

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: P941129

Luminaire Tested: **GALN-SB4C-735-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941129
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4C-735-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29666 lumens
Efficiency: N/A
Efficacy: 147.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

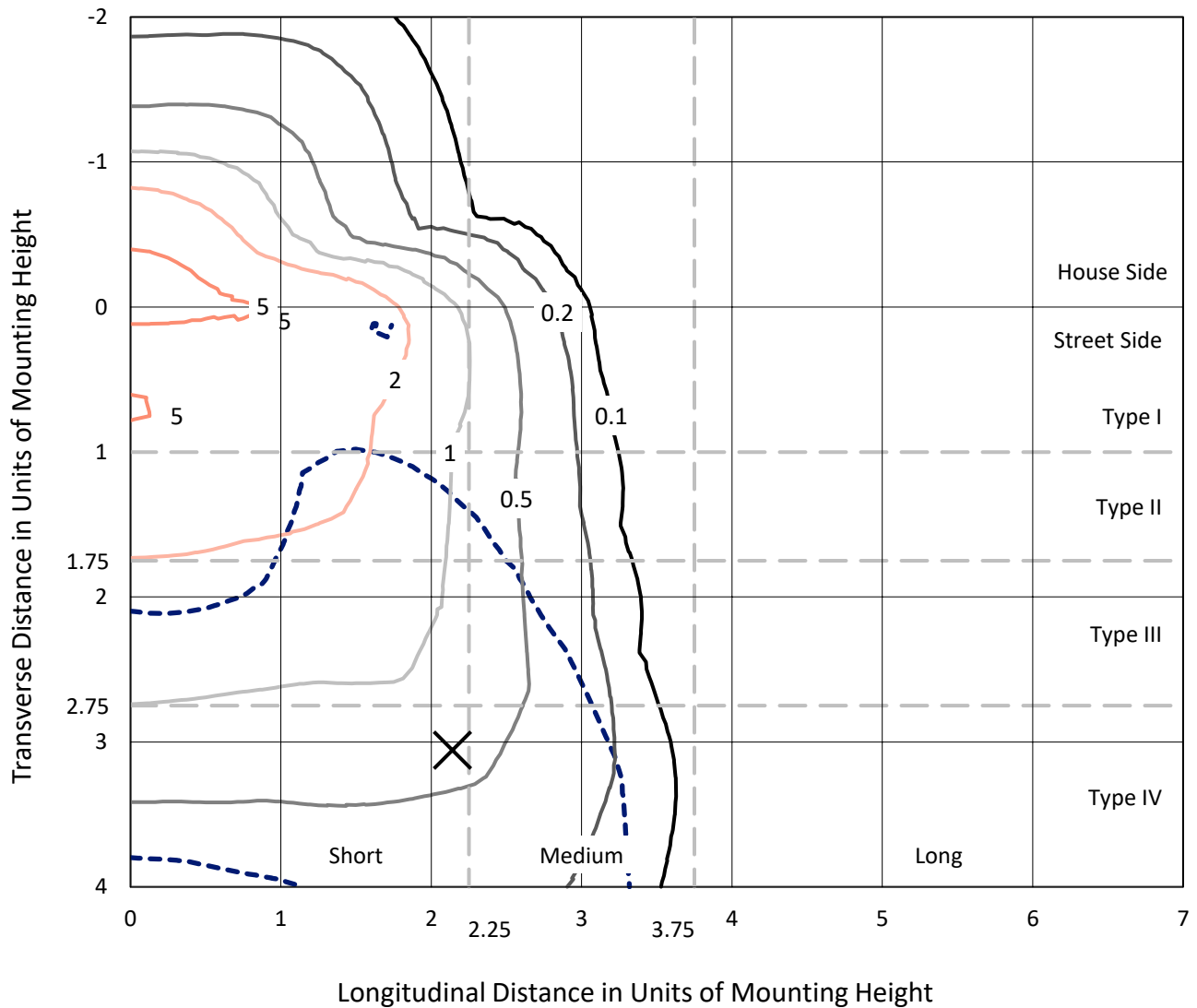
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

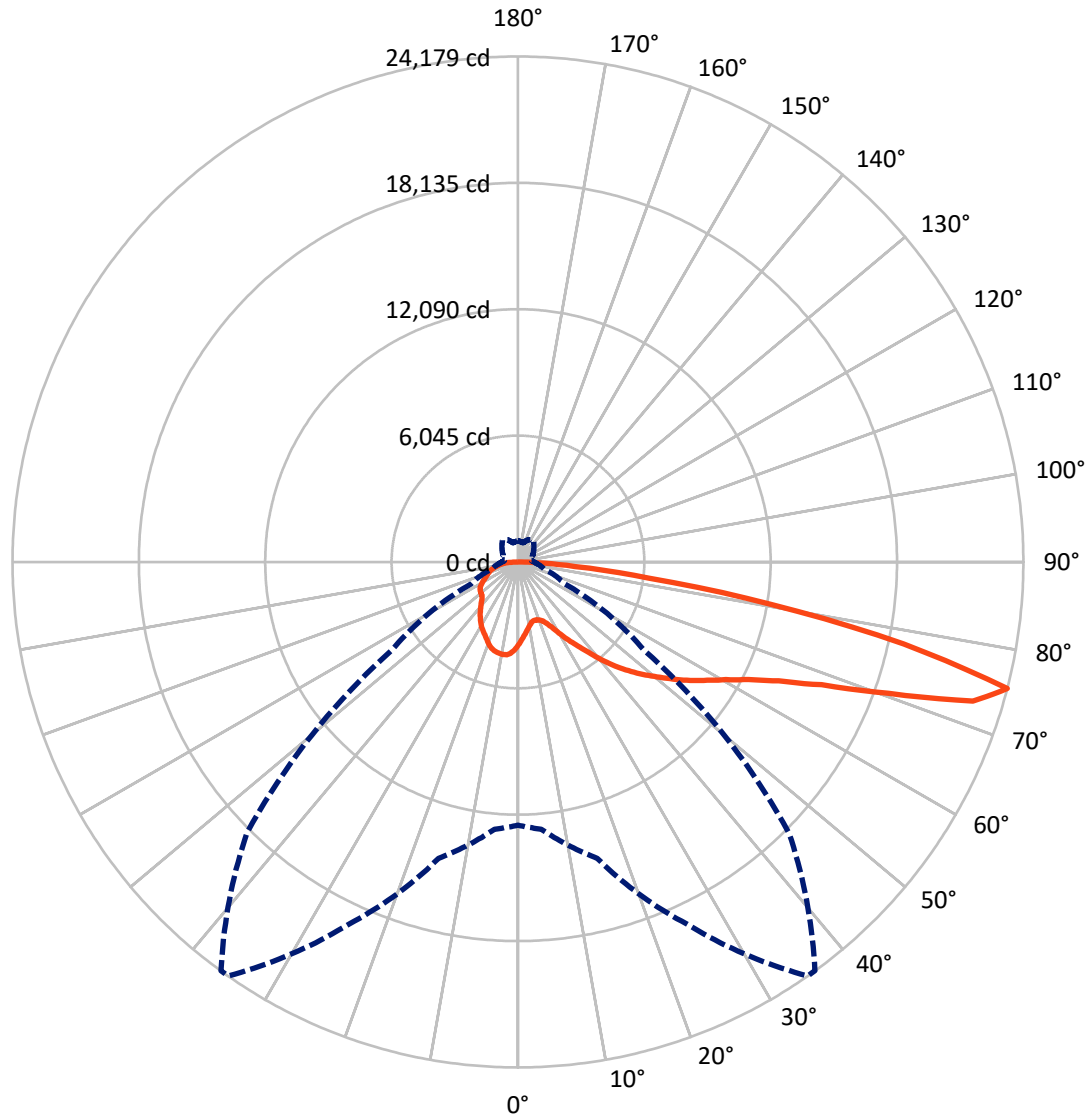
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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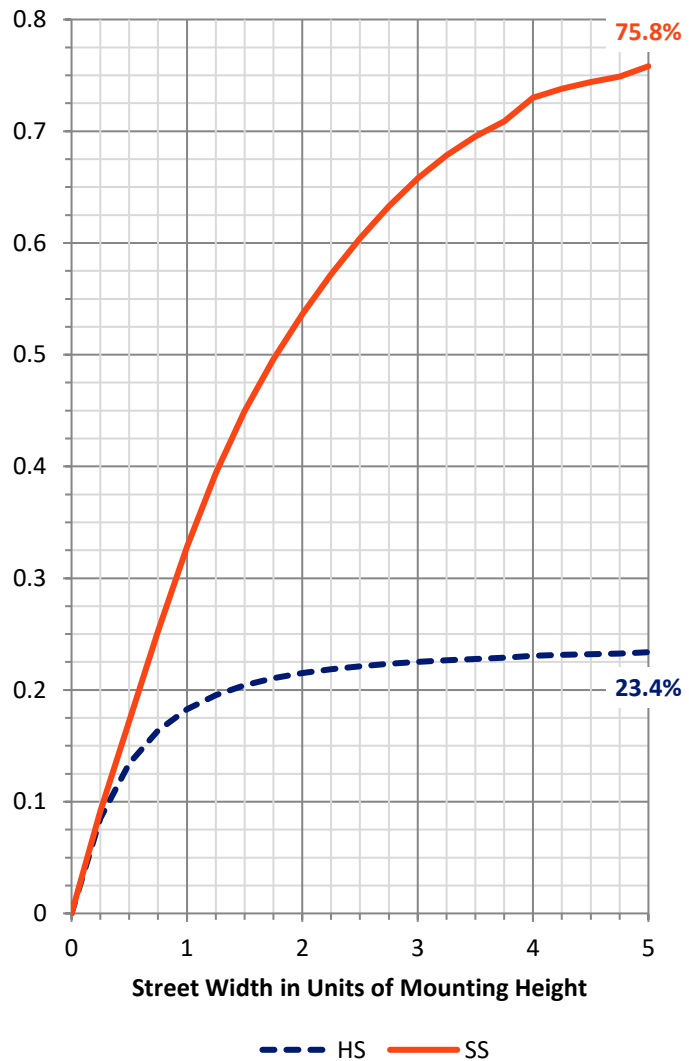
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7059.8	0.0	7059.8
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	22606.2	0.0	22606.2
	% Fixture	76.2	0.0	76.2
Total	Lumens	29666.0	0.0	29666.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	374.3	1.3
10°-20°	1079.6	3.6
20°-30°	1812.9	6.1
30°-40°	2817.6	9.5
40°-50°	4182.0	14.1
50°-60°	5773.5	19.5
60°-70°	7004.6	23.6
70°-80°	5788.8	19.5
80°-90°	832.6	2.8
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°	29666.0	100.0
0°-180°	29666.0	100.0



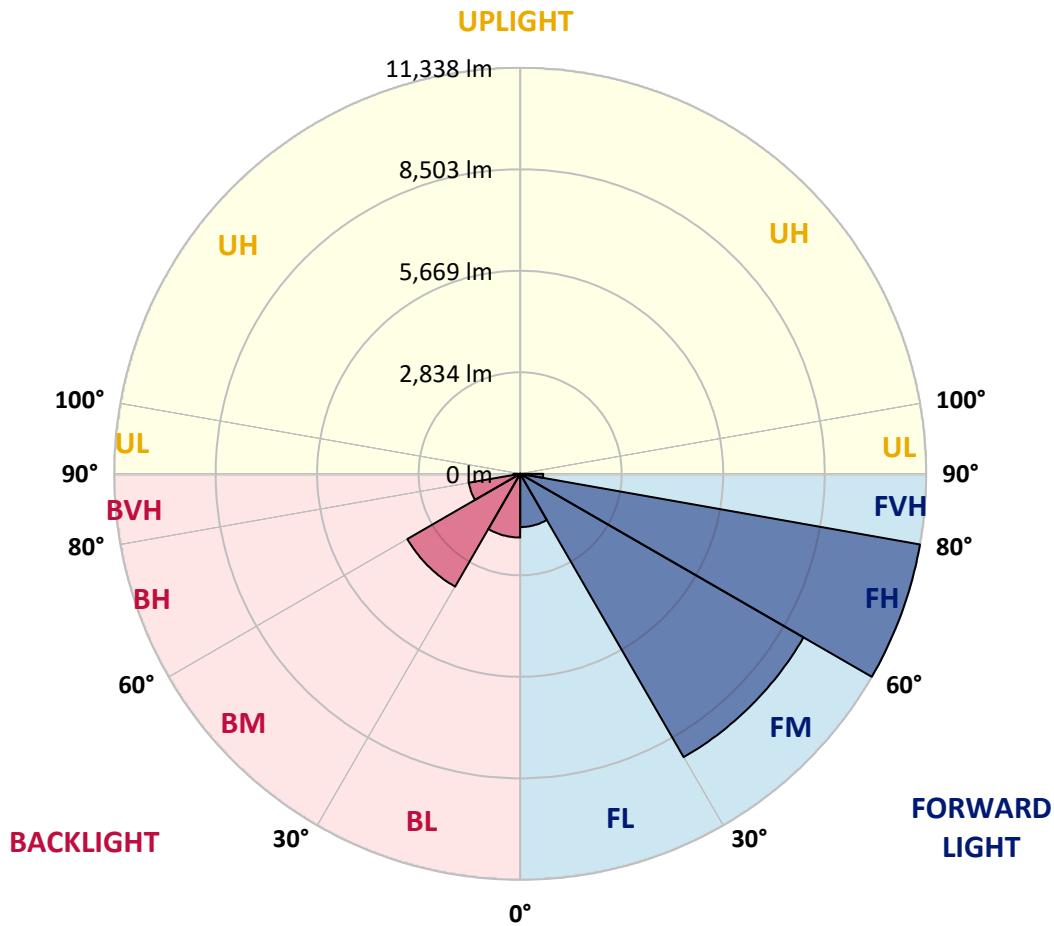
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1487.7	5.0			
FM (30°-60°)	9135.5	30.8			
FH (60°-80°)	11337.9	38.2			G4/12000
FVH (80°-90°)	645.1	2.2			G4/750
BL (0°-30°)	1779.2	6.0	B3/2500		
BM (30°-60°)	3637.6	12.3	B3/5000		
BH (60°-80°)	1455.5	4.9	B3/2500		G3/2500
BVH (80°-90°)	187.5	0.6			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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	3953.2	3953.2	3953.2	3953.2	3953.2	3953.2	3953.2	3953.2	3953.2	3953.2
2.5°	3645.3	3667.7	3677.4	3672.5	3696.6	3693.4	3727.1	3768.8	3826.5	3882.6
5°	3364.6	3388.7	3409.5	3428.8	3475.3	3489.7	3542.6	3622.8	3728.7	3836.1
7.5°	3103.2	3124.1	3156.1	3191.4	3270.0	3284.4	3372.6	3497.7	3645.3	3802.4
10°	2889.9	2910.8	2944.4	2984.5	3082.4	3100.0	3212.3	3379.1	3571.5	3770.4
12.5°	2798.5	2804.9	2824.2	2864.3	2949.3	2960.5	3084.0	3274.8	3499.3	3746.3
15°	2793.7	2806.5	2808.1	2829.0	2899.5	2904.4	3018.2	3207.5	3454.4	3741.5
17.5°	2841.8	2851.4	2837.0	2849.8	2909.2	2917.2	3007.0	3175.4	3440.0	3762.4
20°	2970.1	2978.1	2934.8	2917.2	2960.5	2966.9	3055.1	3196.2	3454.4	3805.7
22.5°	3242.7	3247.6	3141.7	3069.5	3072.7	3076.0	3152.9	3281.2	3510.6	3884.2
25°	3667.7	3664.5	3496.1	3356.6	3276.4	3258.8	3310.1	3419.2	3605.2	3988.5
27.5°	4164.9	4140.8	3972.4	3764.0	3589.1	3563.5	3552.3	3598.8	3739.9	4126.4
30°	4726.2	4703.7	4522.5	4249.9	4007.7	3966.0	3860.2	3836.1	3940.4	4314.0
32.5°	5342.0	5327.6	5111.1	4780.7	4456.8	4408.7	4230.6	4166.5	4248.3	4597.9
35°	5858.4	5845.6	5666.0	5326.0	4929.9	4870.5	4689.3	4617.1	4658.8	4961.9
37.5°	6325.1	6318.7	6164.7	5896.9	5488.0	5415.8	5212.1	5188.1	5180.0	5441.5
40°	6758.1	6742.1	6581.7	6440.6	6137.5	6071.7	5892.1	5871.3	5810.3	6031.6
42.5°	7237.6	7195.9	6963.4	6897.6	6815.9	6761.3	6653.9	6657.1	6522.4	6697.2
45°	7628.9	7604.9	7365.9	7327.4	7415.6	7393.2	7486.2	7510.3	7248.9	7394.8
47.5°	8049.1	8026.7	7824.6	7797.3	8036.3	8042.7	8371.5	8379.5	7957.7	8119.7
50°	8567.1	8535.1	8334.6	8368.3	8636.1	8660.1	9261.5	9207.0	8610.4	8855.8
52.5°	8908.7	8928.0	8884.7	8939.2	9304.8	9327.3	10137.2	9997.7	9256.7	9582.3
55°	9160.5	9199.0	9333.7	9458.8	10010.5	10032.9	10963.1	10749.8	9792.4	10255.9
57.5°	9484.5	9429.9	9681.7	9925.5	10680.8	10740.2	11766.6	11474.7	10267.1	10836.4
60°	9949.5	9911.1	10106.7	10467.5	11431.4	11526.0	12616.5	12127.4	10615.1	11296.7
62.5°	10892.5	10796.3	10826.8	11145.9	12377.6	12502.7	13575.6	12696.7	10788.3	11476.3
65°	12302.2	12137.0	11983.1	12204.4	13710.3	13833.8	14658.1	13144.2	10724.1	11128.3
67.5°	14077.5	13914.0	13724.7	13933.2	15673.3	15771.1	15994.0	13396.0	10219.0	9787.6
70°	15541.8	15480.8	15706.9	16564.9	18808.5	18811.8	17706.8	13187.5	8835.0	6939.3
72.5°	15347.7	15310.8	16502.4	19155.0	22760.1	22675.1	19328.2	11609.4	5951.4	3130.5
75°	12590.9	12829.8	14675.7	19108.4	24179.4	24168.2	18335.4	7380.4	2461.7	1297.4
77.5°	6751.7	7130.2	9527.8	14108.0	18875.9	19159.8	12890.8	2582.0	1056.9	830.7
80°	2201.9	2532.3	3797.6	7183.1	12265.3	12212.4	5524.9	1013.6	723.3	588.6
82.5°	935.0	973.5	1696.7	3391.9	6294.6	6196.8	1759.3	582.2	508.4	402.5
85°	365.7	409.0	748.9	1568.4	2726.3	2667.0	635.1	288.7	325.6	263.0
87.5°	120.3	145.9	267.8	537.2	848.4	817.9	155.6	99.4	141.1	120.3
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°
3953.2	0°	3953.2	3953.2	3953.2	3953.2	3953.2	3953.2	3953.2	3953.2	3953.2	3953.2
3964.4	2.5°	3986.9	4012.5	4043.0	4087.9	4126.4	4158.5	4192.2	4213.0	4221.0	4245.1
3970.8	5°	4015.7	4071.9	4147.2	4221.0	4293.2	4336.5	4375.0	4394.2	4411.9	4424.7
3988.5	7.5°	4063.9	4136.0	4254.7	4350.9	4411.9	4447.1	4472.8	4466.4	4472.8	4476.0
4007.7	10°	4105.5	4206.6	4347.7	4439.1	4485.6	4487.2	4480.8	4458.4	4447.1	4448.7
4036.6	12.5°	4155.3	4267.5	4419.9	4496.9	4509.7	4474.4	4447.1	4408.7	4394.2	4387.8
4079.9	15°	4222.6	4350.9	4498.5	4527.3	4495.3	4450.4	4403.8	4341.3	4309.2	4283.6
4153.7	17.5°	4304.4	4445.5	4559.4	4538.6	4469.6	4395.8	4320.4	4225.8	4160.1	4132.8
4254.7	20°	4418.3	4545.0	4605.9	4514.5	4410.3	4298.0	4169.7	4054.2	3993.3	3966.0
4383.0	22.5°	4556.2	4678.1	4650.8	4472.8	4325.3	4145.6	3985.3	3900.3	3869.8	3850.6
4548.2	25°	4721.4	4825.6	4682.9	4411.9	4185.7	3943.6	3820.1	3792.8	3778.4	3764.0
4750.2	27.5°	4936.3	4992.4	4706.9	4322.1	3967.6	3728.7	3683.8	3688.6	3683.8	3659.7
5030.9	30°	5220.1	5208.9	4729.4	4176.1	3717.4	3534.6	3537.8	3558.7	3561.9	3545.8
5422.2	32.5°	5593.8	5479.9	4740.6	3986.9	3478.5	3364.6	3367.8	3390.3	3406.3	3379.1
5933.8	35°	6046.1	5795.9	4723.0	3749.5	3294.1	3202.6	3178.6	3185.0	3189.8	3164.2
6554.4	37.5°	6573.7	6150.3	4644.4	3486.5	3141.7	3043.9	2992.6	2949.3	2923.6	2899.5
7256.9	40°	7152.6	6536.8	4500.1	3229.9	2971.7	2875.5	2798.5	2716.7	2630.1	2598.0
8001.0	42.5°	7758.8	6934.5	4325.3	2984.5	2776.1	2697.5	2615.7	2497.0	2367.1	2301.4
8774.0	45°	8387.5	7341.9	4153.7	2742.4	2575.6	2541.9	2447.3	2304.6	2163.4	2080.0
9548.6	47.5°	9003.3	7726.8	3901.9	2498.6	2388.0	2424.8	2351.1	2219.6	2062.4	1930.9
10316.8	50°	9591.9	8087.6	3489.7	2251.6	2235.6	2389.6	2319.0	2129.8	1950.1	1781.7
11070.6	52.5°	10175.7	8379.5	2962.1	2027.1	2153.8	2379.9	2277.3	2068.8	1849.1	1672.7
11779.4	55°	10671.2	8530.2	2453.7	1834.7	2035.1	2298.1	2227.6	1996.6	1706.4	1518.7
12265.3	57.5°	10953.5	8408.4	2030.3	1645.4	1871.6	2163.4	2142.6	1842.7	1536.4	1392.0
12359.9	60°	10831.6	7914.4	1683.9	1480.2	1716.0	2017.5	1995.0	1690.3	1406.5	1270.2
11853.2	62.5°	10159.6	6973.0	1409.7	1335.9	1574.9	1868.3	1847.5	1573.3	1307.0	1175.5
10507.6	65°	8806.1	5672.4	1196.4	1215.6	1432.1	1688.7	1719.2	1475.4	1228.5	1100.2
8129.3	67.5°	6716.4	4108.8	1029.6	1111.4	1292.6	1512.3	1600.5	1404.9	1162.7	1040.8
4703.7	70°	3828.1	2333.4	888.5	1010.4	1169.1	1348.7	1509.1	1348.7	1092.1	991.1
1762.5	72.5°	1451.4	1071.3	768.2	909.3	1050.4	1210.8	1408.1	1260.5	1010.4	935.0
910.9	75°	774.6	652.7	646.3	790.6	914.1	1076.1	1281.4	1173.9	949.4	987.9
630.3	77.5°	527.6	461.9	540.5	676.8	765.0	927.0	1146.7	1042.4	822.7	819.5
436.2	80°	365.7	327.2	439.4	545.3	591.8	779.4	1000.7	894.9	670.4	625.5
269.4	82.5°	219.7	213.3	328.8	407.3	418.6	601.4	829.1	750.5	548.5	477.9
160.4	85°	120.3	126.7	210.1	239.0	243.8	420.2	649.5	580.6	421.8	354.4
57.7	87.5°	33.7	43.3	77.0	94.6	117.1	218.1	386.5	344.8	211.7	147.5
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°
3953.2
4243.5
4427.9
4480.8
4452.0
4384.6
4291.6
4134.4
3962.8
3853.8
3764.0
3664.5
3553.9
3391.9
3181.8
2915.6
2612.5
2309.4
2073.6
1916.5
1767.3
1653.4
1502.7
1372.8
1250.9
1154.7
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1021.6
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1020.0
755.4
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481.1
357.6
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0.0

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