

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: P949993

Luminaire Tested: **GALN-SB4C-827-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949993
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4C-827-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26794 lumens
Efficiency: N/A
Efficacy: 133.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

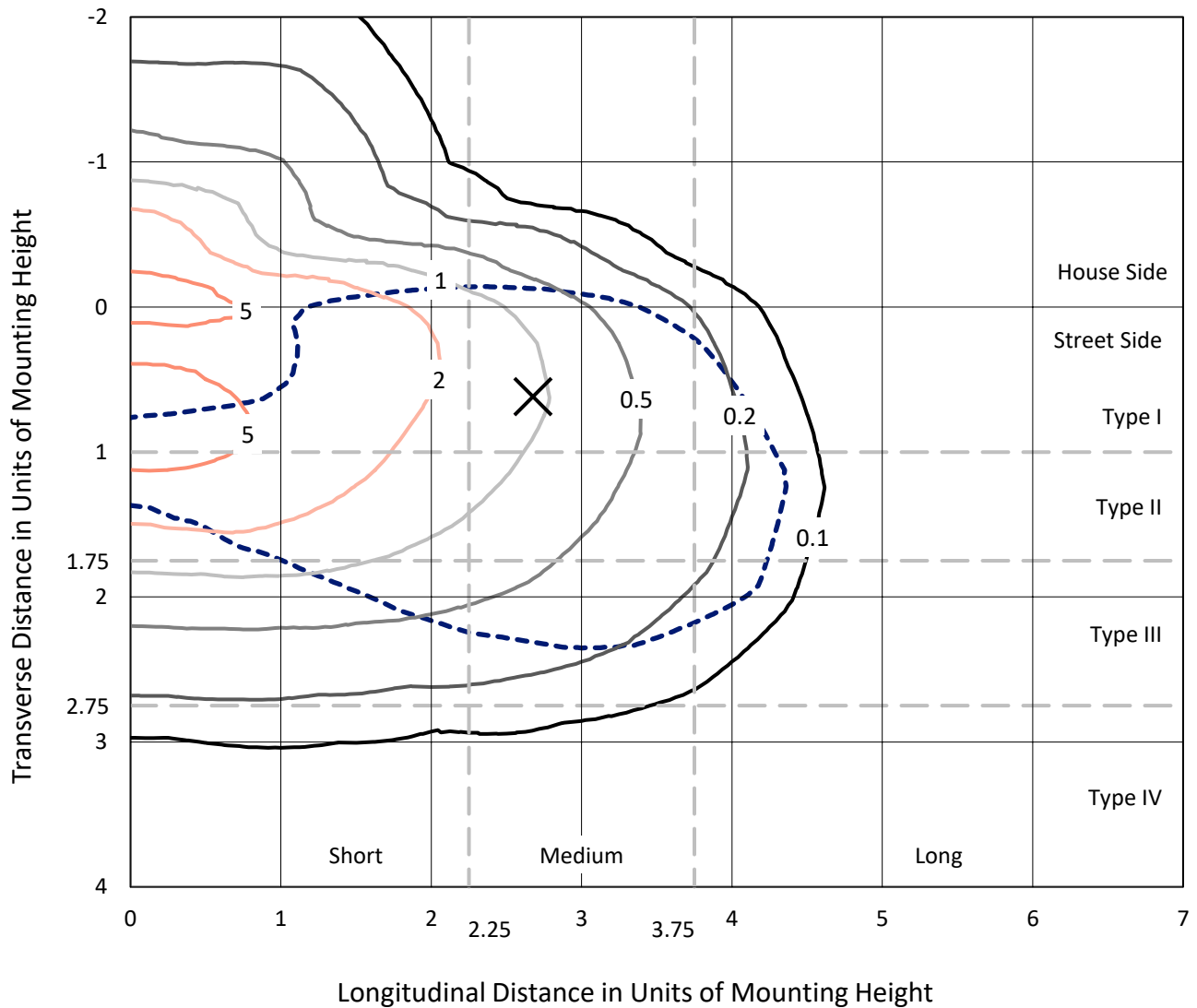
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

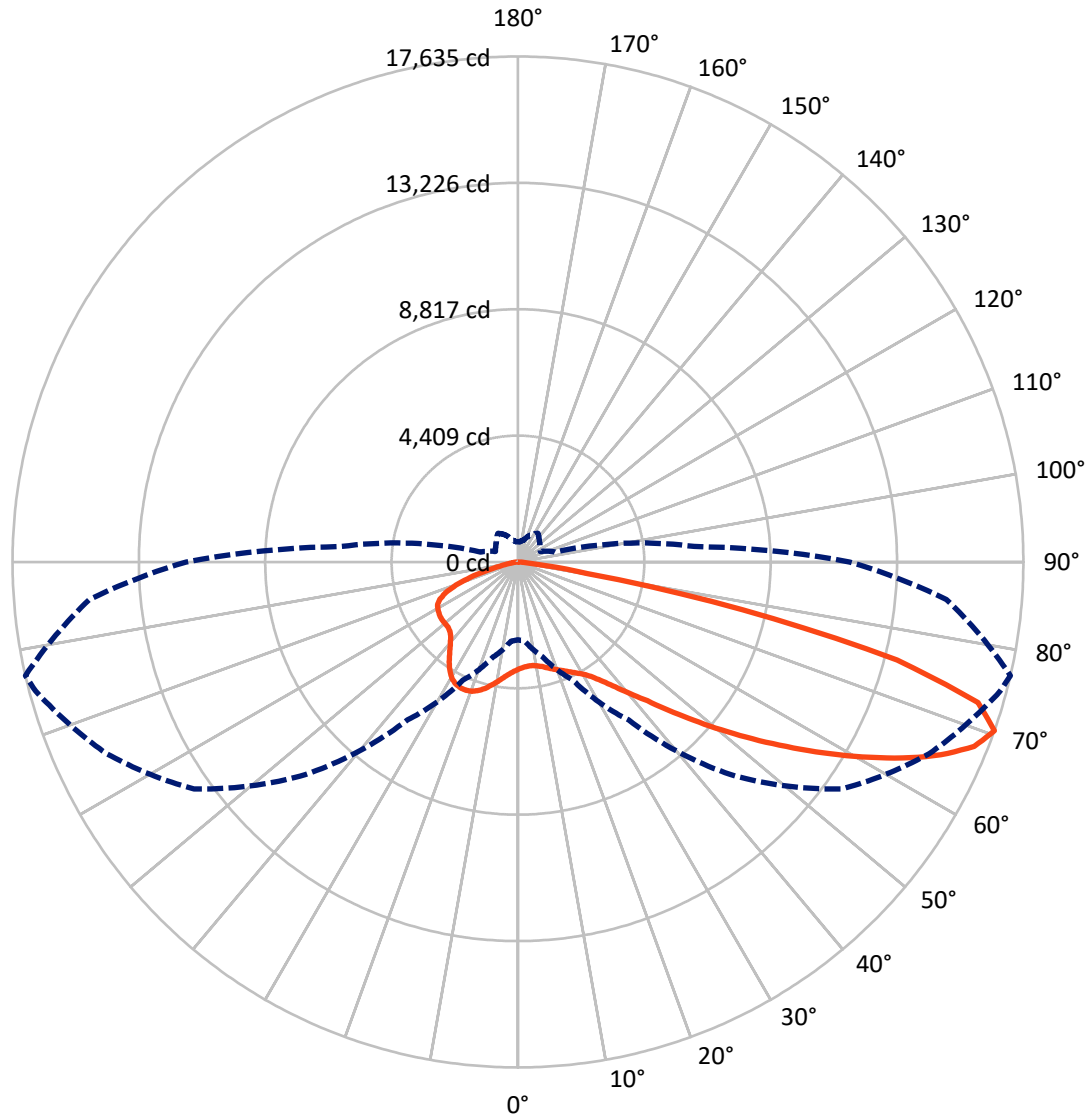
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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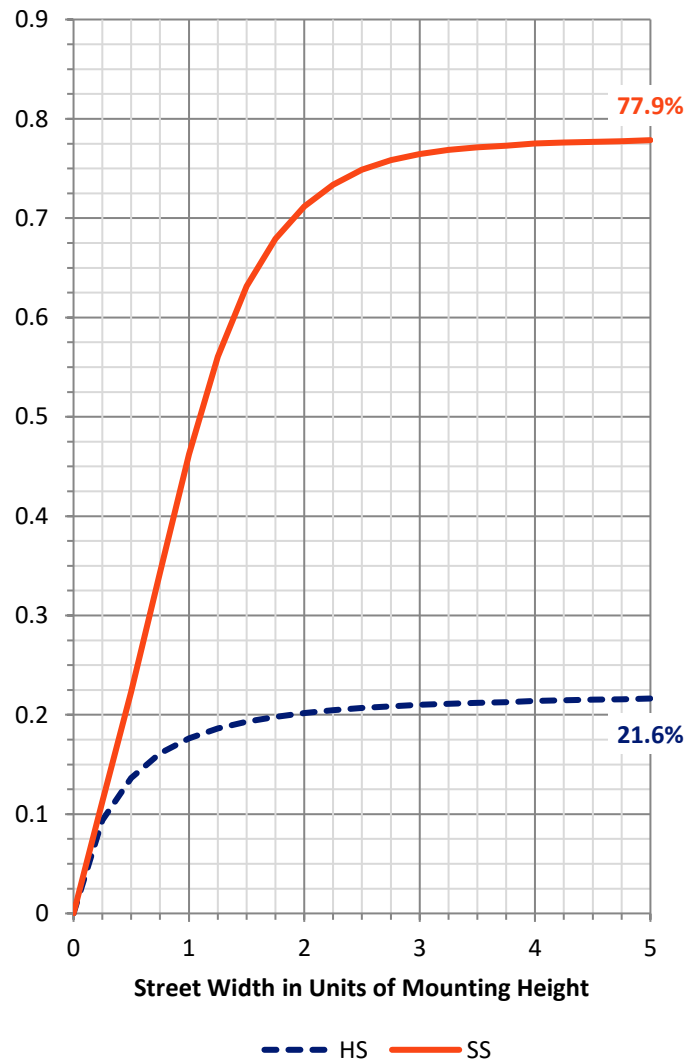
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5867.5	0.0	5867.5
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	20926.5	0.0	20926.5
	% Fixture	78.1	0.0	78.1
Total	Lumens	26794.0	0.0	26794.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	356.5	1.3
10°-20°	1028.9	3.8
20°-30°	1759.6	6.6
30°-40°	2829.6	10.6
40°-50°	4417.7	16.5
50°-60°	5901.0	22.0
60°-70°	6289.6	23.5
70°-80°	3871.8	14.5
80°-90°	339.3	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°	26794.0	100.0
0°-180°	26794.0	100.0



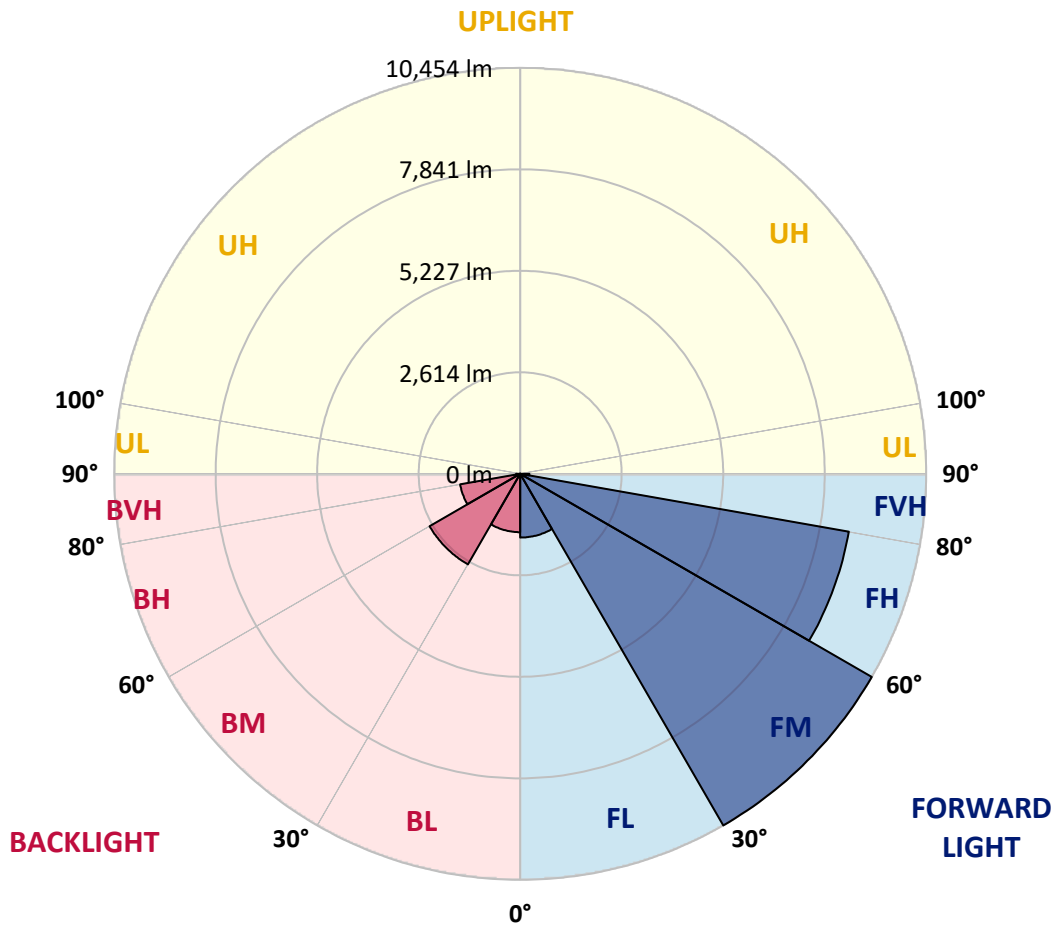
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1641.6	6.1			
FM	(30°-60°)	10454.4	39.0			
FH	(60°-80°)	8593.3	32.1			G4/12000
FVH	(80°-90°)	237.2	0.9			G3/500
BL	(0°-30°)	1503.4	5.6	B3/2500		
BM	(30°-60°)	2693.9	10.1	B3/5000		
BH	(60°-80°)	1568.1	5.9	B3/2500		G3/2500
BVH	(80°-90°)	102.0	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	3738.0	3738.0	3738.0	3738.0	3738.0	3738.0	3738.0	3738.0	3738.0	3738.0
2.5°	3445.7	3444.3	3462.2	3467.7	3500.6	3523.9	3567.8	3614.5	3674.9	3681.7
5°	3246.7	3246.7	3267.3	3289.3	3331.8	3378.5	3445.7	3526.7	3631.0	3647.4
7.5°	3078.0	3088.9	3106.8	3149.3	3198.7	3266.0	3368.9	3484.1	3621.4	3647.4
10°	2942.1	2954.5	2976.4	3010.7	3084.8	3178.1	3312.6	3460.8	3644.7	3685.9
12.5°	2899.6	2911.9	2924.3	2950.3	3018.9	3128.7	3289.3	3471.8	3701.0	3742.1
15°	2998.4	3013.5	3003.9	2997.0	3032.7	3132.8	3300.3	3511.6	3770.9	3829.9
17.5°	3226.2	3231.6	3209.7	3145.2	3139.7	3193.2	3352.4	3566.5	3858.8	3923.3
20°	3593.9	3584.3	3539.0	3411.4	3338.7	3327.7	3441.6	3648.8	3949.3	4017.9
22.5°	4093.4	4082.4	3991.9	3790.2	3628.2	3521.2	3570.6	3755.8	4050.9	4127.7
25°	4716.4	4701.3	4568.2	4293.8	4042.6	3777.8	3746.2	3897.2	4175.8	4247.1
27.5°	5443.7	5431.4	5287.3	4925.0	4562.7	4129.1	3964.4	4063.2	4306.1	4387.1
30°	6225.9	6261.6	6006.3	5616.6	5158.3	4587.4	4258.1	4267.7	4474.9	4547.6
32.5°	7145.3	7207.1	6899.7	6405.7	5779.9	5085.6	4628.6	4553.1	4720.5	4780.9
35°	8056.5	8126.5	7871.2	7325.1	6604.6	5672.9	5015.6	4881.1	5047.1	5113.0
37.5°	8844.1	8937.5	8805.7	8330.9	7487.0	6381.0	5520.6	5266.7	5449.2	5531.5
40°	9465.8	9608.5	9598.9	9302.5	8527.2	7240.0	6161.4	5742.9	5948.7	6037.9
42.5°	9970.8	10094.3	10201.3	10186.2	9612.6	8215.7	6914.8	6361.7	6518.2	6621.1
45°	10319.3	10451.1	10681.6	10930.0	10656.9	9259.9	7777.9	7095.9	7238.6	7393.7
47.5°	10630.8	10780.4	11079.5	11473.4	11543.4	10308.3	8723.4	7950.8	8081.2	8241.7
50°	10658.3	10787.3	11251.1	11809.6	12173.2	11315.6	9738.9	8910.0	9032.1	9203.7
52.5°	9995.5	10198.6	11008.2	11800.0	12462.8	12158.1	10747.5	9907.6	10044.9	10250.7
55°	7758.7	8056.5	10296.0	11432.2	12359.9	12702.9	11706.7	10968.4	11144.0	11359.5
57.5°	6682.9	6813.2	8173.1	10762.6	11890.5	12844.3	12516.3	12040.1	12322.8	12558.8
60°	6006.3	6114.7	6918.9	9721.0	11273.0	12620.6	13142.0	13039.1	13527.6	13808.9
62.5°	5281.8	5384.7	6116.1	8116.9	10482.6	12248.7	13537.2	13961.3	14762.7	15070.0
65°	4562.7	4650.6	5351.8	6820.1	9478.1	11876.8	13741.7	14758.5	15905.7	16224.1
67.5°	3761.3	3834.1	4496.9	5753.8	8256.8	11367.7	13843.3	15385.7	16900.6	17173.7
70°	2714.3	2770.6	3455.3	4550.4	6724.0	10492.2	13802.1	15830.3	17416.6	17634.8
72.5°	1283.1	1333.8	2138.0	2954.5	4749.4	8787.9	12969.1	15477.6	16892.4	16784.0
75°	684.8	728.7	1228.2	1620.6	2508.5	6024.2	10613.0	13332.8	14184.9	13658.0
77.5°	463.8	498.1	760.2	972.9	1145.8	2859.8	6821.5	9231.1	8881.2	8011.2
80°	367.8	403.4	623.0	658.7	554.4	1033.3	2818.6	4273.2	3069.7	2455.0
82.5°	282.7	322.5	524.2	477.5	301.9	424.0	820.6	1351.7	786.3	598.3
85°	172.9	215.4	411.7	304.6	170.2	193.5	278.6	376.0	240.1	200.3
87.5°	87.8	123.5	208.6	111.2	76.8	45.3	74.1	74.1	63.1	54.9
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°
3738.0	0°	3738.0	3738.0	3738.0	3738.0	3738.0	3738.0	3738.0	3738.0	3738.0	3738.0
3718.8	2.5°	3751.7	3779.2	3825.8	3869.7	3904.0	3937.0	3969.9	3987.8	3993.2	4015.2
3739.4	5°	3795.6	3846.4	3937.0	4022.1	4075.6	4108.5	4131.8	4145.6	4148.3	4155.2
3795.6	7.5°	3876.6	3957.6	4083.8	4168.9	4208.7	4205.9	4196.3	4162.0	4148.3	4136.0
3878.0	10°	3990.5	4097.5	4252.6	4311.6	4286.9	4221.0	4136.0	4035.8	3989.1	3943.8
3990.5	12.5°	4131.8	4267.7	4420.0	4417.3	4295.1	4126.4	3928.8	3775.1	3677.6	3607.6
4129.1	15°	4303.4	4459.8	4576.5	4483.1	4215.6	3912.3	3622.7	3422.4	3334.6	3257.7
4269.1	17.5°	4480.4	4647.8	4701.3	4462.6	4015.2	3595.3	3267.3	3109.5	3023.1	2981.9
4420.0	20°	4653.3	4819.3	4775.4	4344.5	3710.6	3235.8	2943.5	2857.0	2839.2	2848.8
4566.8	22.5°	4835.8	4984.0	4790.5	4116.7	3322.2	2868.0	2707.4	2710.2	2750.0	2778.8
4720.5	25°	5022.4	5122.6	4750.7	3787.4	2905.1	2597.7	2557.9	2601.8	2680.0	2736.3
4893.4	27.5°	5202.2	5246.1	4664.3	3379.9	2546.9	2404.2	2411.0	2501.6	2619.6	2697.8
5103.4	30°	5405.3	5355.9	4498.2	2921.5	2298.5	2238.1	2295.8	2401.4	2519.4	2589.4
5368.2	32.5°	5634.5	5450.6	4234.8	2497.5	2122.9	2105.0	2199.7	2268.3	2320.5	2341.1
5719.5	35°	5919.9	5583.7	3897.2	2199.7	1965.1	2007.6	2098.2	2063.9	2043.3	2032.3
6191.6	37.5°	6290.4	5763.4	3502.0	2006.2	1837.4	1937.6	1974.7	1867.6	1786.7	1746.9
6763.8	40°	6736.4	6026.9	3121.9	1856.7	1756.5	1877.2	1812.7	1683.8	1580.8	1524.6
7407.4	42.5°	7231.8	6302.7	2802.1	1744.1	1711.2	1827.8	1693.4	1539.7	1373.6	1355.8
8174.5	45°	7751.8	6586.8	2583.9	1657.7	1689.2	1785.3	1624.7	1376.4	1258.4	1331.1
8944.3	47.5°	8271.9	6847.5	2452.2	1593.2	1678.3	1737.3	1564.4	1285.8	1202.1	1307.8
9769.0	50°	8851.0	7080.8	2393.2	1546.5	1665.9	1718.1	1473.8	1262.5	1143.1	1213.1
10622.6	52.5°	9426.0	7261.9	2349.3	1499.9	1648.1	1703.0	1429.9	1235.0	1071.7	1075.8
11481.6	55°	9999.6	7380.0	2301.3	1438.1	1608.3	1670.0	1425.8	1204.8	1018.2	999.0
12390.0	57.5°	10611.6	7447.2	2242.3	1369.5	1539.7	1586.3	1421.7	1181.5	1001.7	970.2
13319.1	60°	11234.6	7546.0	2165.4	1285.8	1447.7	1486.1	1412.0	1173.3	992.1	938.6
14194.5	62.5°	11793.1	7580.3	2073.5	1206.2	1329.7	1387.3	1391.5	1166.4	966.1	874.1
14921.8	65°	12159.5	7432.1	1912.9	1115.6	1202.1	1285.8	1351.7	1143.1	919.4	827.5
15281.4	67.5°	12144.4	7009.5	1661.8	999.0	1078.6	1173.3	1294.0	1103.3	863.1	769.8
15009.7	70°	11579.0	6175.1	1343.4	863.1	942.7	1052.5	1219.9	1044.3	795.9	706.7
13346.5	72.5°	9931.0	4833.1	975.7	704.0	784.9	927.6	1123.9	972.9	727.3	650.4
9863.7	75°	7094.5	3058.7	661.4	540.7	610.7	786.3	1004.5	889.2	664.2	653.2
4940.1	77.5°	3624.1	1461.4	437.7	395.2	425.4	620.3	843.9	794.5	673.8	539.3
1405.2	80°	1178.8	539.3	275.8	269.0	282.7	413.0	653.2	651.8	510.5	366.4
340.3	82.5°	376.0	231.9	179.8	172.9	166.0	259.4	455.6	516.0	344.4	231.9
122.1	85°	149.6	138.6	105.7	97.4	70.0	122.1	238.8	343.1	256.6	167.4
31.6	87.5°	54.9	54.9	28.8	20.6	15.1	41.2	64.5	102.9	146.8	86.5
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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<u>180°</u>
3738.0
4027.6
4166.1
4138.7
3930.1
3591.2
3249.5
2994.2
2844.7
2785.7
2751.4
2717.1
2605.9
2352.0
2043.3
1756.5
1528.7
1373.6
1369.5
1357.2
1265.2
1104.7
1012.7
974.3
942.7
874.1
827.5
773.9
714.9
646.3
616.1
480.3
323.9
230.5
171.5
85.1
0.0

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