

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: P957488

Luminaire Tested: **GALN-SB9D-827-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957488
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9D-827-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 81677 lumens
Efficiency: N/A
Efficacy: 124.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

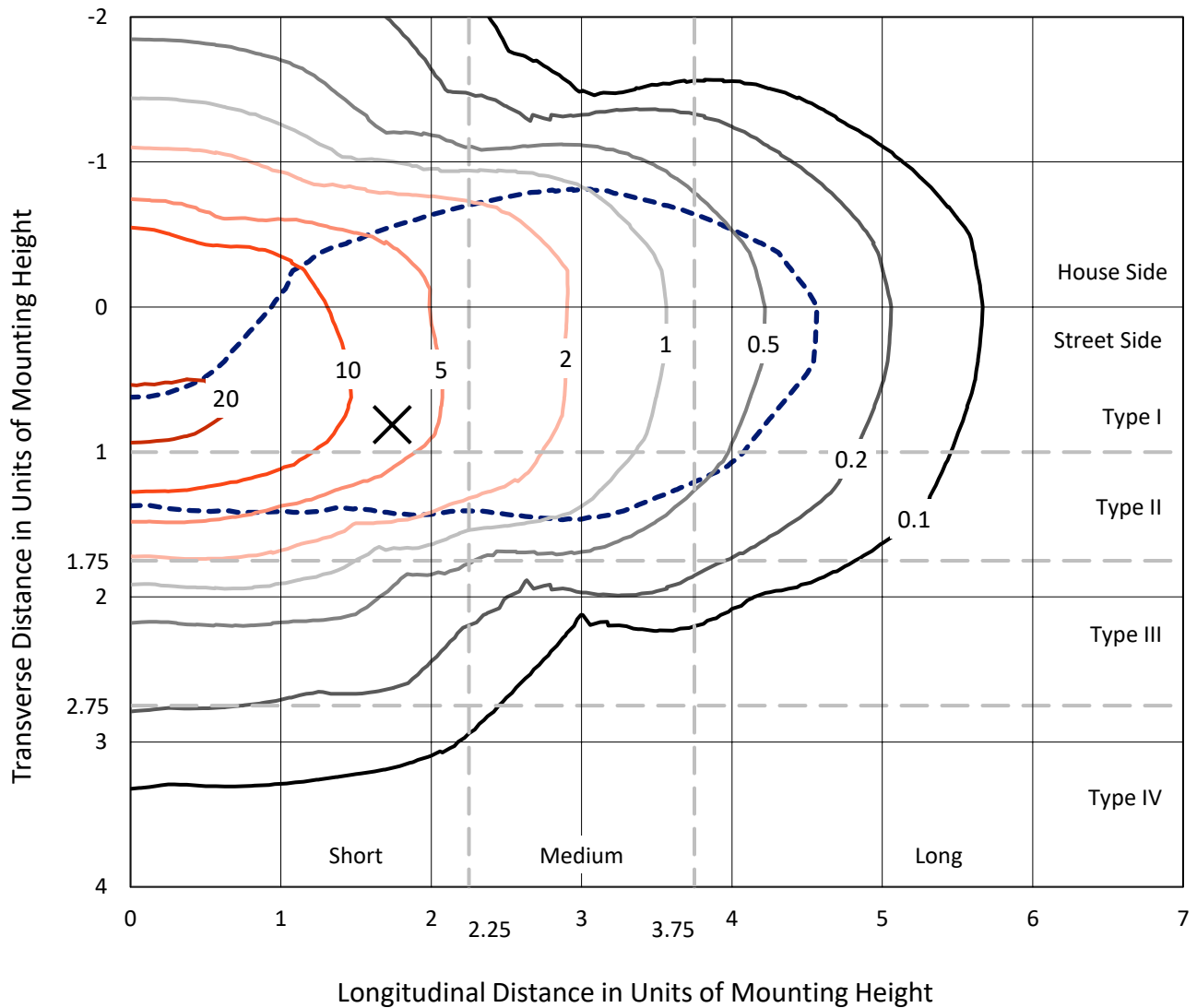
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

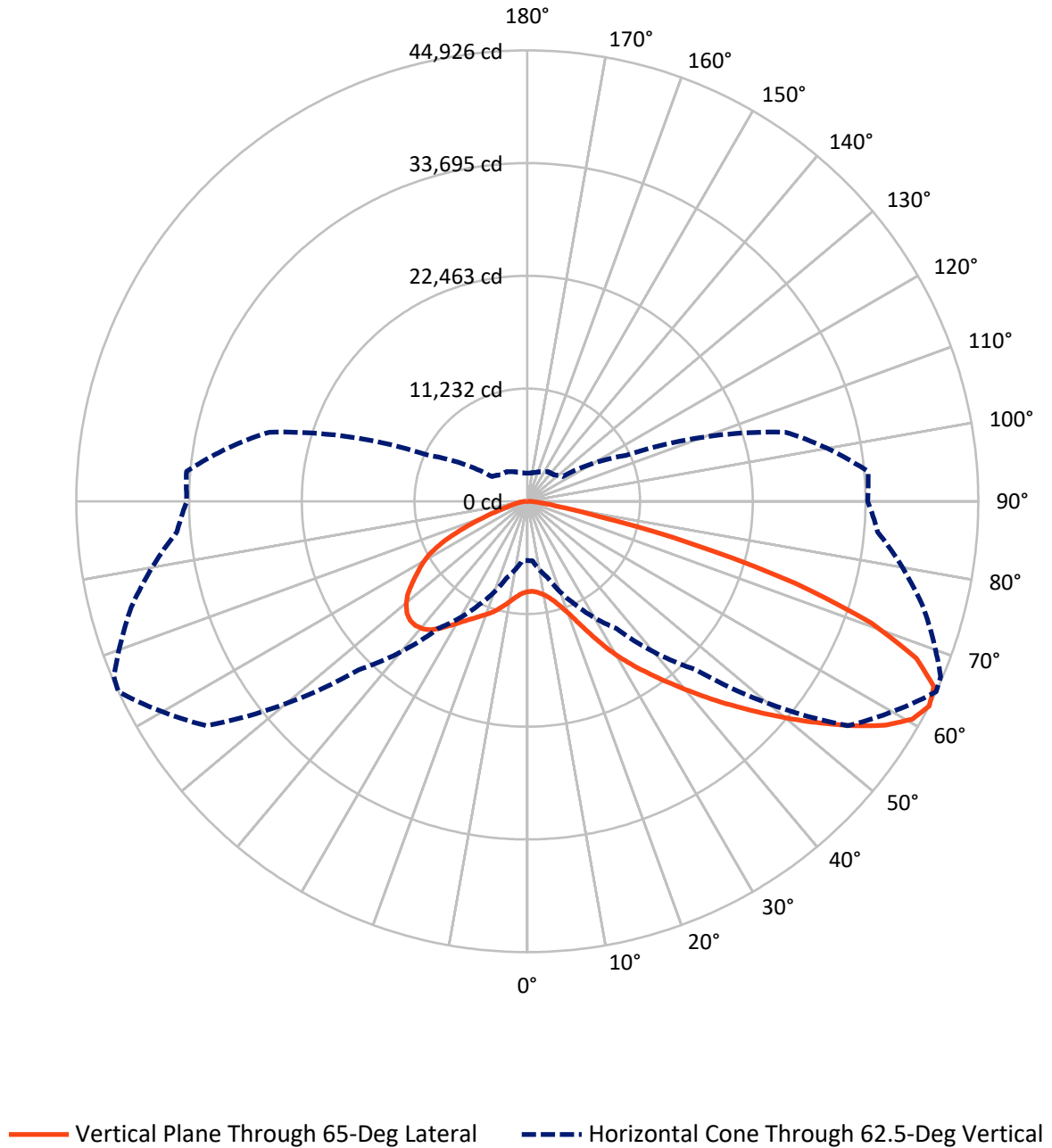
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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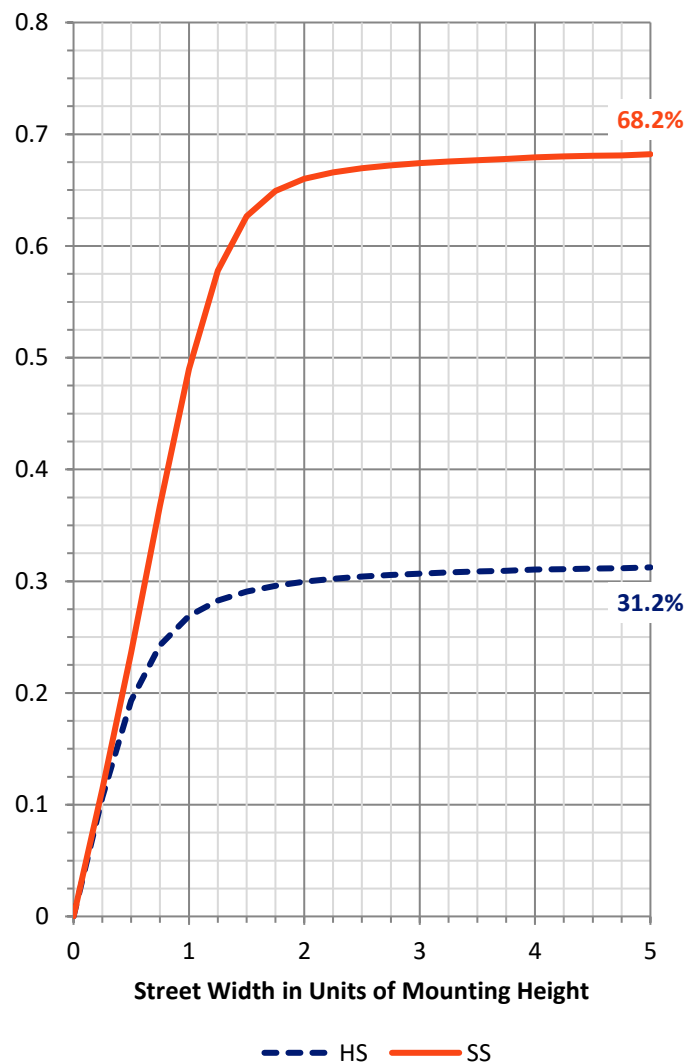
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	25773.7	0.0	25773.7
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	55903.3	0.0	55903.3
	% Fixture	68.4	0.0	68.4
Total	Lumens	81677.0	0.0	81677.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	897.3	1.1
10°-20°	3042.9	3.7
20°-30°	6169.9	7.6
30°-40°	10676.9	13.1
40°-50°	16157.4	19.8
50°-60°	18943.6	23.2
60°-70°	15881.9	19.4
70°-80°	8768.1	10.7
80°-90°	1138.9	1.4
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°	81677.0	100.0
0°-180°	81677.0	100.0

Coefficient of Utilization

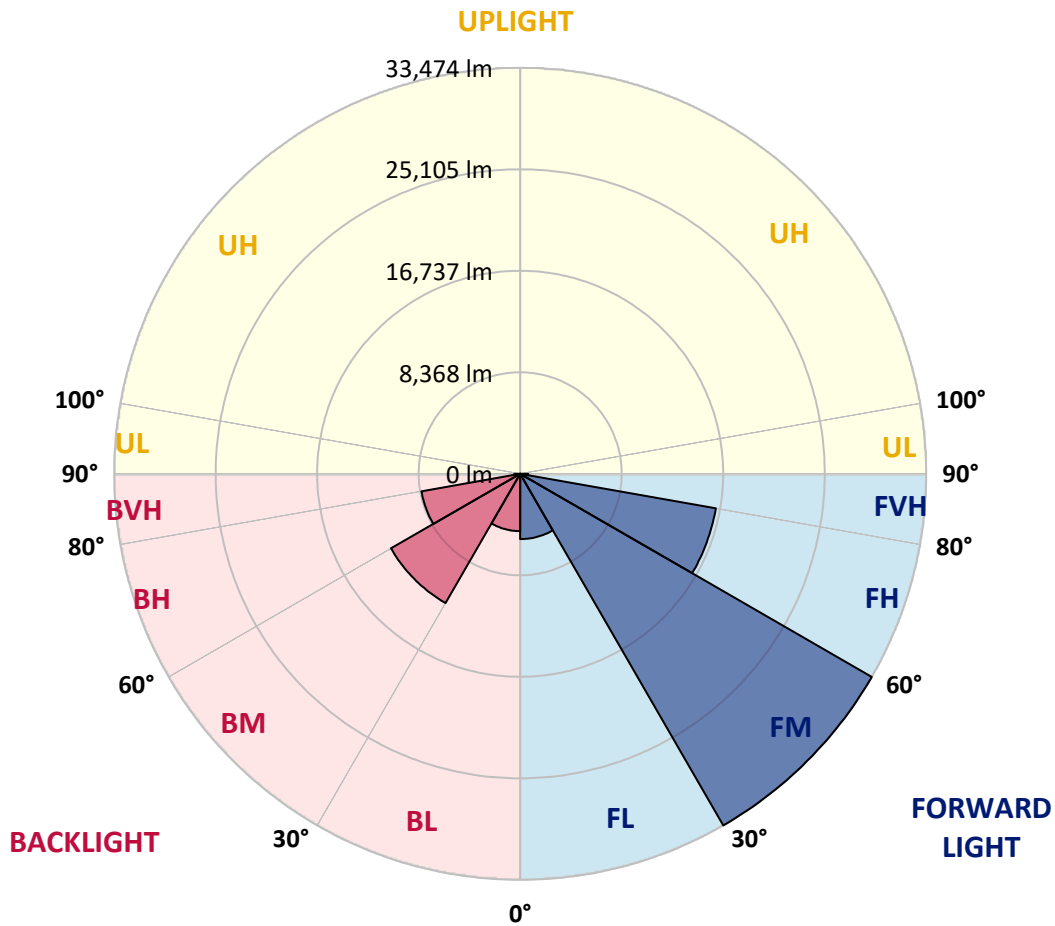


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5383.6	6.6			
FM (30°-60°)	33473.9	41.0			
FH (60°-80°)	16382.0	20.1			G5
FVH (80°-90°)	663.8	0.8			G4/750
BL (0°-30°)	4726.6	5.8	B4/5000		
BM (30°-60°)	12304.0	15.1	B5		
BH (60°-80°)	8268.0	10.1	B5		G5
BVH (80°-90°)	475.1	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5
 Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	9000.5	9000.5	9000.5	9000.5	9000.5	9000.5	9000.5	9000.5	9000.5	9000.5
2.5°	8941.1	8915.7	8936.9	8936.9	8945.4	8941.1	8970.8	8979.3	8992.0	9017.4
5°	8852.1	8847.9	8886.0	8919.9	8953.8	8983.5	9021.6	9076.7	9085.2	9114.9
7.5°	8822.5	8797.1	8856.4	8898.8	8979.3	9051.3	9153.0	9246.2	9284.4	9297.1
10°	9051.3	9008.9	9064.0	9089.4	9157.2	9229.3	9347.9	9496.2	9538.6	9589.5
12.5°	9441.2	9394.5	9475.1	9513.2	9576.8	9640.3	9720.8	9864.9	9886.1	9979.3
15°	9975.1	9920.0	9970.8	10017.5	10123.4	10182.7	10263.2	10403.1	10403.1	10475.1
17.5°	10699.7	10627.7	10665.8	10682.7	10750.5	10839.5	10975.1	11098.0	11161.6	11136.2
20°	11780.3	11691.3	11691.3	11606.5	11581.1	11653.1	11831.1	12000.6	12068.4	11937.0
22.5°	13403.2	13276.1	13204.1	12915.9	12801.5	12810.0	12987.9	13195.6	13250.7	13017.6
25°	15466.9	15267.7	15170.3	14746.5	14488.0	14263.4	14403.3	14670.2	14746.5	14458.4
27.5°	17530.5	17543.3	17450.0	16941.5	16513.5	16102.5	16030.5	16310.1	16390.7	16064.4
30°	20424.8	20123.9	19945.9	19335.7	18725.5	18149.2	17852.6	17967.0	17988.2	17598.3
32.5°	22920.6	22844.4	22463.0	21929.1	21145.1	20242.5	19746.8	19564.5	19530.6	18975.5
35°	25764.0	25721.6	25319.1	24683.4	23835.9	22581.6	21687.5	21166.3	21123.9	20344.2
37.5°	28654.0	28654.0	28259.9	27564.9	26687.8	25119.9	23759.7	22933.4	22797.8	21780.8
40°	30959.2	30819.3	30891.4	30599.0	29594.7	27929.4	26060.6	24861.4	24679.2	23458.8
42.5°	32268.6	32222.0	32654.2	32980.5	32569.4	31238.9	28594.7	26950.5	26696.3	25306.4
45°	32561.0	32510.1	33281.3	34476.3	35052.6	34506.0	31349.0	29149.8	28840.4	27238.7
47.5°	31887.2	31785.5	32916.9	34802.6	36650.1	37612.1	34332.2	31535.5	31086.3	29120.1
50°	29861.7	29764.2	31476.2	33980.5	37188.3	39722.3	37569.7	34065.3	33378.8	31137.2
52.5°	25458.9	25505.5	28187.9	31628.7	36480.6	41036.0	40358.0	36730.7	35904.3	33200.8
55°	19831.5	19933.2	23230.0	27018.3	33650.0	40836.8	42260.6	39476.6	38654.5	35141.6
57.5°	14199.9	14649.0	17738.2	21488.4	28213.3	37679.9	42675.9	42086.9	41290.2	37260.3
60°	9203.9	9284.4	12462.5	16242.3	21484.1	32069.4	41832.6	44065.8	43442.9	39421.5
62.5°	5898.6	5953.7	7890.2	11360.7	15462.6	23725.8	38993.5	44926.0	44735.3	40849.5
65°	4335.0	4292.6	5301.1	7508.9	10415.8	14632.1	33480.5	44510.7	44887.8	41743.6
67.5°	3618.8	3559.5	4055.3	5199.4	7674.1	8309.7	24772.4	41811.4	43192.8	41641.9
70°	3296.8	3245.9	3546.8	3860.4	5987.6	5563.8	12487.9	36349.3	38476.5	40485.1
72.5°	2792.5	2703.5	3114.6	3428.1	4657.0	4267.2	5161.3	27920.9	30514.2	36777.3
75°	2165.4	2106.0	2457.8	3017.1	3500.2	3330.7	3262.9	16954.2	19784.9	28442.1
77.5°	1716.2	1635.7	1957.7	2351.8	3148.5	2512.8	2377.2	7301.2	10106.4	18157.7
80°	1292.4	1220.4	1487.4	1860.3	2419.6	1894.2	1538.2	2979.0	3809.5	9199.6
82.5°	919.5	856.0	1038.2	1364.5	1627.2	1699.2	945.0	1669.6	1877.2	3546.8
85°	589.0	550.9	695.0	856.0	1034.0	1093.3	576.3	872.9	957.7	1461.9
87.5°	322.1	262.7	372.9	398.3	478.8	436.5	275.4	317.8	343.2	529.7
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°
9000.5	0°	9000.5	9000.5	9000.5	9000.5	9000.5	9000.5	9000.5	9000.5	9000.5	9000.5
9017.4	2.5°	9034.4	9047.1	9089.4	9102.2	9131.8	9170.0	9195.4	9220.8	9220.8	9246.2
9153.0	5°	9157.2	9186.9	9275.9	9322.5	9398.8	9475.1	9521.7	9576.8	9610.7	9627.6
9369.1	7.5°	9394.5	9441.2	9568.3	9648.8	9780.2	9886.1	9958.1	10034.4	10051.4	10098.0
9670.0	10°	9716.6	9771.7	9915.8	10068.3	10225.1	10356.5	10424.3	10479.3	10500.5	10509.0
10055.6	12.5°	10085.3	10165.8	10352.2	10538.7	10703.9	10818.3	10835.3	10822.6	10763.3	10712.4
10530.2	15°	10538.7	10610.7	10818.3	11021.7	11182.8	11204.0	11098.0	11030.2	10958.2	10945.5
11059.9	17.5°	11081.1	11119.2	11309.9	11509.1	11521.8	11449.7	11292.9	11229.4	11161.6	11115.0
11750.6	20°	11712.5	11699.7	11835.3	11920.1	11831.1	11610.8	11373.5	11267.5	11199.7	11144.6
12598.1	22.5°	12466.7	12369.3	12352.3	12331.1	12093.8	11631.9	11309.9	11174.3	11068.4	10992.1
13780.4	25°	13564.2	13191.3	12932.9	12788.8	12254.9	11517.5	11106.5	10805.6	10606.5	10475.1
15225.3	27.5°	14937.2	14310.0	13657.5	13305.8	12254.9	11284.5	10614.9	10127.6	9801.3	9665.7
16623.7	30°	16246.6	15589.8	14627.9	13928.7	12225.2	10903.1	9822.5	9144.5	8763.2	8627.6
17818.7	32.5°	17365.3	16649.1	15657.6	14610.9	12153.2	10284.4	8839.4	8089.4	7720.7	7559.7
19001.0	35°	18403.5	17640.7	16691.5	15360.9	11962.5	9377.6	7758.9	7186.8	6775.8	6517.3
20204.4	37.5°	19467.1	18560.3	17670.4	16038.9	11619.2	8318.2	6928.3	6441.0	5957.9	5610.5
21484.1	40°	20623.9	19539.1	18717.0	16441.5	11055.6	7309.7	6284.2	5839.3	5326.5	4957.9
22958.8	42.5°	21975.7	20712.9	19882.4	16649.1	10284.4	6593.6	5864.7	5428.2	4945.2	4644.3
24539.4	45°	23386.8	22005.3	20946.0	16644.9	9424.2	6258.8	5729.1	5296.9	4763.0	4449.4
26162.3	47.5°	24865.7	23357.1	21865.5	16373.7	8678.4	6305.4	5652.8	5013.0	4424.0	4118.9
27802.2	50°	26348.8	24836.0	22755.4	15865.2	8360.6	6203.7	5368.9	4614.6	3919.7	3644.3
29340.5	52.5°	27819.2	26408.1	23522.4	15140.6	8038.5	5826.6	5004.5	4097.7	3712.1	3521.4
30929.5	55°	29298.1	27963.3	24357.2	14085.5	7233.4	5385.9	4394.3	3902.7	3546.8	3373.1
32484.7	57.5°	30781.2	29760.0	25149.6	13030.3	6220.7	4843.5	4059.5	3665.4	3381.5	3233.2
33785.6	60°	32323.7	31815.2	25967.4	12059.9	5220.6	4148.5	3813.8	3474.8	3186.6	3021.3
35035.7	62.5°	33912.7	34078.0	26607.3	10809.9	4301.1	3724.8	3593.4	3245.9	2966.3	2809.5
36069.6	65°	35514.5	36260.3	27026.8	9076.7	3487.5	3322.2	3356.1	2995.9	2712.0	2576.4
36828.1	67.5°	36722.2	37832.4	26908.1	6869.0	2860.3	2940.8	3059.5	2733.2	2466.2	2360.3
36705.2	70°	36857.8	37646.0	25738.6	4703.6	2394.2	2567.9	2729.0	2474.7	2199.3	2123.0
34976.3	72.5°	35052.6	35103.5	22479.9	3072.2	2025.5	2254.4	2381.5	2212.0	1945.0	1868.7
30599.0	75°	30319.3	29031.1	16505.1	2025.5	1695.0	1936.5	2055.2	1936.5	1678.1	1695.0
22895.2	77.5°	22971.5	20560.4	10021.7	1440.8	1415.3	1627.2	1788.2	1703.5	1483.1	1665.3
11513.3	80°	11835.3	11123.4	4470.6	1076.3	1118.7	1300.9	1470.4	1360.2	1173.8	1118.7
2572.2	82.5°	2712.0	3152.7	1762.8	771.2	809.4	936.5	1122.9	1021.2	843.3	711.9
1072.1	85°	949.2	1038.2	779.7	483.1	474.6	584.8	762.8	682.2	572.1	457.7
453.4	87.5°	300.9	394.1	292.4	194.9	203.4	262.7	351.7	322.1	267.0	173.7
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>
9000.5
9246.2
9636.1
10081.0
10487.8
10712.4
10945.5
11119.2
11148.9
11017.5
10526.0
9733.5
8708.1
7640.2
6602.0
5703.7
5029.9
4703.6
4500.2
4161.2
3661.2
3521.4
3356.1
3207.8
3008.6
2805.2
2572.2
2364.5
2127.2
1864.5
1635.7
1466.2
1021.2
703.4
483.1
182.2
0.0

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