

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: P955451

Luminaire Tested: **GALN-SB8B-927-U-T2U**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P955451  
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-SB8B-927-U-T2U  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 90 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

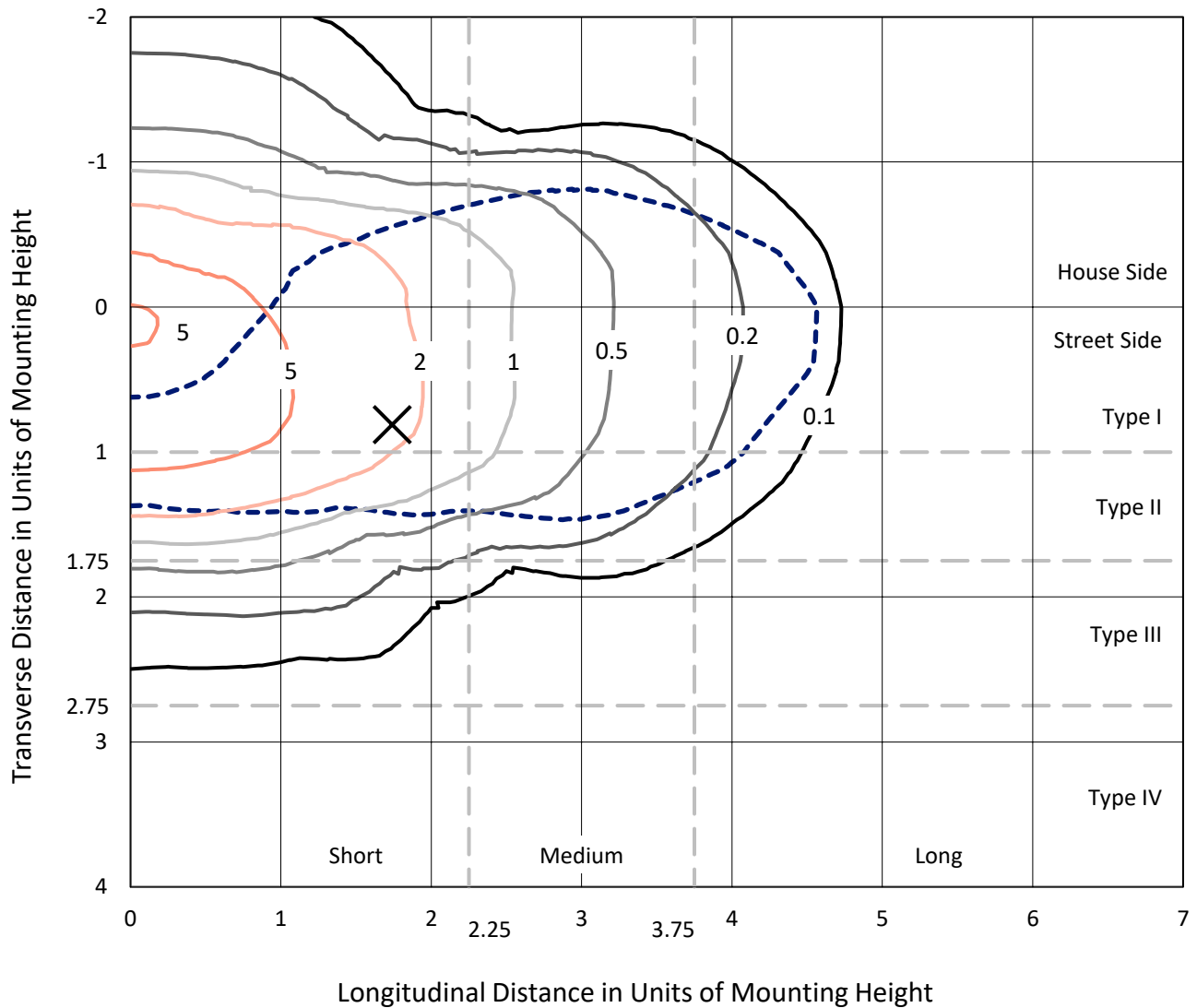
Lumens per Lamp: N/A  
Luminaire Lumens: 28087 lumens  
Efficiency: N/A  
Efficacy: 95.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 292.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

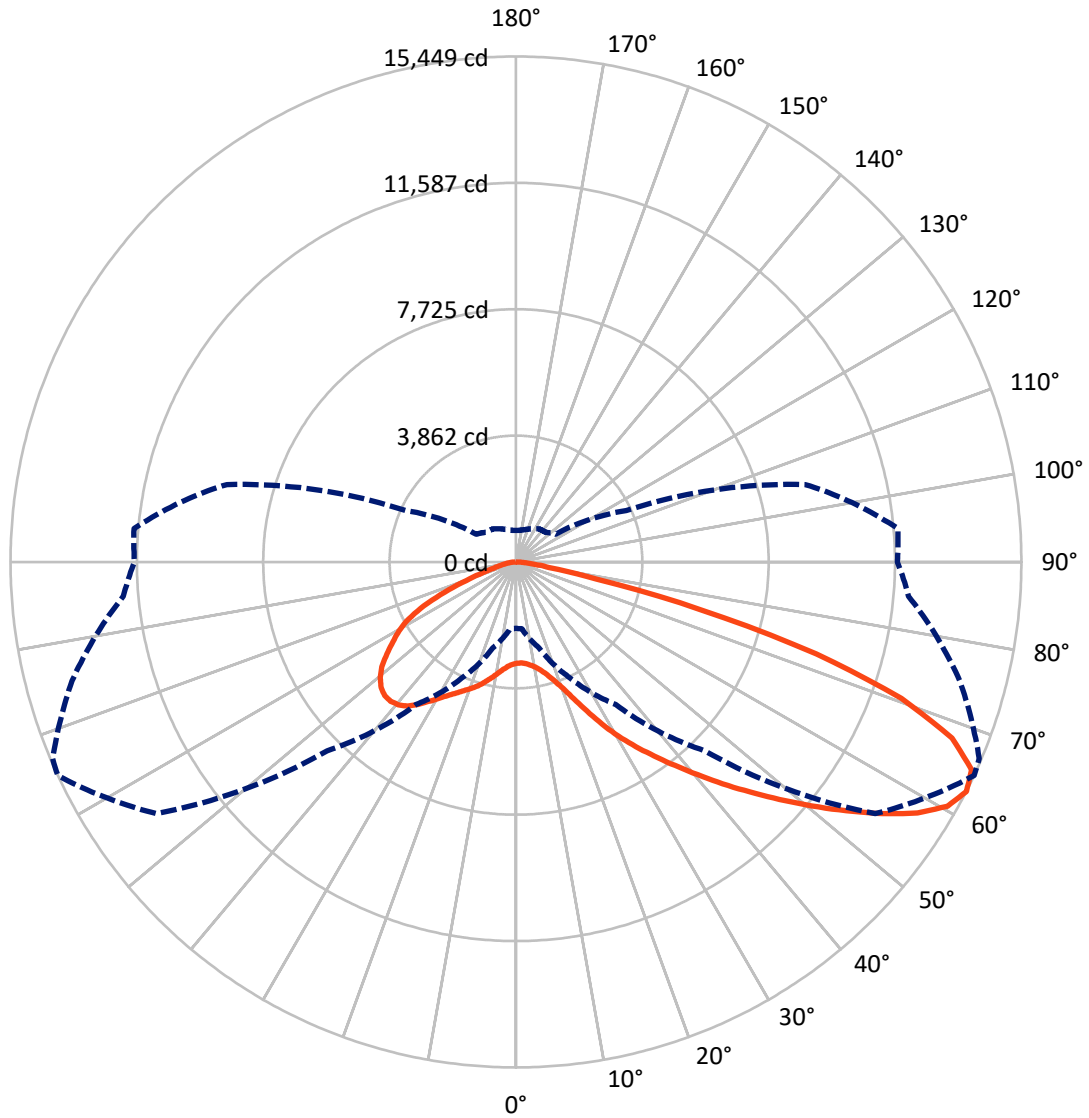
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8863.0	0.0	8863.0
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	19224.0	0.0	19224.0
	% Fixture	68.4	0.0	68.4
<b>Total</b>	Lumens	28087.0	0.0	28087.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	308.6	1.1
10°-20°	1046.4	3.7
20°-30°	2121.7	7.6
30°-40°	3671.6	13.1
40°-50°	5556.2	19.8
50°-60°	6514.3	23.2
60°-70°	5461.5	19.4
70°-80°	3015.2	10.7
80°-90°	391.7	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°	28087.0	100.0
0°-180°	28087.0	100.0

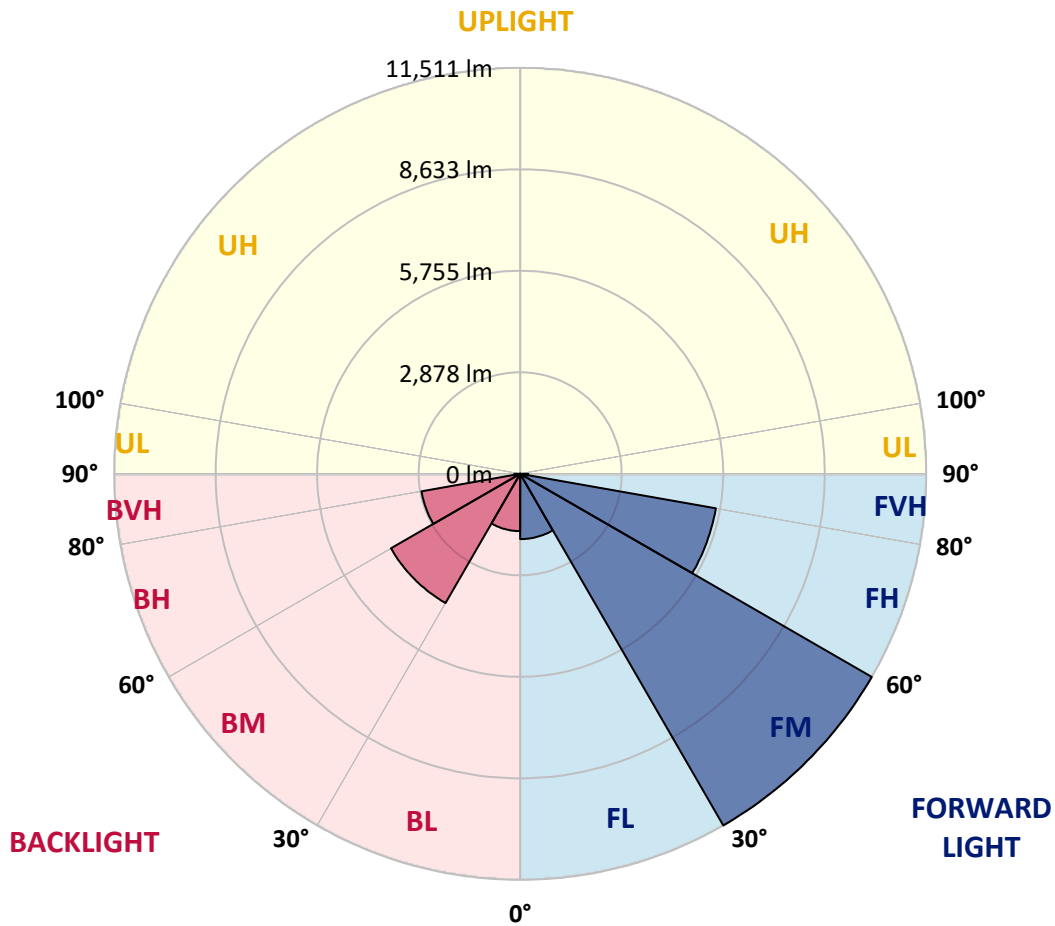


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1851.3	6.6			
FM (30°-60°)	11511.0	41.0			
FH (60°-80°)	5633.4	20.1			G3/7500
FVH (80°-90°)	228.3	0.8			G3/500
BL (0°-30°)	1625.4	5.8	B3/2500		
BM (30°-60°)	4231.1	15.1	B3/5000		
BH (60°-80°)	2843.2	10.1	B4/5000		G4/5000
BVH (80°-90°)	163.4	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°	3095.1	3095.1	3095.1	3095.1	3095.1	3095.1	3095.1	3095.1	3095.1	3095.1
2.5°	3074.7	3065.9	3073.2	3073.2	3076.1	3074.7	3084.9	3087.8	3092.2	3100.9
5°	3044.1	3042.6	3055.7	3067.4	3079.0	3089.2	3102.4	3121.3	3124.2	3134.4
7.5°	3033.9	3025.1	3045.5	3060.1	3087.8	3112.6	3147.5	3179.6	3192.7	3197.1
10°	3112.6	3098.0	3116.9	3125.7	3149.0	3173.8	3214.6	3265.6	3280.1	3297.6
12.5°	3246.6	3230.6	3258.3	3271.4	3293.2	3315.1	3342.8	3392.3	3399.6	3431.7
15°	3430.2	3411.3	3428.8	3444.8	3481.2	3501.6	3529.3	3577.4	3577.4	3602.2
17.5°	3679.4	3654.6	3667.7	3673.6	3696.9	3727.5	3774.1	3816.4	3838.2	3829.5
20°	4051.0	4020.4	4020.4	3991.2	3982.5	4007.3	4068.5	4126.8	4150.1	4104.9
22.5°	4609.1	4565.4	4540.6	4441.5	4402.2	4405.1	4466.3	4537.7	4556.6	4476.5
25°	5318.7	5250.2	5216.7	5071.0	4982.1	4904.9	4953.0	5044.8	5071.0	4971.9
27.5°	6028.4	6032.8	6000.7	5825.8	5678.7	5537.3	5512.5	5608.7	5636.4	5524.2
30°	7023.6	6920.2	6859.0	6649.1	6439.3	6241.1	6139.1	6178.5	6185.8	6051.7
32.5°	7881.9	7855.7	7724.5	7540.9	7271.4	6961.0	6790.5	6727.8	6716.2	6525.3
35°	8859.7	8845.1	8706.7	8488.1	8196.7	7765.4	7457.9	7278.7	7264.1	6996.0
37.5°	9853.5	9853.5	9718.0	9479.0	9177.4	8638.2	8170.4	7886.3	7839.7	7489.9
40°	10646.2	10598.1	10622.9	10522.3	10177.0	9604.3	8961.7	8549.3	8486.7	8067.0
42.5°	11096.5	11080.5	11229.1	11341.3	11199.9	10742.4	9833.1	9267.7	9180.3	8702.3
45°	11197.0	11179.5	11444.7	11855.7	12053.9	11865.9	10780.3	10024.0	9917.6	9366.8
47.5°	10965.3	10930.4	11319.4	11967.9	12603.2	12934.0	11806.1	10844.4	10689.9	10013.8
50°	10268.8	10235.3	10824.0	11685.2	12788.3	13659.7	12919.4	11714.3	11478.3	10707.4
52.5°	8754.8	8770.8	9693.2	10876.4	12544.9	14111.4	13878.3	12630.9	12346.7	11417.1
55°	6819.6	6854.6	7988.3	9291.0	11571.5	14042.9	14532.5	13575.2	13292.5	12084.5
57.5°	4883.0	5037.5	6099.8	7389.4	9702.0	12957.3	14675.3	14472.8	14198.8	12813.0
60°	3165.0	3192.7	4285.6	5585.4	7387.9	11028.0	14385.4	15153.3	14939.1	13556.2
62.5°	2028.4	2047.3	2713.3	3906.7	5317.3	8158.8	13409.0	15449.1	15383.5	14047.3
65°	1490.7	1476.1	1822.9	2582.1	3581.8	5031.7	11513.2	15306.3	15436.0	14354.8
67.5°	1244.4	1224.0	1394.5	1788.0	2639.0	2857.5	8518.7	14378.1	14853.1	14319.8
70°	1133.7	1116.2	1219.7	1327.5	2059.0	1913.3	4294.3	12499.8	13231.3	13922.0
72.5°	960.3	929.7	1071.0	1178.9	1601.4	1467.4	1774.9	9601.4	10493.2	12646.9
75°	744.6	724.2	845.2	1037.5	1203.6	1145.3	1122.0	5830.2	6803.6	9780.6
77.5°	590.2	562.5	673.2	808.7	1082.7	864.1	817.5	2510.7	3475.4	6244.0
80°	444.4	419.7	511.5	639.7	832.1	651.4	529.0	1024.4	1310.0	3163.6
82.5°	316.2	294.4	357.0	469.2	559.6	584.3	325.0	574.1	645.5	1219.7
85°	202.5	189.4	239.0	294.4	355.6	376.0	198.2	300.2	329.3	502.7
87.5°	110.7	90.3	128.2	137.0	164.7	150.1	94.7	109.3	118.0	182.1
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°
3095.1	0°	3095.1	3095.1	3095.1	3095.1	3095.1	3095.1	3095.1	3095.1	3095.1	3095.1
3100.9	2.5°	3106.7	3111.1	3125.7	3130.0	3140.2	3153.4	3162.1	3170.8	3170.8	3179.6
3147.5	5°	3149.0	3159.2	3189.8	3205.8	3232.0	3258.3	3274.3	3293.2	3304.9	3310.7
3221.8	7.5°	3230.6	3246.6	3290.3	3318.0	3363.2	3399.6	3424.4	3450.6	3456.4	3472.5
3325.3	10°	3341.3	3360.3	3409.8	3462.3	3516.2	3561.4	3584.7	3603.6	3610.9	3613.8
3457.9	12.5°	3468.1	3495.8	3559.9	3624.0	3680.9	3720.2	3726.0	3721.7	3701.3	3683.8
3621.1	15°	3624.0	3648.8	3720.2	3790.1	3845.5	3852.8	3816.4	3793.1	3768.3	3763.9
3803.3	17.5°	3810.5	3823.7	3889.2	3957.7	3962.1	3937.3	3883.4	3861.5	3838.2	3822.2
4040.8	20°	4027.7	4023.3	4069.9	4099.1	4068.5	3992.7	3911.1	3874.7	3851.3	3832.4
4332.2	22.5°	4287.0	4253.5	4247.7	4240.4	4158.8	4000.0	3889.2	3842.6	3806.2	3779.9
4738.8	25°	4664.5	4536.2	4447.3	4397.8	4214.2	3960.6	3819.3	3715.8	3647.3	3602.2
5235.7	27.5°	5136.6	4920.9	4696.5	4575.6	4214.2	3880.5	3650.3	3482.7	3370.5	3323.8
5716.5	30°	5586.9	5361.0	5030.2	4789.8	4204.0	3749.3	3377.8	3144.6	3013.5	2966.8
6127.5	32.5°	5971.6	5725.3	5384.3	5024.4	4179.2	3536.6	3039.7	2781.8	2655.0	2599.6
6534.0	35°	6328.6	6066.3	5739.9	5282.3	4113.6	3224.8	2668.1	2471.4	2330.0	2241.2
6947.9	37.5°	6694.3	6382.5	6076.5	5515.5	3995.6	2860.5	2382.5	2214.9	2048.8	1929.3
7387.9	40°	7092.1	6719.1	6436.4	5653.9	3801.8	2513.6	2161.0	2008.0	1831.7	1704.9
7895.0	42.5°	7557.0	7122.7	6837.1	5725.3	3536.6	2267.4	2016.7	1866.7	1700.5	1597.1
8438.6	45°	8042.2	7567.2	7202.9	5723.8	3240.8	2152.3	1970.1	1821.5	1637.9	1530.0
8996.7	47.5°	8550.8	8032.0	7519.1	5630.6	2984.3	2168.3	1943.9	1723.9	1521.3	1416.4
9560.6	50°	9060.8	8540.6	7825.1	5455.7	2875.0	2133.3	1846.3	1586.9	1347.9	1253.2
10089.6	52.5°	9566.4	9081.2	8088.8	5206.5	2764.3	2003.6	1720.9	1409.1	1276.5	1210.9
10636.0	55°	10075.0	9616.0	8375.9	4843.7	2487.4	1852.1	1511.1	1342.1	1219.7	1159.9
11170.8	57.5°	10585.0	10233.8	8648.4	4480.9	2139.2	1665.6	1396.0	1260.5	1162.8	1111.8
11618.2	60°	11115.4	10940.6	8929.6	4147.2	1795.3	1426.6	1311.5	1194.9	1095.8	1039.0
12048.0	62.5°	11661.9	11718.7	9149.7	3717.3	1479.0	1280.9	1235.7	1116.2	1020.0	966.1
12403.6	65°	12212.7	12469.2	9293.9	3121.3	1199.3	1142.4	1154.1	1030.2	932.6	886.0
12664.4	67.5°	12628.0	13009.8	9253.1	2362.1	983.6	1011.3	1052.1	939.9	848.1	811.7
12622.2	70°	12674.6	12945.7	8851.0	1617.5	823.3	883.1	938.4	851.0	756.3	730.1
12027.6	72.5°	12053.9	12071.3	7730.4	1056.5	696.5	775.2	818.9	760.7	668.8	642.6
10522.3	75°	10426.2	9983.2	5675.7	696.5	582.9	665.9	706.7	665.9	577.0	582.9
7873.2	77.5°	7899.4	7070.3	3446.2	495.4	486.7	559.6	614.9	585.8	510.0	572.7
3959.2	80°	4069.9	3825.1	1537.3	370.1	384.7	447.4	505.6	467.8	403.6	384.7
884.5	82.5°	932.6	1084.1	606.2	265.2	278.3	322.0	386.2	351.2	290.0	244.8
368.7	85°	326.4	357.0	268.1	166.1	163.2	201.1	262.3	234.6	196.7	157.4
155.9	87.5°	103.5	135.5	100.5	67.0	69.9	90.3	120.9	110.7	91.8	59.7
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>
3095.1
3179.6
3313.6
3466.6
3606.5
3683.8
3763.9
3823.7
3833.9
3788.7
3619.7
3347.2
2994.5
2627.3
2270.3
1961.4
1729.7
1617.5
1547.5
1431.0
1259.0
1210.9
1154.1
1103.1
1034.6
964.7
884.5
813.1
731.5
641.2
562.5
504.2
351.2
241.9
166.1
62.7
0.0

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