

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: P951157

Luminaire Tested: **GALN-SB5B-927-U-SL2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P951157  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB5B-927-U-SL2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 90 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

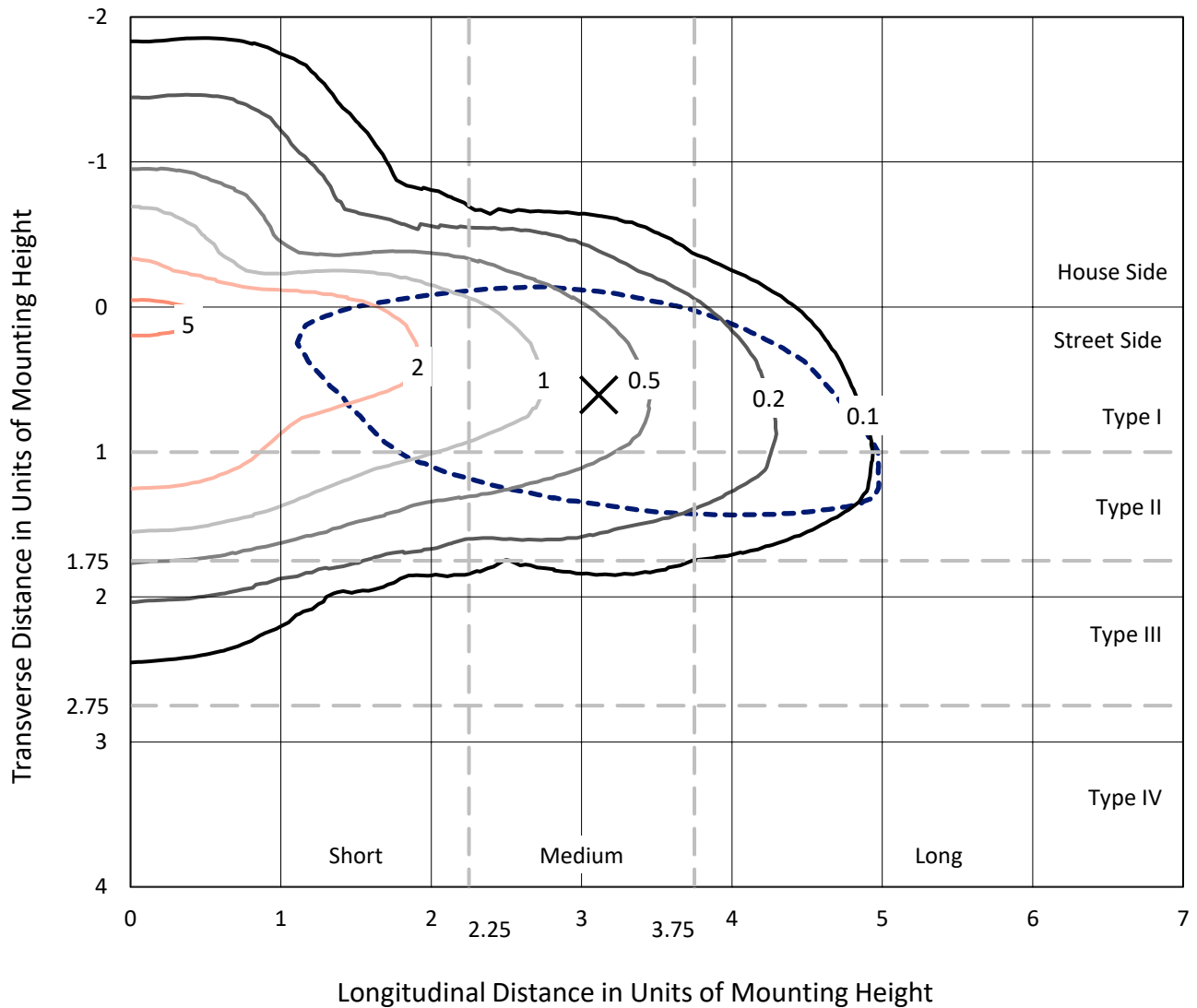
Lumens per Lamp: N/A  
Luminaire Lumens: 17209 lumens  
Efficiency: N/A  
Efficacy: 94.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 182.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

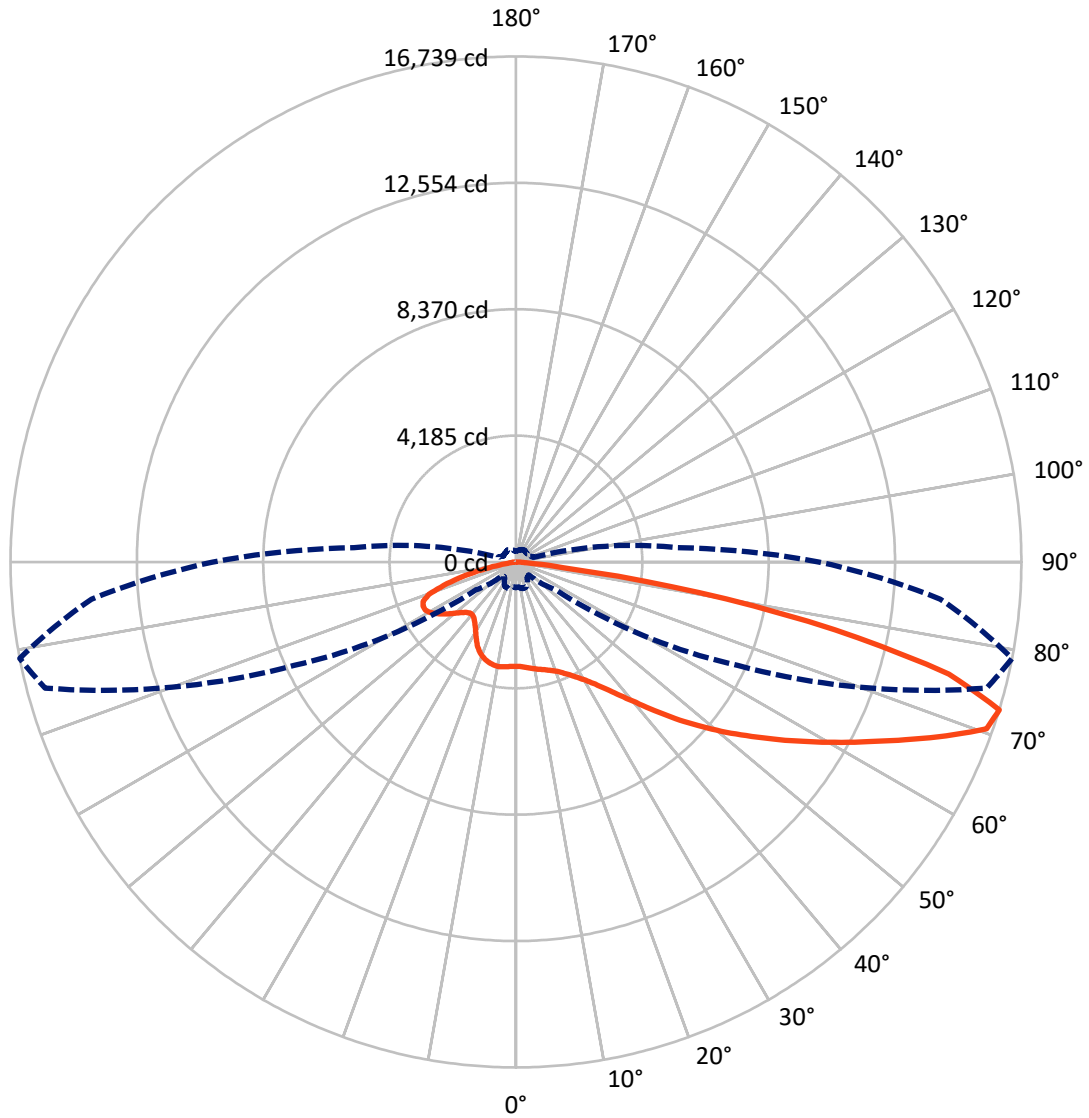
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3786.9	0.0	3786.9
	% Fixture	22.0	0.0	22.0
<b>Street Side</b>	Lumens	13422.1	0.0	13422.1
	% Fixture	78.0	0.0	78.0
<b>Total</b>	Lumens	17209.0	0.0	17209.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	313.6	1.8
10°-20°	819.8	4.8
20°-30°	1322.9	7.7
30°-40°	1985.5	11.5
40°-50°	2816.5	16.4
50°-60°	3556.8	20.7
60°-70°	3612.5	21.0
70°-80°	2462.1	14.3
80°-90°	319.4	1.9
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°	17209.0	100.0
0°-180°	17209.0	100.0



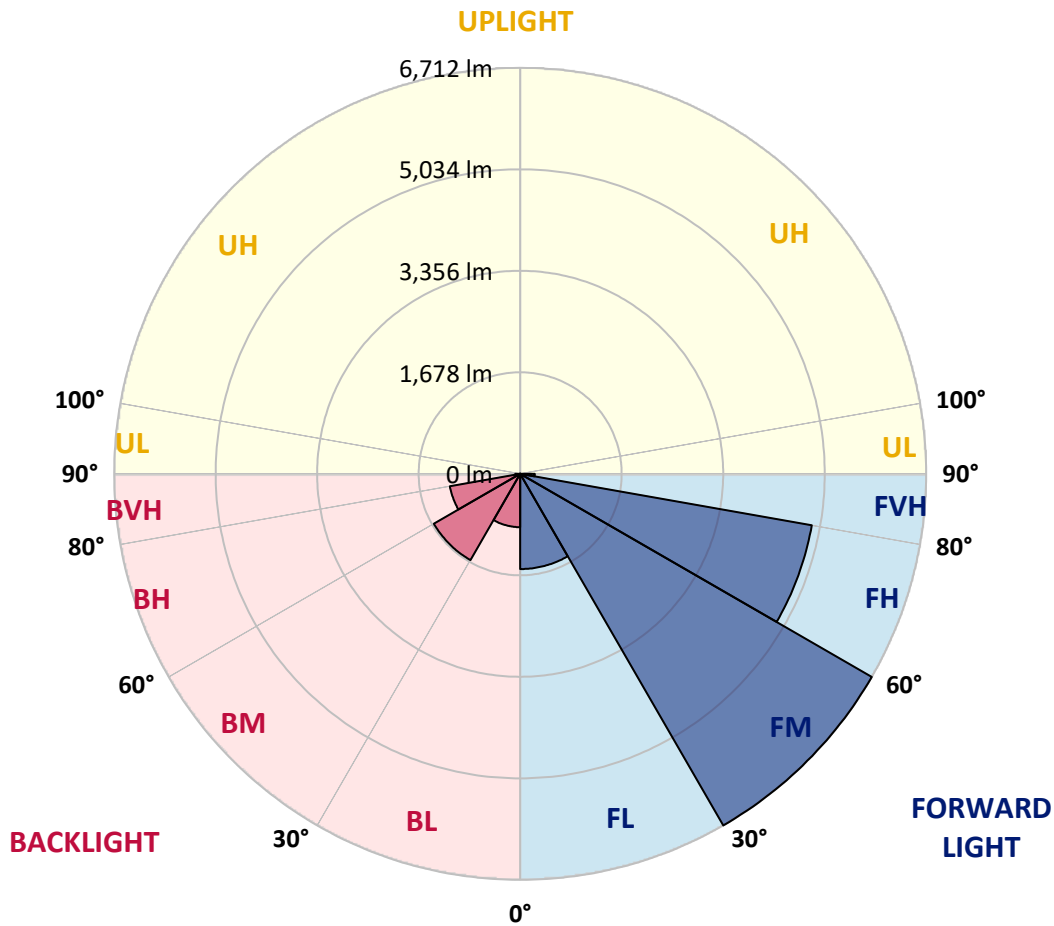
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1574.2	9.1			
FM (30°-60°)	6711.9	39.0			
FH (60°-80°)	4895.4	28.4			G2/5000
FVH (80°-90°)	240.6	1.4			G3/500
BL (0°-30°)	882.1	5.1	B2/1000		
BM (30°-60°)	1646.9	9.6	B2/2500		
BH (60°-80°)	1179.1	6.9	B3/2500		G3/2500
BVH (80°-90°)	78.8	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	3454.5	3454.5	3454.5	3454.5	3454.5	3454.5	3454.5	3454.5	3454.5	3454.5
2.5°	3456.4	3440.0	3450.0	3446.4	3450.9	3456.4	3458.2	3460.9	3470.0	3469.1
5°	3449.1	3432.7	3446.4	3441.8	3453.6	3466.4	3477.3	3487.3	3501.9	3508.3
7.5°	3433.6	3422.7	3436.3	3450.0	3471.8	3491.0	3506.4	3529.2	3550.1	3553.8
10°	3343.5	3335.3	3367.2	3402.7	3462.7	3514.6	3548.3	3574.7	3597.5	3601.1
12.5°	3249.7	3239.7	3275.2	3323.5	3420.9	3514.6	3585.6	3620.2	3640.2	3652.1
15°	3234.3	3226.1	3246.1	3288.0	3369.0	3490.0	3611.1	3674.8	3692.1	3705.8
17.5°	3308.9	3293.4	3301.6	3316.2	3363.5	3467.3	3631.1	3736.7	3763.1	3777.7
20°	3481.9	3460.0	3447.3	3418.1	3409.9	3470.9	3629.3	3811.4	3846.0	3864.2
22.5°	3712.2	3697.6	3670.3	3596.5	3516.4	3515.5	3663.9	3907.0	3971.6	3988.9
25°	3990.7	3968.9	3934.3	3834.1	3680.3	3603.8	3722.2	4028.9	4137.3	4141.8
27.5°	4311.1	4278.4	4231.0	4099.0	3891.5	3742.2	3811.4	4169.1	4327.5	4325.7
30°	4648.8	4616.1	4566.0	4405.8	4144.5	3928.8	3935.2	4320.2	4553.3	4543.2
32.5°	4895.5	4871.0	4860.9	4737.1	4435.8	4149.1	4077.2	4487.7	4831.8	4822.7
35°	5084.9	5053.0	5064.8	5002.0	4753.5	4395.8	4251.0	4687.1	5170.4	5169.5
37.5°	5272.4	5244.2	5254.2	5212.3	5047.5	4708.9	4463.1	4931.0	5590.1	5610.1
40°	5443.5	5413.5	5453.5	5414.4	5276.0	5042.1	4704.4	5206.8	6076.2	6114.4
42.5°	5546.4	5522.7	5589.2	5590.1	5474.5	5323.4	4969.3	5510.9	6638.7	6724.3
45°	5581.9	5573.7	5673.8	5694.8	5650.2	5486.3	5207.8	5842.2	7245.0	7397.9
47.5°	5543.7	5528.2	5666.5	5743.9	5779.4	5562.8	5405.3	6200.9	7864.0	8087.9
50°	5350.7	5320.6	5526.4	5689.3	5815.8	5612.8	5604.6	6615.1	8567.6	8812.5
52.5°	5003.9	4981.1	5215.0	5498.1	5735.7	5637.4	5828.6	7067.5	9235.8	9552.6
55°	4560.5	4530.5	4788.1	5157.7	5536.4	5629.2	6052.5	7573.6	10024.1	10345.4
57.5°	3857.8	3797.7	4123.6	4560.5	5211.4	5619.2	6285.5	8077.0	10825.1	11210.2
60°	2832.8	2743.6	3143.2	3661.2	4576.0	5521.8	6574.1	8641.4	11786.4	12133.2
62.5°	1649.4	1597.6	1858.8	2342.2	3449.1	4948.3	6736.1	9297.7	12731.3	13095.4
65°	1280.8	1266.2	1289.0	1326.3	1919.8	3704.9	6236.4	9937.6	13932.9	14187.7
67.5°	1171.5	1160.6	1170.6	1100.5	974.0	2063.6	4933.8	10099.6	15220.0	15374.8
70°	1041.4	1028.6	1061.4	1001.3	766.5	938.5	3187.8	9511.6	16244.1	16534.5
72.5°	848.4	833.8	910.3	883.0	645.4	602.6	1601.2	8114.3	16136.7	16739.3
75°	651.8	643.6	734.6	757.4	526.1	474.3	768.3	6031.6	14200.5	14807.7
77.5°	506.1	499.7	546.2	629.0	424.2	367.8	472.4	3825.9	10701.3	10807.8
80°	379.6	361.4	404.2	487.0	330.4	268.5	320.4	2231.1	6764.4	6131.7
82.5°	237.6	228.5	264.0	325.0	233.0	184.8	208.5	1232.5	2710.8	1596.6
85°	135.6	132.0	143.8	185.7	126.5	106.5	119.2	544.4	495.2	340.4
87.5°	54.6	52.8	65.5	82.8	46.4	39.1	41.9	131.1	109.2	101.0
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°
3454.5	0°	3454.5	3454.5	3454.5	3454.5	3454.5	3454.5	3454.5	3454.5	3454.5	3454.5
3468.2	2.5°	3464.6	3464.6	3451.8	3431.8	3409.0	3394.5	3370.8	3364.4	3339.8	3332.6
3499.1	5°	3506.4	3499.1	3460.0	3403.6	3326.2	3255.2	3176.9	3127.7	3058.6	3034.0
3560.1	7.5°	3559.2	3539.2	3471.8	3348.0	3186.0	3026.7	2861.0	2735.4	2615.3	2572.5
3610.2	10°	3607.5	3579.3	3464.6	3247.9	2967.5	2691.7	2427.7	2242.9	2102.8	2045.4
3665.7	12.5°	3655.7	3603.8	3416.3	3081.3	2657.1	2283.0	2001.7	1857.9	1771.4	1702.2
3711.2	15°	3701.2	3628.4	3341.7	2858.3	2316.7	1937.1	1729.5	1614.9	1545.7	1500.2
3777.7	17.5°	3754.0	3649.3	3229.7	2575.2	1992.6	1697.7	1528.4	1459.2	1445.5	1440.1
3868.7	20°	3827.8	3668.5	3082.2	2258.4	1754.1	1506.5	1419.1	1412.8	1411.9	1409.1
3978.0	22.5°	3907.0	3691.2	2887.4	1970.8	1551.1	1387.3	1371.8	1359.1	1350.9	1350.0
4110.0	25°	4000.7	3698.5	2643.5	1735.0	1378.2	1330.8	1312.6	1293.5	1288.1	1288.1
4260.1	27.5°	4091.7	3673.9	2359.5	1530.2	1280.8	1279.0	1255.3	1248.9	1248.0	1250.7
4431.3	30°	4182.8	3627.5	2077.3	1340.9	1224.3	1224.3	1216.1	1220.7	1224.3	1233.4
4666.1	32.5°	4305.7	3578.3	1841.5	1200.7	1175.2	1166.1	1174.3	1183.4	1187.0	1198.8
4974.7	35°	4485.9	3543.8	1654.0	1124.2	1124.2	1112.4	1116.9	1115.1	1106.9	1101.4
5347.9	37.5°	4724.4	3541.9	1499.2	1088.7	1081.4	1079.6	1080.5	1068.7	1036.8	998.6
5799.4	40°	5011.1	3591.1	1380.0	1064.1	1058.7	1069.6	1064.1	1032.3	944.9	878.4
6354.7	42.5°	5396.2	3731.3	1303.5	1034.1	1050.5	1064.1	1042.3	932.1	873.0	828.4
6987.4	45°	5849.5	3958.8	1264.4	1002.2	1035.0	1051.4	945.8	897.5	850.2	796.5
7677.4	47.5°	6362.9	4245.6	1255.3	972.2	1000.4	1010.4	904.8	883.0	829.3	771.0
8371.0	50°	6921.8	4585.1	1279.9	936.7	950.3	915.7	891.2	871.1	815.6	758.3
9081.9	52.5°	7499.9	4959.2	1329.0	888.4	900.3	862.0	885.7	868.4	807.4	730.1
9816.5	55°	8067.9	5336.1	1376.4	832.0	849.3	813.8	870.2	857.5	770.1	682.7
10600.3	57.5°	8645.0	5711.1	1422.8	781.9	800.1	767.4	845.7	828.4	728.2	639.0
11456.0	60°	9244.9	6075.3	1444.6	733.7	746.4	724.6	808.3	778.3	680.9	594.4
12297.1	62.5°	9806.5	6378.4	1409.1	685.4	693.6	684.5	759.2	719.1	633.6	544.4
13173.7	65°	10370.0	6558.6	1299.9	638.1	639.9	635.4	690.0	655.4	578.0	500.7
13941.1	67.5°	10880.7	6659.7	1126.0	587.1	582.6	580.8	625.4	586.2	524.3	457.0
14524.6	70°	10989.0	6403.0	860.2	527.1	527.1	522.5	554.4	514.3	465.2	410.5
14106.7	72.5°	10036.8	5386.2	610.8	458.8	466.1	457.0	483.4	449.7	405.1	368.7
12157.8	75°	8093.4	3949.7	444.2	388.7	401.4	386.0	410.5	386.9	348.6	347.7
8378.3	77.5°	5560.9	2442.3	322.2	320.4	329.5	309.5	337.7	325.0	290.4	274.9
3646.6	80°	2373.1	974.0	234.9	247.6	247.6	229.4	262.2	265.8	235.8	228.5
703.7	82.5°	472.4	276.7	164.8	170.2	160.2	154.7	185.7	205.7	284.0	315.9
212.1	85°	142.0	102.0	99.2	92.8	81.9	82.8	109.2	206.6	254.9	145.6
70.1	87.5°	39.1	25.5	26.4	20.9	17.3	22.8	37.3	156.6	85.6	36.4
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>
3454.5
3344.4
3052.2
2577.9
2058.2
1725.0
1508.3
1443.7
1418.2
1360.0
1293.5
1258.0
1239.8
1208.9
1114.2
999.5
876.6
826.5
792.9
766.5
751.9
724.6
678.2
637.2
591.7
543.4
495.2
451.5
408.7
357.7
313.1
257.6
228.5
316.8
125.6
30.9
0.0

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