

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: P951881

Luminaire Tested: **GALN-SB5D-927-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951881
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-SB5D-927-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 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: 31708 lumens
Efficiency: N/A
Efficacy: 86.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

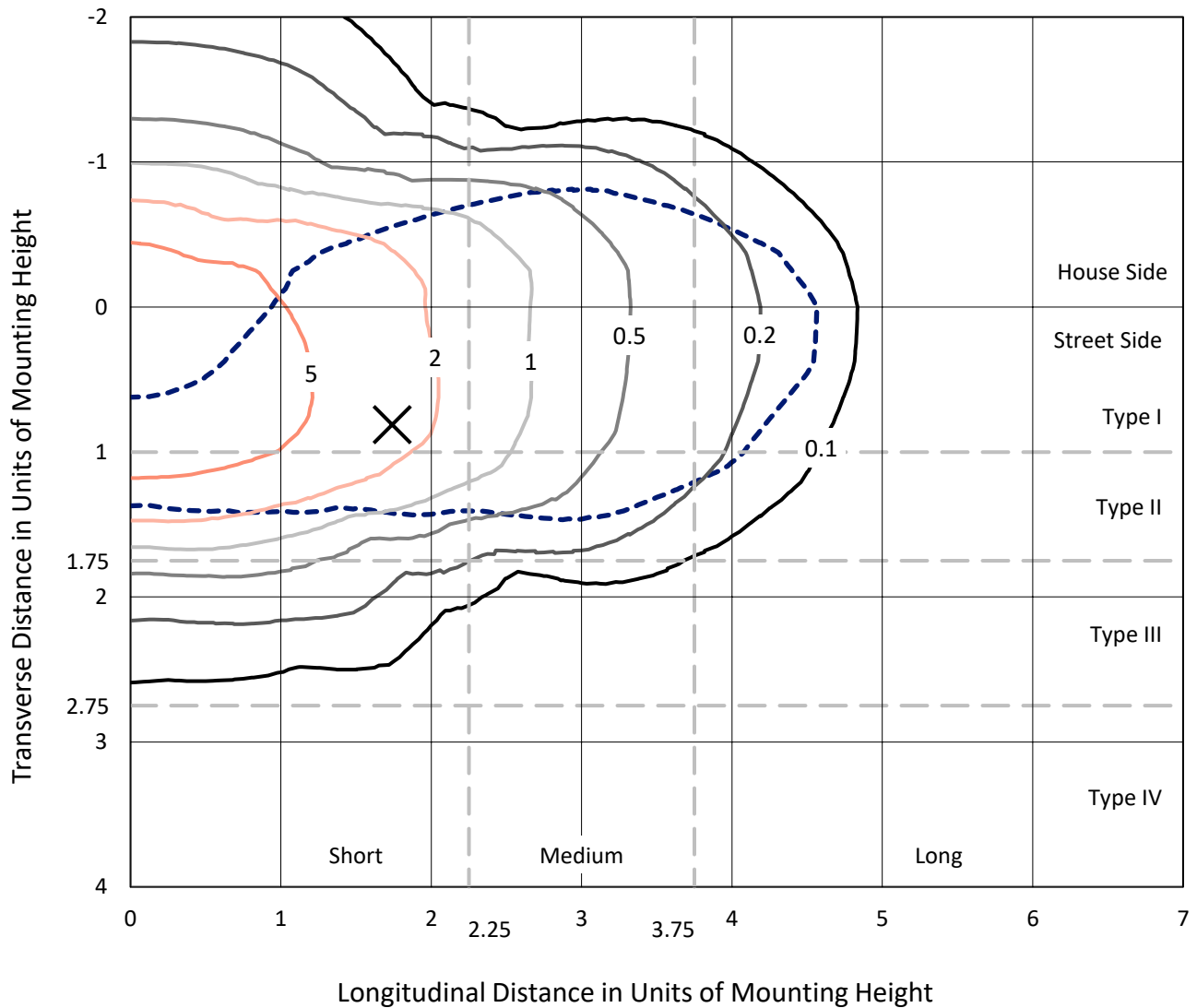
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

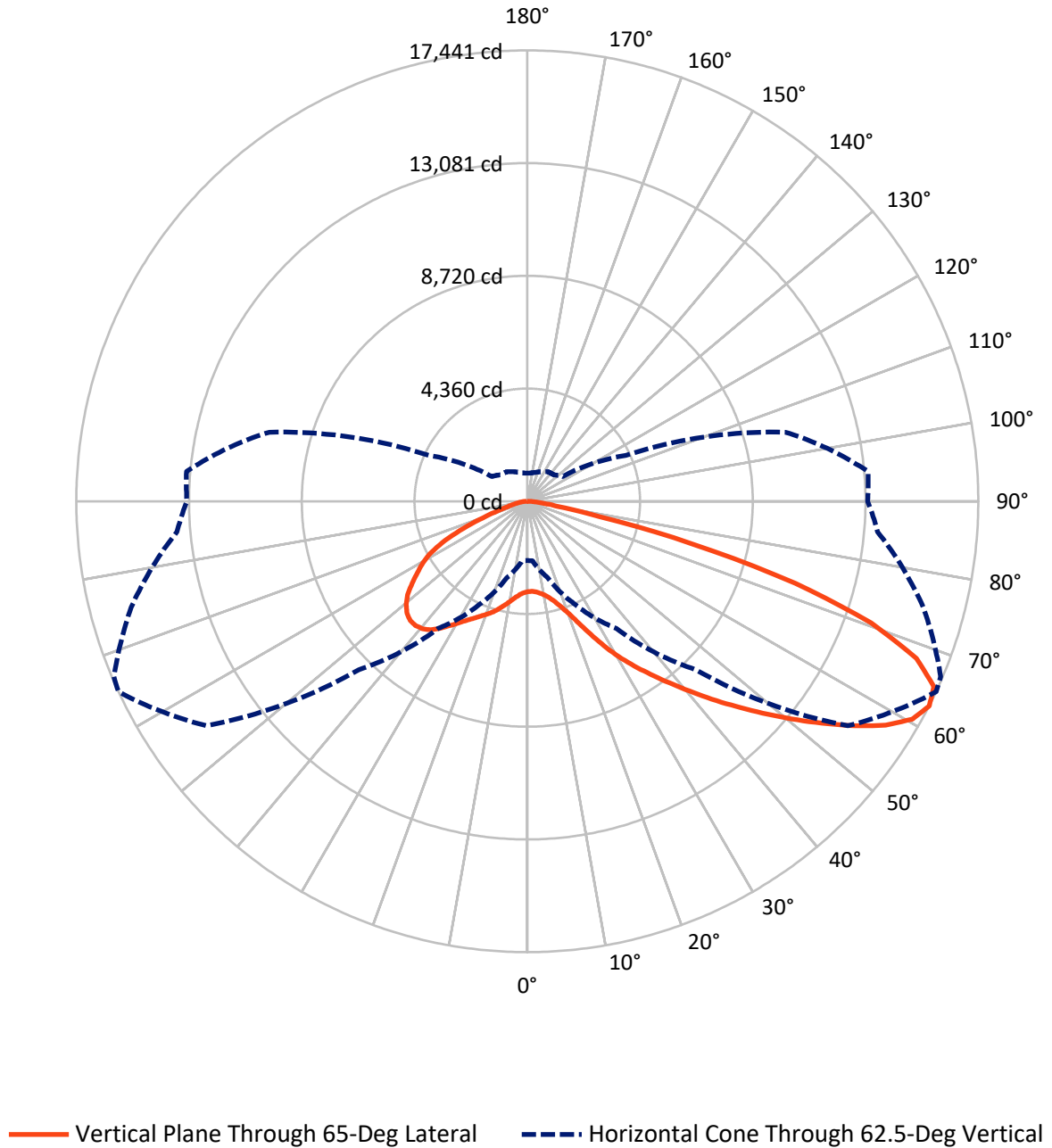
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 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	10005.7	0.0	10005.7
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	21702.3	0.0	21702.3
	% Fixture	68.4	0.0	68.4
Total	Lumens	31708.0	0.0	31708.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	348.4	1.1
10°-20°	1181.3	3.7
20°-30°	2395.2	7.6
30°-40°	4144.9	13.1
40°-50°	6272.5	19.8
50°-60°	7354.1	23.2
60°-70°	6165.5	19.4
70°-80°	3403.9	10.7
80°-90°	442.1	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°	31708.0	100.0
0°-180°	31708.0	100.0

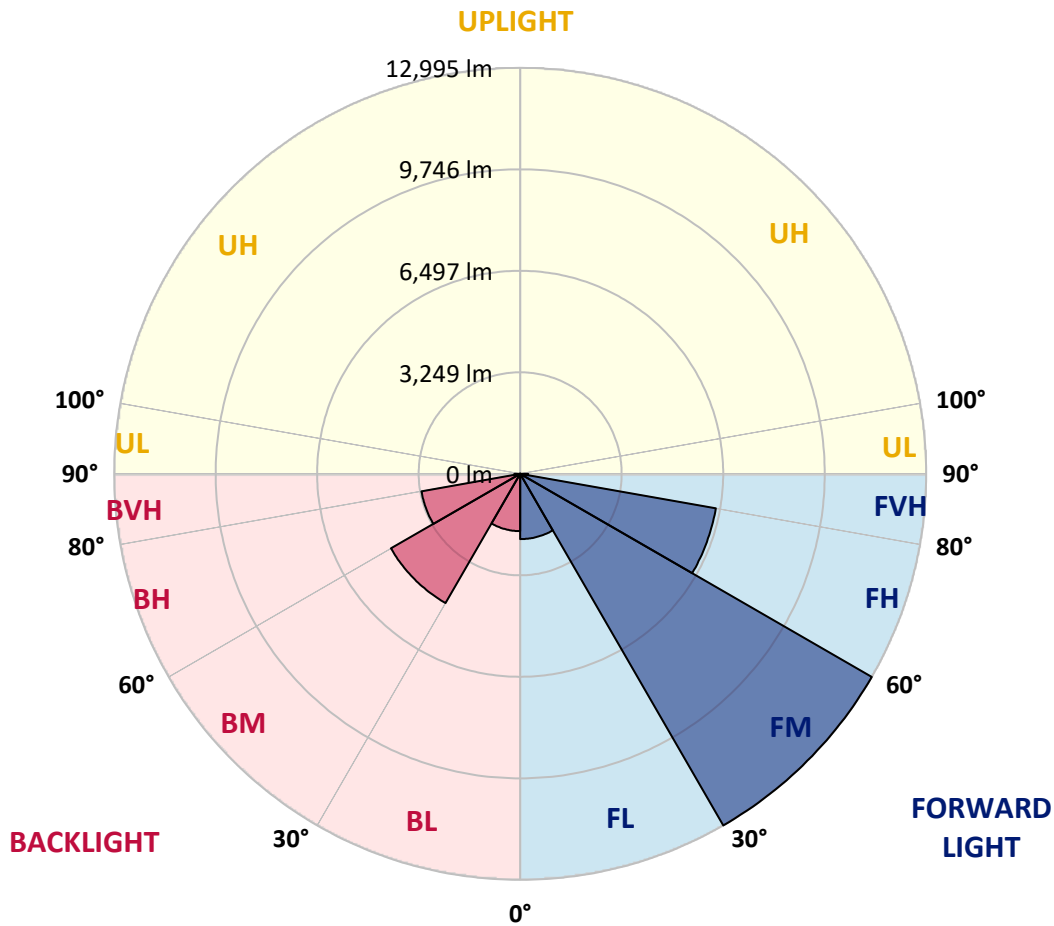


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2090.0	6.6			
FM (30°-60°)	12995.0	41.0			
FH (60°-80°)	6359.7	20.1			G3/7500
FVH (80°-90°)	257.7	0.8			G3/500
BL (0°-30°)	1834.9	5.8	B3/2500		
BM (30°-60°)	4776.6	15.1	B3/5000		
BH (60°-80°)	3209.7	10.1	B4/5000		G4/5000
BVH (80°-90°)	184.5	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4
 Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	3494.1	3494.1	3494.1	3494.1	3494.1	3494.1	3494.1	3494.1	3494.1	3494.1
2.5°	3471.1	3461.2	3469.4	3469.4	3472.7	3471.1	3482.6	3485.9	3490.8	3500.7
5°	3436.5	3434.9	3449.7	3462.8	3476.0	3487.5	3502.3	3523.7	3527.0	3538.5
7.5°	3425.0	3415.1	3438.2	3454.6	3485.9	3513.8	3553.3	3589.5	3604.3	3609.2
10°	3513.8	3497.4	3518.8	3528.6	3555.0	3582.9	3629.0	3686.6	3703.0	3722.7
12.5°	3665.2	3647.1	3678.3	3693.1	3717.8	3742.5	3773.7	3829.7	3837.9	3874.1
15°	3872.4	3851.1	3870.8	3888.9	3930.0	3953.1	3984.3	4038.6	4038.6	4066.6
17.5°	4153.7	4125.8	4140.6	4147.2	4173.5	4208.0	4260.7	4308.4	4333.1	4323.2
20°	4573.2	4538.7	4538.7	4505.8	4495.9	4523.9	4593.0	4658.8	4685.1	4634.1
22.5°	5203.3	5153.9	5126.0	5014.1	4969.7	4973.0	5042.1	5122.7	5144.1	5053.6
25°	6004.4	5927.1	5889.3	5724.8	5624.4	5537.2	5591.5	5695.2	5724.8	5612.9
27.5°	6805.6	6810.5	6774.3	6576.9	6410.8	6251.2	6223.2	6331.8	6363.0	6236.4
30°	7929.1	7812.3	7743.2	7506.4	7269.5	7045.7	6930.6	6975.0	6983.2	6831.9
32.5°	8898.1	8868.5	8720.4	8513.1	8208.8	7858.4	7665.9	7595.2	7582.0	7366.5
35°	10001.9	9985.4	9829.2	9582.4	9253.4	8766.5	8419.4	8217.0	8200.6	7897.9
37.5°	11123.8	11123.8	10970.8	10701.0	10360.5	9751.9	9223.8	8903.0	8850.4	8455.6
40°	12018.7	11964.4	11992.4	11878.9	11489.0	10842.5	10117.1	9651.5	9580.8	9107.0
42.5°	12527.0	12509.0	12676.7	12803.4	12643.8	12127.3	11100.8	10462.5	10363.8	9824.2
45°	12640.6	12620.8	12920.2	13384.1	13607.8	13395.6	12170.1	11316.3	11196.2	10574.4
47.5°	12379.0	12339.5	12778.7	13510.8	14228.0	14601.5	13328.2	12242.5	12068.1	11304.8
50°	11592.7	11554.8	12219.4	13191.6	14437.0	15420.7	14585.0	13224.5	12958.1	12087.8
52.5°	9883.5	9901.6	10942.9	12278.6	14162.2	15930.7	15667.4	14259.3	13938.5	12889.0
55°	7698.8	7738.3	9018.2	10488.8	13063.3	15853.3	16406.1	15325.3	15006.1	13642.4
57.5°	5512.6	5686.9	6886.2	8342.0	10952.7	14627.8	16567.3	16338.6	16029.4	14464.9
60°	3573.0	3604.3	4838.1	6305.5	8340.4	12449.7	16239.9	17106.9	16865.0	15303.9
62.5°	2289.9	2311.3	3063.1	4410.4	6002.8	9210.6	15137.7	17440.8	17366.8	15858.3
65°	1682.9	1666.4	2058.0	2915.0	4043.5	5680.4	12997.5	17279.6	17426.0	16205.4
67.5°	1404.9	1381.8	1574.3	2018.5	2979.2	3225.9	9617.0	16231.7	16768.0	16165.9
70°	1279.8	1260.1	1376.9	1498.6	2324.5	2159.9	4848.0	14111.2	14937.0	15716.8
72.5°	1084.1	1049.5	1209.1	1330.8	1807.9	1656.6	2003.7	10839.2	11846.0	14277.4
75°	840.6	817.6	954.1	1171.3	1358.8	1293.0	1266.7	6581.8	7680.7	11041.6
77.5°	666.2	635.0	760.0	913.0	1222.3	975.5	922.9	2834.4	3923.4	7049.0
80°	501.7	473.8	577.4	722.2	939.3	735.3	597.2	1156.5	1478.9	3571.4
82.5°	357.0	332.3	403.0	529.7	631.7	659.7	366.8	648.1	728.8	1376.9
85°	228.7	213.9	269.8	332.3	401.4	424.4	223.7	338.9	371.8	567.5
87.5°	125.0	102.0	144.8	154.6	185.9	169.4	106.9	123.4	133.2	205.6
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°
3494.1	0°	3494.1	3494.1	3494.1	3494.1	3494.1	3494.1	3494.1	3494.1	3494.1	3494.1
3500.7	2.5°	3507.2	3512.2	3528.6	3533.6	3545.1	3559.9	3569.8	3579.6	3579.6	3589.5
3553.3	5°	3555.0	3566.5	3601.0	3619.1	3648.7	3678.3	3696.4	3717.8	3731.0	3737.6
3637.2	7.5°	3647.1	3665.2	3714.5	3745.8	3796.8	3837.9	3865.9	3895.5	3902.1	3920.2
3754.0	10°	3772.1	3793.5	3849.4	3908.6	3969.5	4020.5	4046.8	4068.2	4076.4	4079.7
3903.7	12.5°	3915.2	3946.5	4018.9	4091.2	4155.4	4199.8	4206.4	4201.5	4178.4	4158.7
4087.9	15°	4091.2	4119.2	4199.8	4278.8	4341.3	4349.5	4308.4	4282.1	4254.1	4249.2
4293.6	17.5°	4301.8	4316.6	4390.6	4468.0	4472.9	4444.9	4384.1	4359.4	4333.1	4315.0
4561.7	20°	4546.9	4542.0	4594.6	4627.5	4593.0	4507.4	4415.3	4374.2	4347.9	4326.5
4890.7	22.5°	4839.7	4801.9	4795.3	4787.1	4695.0	4515.7	4390.6	4338.0	4296.9	4267.3
5349.7	25°	5265.8	5121.0	5020.7	4964.8	4757.5	4471.2	4311.7	4194.9	4117.6	4066.6
5910.7	27.5°	5798.8	5555.3	5302.0	5165.5	4757.5	4380.8	4120.8	3931.7	3805.0	3752.4
6453.5	30°	6307.1	6052.1	5678.7	5407.3	4746.0	4232.7	3813.2	3550.0	3402.0	3349.3
6917.4	32.5°	6741.4	6463.4	6078.5	5672.1	4718.0	3992.5	3431.6	3140.4	2997.3	2934.8
7376.4	35°	7144.4	6848.3	6479.8	5963.3	4644.0	3640.5	3012.1	2790.0	2630.4	2530.1
7843.6	37.5°	7557.4	7205.3	6859.9	6226.5	4510.7	3229.2	2689.7	2500.5	2312.9	2178.0
8340.4	40°	8006.5	7585.3	7266.2	6382.8	4291.9	2837.7	2439.6	2266.9	2067.8	1924.7
8912.9	42.5°	8531.2	8041.0	7718.6	6463.4	3992.5	2559.7	2276.7	2107.3	1919.8	1803.0
9526.5	45°	9079.0	8542.7	8131.5	6461.8	3658.6	2429.7	2224.1	2056.3	1849.0	1727.3
10156.5	47.5°	9653.1	9067.5	8488.5	6356.5	3369.1	2447.8	2194.5	1946.1	1717.4	1599.0
10793.2	50°	10228.9	9641.6	8833.9	6159.1	3245.7	2408.4	2084.3	1791.5	1521.7	1414.7
11390.3	52.5°	10799.7	10251.9	9131.7	5877.8	3120.7	2261.9	1942.8	1590.8	1441.1	1367.0
12007.2	55°	11373.9	10855.7	9455.7	5468.1	2808.1	2090.9	1705.9	1515.1	1376.9	1309.5
12610.9	57.5°	11949.6	11553.2	9763.4	5058.5	2414.9	1880.3	1576.0	1423.0	1312.7	1255.2
13116.0	60°	12548.4	12351.0	10080.9	4681.8	2026.7	1610.5	1480.5	1348.9	1237.1	1172.9
13601.3	62.5°	13165.3	13229.5	10329.3	4196.5	1669.7	1446.0	1395.0	1260.1	1151.5	1090.7
14002.7	65°	13787.2	14076.7	10492.1	3523.7	1353.9	1289.7	1302.9	1163.0	1052.8	1000.2
14297.1	67.5°	14256.0	14687.0	10446.1	2666.6	1110.4	1141.7	1187.7	1061.1	957.4	916.3
14249.4	70°	14308.6	14614.6	9992.0	1826.0	929.5	996.9	1059.4	960.7	853.8	824.2
13578.2	72.5°	13607.8	13627.6	8727.0	1192.7	786.3	875.2	924.5	858.7	755.1	725.5
11878.9	75°	11770.3	11270.2	6407.5	786.3	658.0	751.8	797.8	751.8	651.4	658.0
8888.2	77.5°	8917.8	7981.8	3890.5	559.3	549.4	631.7	694.2	661.3	575.8	646.5
4469.6	80°	4594.6	4318.3	1735.5	417.8	434.3	505.0	570.8	528.1	455.7	434.3
998.5	82.5°	1052.8	1223.9	684.3	299.4	314.2	363.6	435.9	396.5	327.4	276.4
416.2	85°	368.5	403.0	302.7	187.5	184.2	227.0	296.1	264.9	222.1	177.7
176.0	87.5°	116.8	153.0	113.5	75.7	79.0	102.0	136.5	125.0	103.6	67.4
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>
3494.1
3589.5
3740.8
3913.6
4071.5
4158.7
4249.2
4316.6
4328.1
4277.1
4086.3
3778.7
3380.6
2966.0
2563.0
2214.2
1952.7
1826.0
1747.0
1615.4
1421.3
1367.0
1302.9
1245.3
1168.0
1089.0
998.5
917.9
825.8
723.8
635.0
569.2
396.5
273.1
187.5
70.7
0.0

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