

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: P947482

Luminaire Tested: **GALN-SB2D-827-U-SL2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P947482  
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-SB2D-827-U-SL2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

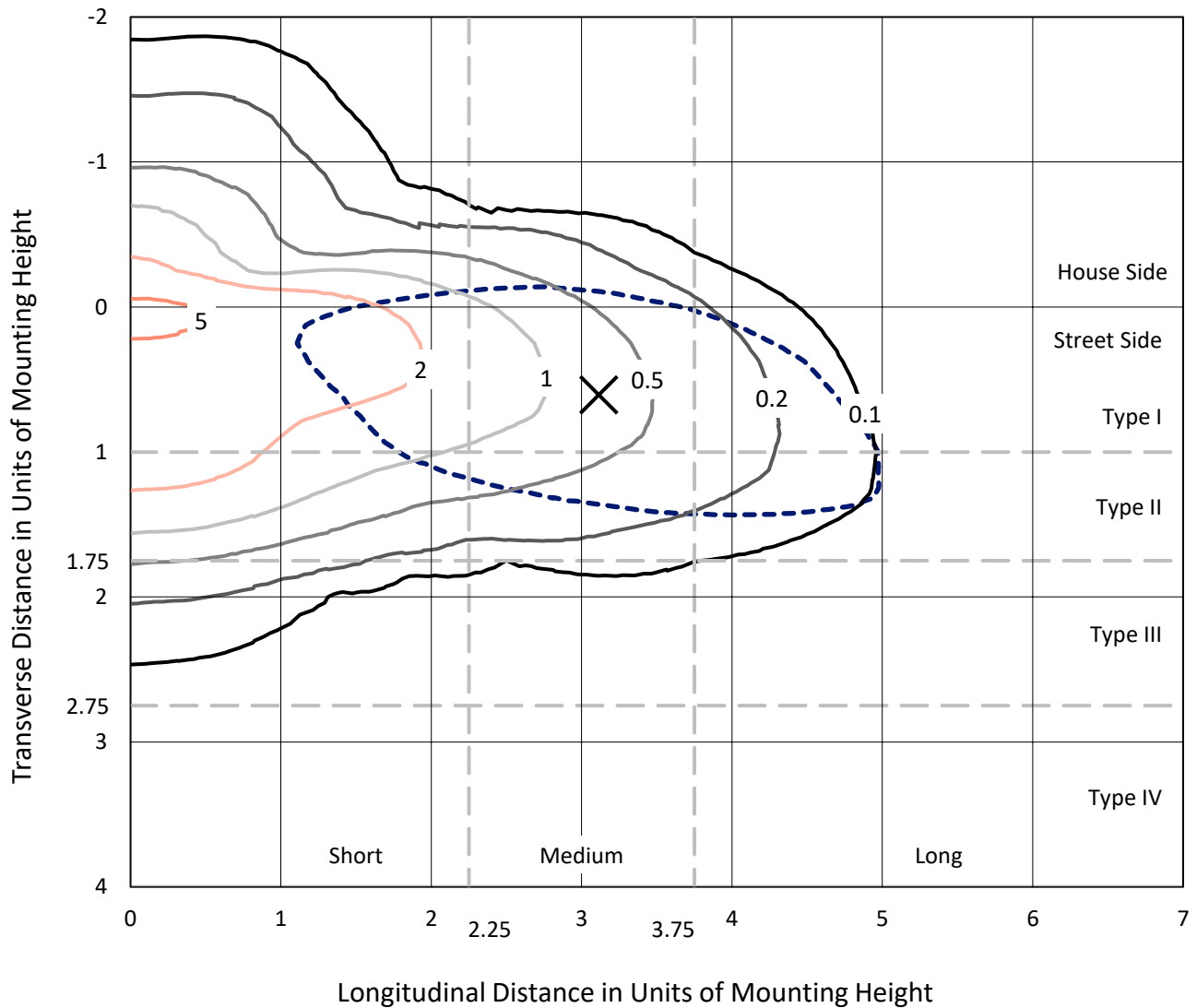
Lumens per Lamp: N/A  
Luminaire Lumens: 17589 lumens  
Efficiency: N/A  
Efficacy: 119.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 147.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

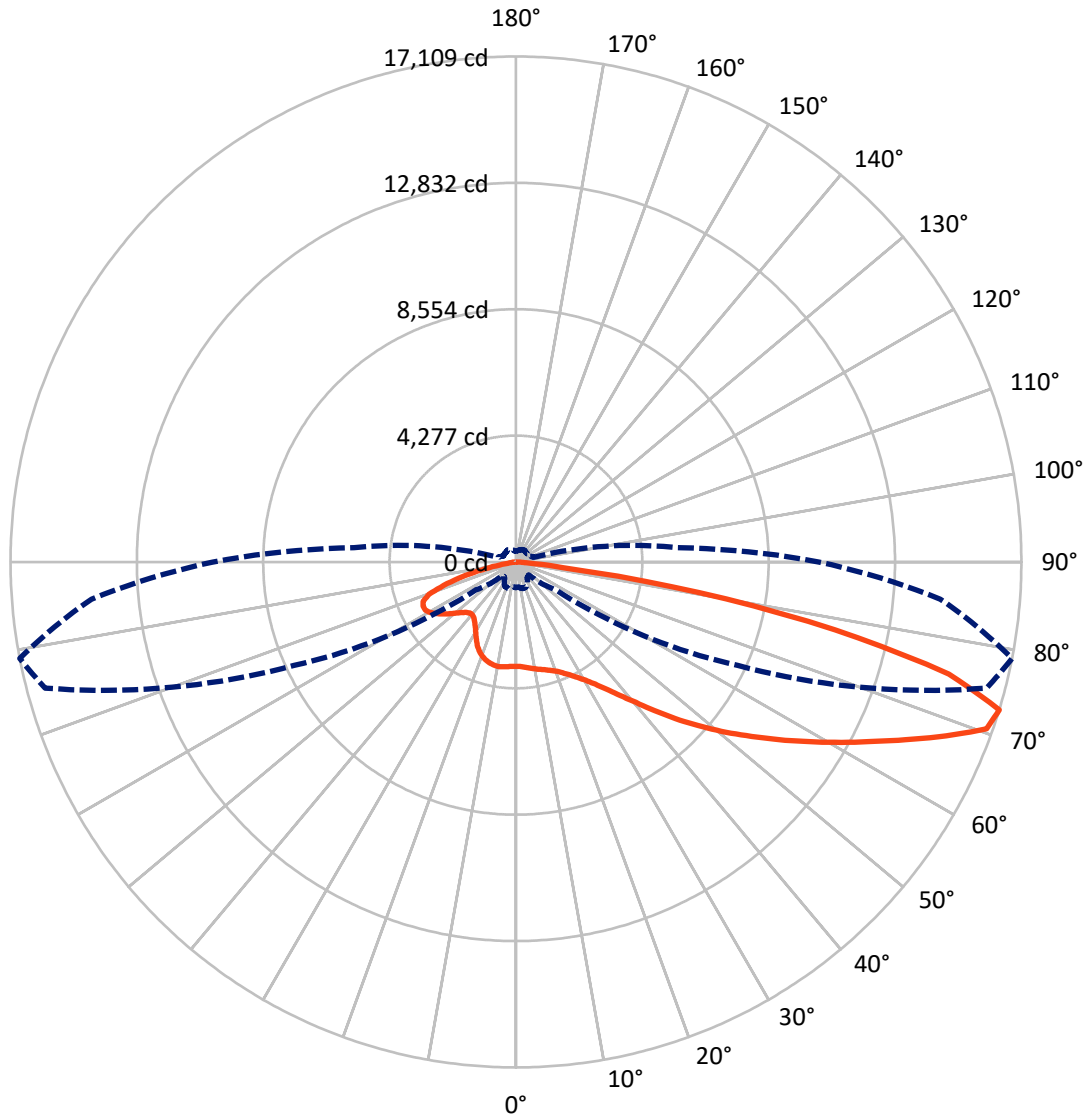
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 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	3870.6	0.0	3870.6
	% Fixture	22.0	0.0	22.0
<b>Street Side</b>	Lumens	13718.5	0.0	13718.5
	% Fixture	78.0	0.0	78.0
<b>Total</b>	Lumens	17589.0	0.0	17589.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	320.5	1.8
10°-20°	837.9	4.8
20°-30°	1352.1	7.7
30°-40°	2029.3	11.5
40°-50°	2878.7	16.4
50°-60°	3635.4	20.7
60°-70°	3692.2	21.0
70°-80°	2516.4	14.3
80°-90°	326.5	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°	17589.0	100.0
0°-180°	17589.0	100.0

**Coefficient of Utilization**



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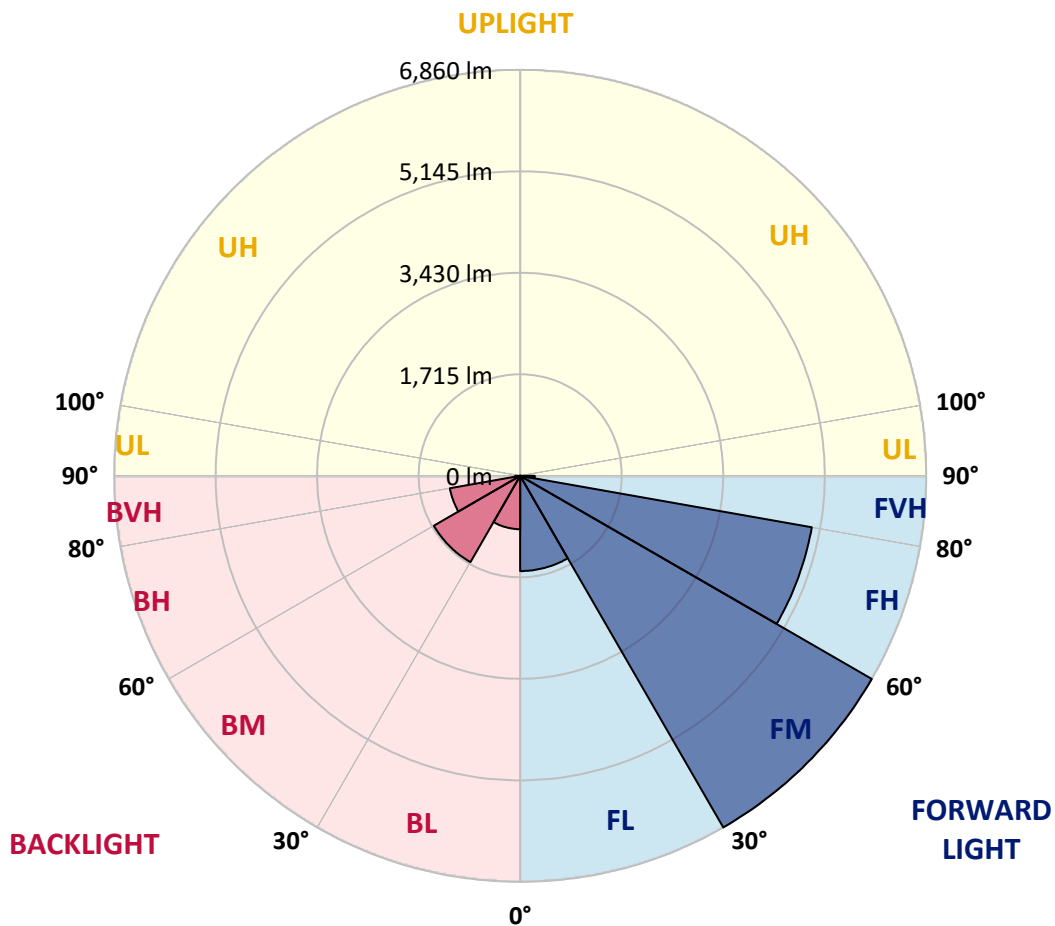
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1609.0	9.1			
FM (30°-60°)	6860.1	39.0			
FH (60°-80°)	5003.5	28.4			G3/7500
FVH (80°-90°)	245.9	1.4			G3/500
BL (0°-30°)	901.6	5.1	B2/1000		
BM (30°-60°)	1683.3	9.6	B2/2500		
BH (60°-80°)	1205.2	6.9	B3/2500		G3/2500
BVH (80°-90°)	80.5	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°	3530.8	3530.8	3530.8	3530.8	3530.8	3530.8	3530.8	3530.8	3530.8	3530.8
2.5°	3532.7	3515.9	3526.2	3522.5	3527.1	3532.7	3534.5	3537.3	3546.6	3545.7
5°	3525.2	3508.5	3522.5	3517.8	3529.9	3542.9	3554.1	3564.3	3579.2	3585.7
7.5°	3509.4	3498.3	3512.2	3526.2	3548.5	3568.0	3583.9	3607.1	3628.5	3632.2
10°	3417.3	3408.9	3441.5	3477.8	3539.2	3592.2	3626.7	3653.6	3676.9	3680.6
12.5°	3321.5	3311.3	3347.5	3396.8	3496.4	3592.2	3664.8	3700.2	3720.6	3732.7
15°	3305.7	3297.3	3317.8	3360.6	3443.4	3567.1	3690.9	3756.0	3773.7	3787.6
17.5°	3382.0	3366.1	3374.5	3389.4	3437.8	3543.8	3711.3	3819.2	3846.2	3861.1
20°	3558.7	3536.4	3523.4	3493.6	3485.2	3547.6	3709.5	3895.5	3930.9	3949.5
22.5°	3794.1	3779.2	3751.3	3676.0	3594.1	3593.2	3744.8	3993.2	4059.3	4077.0
25°	4078.8	4056.5	4021.1	3918.8	3761.6	3683.4	3804.4	4117.9	4228.6	4233.3
27.5°	4406.3	4372.8	4324.4	4189.5	3977.4	3824.8	3895.5	4261.2	4423.1	4421.2
30°	4751.5	4718.0	4666.8	4503.1	4236.1	4015.6	4022.1	4415.6	4653.8	4643.6
32.5°	5003.6	4978.5	4968.3	4841.7	4533.8	4240.7	4167.2	4586.8	4938.5	4929.2
35°	5197.2	5164.6	5176.7	5112.5	4858.5	4492.8	4344.9	4790.6	5284.6	5283.7
37.5°	5388.8	5360.0	5370.2	5327.4	5159.0	4812.9	4561.7	5039.9	5713.5	5734.0
40°	5563.7	5533.0	5574.0	5534.0	5392.5	5153.4	4808.2	5321.8	6210.3	6249.4
42.5°	5668.9	5644.7	5712.6	5713.5	5595.4	5440.9	5079.0	5632.6	6785.3	6872.8
45°	5705.1	5696.8	5799.1	5820.5	5774.9	5607.5	5322.8	5971.2	7405.0	7561.3
47.5°	5666.1	5650.2	5791.7	5870.8	5907.0	5685.6	5524.6	6337.8	8037.6	8266.5
50°	5468.8	5438.1	5648.4	5814.9	5944.3	5736.8	5728.4	6761.1	8756.8	9007.1
52.5°	5114.3	5091.1	5330.2	5619.5	5862.4	5761.9	5957.3	7223.5	9439.7	9763.5
55°	4661.2	4630.5	4893.8	5271.6	5658.6	5753.5	6186.2	7740.8	10245.4	10573.9
57.5°	3943.0	3881.6	4214.7	4661.2	5326.5	5743.3	6424.3	8255.3	11064.2	11457.7
60°	2895.4	2804.2	3212.6	3742.0	4677.1	5643.7	6719.3	8832.2	12046.7	12401.1
62.5°	1685.9	1632.8	1899.9	2393.9	3525.2	5057.6	6884.9	9503.0	13012.4	13384.6
65°	1309.1	1294.2	1317.4	1355.6	1962.2	3786.7	6374.1	10157.1	14240.5	14501.0
67.5°	1197.4	1186.2	1196.5	1124.8	995.5	2109.2	5042.7	10322.7	15556.1	15714.3
70°	1064.4	1051.3	1084.8	1023.4	783.4	959.2	3258.2	9721.6	16602.8	16899.6
72.5°	867.1	852.2	930.4	902.5	659.6	615.9	1636.6	8293.5	16493.0	17108.9
75°	666.2	657.8	750.8	774.1	537.8	484.7	785.2	6164.8	14514.1	15134.6
77.5°	517.3	510.8	558.2	642.9	433.6	375.9	482.9	3910.4	10937.6	11046.5
80°	388.0	369.4	413.1	497.8	337.7	274.5	327.5	2280.4	6913.7	6267.1
82.5°	242.8	233.5	269.8	332.1	238.2	188.9	213.1	1259.7	2770.7	1631.9
85°	138.6	134.9	147.0	189.8	129.3	108.9	121.9	556.4	506.1	348.0
87.5°	55.8	54.0	67.0	84.7	47.4	40.0	42.8	134.0	111.6	103.3
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°
3530.8	0°	3530.8	3530.8	3530.8	3530.8	3530.8	3530.8	3530.8	3530.8	3530.8	3530.8
3544.8	2.5°	3541.1	3541.1	3528.0	3507.6	3484.3	3469.4	3445.2	3438.7	3413.6	3406.2
3576.4	5°	3583.9	3576.4	3536.4	3478.7	3399.6	3327.1	3247.1	3196.8	3126.1	3101.0
3638.7	7.5°	3637.8	3617.4	3548.5	3422.0	3256.4	3093.5	2924.2	2795.8	2673.0	2629.3
3689.9	10°	3687.1	3658.3	3541.1	3319.6	3033.1	2751.2	2481.3	2292.5	2149.2	2090.6
3746.7	12.5°	3736.4	3683.4	3491.7	3149.4	2715.8	2333.4	2045.9	1898.9	1810.5	1739.8
3793.2	15°	3783.0	3708.5	3415.5	2921.4	2367.8	1979.9	1767.7	1650.5	1579.8	1533.3
3861.1	17.5°	3836.9	3729.9	3301.0	2632.1	2036.6	1735.2	1562.1	1491.4	1477.5	1471.9
3954.2	20°	3912.3	3749.5	3150.3	2308.3	1792.9	1539.8	1450.5	1444.0	1443.0	1440.2
4065.8	22.5°	3993.2	3772.7	2951.2	2014.3	1585.4	1417.9	1402.1	1389.1	1380.7	1379.8
4200.7	25°	4089.1	3780.2	2701.8	1773.3	1408.6	1360.2	1341.6	1322.1	1316.5	1316.5
4354.2	27.5°	4182.1	3755.0	2411.6	1564.0	1309.1	1307.2	1283.0	1276.5	1275.6	1278.4
4529.1	30°	4275.1	3707.6	2123.1	1370.5	1251.4	1251.4	1243.0	1247.7	1251.4	1260.7
4769.2	32.5°	4400.7	3657.4	1882.2	1227.2	1201.1	1191.8	1200.2	1209.5	1213.2	1225.3
5084.6	35°	4585.0	3622.0	1690.5	1149.0	1149.0	1136.9	1141.6	1139.7	1131.4	1125.8
5466.0	37.5°	4828.7	3620.1	1532.3	1112.7	1105.3	1103.4	1104.4	1092.3	1059.7	1020.6
5927.5	40°	5121.8	3670.4	1410.5	1087.6	1082.0	1093.2	1087.6	1055.1	965.7	897.8
6495.0	42.5°	5515.3	3813.7	1332.3	1056.9	1073.7	1087.6	1065.3	952.7	892.2	846.7
7141.7	45°	5978.7	4046.3	1292.3	1024.4	1057.9	1074.6	966.7	917.4	869.0	814.1
7846.9	47.5°	6503.4	4339.3	1283.0	993.7	1022.5	1032.7	924.8	902.5	847.6	788.0
8555.9	50°	7074.7	4686.4	1308.1	957.4	971.3	936.0	910.9	890.4	833.6	775.0
9282.5	52.5°	7665.5	5068.8	1358.4	908.1	920.2	881.1	905.3	887.6	825.3	746.2
10033.3	55°	8246.0	5453.9	1406.7	850.4	868.1	831.8	889.5	876.4	787.1	697.8
10834.4	57.5°	8835.9	5837.3	1454.2	799.2	817.8	784.3	864.3	846.7	744.3	653.1
11708.9	60°	9449.0	6209.4	1476.5	749.9	762.9	740.6	826.2	795.5	695.9	607.5
12568.6	62.5°	10023.1	6519.2	1440.2	700.6	709.0	699.7	775.9	735.0	647.6	556.4
13464.6	65°	10599.0	6703.4	1328.6	652.2	654.1	649.4	705.2	669.9	590.8	511.7
14248.9	67.5°	11120.9	6806.7	1150.9	600.1	595.4	593.6	639.2	599.2	535.9	467.1
14845.3	70°	11231.7	6544.4	879.2	538.7	538.7	534.0	566.6	525.7	475.4	419.6
14418.2	72.5°	10258.5	5505.1	624.3	468.9	476.4	467.1	494.0	459.6	414.0	376.8
12426.3	75°	8272.1	4037.0	454.0	397.3	410.3	394.5	419.6	395.4	356.3	355.4
8563.3	77.5°	5683.7	2496.2	329.4	327.5	336.8	316.3	345.2	332.1	296.8	281.0
3727.1	80°	2425.5	995.5	240.0	253.1	253.1	234.5	268.0	271.7	241.0	233.5
719.2	82.5°	482.9	282.8	168.4	174.0	163.7	158.2	189.8	210.3	290.3	322.8
216.8	85°	145.1	104.2	101.4	94.9	83.7	84.7	111.6	211.2	260.5	148.9
71.6	87.5°	40.0	26.1	27.0	21.4	17.7	23.3	38.1	160.0	87.5	37.2
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>
3530.8
3418.2
3119.6
2634.9
2103.6
1763.1
1541.7
1475.6
1449.5
1390.0
1322.1
1285.8
1267.2
1235.6
1138.8
1021.6
896.0
844.8
810.4
783.4
768.5
740.6
693.1
651.3
604.8
555.4
506.1
461.5
417.7
365.6
320.1
263.3
233.5
323.8
128.4
31.6
0.0

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