

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: P941412

Luminaire Tested: **GALN-SB4D-940-U-SL4**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P941412  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB4D-940-U-SL4  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

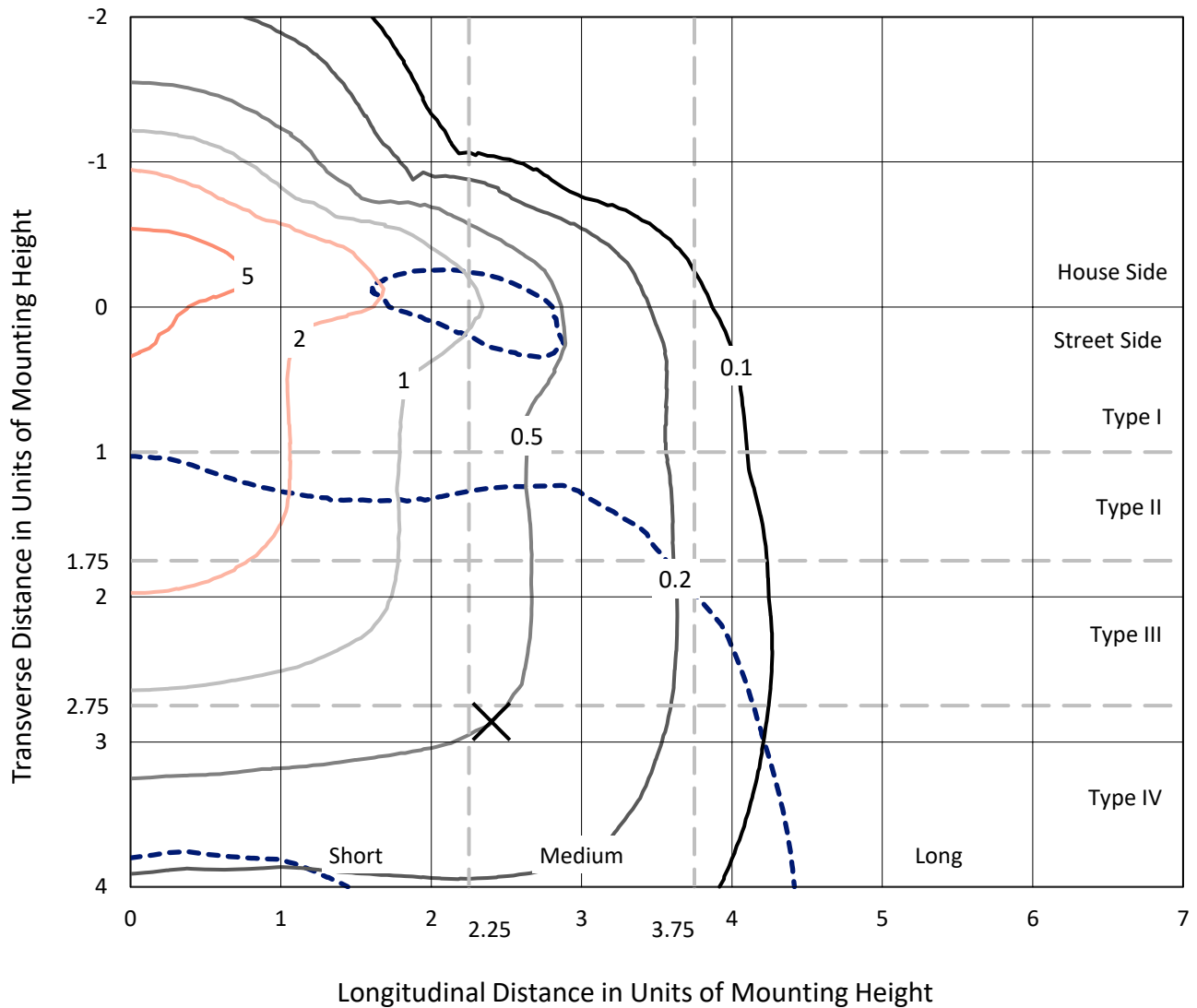
Lumens per Lamp: N/A  
Luminaire Lumens: 29295 lumens  
Efficiency: N/A  
Efficacy: 99.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 293.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

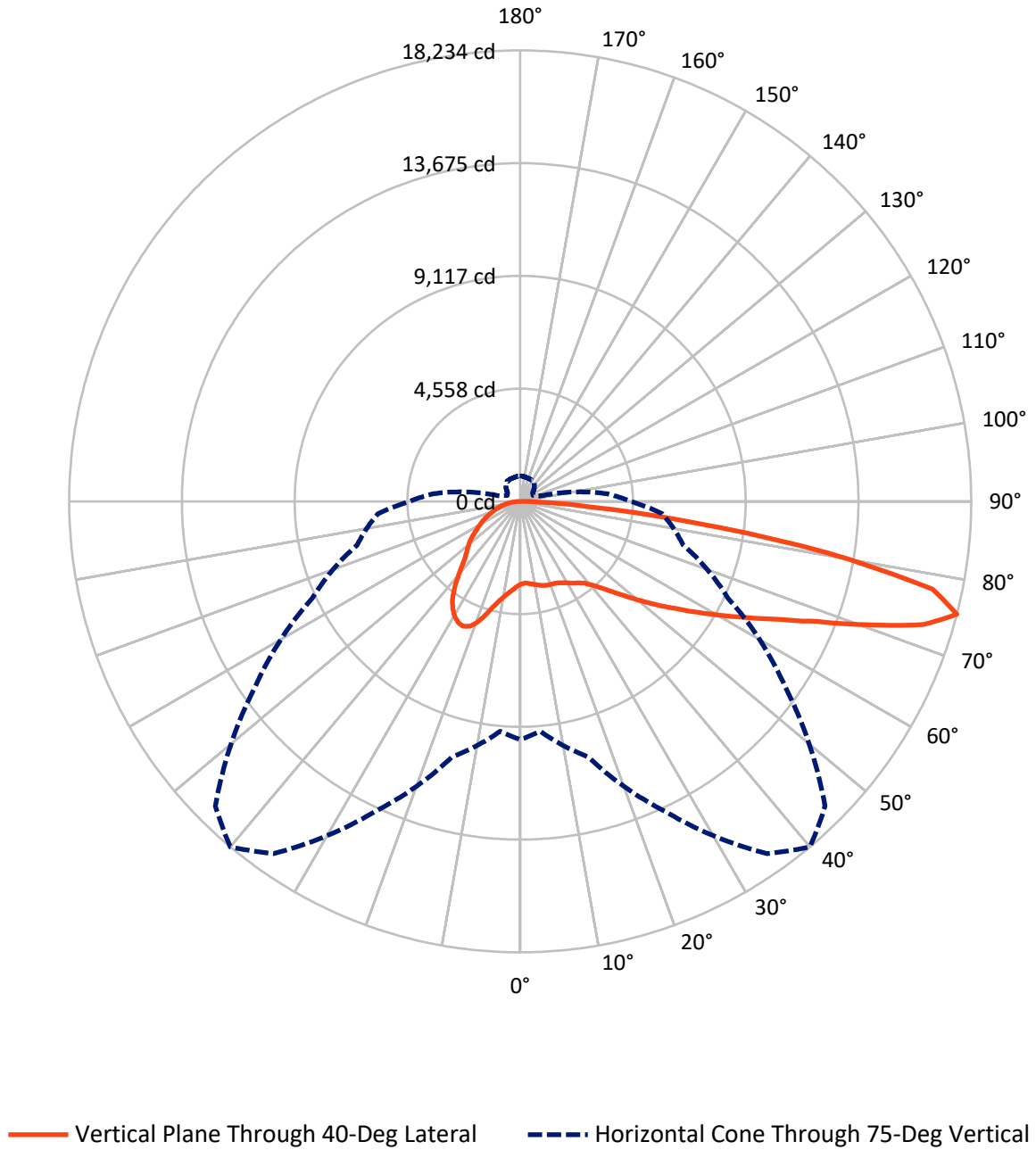
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9076.6	0.0	9076.6
	% Fixture	31.0	0.0	31.0
<b>Street Side</b>	Lumens	20218.4	0.0	20218.4
	% Fixture	69.0	0.0	69.0
<b>Total</b>	Lumens	29295.0	0.0	29295.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	334.4	1.1
10°-20°	1122.7	3.8
20°-30°	2049.9	7.0
30°-40°	2907.4	9.9
40°-50°	3925.8	13.4
50°-60°	5281.3	18.0
60°-70°	6703.2	22.9
70°-80°	6083.5	20.8
80°-90°	886.8	3.0
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°	29295.0	100.0
0°-180°	29295.0	100.0

**Coefficient of Utilization**



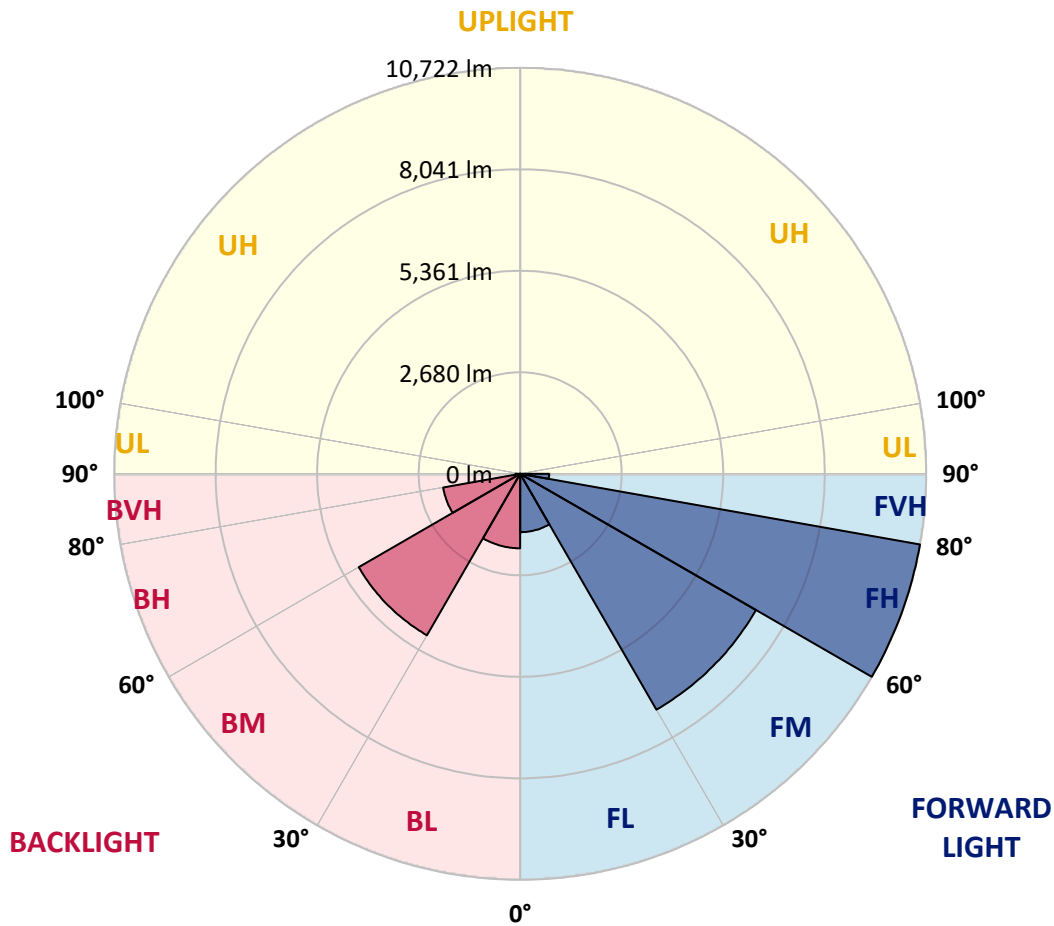
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1540.9	5.3			
FM	(30°-60°)	7191.3	24.5			
FH	(60°-80°)	10721.5	36.6			G4/12000
FVH	(80°-90°)	764.7	2.6			G5
BL	(0°-30°)	1966.1	6.7	B3/2500		
BM	(30°-60°)	4923.2	16.8	B3/5000		
BH	(60°-80°)	2065.2	7.0	B3/2500		G3/2500
BVH	(80°-90°)	122.1	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-G5**

Type IV Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	3349.9	3349.9	3349.9	3349.9	3349.9	3349.9	3349.9	3349.9	3349.9	3349.9
2.5°	3298.6	3317.3	3312.6	3306.4	3306.4	3308.0	3306.4	3317.3	3328.2	3339.0
5°	3332.8	3351.5	3342.2	3334.4	3328.2	3326.6	3322.0	3320.4	3326.6	3340.6
7.5°	3399.6	3418.3	3404.3	3390.3	3377.9	3371.7	3365.5	3356.1	3351.5	3359.2
10°	3474.2	3492.9	3475.8	3450.9	3430.7	3422.9	3416.7	3407.4	3401.2	3405.9
12.5°	3548.8	3567.4	3544.1	3510.0	3483.5	3478.9	3471.1	3468.0	3466.5	3464.9
15°	3618.7	3634.3	3604.7	3564.3	3536.4	3528.6	3520.8	3525.5	3533.3	3542.6
17.5°	3673.1	3688.6	3645.1	3592.3	3565.9	3562.8	3558.1	3573.7	3595.4	3618.7
20°	3722.8	3738.4	3682.4	3611.0	3579.9	3579.9	3581.4	3614.1	3645.1	3679.3
22.5°	3792.7	3805.2	3736.8	3638.9	3593.9	3597.0	3609.4	3642.0	3680.9	3727.5
25°	3896.8	3906.2	3822.3	3691.8	3640.5	3649.8	3660.7	3676.2	3713.5	3767.9
27.5°	4064.7	4072.4	3962.1	3785.0	3707.3	3722.8	3738.4	3727.5	3744.6	3791.2
30°	4300.8	4305.5	4165.7	3931.0	3820.7	3828.5	3831.6	3786.5	3753.9	3791.2
32.5°	4580.5	4579.0	4412.7	4108.2	3949.7	3941.9	3915.5	3826.9	3750.8	3783.4
35°	5014.0	4996.9	4782.5	4356.8	4095.7	4047.6	3985.4	3872.0	3766.3	3775.7
37.5°	5731.8	5679.0	5382.2	4763.9	4313.3	4190.5	4098.8	3945.0	3800.5	3772.5
40°	6541.4	6474.5	6148.3	5321.7	4639.5	4442.2	4294.6	4049.1	3856.5	3786.5
42.5°	7501.6	7406.8	7055.7	5978.9	5052.9	4767.0	4544.8	4181.2	3938.8	3831.6
45°	8680.9	8555.0	8057.8	6720.0	5573.4	5192.7	4895.9	4381.6	4064.7	3918.6
47.5°	9872.6	9903.7	9196.7	7568.4	6198.0	5717.9	5335.6	4683.1	4248.0	4058.4
50°	11139.0	11160.7	10329.4	8508.4	6906.5	6311.4	5829.7	5020.2	4502.8	4257.3
52.5°	12127.2	12130.3	11358.0	9492.0	7644.5	6964.0	6362.7	5405.6	4798.0	4521.5
55°	12745.6	12737.8	12079.0	10422.7	8492.9	7649.2	6953.1	5843.7	5158.5	4832.2
57.5°	13194.6	13171.3	12576.2	11222.9	9397.2	8458.7	7621.2	6340.9	5584.2	5202.0
60°	13365.5	13351.5	12913.4	11914.3	10348.1	9353.7	8391.9	6897.2	6067.5	5638.6
62.5°	13430.8	13457.2	13244.3	12584.0	11365.8	10345.0	9238.7	7562.2	6611.3	6132.7
65°	13660.7	13708.9	13665.4	13460.3	12515.6	11505.6	10362.1	8353.1	7204.8	6662.6
67.5°	14116.0	14164.1	14182.8	14509.1	13920.2	12952.2	11763.6	9338.1	7899.4	7212.6
70°	14105.1	14091.1	14420.5	15343.5	15679.1	14955.0	13653.0	10550.1	8727.5	7669.4
72.5°	12838.8	12726.9	13505.3	15334.1	17142.7	17046.4	15960.3	12113.2	9442.2	7725.3
75°	9631.8	9333.5	10708.6	13819.2	17386.7	18233.5	17427.1	13082.7	9272.9	6825.7
77.5°	4119.0	3819.2	5439.7	10230.0	15561.0	17044.8	16081.5	11414.0	7402.1	4513.7
80°	1078.3	1076.8	1643.9	4638.0	10582.7	12587.1	11042.6	7371.1	4229.4	1612.8
82.5°	445.9	435.1	604.4	1803.9	5170.9	7063.4	5764.5	3287.8	1527.4	436.6
85°	166.3	164.7	293.7	623.1	1824.1	2913.3	2108.5	840.6	380.7	212.9
87.5°	46.6	45.1	63.7	216.0	444.4	674.3	360.5	138.3	107.2	83.9
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°
3349.9	0°	3349.9	3349.9	3349.9	3349.9	3349.9	3349.9	3349.9	3349.9	3349.9	3349.9
3356.1	2.5°	3360.8	3368.6	3382.6	3393.4	3407.4	3422.9	3444.7	3458.7	3472.7	3482.0
3363.9	5°	3374.8	3391.9	3427.6	3463.3	3505.3	3544.1	3589.2	3621.8	3648.2	3656.0
3391.9	7.5°	3405.9	3433.8	3494.4	3555.0	3621.8	3685.5	3750.8	3806.7	3851.8	3868.9
3441.6	10°	3460.2	3497.5	3583.0	3668.4	3757.0	3854.9	3938.8	4019.6	4083.3	4109.7
3500.6	12.5°	3528.6	3575.2	3687.1	3805.2	3927.9	4063.1	4171.9	4271.3	4350.5	4386.3
3583.0	15°	3617.2	3677.8	3820.7	3979.2	4159.4	4347.4	4485.7	4596.0	4684.6	4728.1
3668.4	17.5°	3713.5	3794.3	3974.5	4213.8	4471.7	4718.8	4880.4	4961.2	5052.9	5094.8
3747.7	20°	3806.7	3906.2	4164.1	4512.1	4855.5	5118.1	5248.6	5270.4	5276.6	5281.3
3822.3	22.5°	3903.1	4036.7	4401.8	4888.2	5256.4	5438.2	5456.8	5363.6	5233.1	5172.5
3895.3	25°	4008.7	4185.8	4712.6	5303.0	5601.3	5623.1	5480.1	5253.3	5006.2	4892.8
3954.3	27.5°	4111.3	4358.3	5085.5	5699.2	5849.9	5658.8	5351.2	5029.5	4731.2	4611.6
3996.3	30°	4213.8	4555.6	5497.2	6045.7	5963.4	5570.3	5147.6	4788.7	4488.8	4363.0
4033.6	32.5°	4317.9	4785.6	5971.1	6295.9	5943.2	5382.2	4894.4	4518.4	4254.2	4122.1
4066.2	35°	4436.0	5068.4	6420.2	6432.6	5808.0	5105.7	4560.3	4195.2	3965.2	3859.6
4105.1	37.5°	4589.8	5427.3	6816.4	6466.8	5571.8	4700.1	4145.5	3812.9	3623.4	3575.2
4162.5	40°	4780.9	5859.3	7119.4	6412.4	5222.2	4207.6	3691.8	3426.1	3318.8	3329.7
4240.2	42.5°	5029.5	6342.5	7332.2	6272.6	4735.9	3699.5	3294.0	3175.9	3227.2	3270.7
4356.8	45°	5352.7	6844.3	7464.3	6034.8	4185.8	3269.1	3059.4	3087.3	3126.2	3130.8
4544.8	47.5°	5766.0	7352.4	7551.3	5675.9	3624.9	2966.1	2910.2	2916.4	2908.7	2876.0
4826.0	50°	6281.9	7846.5	7629.0	5200.5	3147.9	2776.6	2702.0	2680.2	2573.0	2467.4
5200.5	52.5°	6869.2	8300.2	7661.6	4610.0	2776.6	2618.1	2496.9	2360.2	2159.7	2127.1
5671.3	55°	7521.8	8719.7	7577.7	3884.4	2464.3	2414.6	2231.2	2066.5	2044.8	2016.8
6291.2	57.5°	8301.8	9171.9	7406.8	3074.9	2144.2	2176.8	1998.1	2016.8	1977.9	1934.4
7088.3	60°	9154.8	9639.6	7106.9	2336.9	1813.2	1880.1	1937.5	1936.0	1925.1	1889.4
7928.9	62.5°	9922.4	9947.2	6516.5	1789.9	1522.7	1650.1	1807.0	1805.5	1796.2	1776.0
8806.8	65°	10379.2	9900.6	5531.4	1409.3	1283.4	1460.5	1629.9	1642.3	1643.9	1642.3
9467.1	67.5°	10298.4	9355.2	4179.6	1121.8	1086.1	1267.9	1454.3	1471.4	1483.8	1487.0
9551.0	70°	9384.8	8157.3	2725.3	895.0	910.5	1098.5	1288.1	1305.2	1316.0	1328.5
8287.8	72.5°	7315.1	5997.5	1560.0	724.1	756.7	952.5	1123.4	1143.6	1149.8	1173.1
5767.6	75°	4457.8	3527.1	842.1	570.2	621.5	814.2	960.2	983.5	994.4	1022.4
2832.5	77.5°	2119.3	1527.4	480.1	444.4	500.3	665.0	811.1	837.5	808.0	823.5
781.5	80°	716.3	567.1	303.0	338.7	382.2	519.0	649.5	675.9	613.7	610.6
259.5	82.5°	250.2	230.0	192.7	225.3	247.0	371.4	491.0	525.2	456.8	455.3
116.5	85°	97.9	93.2	107.2	122.7	147.6	228.4	323.2	340.3	281.2	226.9
34.2	87.5°	20.2	21.8	26.4	28.0	45.1	79.2	116.5	142.9	113.4	96.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END O

<u>180°</u>
3349.9
3475.8
3659.1
3870.4
4111.3
4386.3
4725.0
5093.2
5293.7
5189.6
4909.9
4625.6
4377.0
4139.2
3882.9
3609.4
3367.0
3311.1
3161.9
2900.9
2481.4
2138.0
2021.5
1926.7
1877.0
1768.2
1642.3
1490.1
1334.7
1182.4
1025.5
811.1
604.4
433.5
223.7
88.6
0.0

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