

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: P956037

Luminaire Tested: **GALN-SB8D-760-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956037
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-SB8D-760-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 5700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 88670 lumens
Efficiency: N/A
Efficacy: 151.6 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

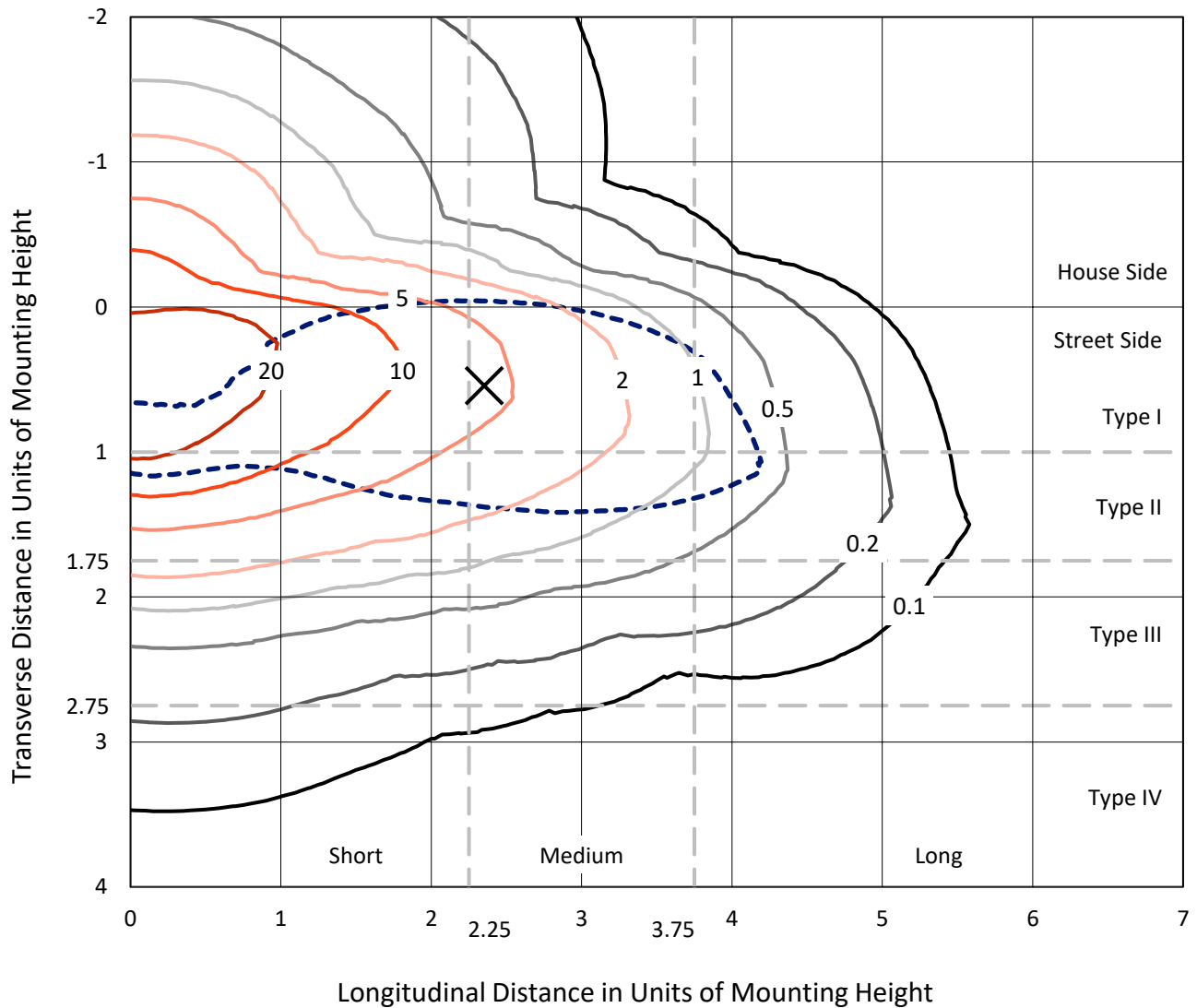
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

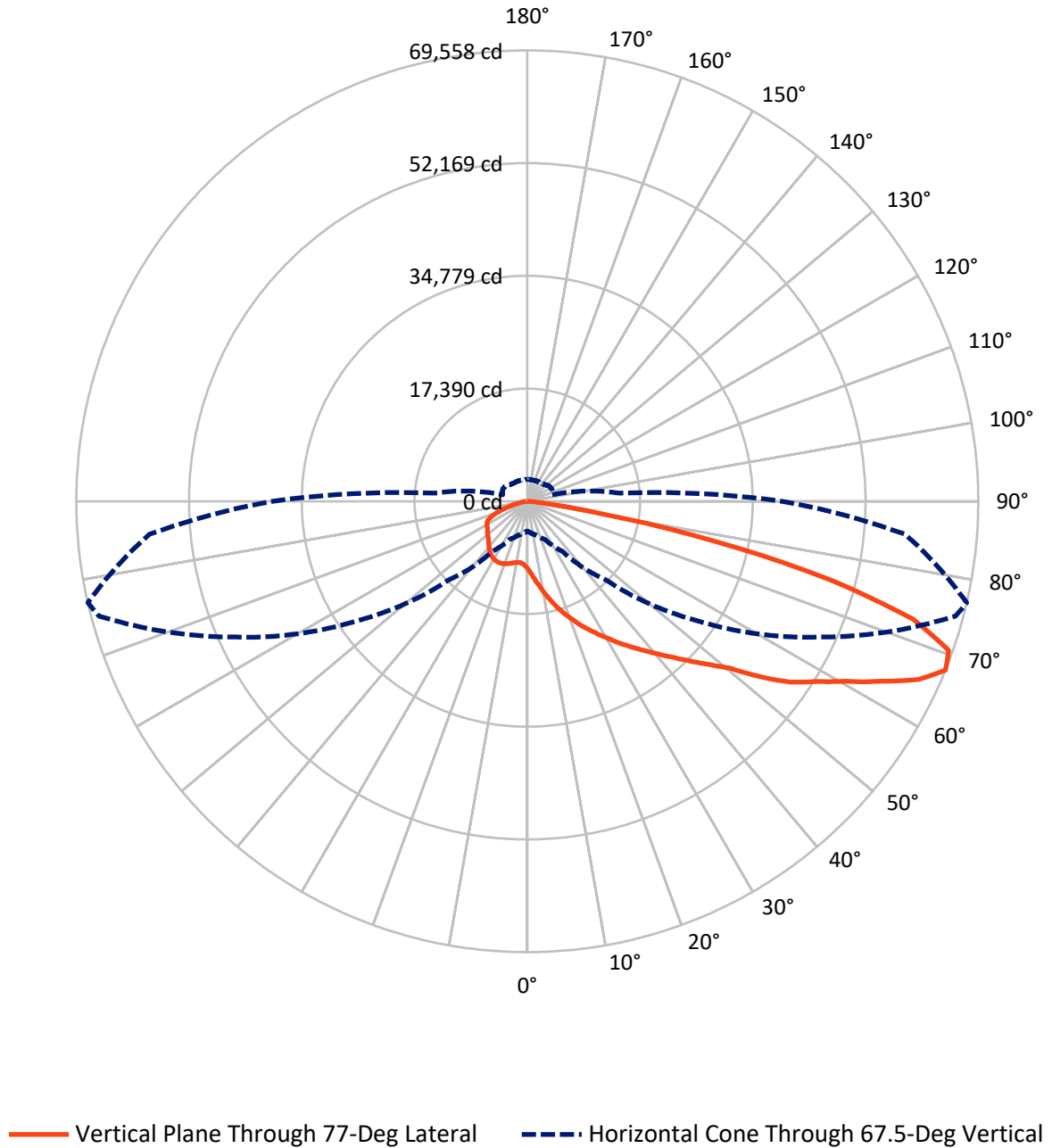
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 32.5 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	16772.8	0.0	16772.8
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	71897.2	0.0	71897.2
	% Fixture	81.1	0.0	81.1
Total	Lumens	88670.0	0.0	88670.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1115.1	1.3
10°-20°	4006.3	4.5
20°-30°	7564.2	8.5
30°-40°	12185.8	13.7
40°-50°	16668.0	18.8
50°-60°	18801.6	21.2
60°-70°	17548.9	19.8
70°-80°	9619.8	10.8
80°-90°	1160.4	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°	88670.0	100.0
0°-180°	88670.0	100.0

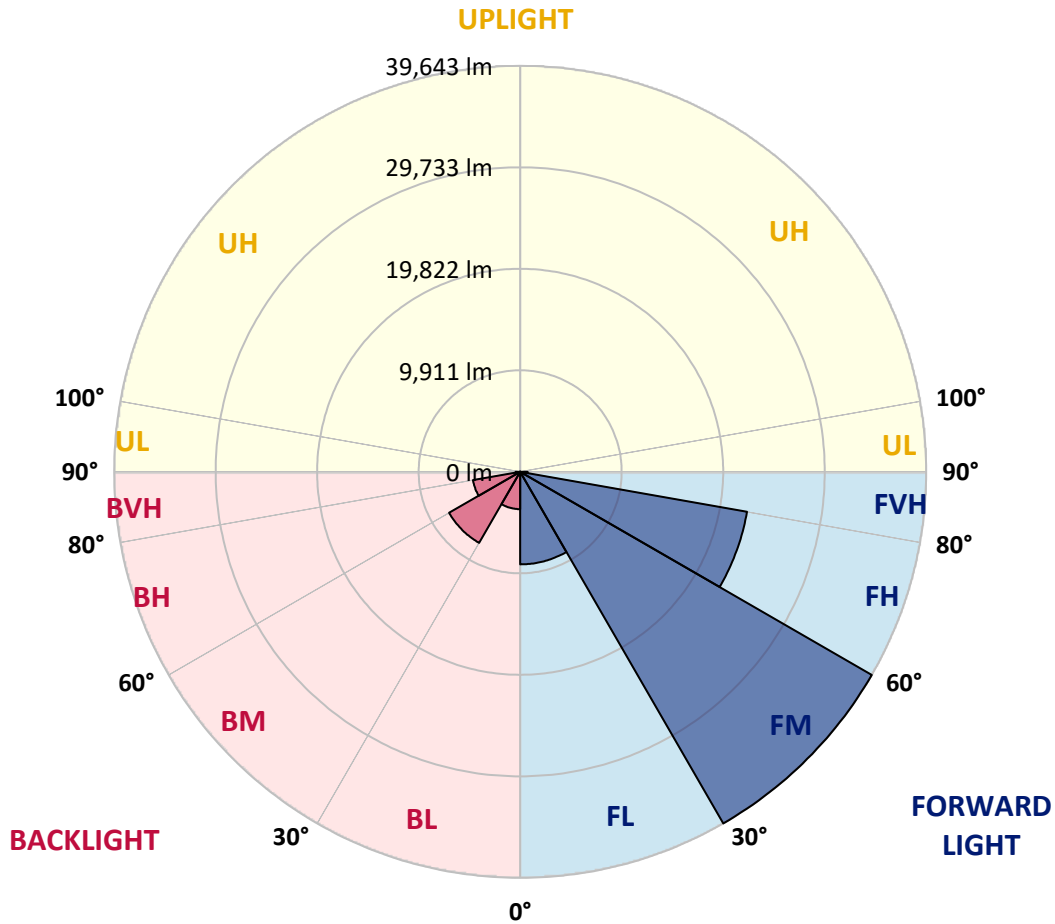


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	9038.8	10.2			
FM (30°-60°)	39643.4	44.7			
FH (60°-80°)	22489.3	25.4			G5
FVH (80°-90°)	725.7	0.8			G4/750
BL (0°-30°)	3646.8	4.1	B4/5000		
BM (30°-60°)	8012.0	9.0	B4/8500		
BH (60°-80°)	4679.4	5.3	B4/5000		G4/5000
BVH (80°-90°)	434.7	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°	10403.7	10403.7	10403.7	10403.7	10403.7	10403.7	10403.7	10403.7	10403.7	10403.7
2.5°	13026.4	13118.0	13003.5	13003.5	12619.1	12417.7	12033.2	11740.3	11213.9	11122.4
5°	15397.4	15511.8	15351.6	15282.9	14829.8	14413.3	13767.9	13131.7	12193.4	12097.3
7.5°	17232.8	17379.2	17237.4	17164.1	16761.3	16294.5	15539.3	14651.3	13328.5	13140.9
10°	18729.5	18752.4	18706.6	18734.1	18418.2	18033.8	17260.2	16225.8	14573.5	14317.2
12.5°	19576.3	19681.5	19773.1	19937.8	19882.9	19644.9	18949.2	17713.4	15891.7	15562.1
15°	19974.5	20157.5	20363.5	20743.4	21050.1	21109.6	20578.6	19310.8	17232.8	16834.6
17.5°	20116.3	20290.3	20615.3	21164.5	21823.6	22267.6	22029.6	20862.4	18560.1	18102.4
20°	20835.0	20885.3	21082.1	21603.9	22317.9	23054.8	23233.4	22354.6	19873.8	19356.6
22.5°	22372.9	22272.2	22327.1	22565.1	23077.7	23791.8	24199.1	23672.8	21224.0	20629.0
25°	24913.1	24620.2	24327.3	24052.7	24313.5	24716.3	25178.6	24991.0	22638.3	21883.1
27.5°	28121.7	27764.7	27119.3	26217.6	25901.8	26043.7	26249.7	26213.0	23947.4	23183.0
30°	31279.9	30863.4	30094.4	28790.0	27956.9	27581.6	27426.0	27320.7	25370.9	24556.1
32.5°	33801.9	33472.3	32717.1	31257.0	30048.7	29407.9	28890.6	28515.3	26858.4	26043.7
35°	36008.0	35701.4	34836.3	33243.5	31929.8	31247.9	30570.4	29769.5	28405.5	27581.6
37.5°	38022.0	37715.3	36529.8	34872.9	33550.1	33078.7	32474.5	31115.1	29957.1	29179.0
40°	39294.4	39225.7	38118.1	36241.5	34868.3	34634.9	34433.5	32675.9	31678.1	30954.9
42.5°	39619.4	39770.4	38891.6	37349.1	36040.1	35852.4	36323.9	34442.7	33609.6	32918.5
45°	38836.7	39271.5	38694.8	37646.6	36873.1	36772.4	37999.1	36374.2	35747.1	35115.5
47.5°	36854.8	37591.7	37353.7	37207.2	37097.4	37532.2	39472.9	38424.7	38168.4	37619.2
50°	32854.4	34250.4	34666.9	35591.5	36653.4	38122.7	40814.0	40662.9	40997.1	40443.2
52.5°	25938.4	27860.8	30277.5	32593.5	35289.4	37925.8	42287.8	43876.1	45285.8	44983.7
55°	21411.7	22276.7	24135.0	28382.6	32643.9	37097.4	42951.5	46471.3	49542.5	49272.5
57.5°	17933.1	18706.6	19850.9	23398.1	28643.5	35216.2	43363.4	48055.0	52458.1	52430.7
60°	14202.7	15022.0	16193.8	18706.6	23970.3	31966.5	43271.9	49858.3	56179.3	56408.2
62.5°	9991.8	10893.5	12193.4	14536.9	19196.4	27755.5	41404.4	51162.8	60559.6	61182.1
65°	6568.1	7163.2	8142.7	10165.7	14303.4	22340.8	37838.9	51332.2	65246.5	66299.3
67.5°	4604.6	4833.4	5410.1	6508.6	9428.8	17132.1	32158.7	49579.1	68372.7	69558.2
70°	3593.0	3707.5	4000.4	4439.8	5922.8	11520.6	24643.1	45020.3	67704.4	68940.3
72.5°	3103.3	3213.1	3323.0	3377.9	3972.9	7112.8	16692.7	37642.1	61410.9	62248.5
75°	2814.9	2842.4	2933.9	2915.6	3030.0	4613.7	9634.8	27426.0	48453.2	48164.8
77.5°	2366.4	2403.0	2554.0	2531.1	2691.3	3153.6	5002.8	17699.6	31412.6	29453.6
80°	2004.8	2023.1	2187.9	2160.4	2338.9	2284.0	2554.0	9021.5	13323.9	11287.1
82.5°	695.7	860.5	1670.6	1721.0	1785.1	1382.3	1473.8	3680.0	4069.0	3117.0
85°	338.7	361.6	851.3	1208.4	1203.8	695.7	718.6	1313.6	1281.6	1007.0
87.5°	54.9	68.7	100.7	471.4	375.3	183.1	247.2	256.3	265.5	228.9
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°
10403.7	0°	10403.7	10403.7	10403.7	10403.7	10403.7	10403.7	10403.7	10403.7	10403.7	10403.7
10774.5	2.5°	10518.2	10289.3	9808.7	9364.7	9016.9	8682.8	8495.1	8334.9	8243.4	8225.0
11278.0	5°	10802.0	10330.5	9456.3	8719.4	8238.8	7881.8	7694.1	7575.1	7515.6	7479.0
11955.4	7.5°	11209.3	10518.2	9273.2	8435.6	7932.1	7675.8	7579.7	7561.4	7556.8	7561.4
12774.7	10°	11772.3	10824.8	9254.9	8366.9	7945.8	7804.0	7799.4	7804.0	7822.3	7826.8
13667.2	12.5°	12381.1	11140.7	9328.1	8426.4	8119.8	8042.0	8028.2	8023.7	8037.4	8046.5
14568.9	15°	13044.7	11557.2	9451.7	8554.6	8312.0	8229.6	8215.9	8188.4	8183.9	8179.3
15516.4	17.5°	13726.7	11969.1	9589.0	8691.9	8435.6	8321.2	8270.8	8206.7	8156.4	8142.7
16495.9	20°	14417.9	12376.5	9685.1	8760.6	8444.7	8284.5	8183.9	8074.0	7987.0	7936.7
17484.5	22.5°	15154.8	12802.1	9744.6	8742.3	8362.4	8142.7	7959.6	7831.4	7698.7	7611.7
18482.3	25°	15873.4	13172.9	9740.1	8646.1	8202.2	7923.0	7689.5	7524.8	7341.7	7250.1
19512.2	27.5°	16564.5	13507.0	9625.6	8476.8	7973.3	7662.1	7382.9	7186.0	7007.5	6920.6
20551.2	30°	17278.5	13786.2	9447.1	8229.6	7703.3	7360.0	7053.3	6884.0	6723.8	6641.4
21649.7	32.5°	17988.0	14042.5	9195.4	7923.0	7392.0	7062.5	6760.4	6604.8	6508.6	6508.6
22830.6	35°	18738.6	14221.0	8861.3	7565.9	7062.5	6746.6	6508.6	6417.1	6407.9	6353.0
24080.1	37.5°	19530.5	14335.5	8453.9	7199.8	6737.5	6440.0	6366.7	6256.9	6165.4	6046.3
25453.2	40°	20363.5	14449.9	7964.2	6819.9	6394.2	6229.4	6197.4	6050.9	5790.0	5497.1
27009.5	42.5°	21375.1	14527.7	7456.1	6440.0	6032.6	5977.7	6023.5	5771.7	5355.2	5135.5
28886.1	45°	22546.8	14655.9	6989.2	6064.7	5661.9	5661.9	5854.1	5524.6	5181.3	5044.0
31028.2	47.5°	24066.4	14953.4	6554.4	5652.7	5318.6	5410.1	5478.8	5227.0	5034.8	4865.5
33637.1	50°	26263.4	15667.4	6105.8	5236.2	5057.7	5240.8	5144.7	4998.2	4773.9	4636.6
37784.0	52.5°	28991.3	16088.5	5707.6	4860.9	4833.4	5016.5	4879.2	4741.9	4572.5	4389.4
40928.4	55°	30849.6	16166.3	5373.5	4586.3	4682.4	4664.1	4613.7	4490.1	4398.6	4156.0
44031.7	57.5°	32927.6	16321.9	5098.9	4421.5	4586.3	4384.9	4366.6	4261.3	4142.3	3977.5
47817.0	60°	35413.0	16564.5	4860.9	4357.4	4503.9	4201.8	4110.2	4069.0	3950.0	3867.6
52371.2	62.5°	38122.7	16784.2	4618.3	4366.6	4407.7	4023.3	3886.0	3872.2	3799.0	3771.5
56646.2	65°	39971.8	16184.6	4316.2	4357.4	4256.7	3840.2	3666.3	3661.7	3602.2	3593.0
58499.9	67.5°	39326.4	14285.1	3908.8	4229.2	4101.1	3657.1	3464.9	3446.6	3368.7	3373.3
56563.8	70°	36095.0	11575.5	3345.9	3913.4	3908.8	3492.3	3254.3	3194.8	3089.5	3107.9
49180.9	72.5°	30034.9	8577.5	2590.6	3387.1	3602.2	3341.3	3011.7	2915.6	2782.9	2801.2
36305.5	75°	21690.9	5831.2	1885.8	2576.9	3135.3	3162.8	2773.7	2608.9	2448.7	2476.2
20207.9	77.5°	11099.5	3304.7	1386.9	1775.9	2462.5	2874.4	2558.6	2338.9	2302.3	2558.6
5826.6	80°	3620.5	1656.9	961.2	1245.0	1615.7	2352.6	2242.8	1991.0	1981.9	2041.4
1222.1	82.5°	1080.2	700.3	617.9	819.3	892.5	1803.4	1936.1	1505.9	1295.3	1364.0
407.4	85°	370.7	338.7	352.4	407.4	425.7	1057.3	1354.8	997.8	942.9	1039.0
91.5	87.5°	87.0	119.0	100.7	91.5	91.5	256.3	526.4	416.5	576.7	384.5
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°
10403.7
8225.0
7474.4
7575.1
7831.4
8051.1
8174.7
8156.4
7955.0
7616.3
7250.1
6916.0
6636.8
6513.2
6339.3
6028.0
5455.9
5140.1
5066.8
4860.9
4622.9
4352.8
4160.6
3922.6
3890.5
3771.5
3588.4
3373.3
3126.2
2796.6
2485.4
2522.0
1753.0
1409.7
1025.3
370.7
0.0

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