

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: P957509

Luminaire Tested: **GALN-SB9D-830-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957509
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9D-830-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 84400 lumens
Efficiency: N/A
Efficacy: 128.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

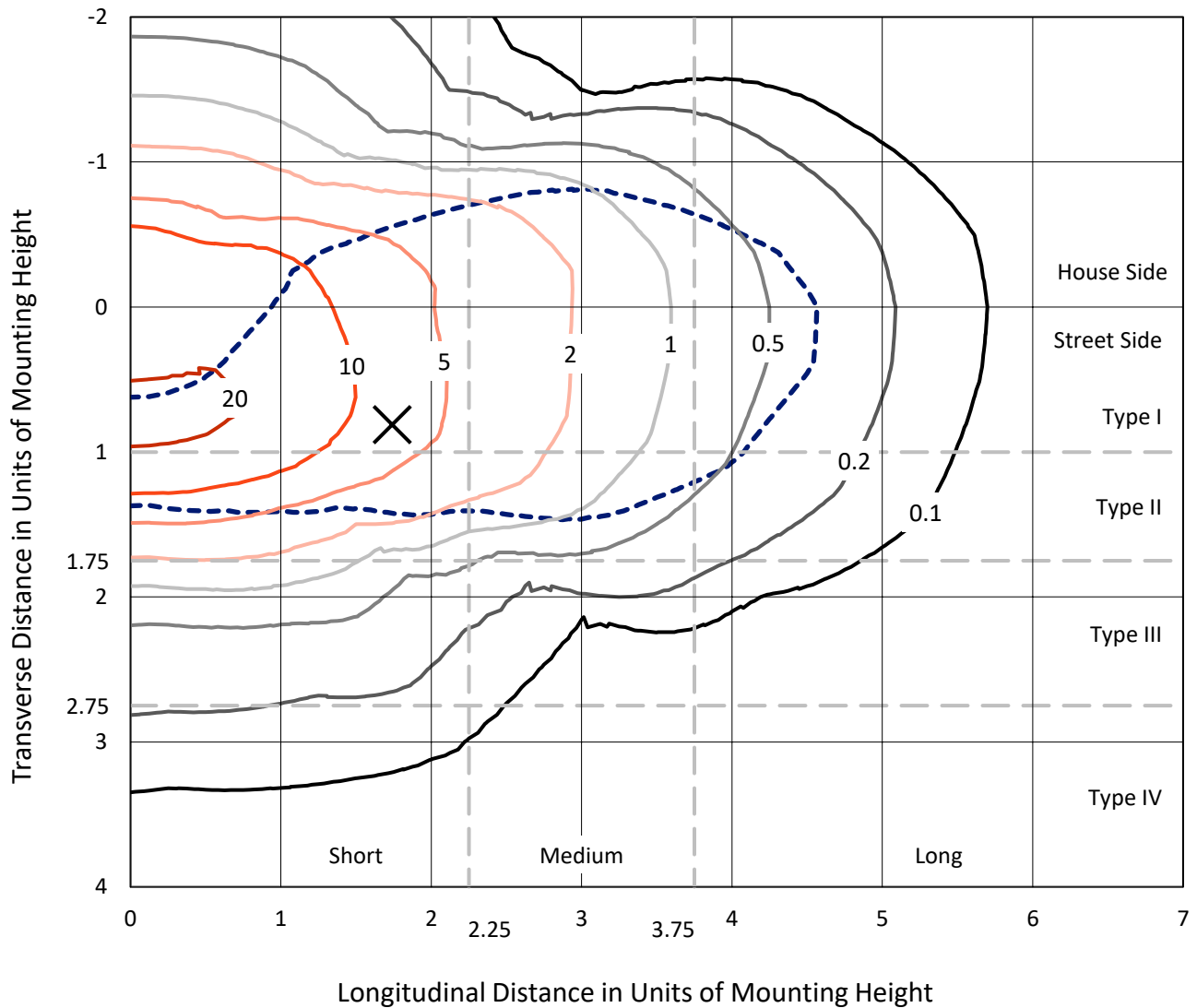
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

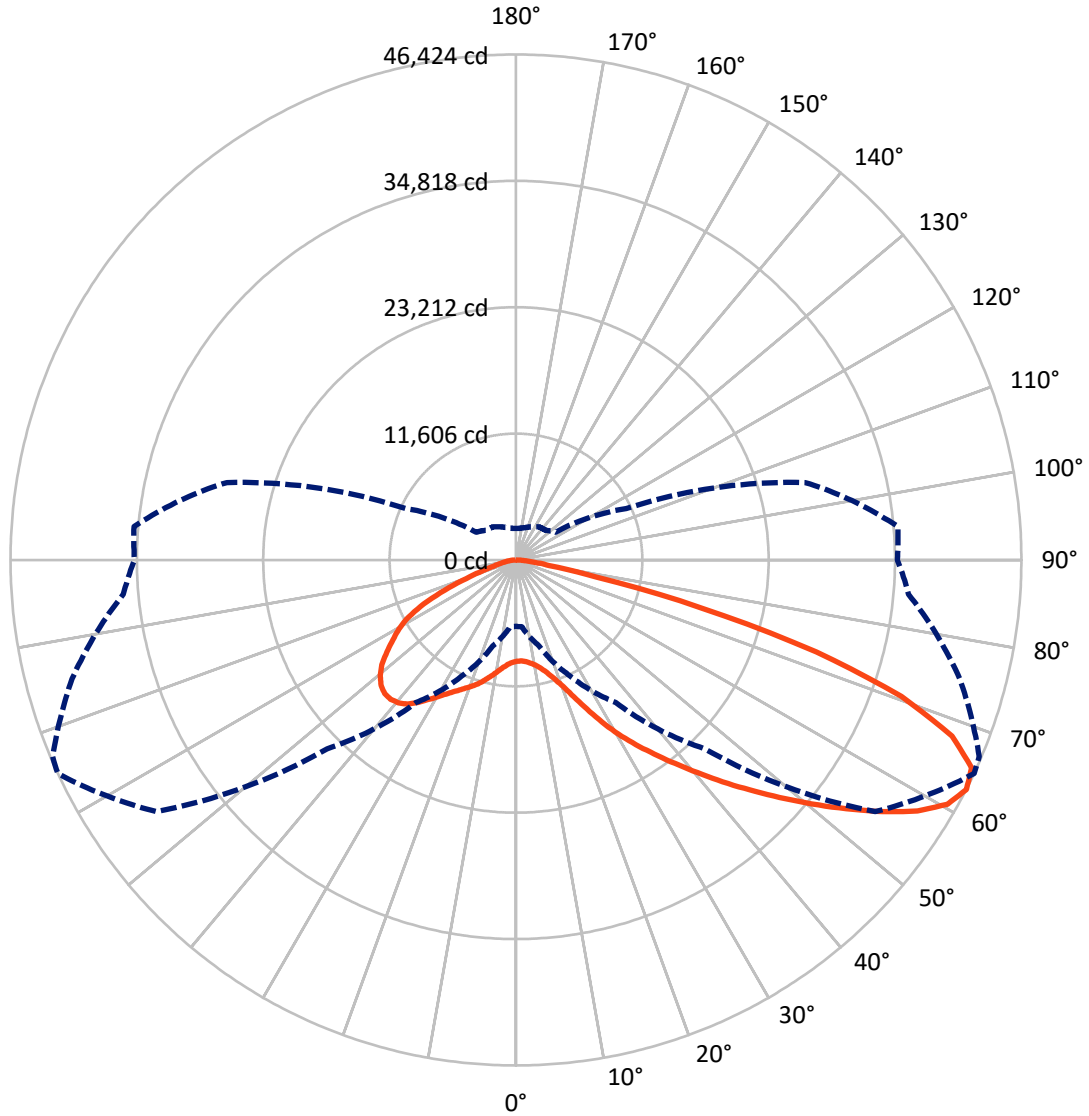
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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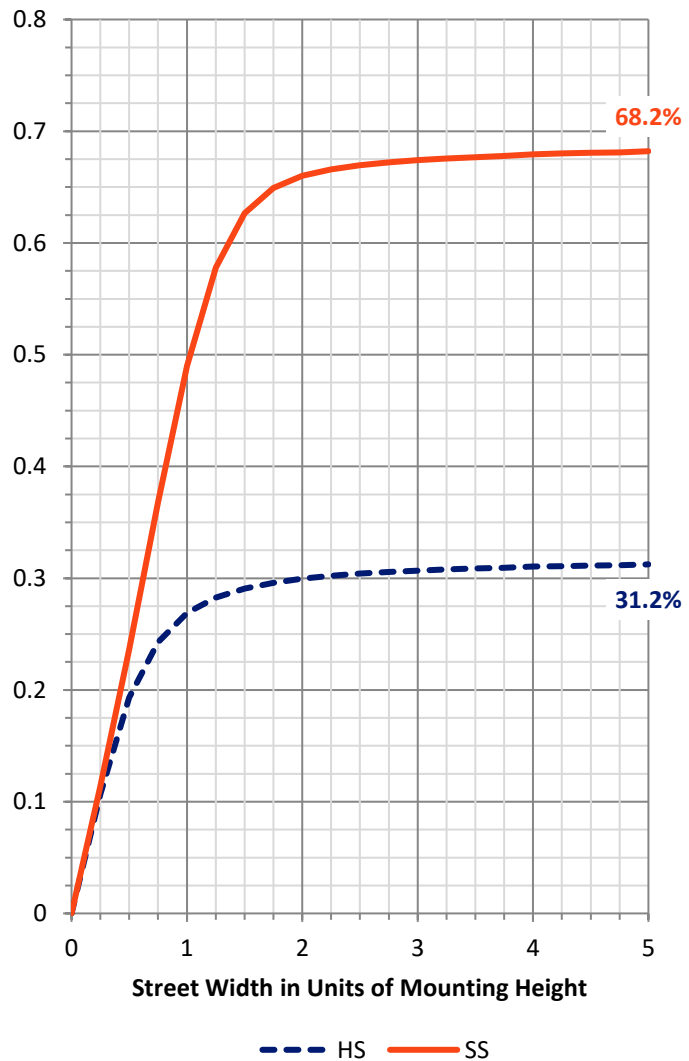
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	26633.0	0.0	26633.0
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	57767.0	0.0	57767.0
	% Fixture	68.4	0.0	68.4
Total	Lumens	84400.0	0.0	84400.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	927.3	1.1
10°-20°	3144.4	3.7
20°-30°	6375.6	7.6
30°-40°	11032.8	13.1
40°-50°	16696.1	19.8
50°-60°	19575.1	23.2
60°-70°	16411.4	19.4
70°-80°	9060.4	10.7
80°-90°	1176.9	1.4
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°	84400.0	100.0
0°-180°	84400.0	100.0

Coefficient of Utilization

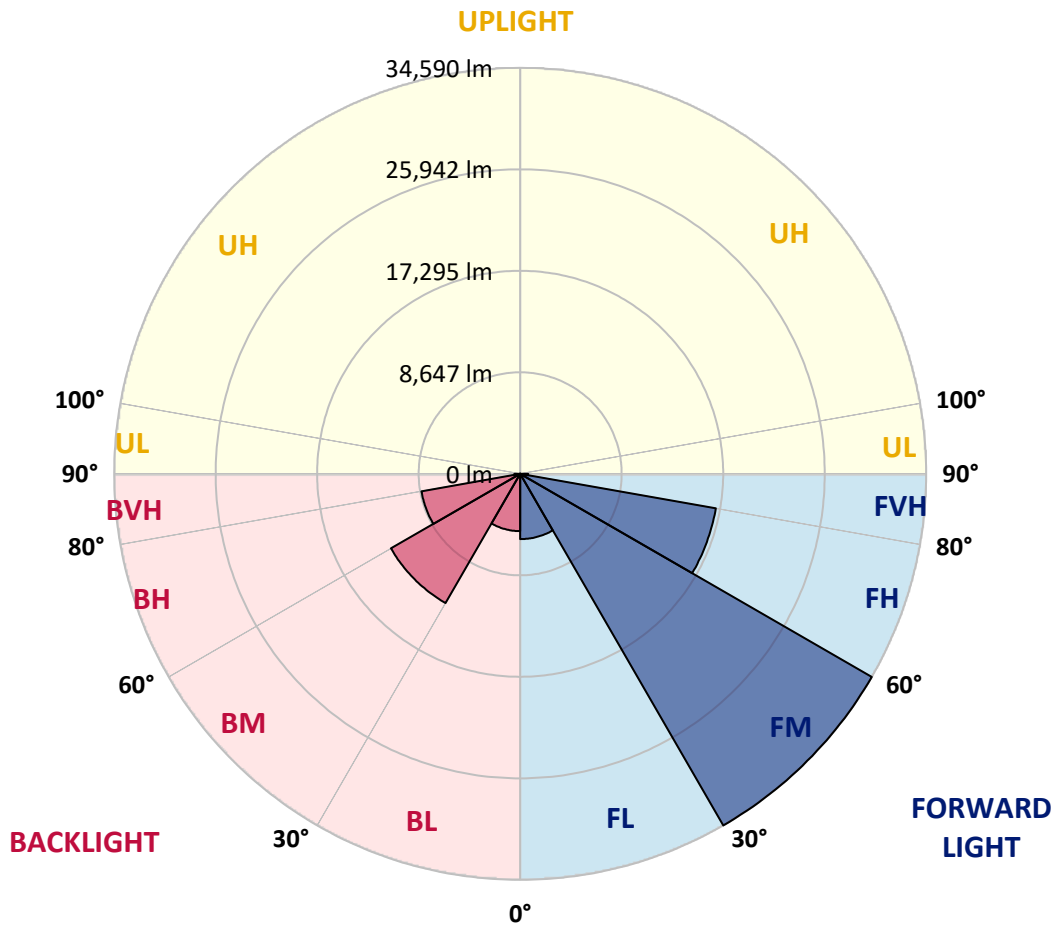


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5563.1	6.6			
FM (30°-60°)	34589.9	41.0			
FH (60°-80°)	16928.2	20.1			G5
FVH (80°-90°)	685.9	0.8			G4/750
BL (0°-30°)	4884.2	5.8	B4/5000		
BM (30°-60°)	12714.2	15.1	B5		
BH (60°-80°)	8543.6	10.1	B5		G5
BVH (80°-90°)	491.0	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5
 Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	9300.5	9300.5	9300.5	9300.5	9300.5	9300.5	9300.5	9300.5	9300.5	9300.5
2.5°	9239.2	9212.9	9234.8	9234.8	9243.6	9239.2	9269.9	9278.6	9291.8	9318.0
5°	9147.3	9142.9	9182.3	9217.3	9252.3	9283.0	9322.4	9379.3	9388.1	9418.7
7.5°	9116.6	9090.3	9151.6	9195.4	9278.6	9353.1	9458.1	9554.5	9593.9	9607.0
10°	9353.1	9309.3	9366.2	9392.5	9462.5	9537.0	9659.6	9812.8	9856.6	9909.2
12.5°	9755.9	9707.7	9790.9	9830.3	9896.0	9961.7	10044.9	10193.8	10215.7	10312.0
15°	10307.6	10250.7	10303.3	10351.4	10460.9	10522.2	10605.4	10749.9	10749.9	10824.3
17.5°	11056.4	10982.0	11021.4	11038.9	11108.9	11200.9	11341.0	11468.0	11533.7	11507.4
20°	12173.0	12081.0	12081.0	11993.5	11967.2	12041.6	12225.5	12400.7	12470.7	12335.0
22.5°	13850.1	13718.7	13644.3	13346.5	13228.3	13237.0	13420.9	13635.5	13692.4	13451.6
25°	15982.5	15776.7	15676.0	15238.1	14971.0	14739.0	14883.4	15159.3	15238.1	14940.4
27.5°	18115.0	18128.1	18031.8	17506.3	17064.1	16639.3	16564.9	16853.9	16937.1	16599.9
30°	21105.7	20794.8	20610.9	19980.3	19349.8	18754.3	18447.8	18566.0	18587.9	18185.0
32.5°	23684.8	23606.0	23211.9	22660.2	21850.1	20917.4	20405.1	20216.8	20181.8	19608.1
35°	26622.9	26579.2	26163.2	25506.4	24630.6	23334.5	22410.6	21872.0	21828.2	21022.5
37.5°	29609.3	29609.3	29202.0	28483.9	27577.5	25957.4	24551.8	23697.9	23557.8	22506.9
40°	31991.3	31846.8	31921.3	31619.1	30581.4	28860.5	26929.5	25690.3	25502.0	24240.9
42.5°	33344.4	33296.2	33742.8	34080.0	33655.2	32280.3	29548.0	27849.0	27586.3	26150.0
45°	33646.5	33593.9	34390.9	35625.7	36221.2	35656.3	32394.2	30121.6	29801.9	28146.8
47.5°	32950.3	32845.2	34014.3	35962.9	37872.0	38866.0	35476.8	32586.8	32122.7	30090.9
50°	30857.2	30756.5	32525.5	35113.4	38428.1	41046.6	38822.2	35201.0	34491.6	32175.2
52.5°	26307.7	26355.8	29127.6	32683.2	37696.9	42404.0	41703.4	37955.2	37101.3	34307.7
55°	20492.7	20597.7	24004.4	27919.1	34771.8	42198.2	43669.5	40792.7	39943.2	36313.2
57.5°	14673.3	15137.4	18329.5	22204.8	29153.9	38936.1	44098.6	43490.0	42666.8	38502.6
60°	9510.7	9593.9	12878.0	16783.8	22200.4	33138.6	43227.2	45534.9	44891.2	40735.7
62.5°	6095.3	6152.2	8153.3	11739.5	15978.1	24516.8	40293.5	46423.8	46226.7	42211.4
65°	4479.5	4435.7	5477.8	7759.2	10763.0	15119.9	34596.7	45994.6	46384.3	43135.3
67.5°	3739.5	3678.2	4190.5	5372.8	7930.0	8586.8	25598.3	43205.4	44632.8	43030.2
70°	3406.7	3354.1	3665.0	3989.1	6187.2	5749.3	12904.2	37561.1	39759.3	41834.8
72.5°	2885.6	2793.7	3218.4	3542.4	4812.3	4409.4	5333.3	28851.7	31531.5	38003.4
75°	2237.6	2176.3	2539.7	3117.7	3616.9	3441.7	3371.7	17519.5	20444.5	29390.3
77.5°	1773.4	1690.2	2023.0	2430.2	3253.4	2596.6	2456.5	7544.6	10443.4	18763.0
80°	1335.5	1261.1	1536.9	1922.3	2500.3	1957.3	1589.5	3078.3	3936.5	9506.3
82.5°	950.2	884.5	1072.8	1410.0	1681.4	1755.9	976.5	1725.2	1939.8	3665.0
85°	608.6	569.2	718.1	884.5	1068.4	1129.7	595.5	902.0	989.6	1510.7
87.5°	332.8	271.5	385.3	411.6	494.8	451.0	284.6	328.4	354.7	547.3
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°
9300.5	0°	9300.5	9300.5	9300.5	9300.5	9300.5	9300.5	9300.5	9300.5	9300.5	9300.5
9318.0	2.5°	9335.5	9348.7	9392.5	9405.6	9436.3	9475.7	9501.9	9528.2	9528.2	9554.5
9458.1	5°	9462.5	9493.2	9585.1	9633.3	9712.1	9790.9	9839.1	9896.0	9931.1	9948.6
9681.5	7.5°	9707.7	9755.9	9887.3	9970.5	10106.2	10215.7	10290.1	10368.9	10386.4	10434.6
9992.4	10°	10040.5	10097.5	10246.3	10404.0	10566.0	10701.7	10771.8	10828.7	10850.6	10859.4
10390.8	12.5°	10421.5	10504.7	10697.3	10890.0	11060.8	11179.0	11196.5	11183.4	11122.1	11069.5
10881.3	15°	10890.0	10964.4	11179.0	11389.2	11555.6	11577.5	11468.0	11397.9	11323.5	11310.4
11428.6	17.5°	11450.5	11489.9	11686.9	11892.7	11905.9	11831.4	11669.4	11603.7	11533.7	11485.5
12142.3	20°	12102.9	12089.8	12229.9	12317.5	12225.5	11997.8	11752.6	11643.2	11573.1	11516.2
13018.1	22.5°	12882.4	12781.6	12764.1	12742.2	12497.0	12019.7	11686.9	11546.8	11437.4	11358.5
14239.8	25°	14016.5	13631.1	13364.0	13215.1	12663.4	11901.5	11476.8	11165.9	10960.1	10824.3
15732.9	27.5°	15435.2	14787.1	14112.8	13749.3	12663.4	11660.7	10968.8	10465.3	10128.1	9988.0
17177.9	30°	16788.2	16109.5	15115.5	14393.0	12632.8	11266.6	10150.0	9449.4	9055.3	8915.2
18412.7	32.5°	17944.2	17204.2	16179.6	15098.0	12558.3	10627.3	9134.1	8359.1	7978.1	7811.7
19634.4	35°	19017.0	18228.8	17248.0	15873.1	12361.3	9690.2	8017.5	7426.4	7001.7	6734.6
20878.0	37.5°	20116.1	19179.0	18259.5	16573.7	12006.6	8595.5	7159.3	6655.7	6156.6	5797.5
22200.4	40°	21311.5	20190.5	19341.0	16989.6	11424.2	7553.4	6493.7	6033.9	5504.1	5123.2
23724.2	42.5°	22708.3	21403.4	20545.2	17204.2	10627.3	6813.4	6060.2	5609.2	5110.0	4799.1
25357.5	45°	24166.4	22739.0	21644.3	17199.8	9738.4	6467.4	5920.1	5473.5	4921.7	4597.7
27034.5	47.5°	25694.6	24135.8	22594.5	16919.6	8967.7	6515.6	5841.3	5180.1	4571.4	4256.2
28729.1	50°	27227.2	25664.0	23514.0	16394.1	8639.3	6410.5	5547.9	4768.5	4050.4	3765.7
30318.6	52.5°	28746.6	27288.5	24306.6	15645.4	8306.5	6020.8	5171.3	4234.3	3835.8	3638.8
31960.7	55°	30274.8	28895.5	25169.2	14555.0	7474.6	5565.4	4540.8	4032.9	3665.0	3485.5
33567.7	57.5°	31807.4	30752.1	25988.0	13464.7	6428.0	5004.9	4194.9	3787.6	3494.3	3341.0
34912.0	60°	33401.3	32875.8	26833.1	12462.0	5394.6	4286.8	3940.9	3590.6	3292.8	3122.1
36203.7	62.5°	35043.3	35214.1	27494.3	11170.3	4444.5	3848.9	3713.2	3354.1	3065.1	2903.1
37272.1	65°	36698.5	37469.2	27927.8	9379.3	3603.7	3433.0	3468.0	3095.8	2802.4	2662.3
38055.9	67.5°	37946.4	39093.7	27805.2	7098.0	2955.7	3038.9	3161.5	2824.3	2548.4	2439.0
37928.9	70°	38086.6	38901.0	26596.7	4860.4	2474.0	2653.5	2819.9	2557.2	2272.6	2193.8
36142.4	72.5°	36221.2	36273.8	23229.4	3174.6	2093.1	2329.5	2460.9	2285.7	2009.9	1931.0
31619.1	75°	31330.1	29999.0	17055.3	2093.1	1751.5	2001.1	2123.7	2001.1	1734.0	1751.5
23658.5	77.5°	23737.3	21245.8	10355.8	1488.8	1462.5	1681.4	1847.8	1760.3	1532.6	1720.9
11897.1	80°	12229.9	11494.3	4619.6	1112.2	1156.0	1344.3	1519.4	1405.6	1212.9	1156.0
2657.9	82.5°	2802.4	3257.8	1821.6	796.9	836.3	967.7	1160.4	1055.3	871.4	735.6
1107.8	85°	980.8	1072.8	805.7	499.2	490.4	604.3	788.2	705.0	591.1	472.9
468.5	87.5°	310.9	407.2	302.1	201.4	210.2	271.5	363.4	332.8	275.9	179.5
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°
9300.5
9554.5
9957.3
10417.1
10837.5
11069.5
11310.4
11489.9
11520.6
11384.8
10876.9
10058.0
8998.4
7894.9
6822.1
5893.8
5197.6
4860.4
4650.3
4300.0
3783.3
3638.8
3468.0
3314.7
3108.9
2898.7
2657.9
2443.4
2198.1
1926.7
1690.2
1515.1
1055.3
726.9
499.2
188.3
0.0

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