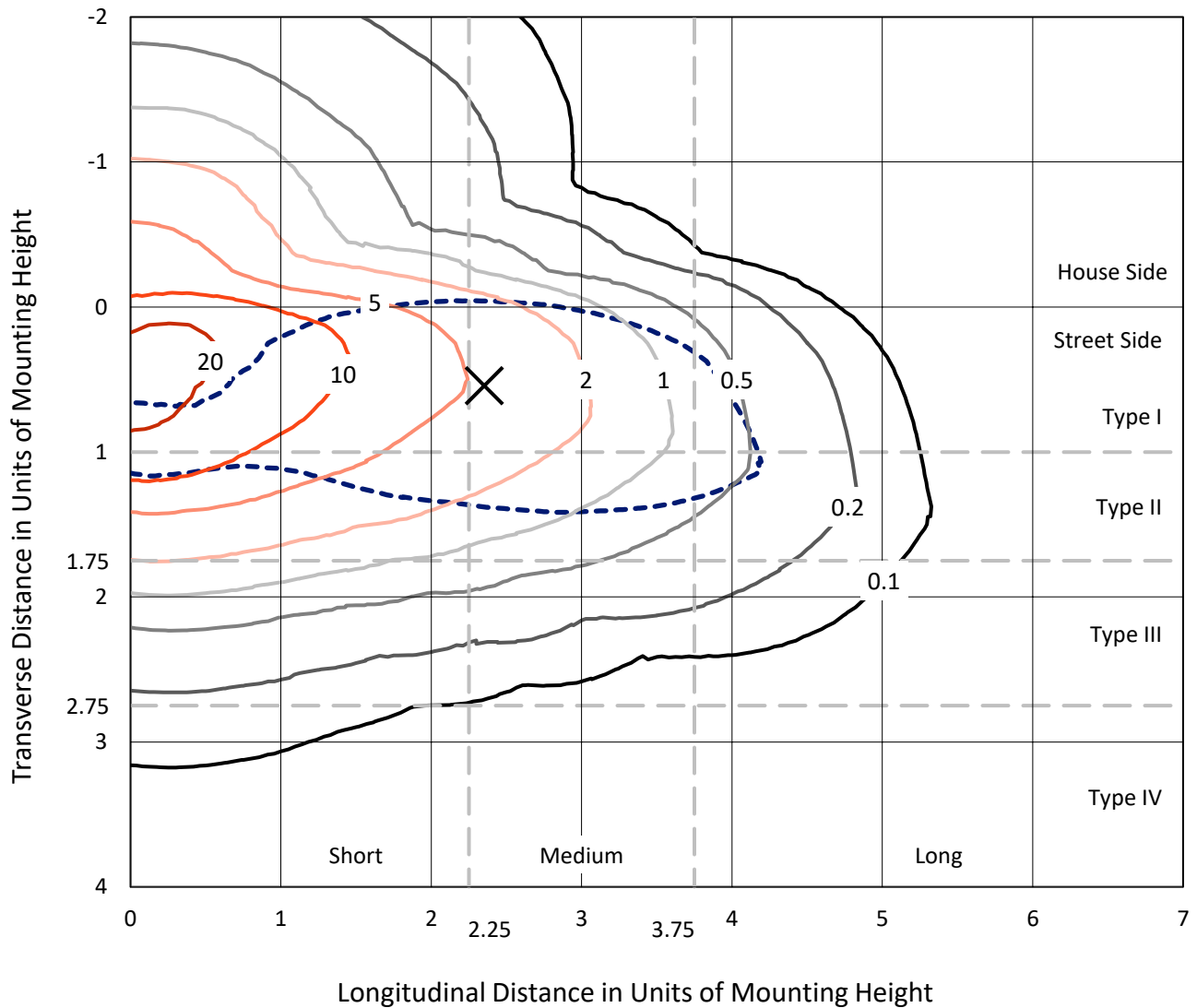
Input Watts (W): 449.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

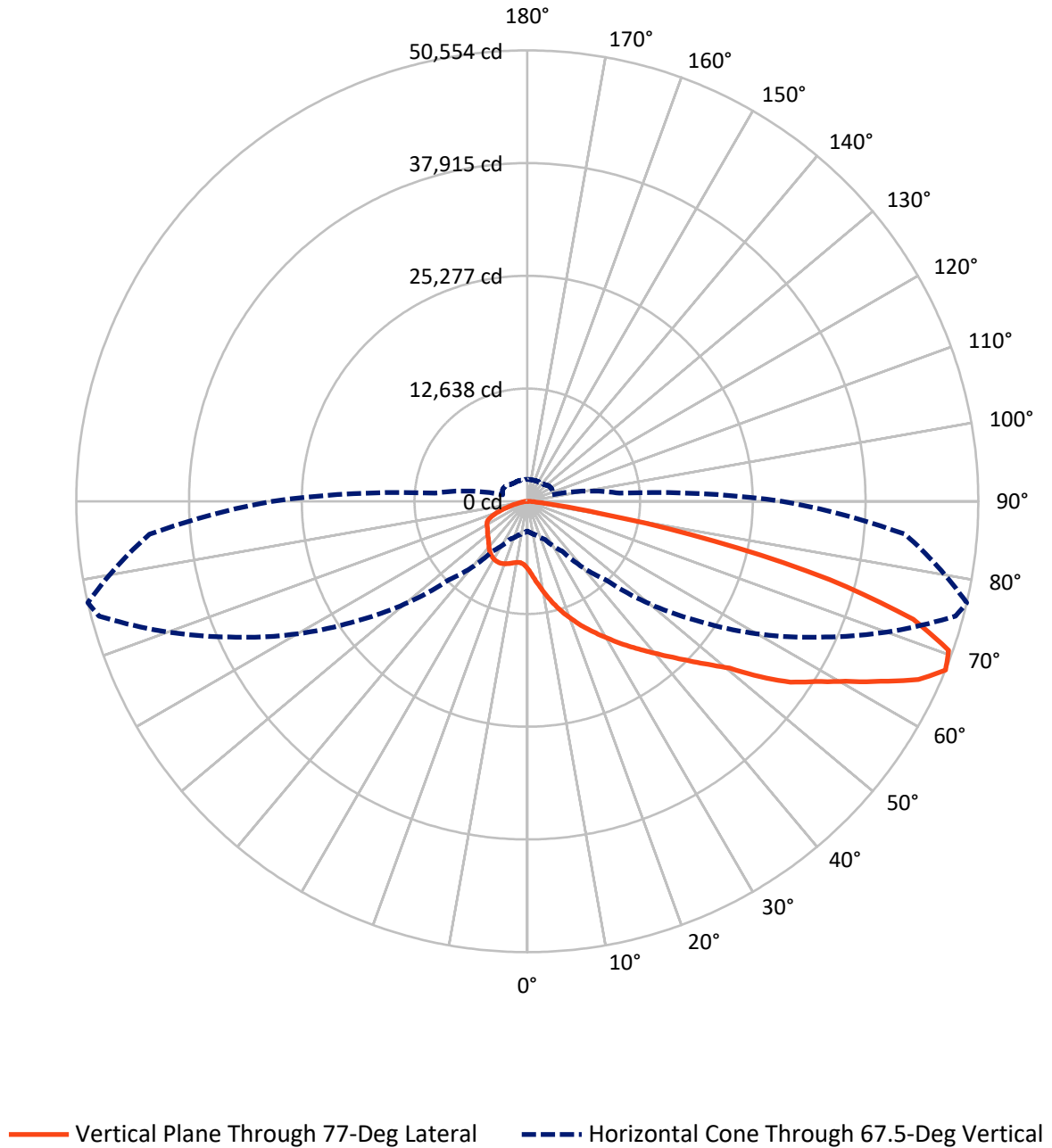
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.6 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	12190.2	0.0	12190.2
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	52253.8	0.0	52253.8
	% Fixture	81.1	0.0	81.1
Total	Lumens	64444.0	0.0	64444.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	810.5	1.3
10°-20°	2911.7	4.5
20°-30°	5497.5	8.5
30°-40°	8856.5	13.7
40°-50°	12114.0	18.8
50°-60°	13664.7	21.2
60°-70°	12754.3	19.8
70°-80°	6991.5	10.8
80°-90°	843.3	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°	64444.0	100.0
0°-180°	64444.0	100.0

Coefficient of Utilization



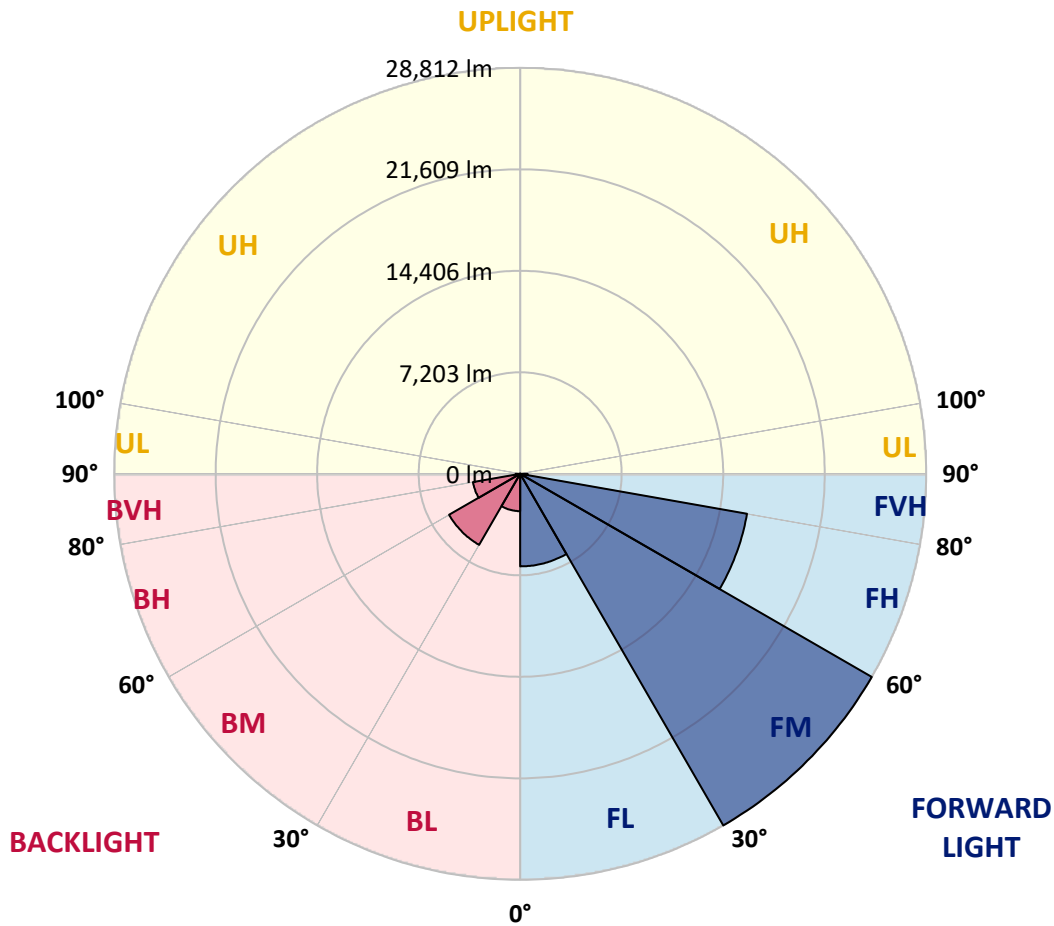
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6569.3	10.2			
FM (30°-60°)	28812.2	44.7			
FH (60°-80°)	16344.9	25.4			G5
FVH (80°-90°)	527.4	0.8			G4/750
BL (0°-30°)	2650.4	4.1	B4/5000		
BM (30°-60°)	5823.0	9.0	B4/8500		
BH (60°-80°)	3400.9	5.3	B4/5000		G4/5000
BVH (80°-90°)	315.9	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°	7561.3	7561.3	7561.3	7561.3	7561.3	7561.3	7561.3	7561.3	7561.3	7561.3
2.5°	9467.4	9533.9	9450.8	9450.8	9171.3	9025.0	8745.5	8532.6	8150.1	8083.6
5°	11190.6	11273.7	11157.3	11107.4	10778.1	10475.4	10006.3	9543.9	8862.0	8792.1
7.5°	12524.5	12631.0	12527.8	12474.6	12181.9	11842.6	11293.7	10648.3	9687.0	9550.6
10°	13612.3	13628.9	13595.7	13615.6	13386.1	13106.7	12544.5	11792.7	10591.8	10405.5
12.5°	14227.7	14304.2	14370.8	14490.5	14450.6	14277.6	13772.0	12873.8	11549.8	11310.3
15°	14517.1	14650.2	14799.9	15076.0	15298.9	15342.1	14956.2	14034.8	12524.5	12235.1
17.5°	14620.3	14746.7	14982.9	15382.0	15861.1	16183.7	16010.8	15162.5	13489.2	13156.6
20°	15142.5	15179.1	15322.2	15701.4	16220.3	16755.9	16885.6	16246.9	14443.9	14068.0
22.5°	16260.3	16187.1	16227.0	16400.0	16772.5	17291.5	17587.6	17205.0	15425.3	14992.8
25°	18106.5	17893.6	17680.7	17481.1	17670.7	17963.5	18299.4	18163.0	16453.2	15904.3
27.5°	20438.4	20178.9	19709.9	19054.6	18825.0	18928.2	19077.9	19051.2	17404.6	16849.1
30°	22733.7	22431.0	21872.2	20924.1	20318.7	20045.9	19932.8	19856.3	18439.2	17847.0
32.5°	24566.7	24327.2	23778.3	22717.1	21838.9	21373.2	20997.3	20724.5	19520.3	18928.2
35°	26170.1	25947.2	25318.5	24160.8	23206.1	22710.5	22218.1	21636.0	20644.7	20045.9
37.5°	27633.8	27410.9	26549.3	25345.1	24383.7	24041.1	23602.0	22614.0	21772.4	21206.9
40°	28558.6	28508.7	27703.6	26339.7	25341.8	25172.1	25025.8	23748.4	23023.2	22497.6
42.5°	28794.8	28904.5	28265.8	27144.8	26193.4	26057.0	26399.6	25032.4	24427.0	23924.7
45°	28225.9	28541.9	28122.8	27361.0	26798.8	26725.6	27617.1	26436.2	25980.5	25521.4
47.5°	26785.5	27321.1	27148.1	27041.7	26961.8	27277.8	28688.3	27926.5	27740.2	27341.0
50°	23878.1	24892.7	25195.4	25867.4	26639.1	27707.0	29663.0	29553.2	29796.0	29393.5
52.5°	18851.6	20248.8	22005.2	23688.5	25647.8	27563.9	30734.1	31888.5	32913.0	32693.5
55°	15561.7	16190.4	17541.0	20628.0	23725.1	26961.8	31216.5	33774.6	36006.7	35810.5
57.5°	13033.5	13595.7	14427.3	17005.4	20817.6	25594.6	31515.9	34925.6	38125.8	38105.8
60°	10322.3	10917.8	11769.4	13595.7	17421.2	23232.7	31449.3	36236.3	40830.3	40996.6
62.5°	7261.9	7917.2	8862.0	10565.2	13951.6	20172.3	30092.1	37184.3	44013.8	44466.2
65°	4773.6	5206.1	5918.0	7388.3	10395.5	16237.0	27500.7	37307.4	47420.2	48185.3
67.5°	3346.5	3512.9	3932.0	4730.4	6852.7	12451.3	23372.4	36033.4	49692.2	50553.8
70°	2611.4	2694.5	2907.4	3226.8	4304.6	8373.0	17910.2	32720.1	49206.6	50104.7
72.5°	2255.4	2335.2	2415.1	2455.0	2887.5	5169.5	12132.0	27357.7	44632.5	45241.3
75°	2045.8	2065.8	2132.3	2119.0	2202.2	3353.2	7002.4	19932.8	35215.0	35005.4
77.5°	1719.8	1746.4	1856.2	1839.6	1956.0	2292.0	3635.9	12863.8	22830.2	21406.4
80°	1457.0	1470.3	1590.1	1570.1	1699.9	1660.0	1856.2	6556.7	9683.6	8203.3
82.5°	505.6	625.4	1214.2	1250.8	1297.4	1004.6	1071.2	2674.6	2957.3	2265.4
85°	246.2	262.8	618.7	878.2	874.9	505.6	522.3	954.7	931.4	731.8
87.5°	39.9	49.9	73.2	342.6	272.8	133.1	179.6	186.3	192.9	166.3
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°
7561.3	0°	7561.3	7561.3	7561.3	7561.3	7561.3	7561.3	7561.3	7561.3	7561.3	7561.3
7830.7	2.5°	7644.4	7478.1	7128.8	6806.2	6553.3	6310.5	6174.1	6057.7	5991.1	5977.8
8196.7	5°	7850.7	7508.1	6872.7	6337.1	5987.8	5728.3	5592.0	5505.5	5462.2	5435.6
8689.0	7.5°	8146.8	7644.4	6739.6	6130.9	5764.9	5578.7	5508.8	5495.5	5492.2	5495.5
9284.4	10°	8555.9	7867.3	6726.3	6081.0	5774.9	5671.8	5668.5	5671.8	5685.1	5688.4
9933.1	12.5°	8998.4	8096.9	6779.5	6124.2	5901.3	5844.8	5834.8	5831.5	5841.4	5848.1
10588.5	15°	9480.7	8399.6	6869.4	6217.4	6041.0	5981.2	5971.2	5951.2	5947.9	5944.6
11277.1	17.5°	9976.4	8699.0	6969.2	6317.1	6130.9	6047.7	6011.1	5964.5	5927.9	5918.0
11988.9	20°	10478.7	8995.0	7039.0	6367.0	6137.5	6021.1	5947.9	5868.1	5804.9	5768.3
12707.5	22.5°	11014.3	9304.4	7082.3	6353.7	6077.6	5918.0	5784.9	5691.8	5595.3	5532.1
13432.7	25°	11536.5	9573.9	7078.9	6283.9	5961.2	5758.3	5588.6	5468.9	5335.8	5269.3
14181.1	27.5°	12038.8	9816.7	6995.8	6160.8	5794.9	5568.7	5365.8	5222.7	5093.0	5029.8
14936.3	30°	12557.8	10019.6	6866.0	5981.2	5598.6	5349.1	5126.2	5003.2	4886.7	4826.8
15734.7	32.5°	13073.4	10205.9	6683.1	5758.3	5372.4	5132.9	4913.3	4800.2	4730.4	4730.4
16592.9	35°	13619.0	10335.6	6440.2	5498.8	5132.9	4903.4	4730.4	4663.8	4657.2	4617.3
17501.1	37.5°	14194.5	10418.8	6144.2	5232.7	4896.7	4680.5	4627.3	4547.4	4480.9	4394.4
18499.0	40°	14799.9	10502.0	5788.2	4956.6	4647.2	4527.5	4504.2	4397.7	4208.1	3995.2
19630.1	42.5°	15535.1	10558.5	5419.0	4680.5	4384.4	4344.5	4377.8	4194.8	3892.1	3732.4
20994.0	45°	16386.7	10651.7	5079.7	4407.7	4115.0	4115.0	4254.7	4015.2	3765.7	3665.9
22550.8	47.5°	17491.1	10867.9	4763.6	4108.3	3865.5	3932.0	3981.9	3798.9	3659.2	3536.1
24446.9	50°	19087.8	11386.8	4437.6	3805.6	3675.9	3808.9	3739.1	3632.6	3469.6	3369.8
27460.8	52.5°	21070.5	11692.9	4148.2	3532.8	3512.9	3645.9	3546.1	3446.3	3323.2	3190.2
29746.1	55°	22421.1	11749.4	3905.4	3333.2	3403.1	3389.8	3353.2	3263.4	3196.8	3020.5
32001.6	57.5°	23931.3	11862.5	3705.8	3213.5	3333.2	3186.8	3173.5	3097.0	3010.5	2890.8
34752.6	60°	25737.6	12038.8	3532.8	3166.9	3273.3	3053.8	2987.3	2957.3	2870.8	2810.9
38062.6	62.5°	27707.0	12198.5	3356.5	3173.5	3203.5	2924.1	2824.3	2814.3	2761.0	2741.1
41169.6	65°	29050.9	11762.7	3137.0	3166.9	3093.7	2791.0	2664.6	2661.3	2618.0	2611.4
42516.8	67.5°	28581.9	10382.2	2840.9	3073.7	2980.6	2657.9	2518.2	2504.9	2448.4	2451.7
41109.7	70°	26233.3	8412.9	2431.7	2844.2	2840.9	2538.2	2365.2	2321.9	2245.4	2258.7
35743.9	72.5°	21828.9	6234.0	1882.8	2461.7	2618.0	2428.4	2188.9	2119.0	2022.6	2035.9
26386.3	75°	15764.6	4238.0	1370.5	1872.9	2278.7	2298.7	2015.9	1896.1	1779.7	1799.7
14686.8	77.5°	8066.9	2401.8	1007.9	1290.7	1789.7	2089.1	1859.6	1699.9	1673.3	1859.6
4234.7	80°	2631.3	1204.2	698.6	904.8	1174.3	1709.9	1630.0	1447.1	1440.4	1483.6
888.2	82.5°	785.1	509.0	449.1	595.5	648.7	1310.7	1407.1	1094.4	941.4	991.3
296.1	85°	269.5	246.2	256.1	296.1	309.4	768.4	984.7	725.2	685.3	755.1
66.5	87.5°	63.2	86.5	73.2	66.5	66.5	186.3	382.6	302.7	419.1	279.4
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°
7561.3
5977.8
5432.3
5505.5
5691.8
5851.4
5941.2
5927.9
5781.6
5535.4
5269.3
5026.4
4823.5
4733.7
4607.3
4381.1
3965.3
3735.7
3682.5
3532.8
3359.8
3163.6
3023.8
2850.9
2827.6
2741.1
2608.0
2451.7
2272.0
2032.5
1806.3
1832.9
1274.1
1024.6
745.2
269.5
0.0

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