

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: P947484

Luminaire Tested: **GALN-SB2D-827-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947484
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2D-827-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17295 lumens
Efficiency: N/A
Efficacy: 117.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

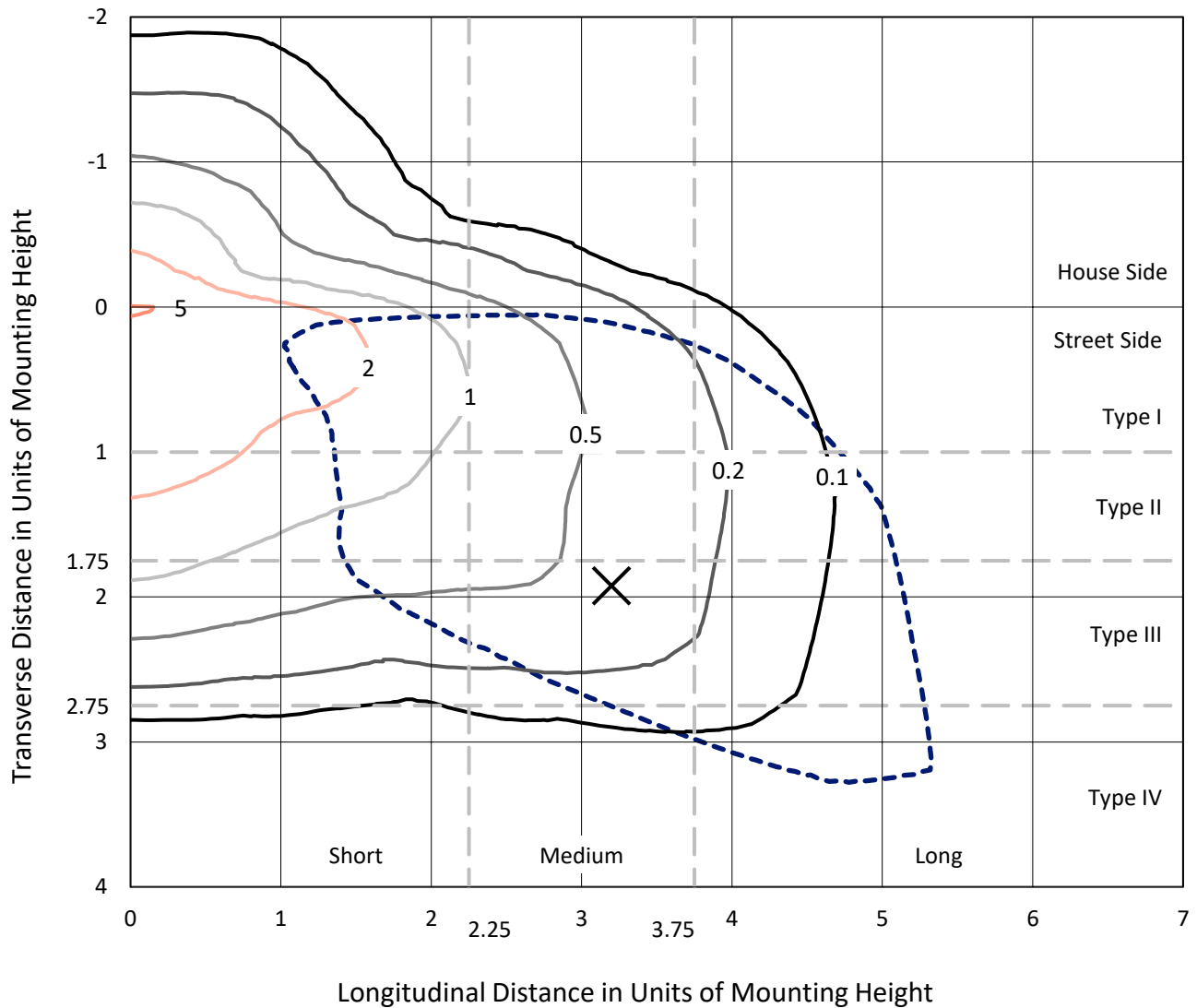
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

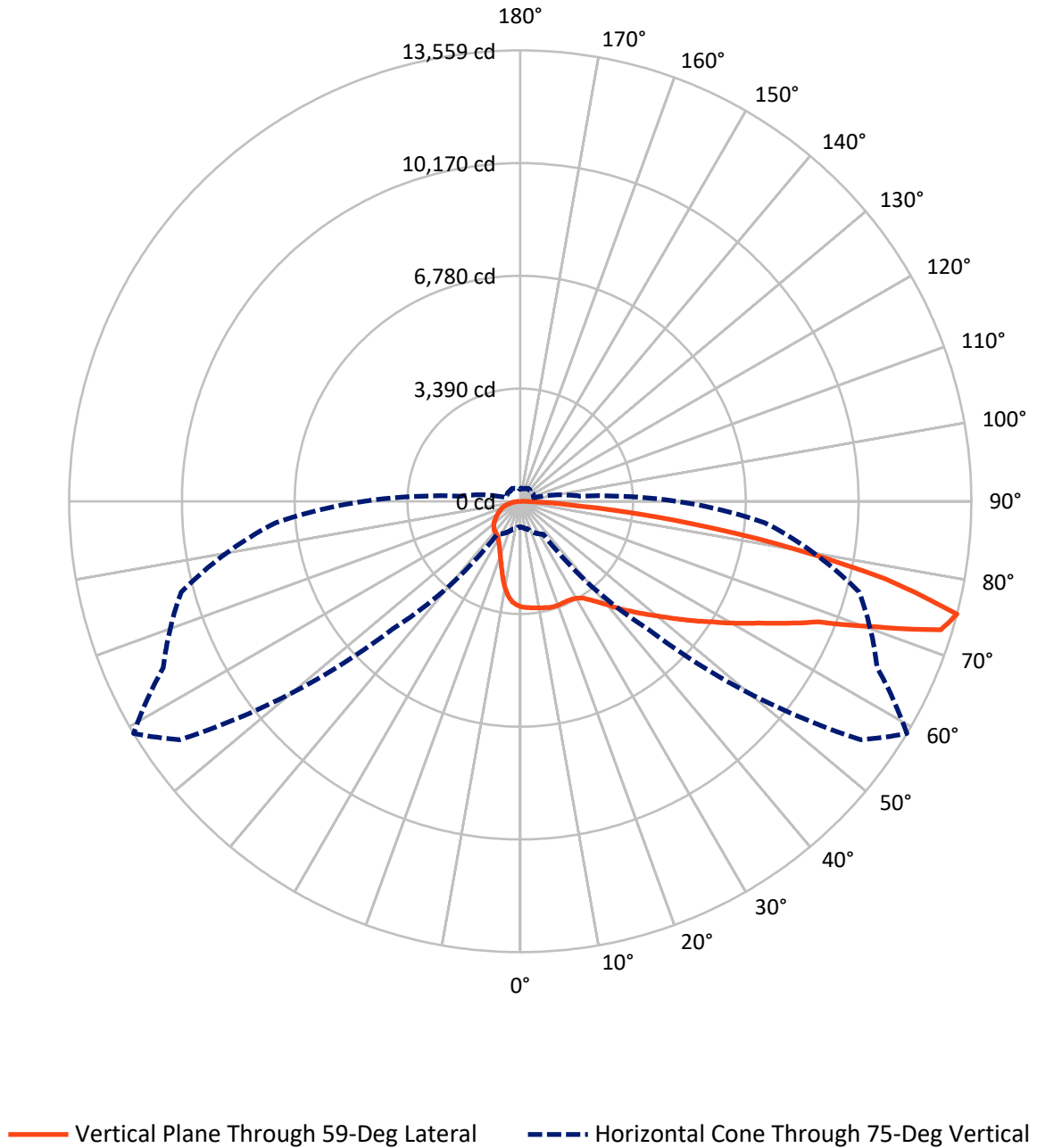
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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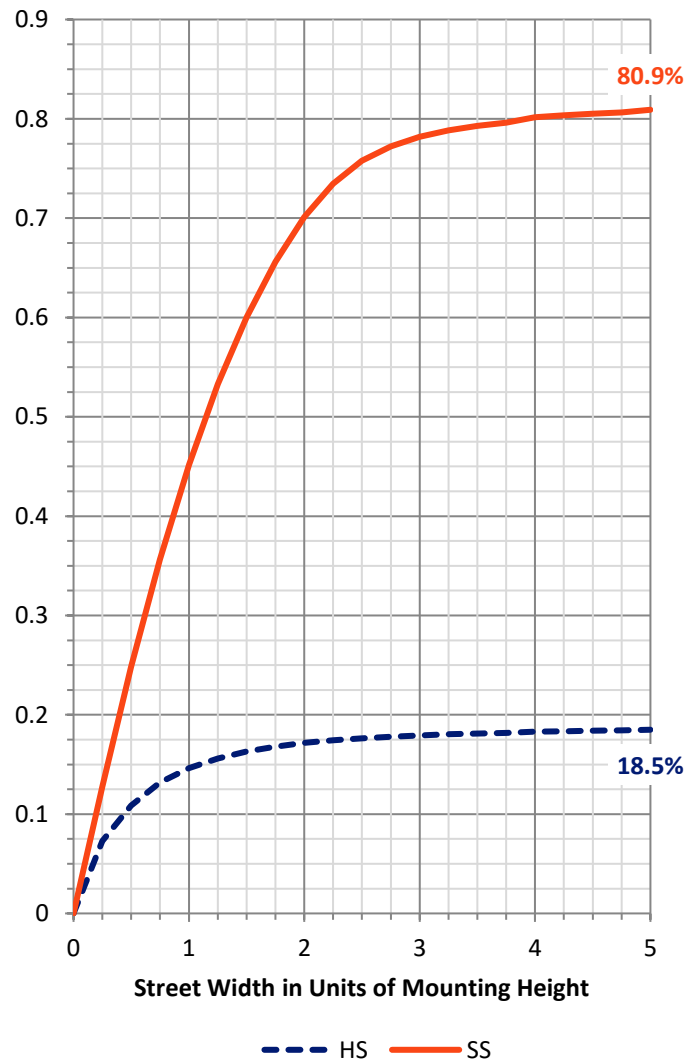
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3243.8	0.0	3243.8
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	14051.2	0.0	14051.2
	% Fixture	81.2	0.0	81.2
Total	Lumens	17295.0	0.0	17295.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	284.6	1.6
10°-20°	727.6	4.2
20°-30°	1105.1	6.4
30°-40°	1642.7	9.5
40°-50°	2443.0	14.1
50°-60°	3316.1	19.2
60°-70°	4048.4	23.4
70°-80°	3177.1	18.4
80°-90°	550.4	3.2
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°	17295.0	100.0
0°-180°	17295.0	100.0

Coefficient of Utilization



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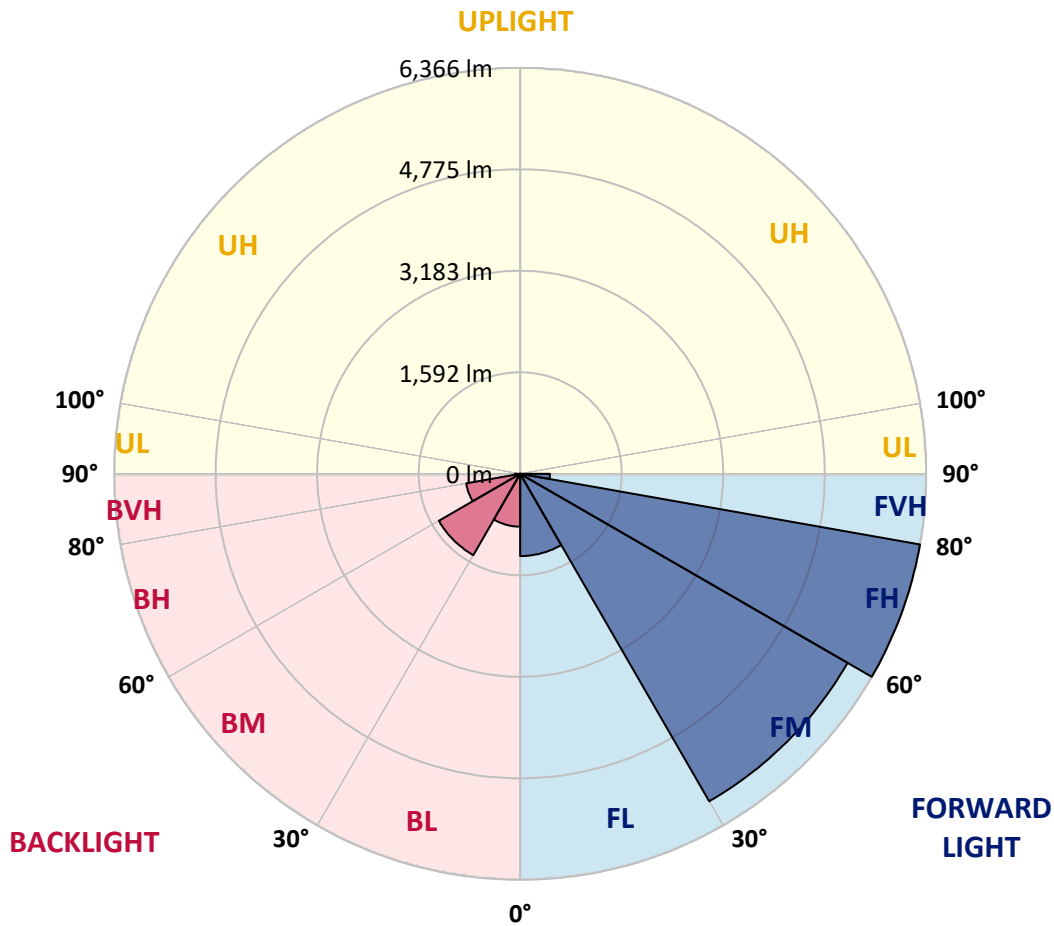
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1289.5	7.5			
FM (30°-60°)	5929.4	34.3			
FH (60°-80°)	6366.1	36.8			G3/7500
FVH (80°-90°)	466.1	2.7			G3/500
BL (0°-30°)	827.8	4.8	B2/1000		
BM (30°-60°)	1472.4	8.5	B2/2500		
BH (60°-80°)	859.4	5.0	B2/1000		G2/1000
BVH (80°-90°)	84.2	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	3174.5	3174.5	3174.5	3174.5	3174.5	3174.5	3174.5	3174.5	3174.5	3174.5
2.5°	3201.4	3190.3	3201.4	3196.8	3194.9	3191.2	3192.1	3198.6	3194.9	3199.6
5°	3180.0	3173.5	3184.7	3181.9	3194.0	3195.9	3208.0	3215.4	3220.0	3221.0
7.5°	3144.7	3138.2	3154.0	3167.0	3193.1	3200.5	3225.6	3237.7	3244.2	3255.4
10°	3015.4	3012.6	3051.6	3101.0	3162.4	3200.5	3238.7	3259.1	3269.4	3299.1
12.5°	2786.5	2790.2	2841.4	2936.3	3059.1	3181.9	3253.5	3283.3	3299.1	3336.3
15°	2567.9	2566.9	2622.7	2724.2	2896.3	3100.0	3261.0	3312.2	3339.1	3394.0
17.5°	2441.3	2437.6	2476.7	2553.9	2713.9	2974.4	3242.4	3328.0	3385.7	3454.5
20°	2418.1	2410.6	2431.1	2469.2	2582.7	2836.7	3194.0	3328.0	3422.9	3512.2
22.5°	2502.7	2490.6	2482.3	2477.6	2527.8	2723.2	3139.1	3316.8	3477.8	3595.0
25°	2673.0	2654.4	2611.6	2569.7	2554.8	2672.1	3090.7	3314.0	3559.6	3706.6
27.5°	2948.4	2925.1	2838.6	2738.1	2647.9	2698.1	3069.3	3330.8	3649.9	3824.8
30°	3289.8	3264.7	3155.9	3001.4	2839.5	2794.9	3096.3	3380.1	3765.3	3982.0
32.5°	3595.9	3568.0	3475.0	3317.7	3099.1	2962.3	3181.9	3474.0	3946.7	4200.7
35°	3867.6	3835.0	3751.3	3606.2	3417.3	3197.7	3336.3	3640.6	4204.4	4556.1
37.5°	4133.7	4095.5	4004.4	3850.8	3718.7	3511.3	3549.4	3854.6	4546.8	4987.8
40°	4431.4	4376.5	4265.8	4114.1	3985.8	3878.8	3829.4	4116.9	4894.7	5469.7
42.5°	4719.8	4667.7	4535.6	4406.3	4245.3	4214.6	4154.1	4424.0	5275.3	5999.1
45°	5030.6	4968.2	4808.2	4644.5	4543.0	4437.9	4468.6	4731.0	5648.3	6538.7
47.5°	5321.8	5252.0	5063.1	4880.8	4825.0	4625.9	4757.0	5068.7	6036.3	7085.8
50°	5479.0	5410.2	5252.9	5088.3	5044.5	4857.5	5069.6	5439.9	6442.9	7631.0
52.5°	5610.2	5535.8	5330.2	5239.0	5225.9	5109.7	5454.8	5864.2	6849.5	8112.9
55°	5749.8	5666.9	5404.6	5322.7	5382.3	5392.5	5911.6	6345.2	7279.3	8582.8
57.5°	5910.7	5805.6	5476.2	5393.4	5534.8	5723.7	6436.4	6843.9	7701.7	9018.2
60°	6062.4	5956.3	5613.9	5506.0	5699.5	6107.9	7038.3	7447.7	8179.9	9406.1
62.5°	6092.1	6004.7	5723.7	5722.8	5922.8	6556.4	7751.0	8057.1	8597.6	9789.5
65°	5576.7	5521.8	5355.3	5714.4	6242.9	7202.1	8544.6	8836.8	9128.9	10124.4
67.5°	4244.4	4251.8	4239.7	4932.9	5984.2	8129.7	9693.6	9671.3	9784.8	10500.3
70°	1940.8	1984.5	2269.2	3405.2	4794.3	8236.7	11593.5	11304.1	10608.2	10986.9
72.5°	1048.5	1082.0	1198.3	1649.6	2882.3	7323.0	13013.2	13218.8	11703.3	11314.4
75°	769.4	788.0	869.0	1048.5	1210.4	5442.7	12504.3	13559.4	11840.0	10550.5
77.5°	575.9	584.3	650.3	830.8	619.6	2869.3	9991.4	11229.7	10135.6	8668.4
80°	417.7	427.0	476.4	623.4	434.5	1049.5	6860.6	7882.2	6941.6	5525.5
82.5°	288.4	292.1	313.5	424.3	303.3	407.5	3892.7	4622.1	3875.0	1938.9
85°	174.0	178.6	187.9	247.5	172.1	193.5	1680.3	1738.0	1158.3	463.3
87.5°	71.6	76.3	83.7	104.2	67.9	54.0	277.3	348.0	216.8	135.8
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°
3174.5	0°	3174.5	3174.5	3174.5	3174.5	3174.5	3174.5	3174.5	3174.5	3174.5	3174.5
3183.8	2.5°	3179.1	3172.6	3154.9	3130.7	3108.4	3080.5	3068.4	3058.2	3048.9	3031.2
3208.9	5°	3198.6	3181.0	3133.5	3072.1	3002.3	2926.0	2851.6	2800.4	2756.7	2724.2
3237.7	7.5°	3228.4	3194.9	3108.4	2982.8	2822.8	2659.0	2511.1	2406.0	2326.9	2298.0
3278.7	10°	3259.1	3219.1	3068.4	2847.0	2570.6	2318.5	2122.2	2014.3	1951.0	1930.5
3327.0	12.5°	3295.4	3236.8	3006.1	2658.1	2288.7	2012.4	1841.2	1778.0	1745.4	1734.2
3386.6	15°	3348.4	3251.7	2912.1	2421.8	2019.9	1789.1	1678.4	1634.7	1617.9	1617.0
3448.0	17.5°	3388.4	3254.5	2766.0	2168.7	1813.3	1654.2	1563.0	1546.3	1557.5	1574.2
3508.5	20°	3433.1	3229.4	2574.4	1938.0	1668.2	1536.1	1497.9	1509.1	1536.1	1560.2
3588.5	22.5°	3464.7	3183.8	2342.7	1758.4	1542.6	1468.1	1466.3	1489.5	1504.4	1516.5
3682.4	25°	3492.6	3106.5	2097.1	1607.7	1439.3	1427.2	1447.7	1440.2	1430.0	1440.2
3776.4	27.5°	3513.1	2984.7	1877.5	1475.6	1366.7	1399.3	1387.2	1370.5	1369.5	1375.1
3887.1	30°	3506.6	2821.8	1697.0	1350.0	1315.6	1347.2	1318.3	1315.6	1312.8	1315.6
4053.7	32.5°	3506.6	2636.7	1558.4	1263.5	1283.0	1270.9	1268.1	1261.6	1250.4	1249.5
4279.8	35°	3526.1	2451.6	1439.3	1216.9	1256.0	1227.2	1229.0	1213.2	1190.0	1178.8
4579.3	37.5°	3566.1	2302.7	1321.1	1194.6	1208.6	1207.6	1200.2	1173.2	1132.3	1096.9
4953.3	40°	3662.9	2259.0	1240.2	1184.4	1186.2	1197.4	1177.9	1125.8	1032.7	975.0
5332.9	42.5°	3814.6	2332.5	1222.5	1159.3	1171.3	1182.5	1144.4	1023.4	957.4	922.9
5731.1	45°	4007.1	2460.9	1260.7	1123.0	1136.0	1155.5	1042.0	984.3	954.6	955.5
6125.6	47.5°	4250.9	2595.8	1331.4	1091.3	1084.8	1096.0	974.1	938.8	897.8	908.1
6504.3	50°	4532.8	2732.5	1398.4	1048.5	1028.1	991.8	930.4	896.9	844.8	820.6
6869.9	52.5°	4838.0	2864.6	1425.3	996.4	966.7	924.8	900.6	859.7	796.4	756.4
7215.1	55°	5127.3	2984.7	1395.6	934.1	905.3	872.7	869.0	843.9	775.9	720.1
7522.1	57.5°	5400.9	3085.1	1321.1	870.8	842.9	823.4	848.5	836.4	750.8	679.2
7812.4	60°	5632.5	3154.0	1213.2	806.6	787.1	776.9	815.0	811.3	715.5	635.4
8072.9	62.5°	5816.7	3181.0	1094.1	745.2	740.6	722.0	768.5	768.5	670.8	592.7
8301.8	65°	5960.9	3154.9	973.2	684.8	694.1	666.2	711.7	706.2	623.4	554.5
8565.1	67.5°	6088.4	3069.3	839.2	625.2	646.6	611.3	652.2	639.2	571.3	516.4
8793.0	70°	6145.2	2870.2	686.6	565.7	591.7	557.3	592.7	568.5	512.6	475.4
8542.8	72.5°	5689.3	2385.5	540.6	503.3	525.7	497.8	528.5	500.5	449.4	432.6
7377.0	75°	4706.8	1790.1	415.9	435.4	452.2	430.8	451.2	430.8	384.2	396.3
5449.2	77.5°	3418.2	1208.6	318.2	363.8	371.2	360.1	377.7	354.5	312.6	309.8
2715.8	80°	1699.8	708.0	249.3	287.5	284.7	277.3	297.7	286.6	251.2	266.1
733.1	82.5°	492.2	303.3	181.4	201.9	196.3	198.2	213.1	218.6	327.5	324.7
227.9	85°	154.4	119.1	108.9	112.6	107.0	109.8	125.6	249.3	230.7	134.9
70.7	87.5°	40.0	40.9	27.0	28.8	29.8	35.4	40.0	151.7	72.6	47.4
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>
3174.5
3022.8
2697.2
2247.8
1898.9
1737.0
1620.7
1580.7
1568.6
1523.0
1446.7
1384.4
1325.8
1261.6
1190.0
1109.0
982.5
922.9
960.2
934.1
827.1
755.5
720.1
675.5
632.7
589.9
550.8
512.6
468.0
418.7
361.9
295.9
263.3
332.1
146.1
50.2
0.0

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