

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: P940662

Luminaire Tested: **GALN-SB3D-830-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940662
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-SB3D-830-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3000K, 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: 27195 lumens
Efficiency: N/A
Efficacy: 124.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

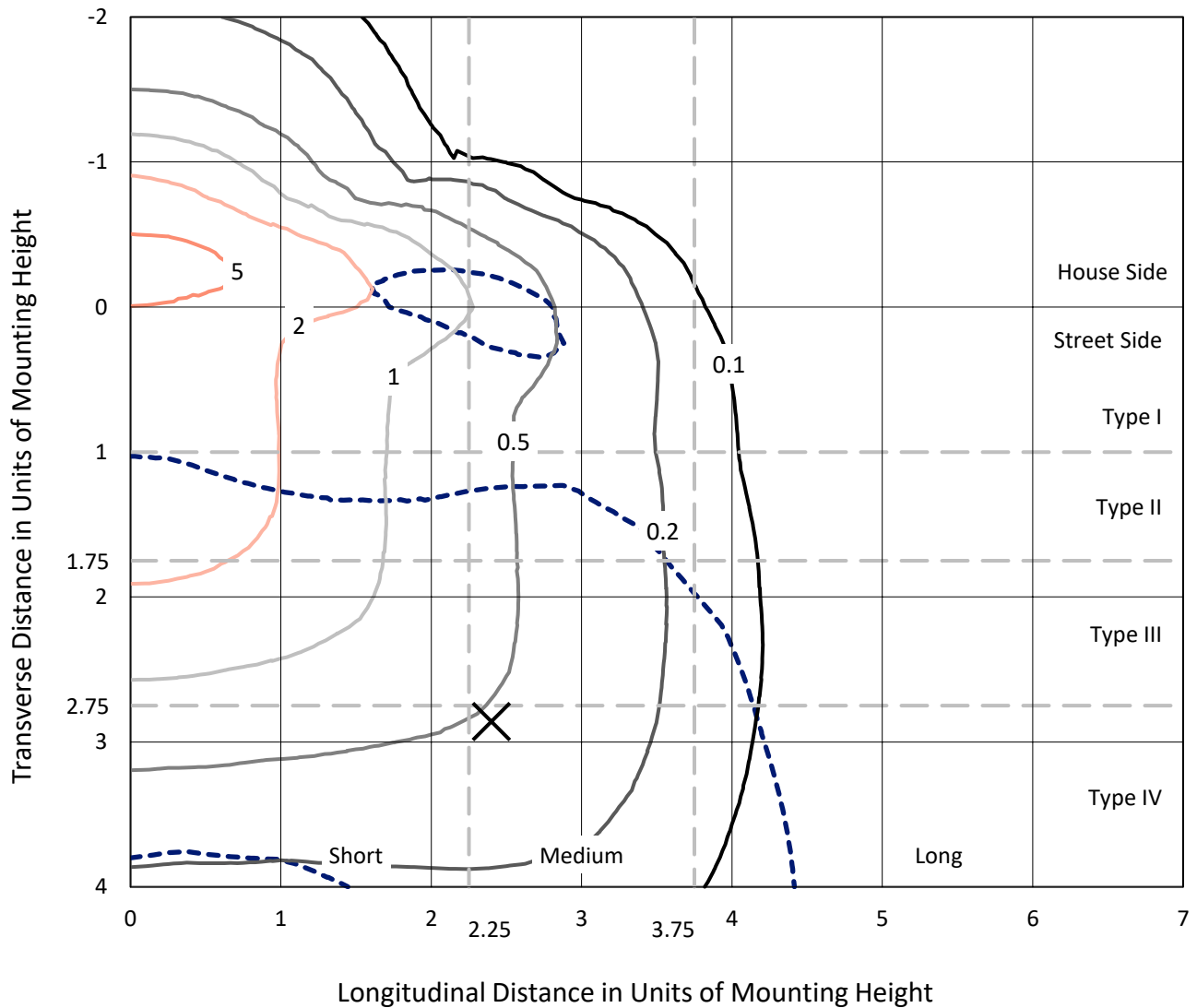
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

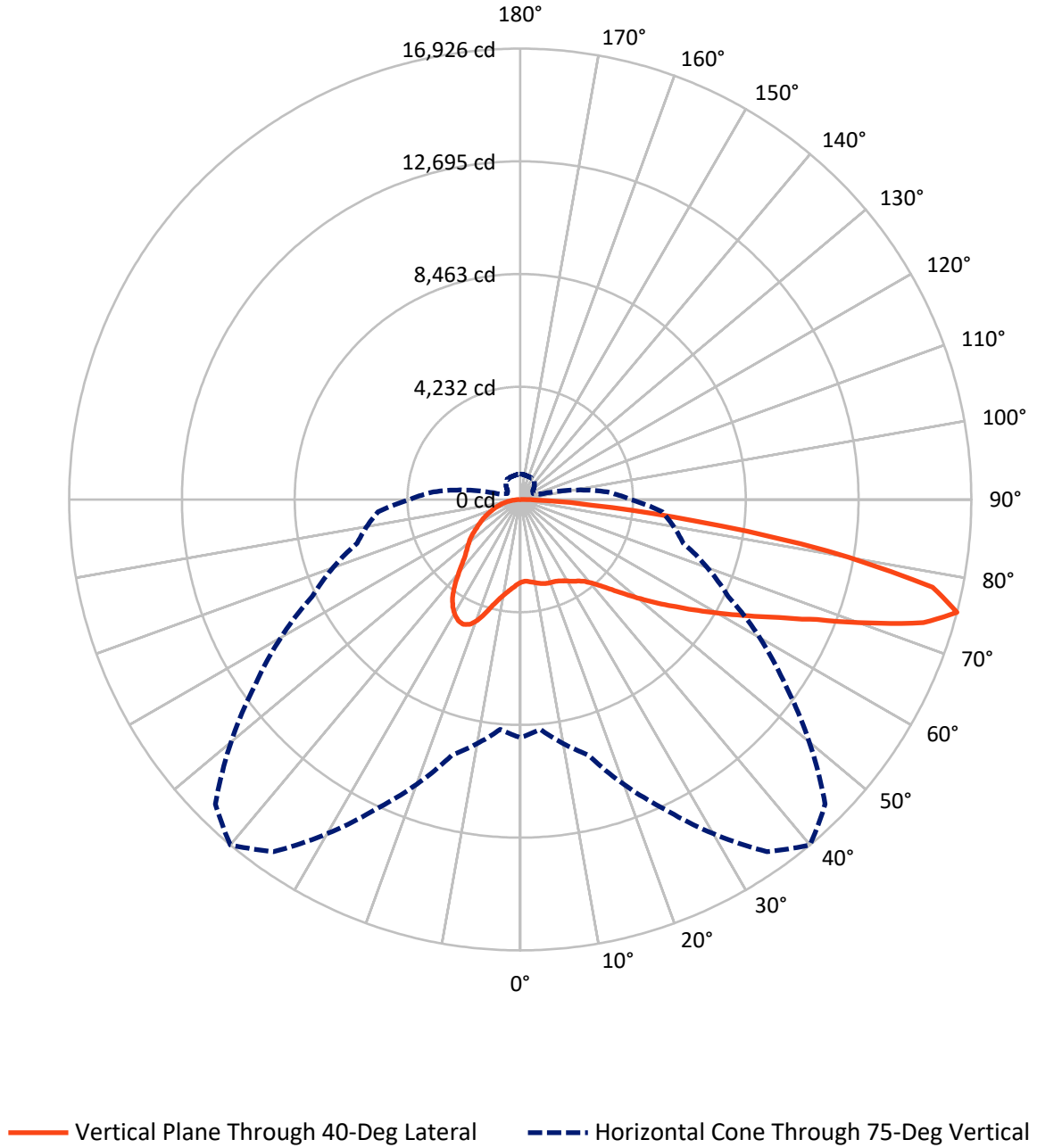
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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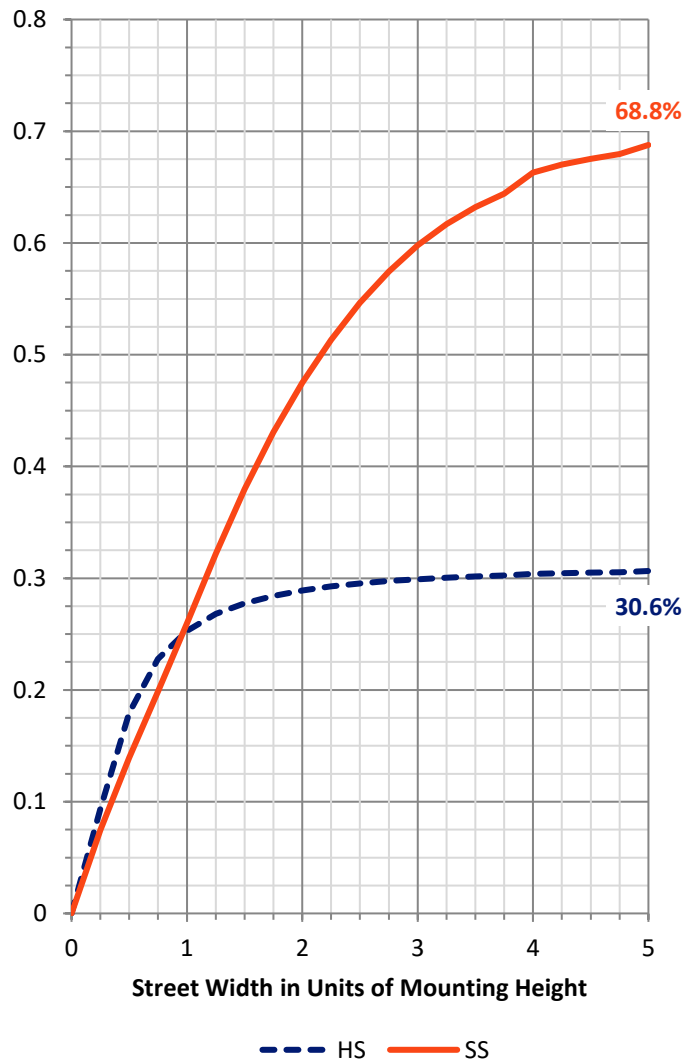
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8425.9	0.0	8425.9
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	18769.1	0.0	18769.1
	% Fixture	69.0	0.0	69.0
Total	Lumens	27195.0	0.0	27195.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	310.4	1.1
10°-20°	1042.2	3.8
20°-30°	1903.0	7.0
30°-40°	2699.0	9.9
40°-50°	3644.4	13.4
50°-60°	4902.7	18.0
60°-70°	6222.7	22.9
70°-80°	5647.4	20.8
80°-90°	823.2	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°	27195.0	100.0
0°-180°	27195.0	100.0



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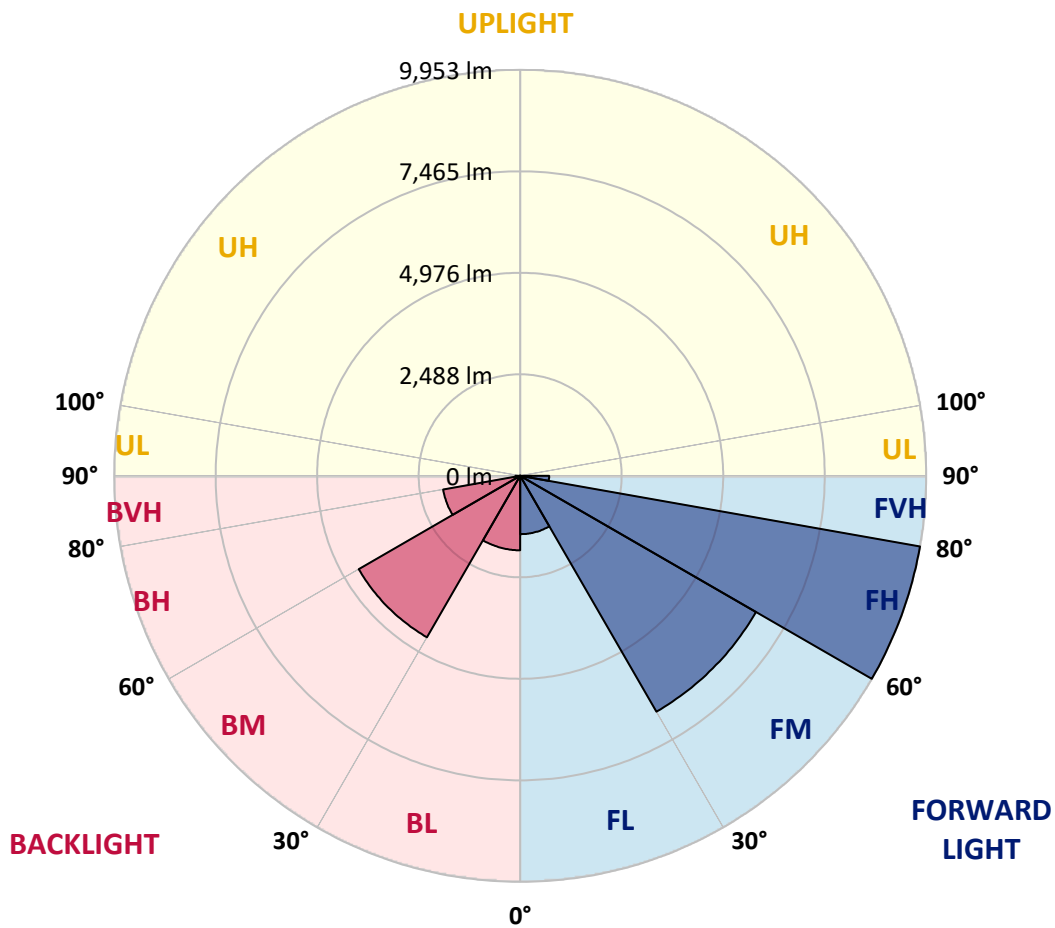
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1430.5	5.3			
FM (30°-60°)	6675.8	24.5			
FH (60°-80°)	9953.0	36.6			G4/12000
FVH (80°-90°)	709.9	2.6			G4/750
BL (0°-30°)	1825.1	6.7	B3/2500		
BM (30°-60°)	4570.3	16.8	B3/5000		
BH (60°-80°)	1917.1	7.0	B3/2500		G3/2500
BVH (80°-90°)	113.3	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 IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	3109.8	3109.8	3109.8	3109.8	3109.8	3109.8	3109.8	3109.8	3109.8	3109.8
2.5°	3062.2	3079.5	3075.2	3069.4	3069.4	3070.8	3069.4	3079.5	3089.6	3099.7
5°	3093.9	3111.2	3102.6	3095.4	3089.6	3088.1	3083.8	3082.4	3088.1	3101.1
7.5°	3155.9	3173.2	3160.3	3147.3	3135.7	3130.0	3124.2	3115.6	3111.2	3118.4
10°	3225.2	3242.5	3226.6	3203.5	3184.8	3177.6	3171.8	3163.2	3157.4	3161.7
12.5°	3294.4	3311.7	3290.1	3258.4	3233.8	3229.5	3222.3	3219.4	3218.0	3216.5
15°	3359.3	3373.7	3346.3	3308.8	3282.9	3275.7	3268.4	3272.8	3280.0	3288.6
17.5°	3409.8	3424.2	3383.8	3334.8	3310.3	3307.4	3303.1	3317.5	3337.7	3359.3
20°	3456.0	3470.4	3418.5	3352.1	3323.3	3323.3	3324.7	3355.0	3383.8	3415.6
22.5°	3520.9	3532.4	3468.9	3378.1	3336.2	3339.1	3350.7	3381.0	3417.0	3460.3
25°	3617.5	3626.2	3548.3	3427.1	3379.5	3388.2	3398.3	3412.7	3447.3	3497.8
27.5°	3773.3	3780.5	3678.1	3513.7	3441.5	3456.0	3470.4	3460.3	3476.2	3519.4
30°	3992.5	3996.9	3867.0	3649.2	3546.8	3554.0	3556.9	3515.1	3484.8	3519.4
32.5°	4252.2	4250.7	4096.4	3813.7	3666.5	3659.3	3634.8	3552.6	3481.9	3512.2
35°	4654.6	4638.7	4439.7	4044.5	3802.1	3757.4	3699.7	3594.4	3496.3	3505.0
37.5°	5321.0	5271.9	4996.4	4422.4	4004.1	3890.1	3805.0	3662.2	3528.1	3502.1
40°	6072.4	6010.4	5707.5	4940.2	4307.0	4123.8	3986.8	3758.9	3580.0	3515.1
42.5°	6963.8	6875.9	6549.9	5550.3	4690.6	4425.2	4219.0	3881.5	3656.4	3556.9
45°	8058.6	7941.8	7480.2	6238.3	5173.8	4820.5	4545.0	4067.5	3773.3	3637.7
47.5°	9164.9	9193.8	8537.5	7025.9	5753.7	5308.0	4953.2	4347.4	3943.5	3767.5
50°	10340.5	10360.7	9589.0	7898.5	6411.4	5859.0	5411.8	4660.3	4180.0	3952.1
52.5°	11257.8	11260.7	10543.8	8811.5	7096.5	6464.8	5906.6	5018.1	4454.1	4197.3
55°	11831.9	11824.7	11213.1	9675.5	7884.1	7100.9	6454.7	5424.8	4788.7	4485.8
57.5°	12248.7	12227.1	11674.7	10418.4	8723.6	7852.4	7074.9	5886.4	5183.9	4829.1
60°	12407.4	12394.4	11987.7	11060.2	9606.3	8683.2	7790.3	6402.8	5632.5	5234.4
62.5°	12468.0	12492.5	12294.9	11681.9	10551.1	9603.4	8576.4	7020.1	6137.4	5693.1
65°	12681.5	12726.2	12685.8	12495.4	11618.4	10680.9	9619.3	7754.3	6688.3	6185.0
67.5°	13104.1	13148.8	13166.1	13469.0	12922.3	12023.7	10920.3	8668.7	7333.1	6695.6
70°	13094.0	13081.0	13386.8	14243.6	14555.1	13883.0	12674.2	9793.8	8101.9	7119.6
72.5°	11918.4	11814.6	12537.2	14234.9	15913.8	15824.4	14816.2	11244.8	8765.4	7171.5
75°	8941.4	8664.4	9940.9	12828.6	16140.3	16926.4	16177.8	12144.9	8608.2	6336.4
77.5°	3823.8	3545.4	5049.8	9496.7	14445.5	15823.0	14928.7	10595.8	6871.5	4190.1
80°	1001.0	999.6	1526.0	4305.5	9824.1	11684.8	10251.0	6842.7	3926.2	1497.2
82.5°	414.0	403.9	561.1	1674.6	4800.3	6557.1	5351.3	3052.1	1417.9	405.3
85°	154.3	152.9	272.6	578.4	1693.4	2704.5	1957.3	780.3	353.4	197.6
87.5°	43.3	41.8	59.1	200.5	412.5	626.0	334.6	128.4	99.5	77.9
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°
3109.8	0°	3109.8	3109.8	3109.8	3109.8	3109.8	3109.8	3109.8	3109.8	3109.8	3109.8
3115.6	2.5°	3119.9	3127.1	3140.1	3150.2	3163.2	3177.6	3197.8	3210.8	3223.7	3232.4
3122.8	5°	3132.9	3148.7	3181.9	3215.1	3254.0	3290.1	3331.9	3362.2	3386.7	3393.9
3148.7	7.5°	3161.7	3187.7	3243.9	3300.2	3362.2	3421.3	3481.9	3533.8	3575.7	3591.5
3194.9	10°	3212.2	3246.8	3326.1	3405.5	3487.7	3578.6	3656.4	3731.5	3790.6	3815.1
3249.7	12.5°	3275.7	3318.9	3422.8	3532.4	3646.4	3771.8	3872.8	3965.1	4038.7	4071.9
3326.1	15°	3357.9	3414.1	3546.8	3694.0	3861.3	4035.8	4164.2	4266.6	4348.8	4389.2
3405.5	17.5°	3447.3	3522.3	3689.6	3911.8	4151.2	4380.5	4530.5	4605.5	4690.6	4729.6
3479.0	20°	3533.8	3626.2	3865.6	4188.7	4507.5	4751.2	4872.4	4892.6	4898.3	4902.7
3548.3	22.5°	3623.3	3747.3	4086.3	4537.7	4879.6	5048.4	5065.7	4979.1	4858.0	4801.7
3616.1	25°	3721.4	3885.8	4374.8	4922.9	5199.8	5220.0	5087.3	4876.7	4647.4	4542.1
3670.9	27.5°	3816.6	4045.9	4720.9	5290.7	5430.6	5253.2	4967.6	4669.0	4392.1	4281.0
3709.8	30°	3911.8	4229.1	5103.2	5612.3	5535.9	5171.0	4778.6	4445.4	4167.1	4050.2
3744.4	32.5°	4008.4	4442.5	5543.1	5844.5	5517.1	4996.4	4543.5	4194.5	3949.3	3826.7
3774.7	35°	4118.0	4705.1	5959.9	5971.5	5391.6	4739.7	4233.4	3894.4	3681.0	3582.9
3810.8	37.5°	4260.8	5038.3	6327.7	6003.2	5172.4	4363.2	3848.3	3539.6	3363.6	3318.9
3864.2	40°	4438.2	5439.2	6609.0	5952.7	4847.9	3906.0	3427.1	3180.5	3080.9	3091.0
3936.3	42.5°	4669.0	5887.8	6806.6	5822.9	4396.4	3434.3	3057.9	2948.2	2995.8	3036.2
4044.5	45°	4969.0	6353.7	6929.2	5602.2	3885.8	3034.8	2840.1	2866.0	2902.1	2906.4
4219.0	47.5°	5352.7	6825.4	7010.0	5269.0	3365.1	2753.5	2701.6	2707.4	2700.1	2669.9
4480.1	50°	5831.6	7284.0	7082.1	4827.7	2922.3	2577.5	2508.3	2488.1	2388.6	2290.5
4827.7	52.5°	6376.8	7705.2	7112.4	4279.6	2577.5	2430.4	2317.9	2191.0	2004.9	1974.6
5264.7	55°	6982.6	8094.7	7034.5	3606.0	2287.6	2241.5	2071.3	1918.4	1898.2	1872.2
5840.2	57.5°	7706.7	8514.4	6875.9	2854.5	1990.5	2020.8	1854.9	1872.2	1836.2	1795.8
6580.2	60°	8498.5	8948.6	6597.5	2169.3	1683.3	1745.3	1798.7	1797.2	1787.1	1753.9
7360.5	62.5°	9211.1	9234.2	6049.4	1661.6	1413.5	1531.8	1677.5	1676.1	1667.4	1648.6
8175.4	65°	9635.1	9190.9	5134.9	1308.2	1191.4	1355.8	1513.1	1524.6	1526.0	1524.6
8788.5	67.5°	9560.1	8684.6	3880.0	1041.4	1008.2	1177.0	1350.1	1365.9	1377.5	1380.4
8866.3	70°	8712.0	7572.5	2529.9	830.8	845.2	1019.8	1195.7	1211.6	1221.7	1233.2
7693.7	72.5°	6790.8	5567.6	1448.2	672.2	702.4	884.2	1042.8	1061.6	1067.4	1089.0
5354.1	75°	4138.2	3274.2	781.8	529.4	577.0	755.8	891.4	913.0	923.1	949.1
2629.5	77.5°	1967.4	1417.9	445.7	412.5	464.4	617.3	752.9	777.4	750.0	764.5
725.5	80°	664.9	526.5	281.3	314.4	354.8	481.8	602.9	627.4	569.7	566.9
240.9	82.5°	232.2	213.5	178.9	209.1	229.3	344.7	455.8	487.5	424.1	422.6
108.2	85°	90.9	86.5	99.5	113.9	137.0	212.0	300.0	315.9	261.1	210.6
31.7	87.5°	18.8	20.2	24.5	26.0	41.8	73.6	108.2	132.7	105.3	89.4
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>
3109.8
3226.6
3396.8
3593.0
3816.6
4071.9
4386.3
4728.1
4914.2
4817.6
4557.9
4294.0
4063.2
3842.5
3604.5
3350.7
3125.7
3073.7
2935.3
2692.9
2303.5
1984.7
1876.5
1788.6
1742.4
1641.4
1524.6
1383.2
1239.0
1097.7
952.0
752.9
561.1
402.4
207.7
82.2
0.0

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