

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: P944229

Luminaire Tested: **GALN-SB9A-827-U-T4FT**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P944229  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB9A-827-U-T4FT  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

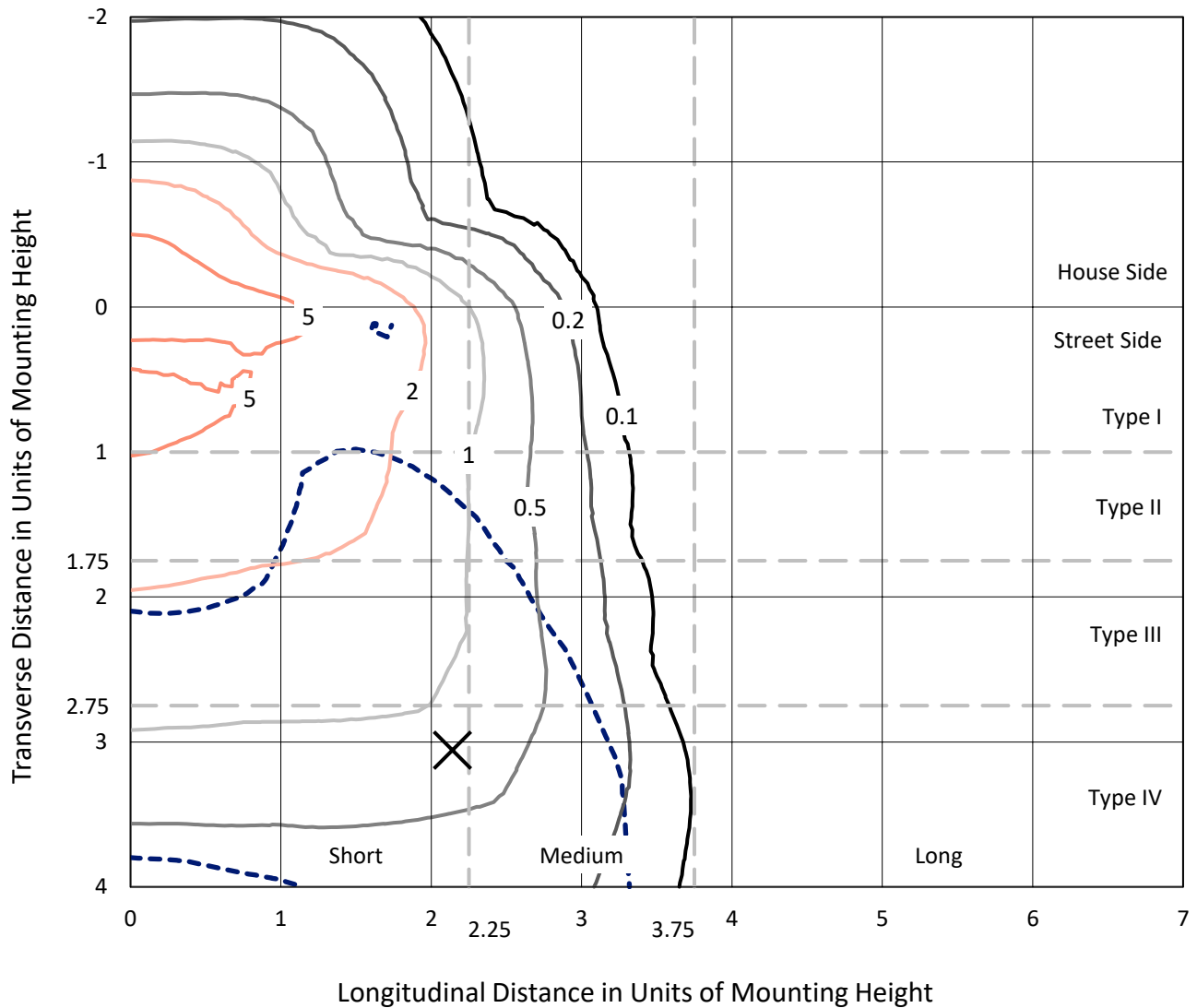
Lumens per Lamp: N/A  
Luminaire Lumens: 35116 lumens  
Efficiency: N/A  
Efficacy: 137.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 255.5  
Input Voltage (V): NR  
Input Current (Ain): 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

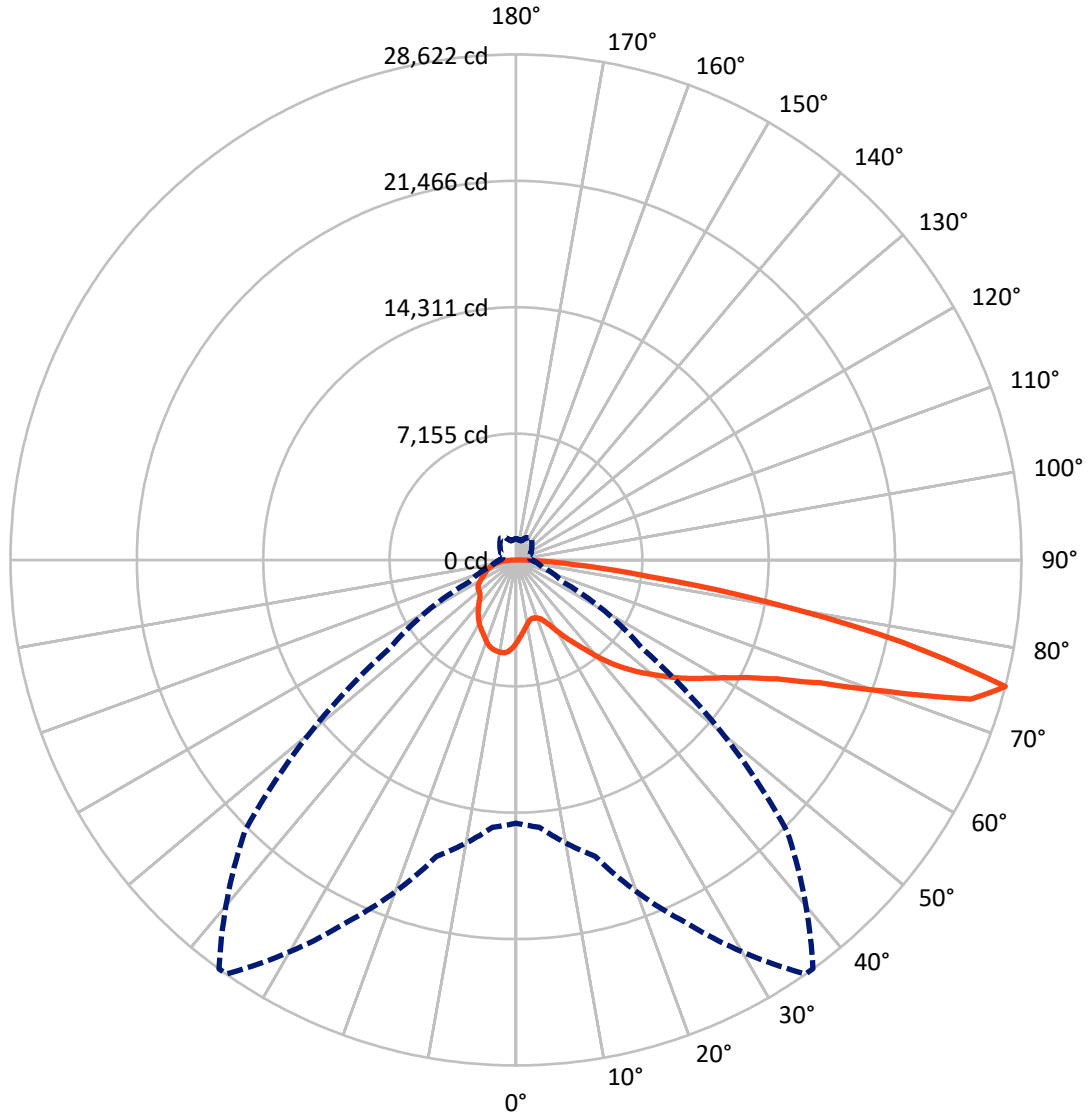
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral    - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8356.7	0.0	8356.7
	% Fixture	23.8	0.0	23.8
<b>Street Side</b>	Lumens	26759.3	0.0	26759.3
	% Fixture	76.2	0.0	76.2
<b>Total</b>	Lumens	35116.0	0.0	35116.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	443.0	1.3
10°-20°	1278.0	3.6
20°-30°	2146.0	6.1
30°-40°	3335.2	9.5
40°-50°	4950.3	14.1
50°-60°	6834.2	19.5
60°-70°	8291.5	23.6
70°-80°	6852.3	19.5
80°-90°	985.6	2.8
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°	35116.0	100.0
0°-180°	35116.0	100.0

**Coefficient of Utilization**



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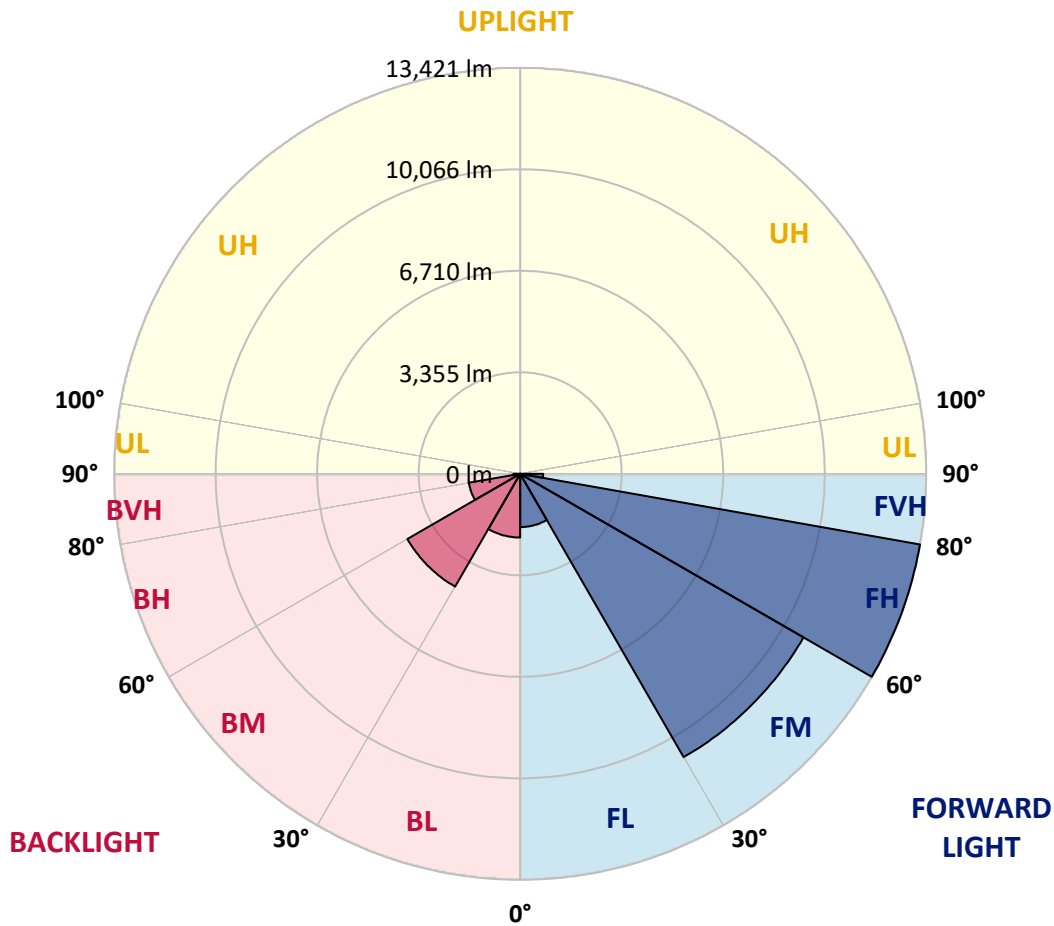
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1761.0	5.0			
FM (30°-60°)	10813.8	30.8			
FH (60°-80°)	13420.8	38.2			G5
FVH (80°-90°)	763.6	2.2			G5
BL (0°-30°)	2106.0	6.0	B3/2500		
BM (30°-60°)	4305.9	12.3	B3/5000		
BH (60°-80°)	1722.9	4.9	B3/2500		G3/2500
BVH (80°-90°)	221.9	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	4679.4	4679.4	4679.4	4679.4	4679.4	4679.4	4679.4	4679.4	4679.4	4679.4
2.5°	4315.0	4341.5	4352.9	4347.2	4375.7	4371.9	4411.8	4461.1	4529.5	4595.9
5°	3982.7	4011.2	4035.9	4058.7	4113.7	4130.8	4193.5	4288.4	4413.7	4540.9
7.5°	3673.3	3698.0	3736.0	3777.7	3870.7	3887.8	3992.2	4140.3	4315.0	4501.0
10°	3420.8	3445.5	3485.4	3532.8	3648.6	3669.5	3802.4	3999.8	4227.6	4463.0
12.5°	3312.6	3320.2	3343.0	3390.5	3491.1	3504.4	3650.5	3876.4	4142.2	4434.6
15°	3306.9	3322.1	3324.0	3348.7	3432.2	3437.9	3572.7	3796.7	4089.1	4428.9
17.5°	3363.9	3375.3	3358.2	3373.4	3443.6	3453.1	3559.4	3758.7	4072.0	4453.5
20°	3515.8	3525.2	3474.0	3453.1	3504.4	3512.0	3616.4	3783.4	4089.1	4504.8
22.5°	3838.5	3844.2	3718.9	3633.5	3637.2	3641.0	3732.2	3884.0	4155.5	4597.8
25°	4341.5	4337.7	4138.4	3973.3	3878.3	3857.5	3918.2	4047.3	4267.5	4721.2
27.5°	4930.0	4901.6	4702.2	4455.4	4248.5	4218.1	4204.9	4259.9	4427.0	4884.5
30°	5594.5	5567.9	5353.4	5030.6	4744.0	4694.6	4569.3	4540.9	4664.3	5106.6
32.5°	6323.4	6306.3	6050.1	5659.0	5275.5	5218.6	5007.9	4931.9	5028.7	5442.6
35°	6934.7	6919.5	6706.9	6304.4	5835.5	5765.3	5550.8	5465.4	5514.7	5873.5
37.5°	7487.1	7479.5	7297.3	6980.3	6496.2	6410.7	6169.7	6141.2	6131.7	6441.1
40°	7999.7	7980.7	7790.8	7623.8	7265.0	7187.2	6974.6	6949.9	6877.7	7139.7
42.5°	8567.3	8517.9	8242.7	8164.8	8068.0	8003.5	7876.3	7880.1	7720.6	7927.5
45°	9030.5	9002.0	8719.1	8673.6	8778.0	8751.4	8861.5	8890.0	8580.6	8753.3
47.5°	9527.8	9501.3	9262.1	9229.8	9512.7	9520.2	9909.4	9918.9	9419.6	9611.4
50°	10141.0	10103.0	9865.7	9905.6	10222.6	10251.1	10963.0	10898.5	10192.3	10482.7
52.5°	10545.4	10568.1	10516.9	10581.4	11014.3	11040.8	11999.5	11834.3	10957.3	11342.7
55°	10843.4	10889.0	11048.4	11196.5	11849.5	11876.1	12977.2	12724.7	11591.4	12140.0
57.5°	11226.9	11162.3	11460.4	11748.9	12643.0	12713.3	13928.2	13582.7	12153.3	12827.2
60°	11777.4	11731.8	11963.4	12390.6	13531.5	13643.5	14934.4	14355.4	12565.2	13372.0
62.5°	12893.6	12779.7	12815.8	13193.6	14651.5	14799.6	16069.6	15029.3	12770.2	13584.6
65°	14562.3	14366.7	14184.5	14446.5	16229.0	16375.2	17351.0	15558.9	12694.3	13172.7
67.5°	16663.8	16470.1	16246.1	16492.9	18552.6	18668.4	18932.3	15857.0	12096.3	11585.7
70°	18397.0	18324.8	18592.5	19608.1	22263.9	22267.7	20959.7	15610.2	10458.0	8214.2
72.5°	18167.3	18123.6	19534.1	22673.9	26941.5	26840.8	22879.0	13742.2	7044.8	3705.6
75°	14904.0	15186.8	17371.8	22618.9	28621.5	28608.2	21703.9	8736.2	2914.0	1535.8
77.5°	7992.1	8440.1	11278.1	16699.8	22343.6	22679.6	15259.0	3056.4	1251.0	983.3
80°	2606.4	2997.5	4495.3	8502.7	14518.6	14456.0	6539.8	1199.8	856.2	696.7
82.5°	1106.7	1152.3	2008.5	4015.0	7451.0	7335.2	2082.5	689.1	601.8	476.5
85°	432.8	484.1	886.5	1856.6	3227.2	3157.0	751.7	341.7	385.4	311.3
87.5°	142.4	172.8	317.0	635.9	1004.2	968.2	184.1	117.7	167.1	142.4
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°
4679.4	0°	4679.4	4679.4	4679.4	4679.4	4679.4	4679.4	4679.4	4679.4	4679.4	4679.4
4692.7	2.5°	4719.3	4749.7	4785.8	4838.9	4884.5	4922.4	4962.3	4987.0	4996.5	5024.9
4700.3	5°	4753.5	4819.9	4909.1	4996.5	5081.9	5133.2	5178.7	5201.5	5222.4	5237.6
4721.2	7.5°	4810.4	4895.9	5036.3	5150.2	5222.4	5264.1	5294.5	5286.9	5294.5	5298.3
4744.0	10°	4859.8	4979.4	5146.4	5254.6	5309.7	5311.6	5304.0	5277.4	5264.1	5266.0
4778.2	12.5°	4918.6	5051.5	5231.9	5323.0	5338.2	5296.4	5264.1	5218.6	5201.5	5193.9
4829.4	15°	4998.4	5150.2	5324.9	5359.1	5321.1	5267.9	5212.9	5138.8	5100.9	5070.5
4916.7	17.5°	5095.2	5262.2	5397.0	5372.3	5290.7	5203.4	5114.2	5002.2	4924.3	4892.1
5036.3	20°	5230.0	5379.9	5452.1	5343.9	5220.5	5087.6	4935.7	4799.0	4726.9	4694.6
5188.2	22.5°	5393.2	5537.5	5505.2	5294.5	5119.9	4907.2	4717.4	4616.8	4580.7	4557.9
5383.7	25°	5588.8	5712.1	5543.2	5222.4	4954.7	4668.1	4521.9	4489.6	4472.5	4455.4
5622.9	27.5°	5843.1	5909.6	5571.7	5116.1	4696.5	4413.7	4360.5	4366.2	4360.5	4332.0
5955.1	30°	6179.1	6165.9	5598.2	4943.3	4400.4	4184.0	4187.8	4212.4	4216.2	4197.3
6418.3	32.5°	6621.5	6486.7	5611.5	4719.3	4117.5	3982.7	3986.5	4013.1	4032.1	3999.8
7023.9	35°	7156.8	6860.7	5590.7	4438.4	3899.2	3791.0	3762.5	3770.1	3775.8	3745.5
7758.6	37.5°	7781.4	7280.2	5497.6	4127.0	3718.9	3603.1	3542.3	3491.1	3460.7	3432.2
8590.1	40°	8466.7	7737.7	5326.8	3823.3	3517.7	3403.8	3312.6	3215.8	3113.3	3075.3
9470.9	42.5°	9184.2	8208.5	5119.9	3532.8	3286.1	3193.0	3096.2	2955.7	2802.0	2724.1
10385.9	45°	9928.4	8690.7	4916.7	3246.2	3048.8	3008.9	2896.9	2727.9	2560.9	2462.2
11302.8	47.5°	10657.4	9146.3	4618.7	2957.6	2826.7	2870.3	2783.0	2627.3	2441.3	2285.6
12212.1	50°	11354.1	9573.4	4130.8	2665.3	2646.3	2828.5	2745.0	2521.0	2308.4	2109.1
13104.3	52.5°	12045.1	9918.9	3506.3	2399.5	2549.5	2817.2	2695.7	2448.9	2188.8	1980.0
13943.4	55°	12631.7	10097.3	2904.5	2171.7	2409.0	2720.3	2636.8	2363.5	2019.8	1797.7
14518.6	57.5°	12965.8	9953.1	2403.3	1947.7	2215.4	2560.9	2536.2	2181.2	1818.6	1647.8
14630.6	60°	12821.5	9368.4	1993.3	1752.2	2031.2	2388.1	2361.6	2000.9	1664.9	1503.5
14030.7	62.5°	12026.1	8254.0	1668.7	1581.3	1864.2	2211.6	2186.9	1862.3	1547.2	1391.5
12438.0	65°	10423.9	6714.5	1416.2	1439.0	1695.2	1999.0	2035.0	1746.5	1454.1	1302.3
9622.8	67.5°	7950.3	4863.6	1218.7	1315.6	1530.1	1790.1	1894.6	1663.0	1376.3	1232.0
5567.9	70°	4531.4	2762.1	1051.7	1196.0	1383.9	1596.5	1786.4	1596.5	1292.8	1173.2
2086.3	72.5°	1718.0	1268.1	909.3	1076.4	1243.4	1433.3	1666.8	1492.1	1196.0	1106.7
1078.3	75°	916.9	772.6	765.0	935.9	1082.1	1273.8	1516.8	1389.6	1123.8	1169.4
746.1	77.5°	624.6	546.7	639.7	801.1	905.5	1097.2	1357.3	1233.9	973.9	970.1
516.4	80°	432.8	387.3	520.1	645.4	700.5	922.6	1184.6	1059.3	793.5	740.4
318.9	82.5°	260.1	252.5	389.2	482.2	495.5	711.9	981.4	888.4	649.2	565.7
189.8	85°	142.4	150.0	248.7	282.9	288.5	497.4	768.8	687.2	499.3	419.5
68.3	87.5°	39.9	51.3	91.1	112.0	138.6	258.2	457.5	408.1	250.6	174.6
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>
4679.4
5023.0
5241.4
5304.0
5269.8
5190.1
5080.0
4894.0
4690.8
4561.7
4455.4
4337.7
4206.8
4015.0
3766.3
3451.2
3092.4
2733.6
2454.6
2268.5
2092.0
1957.2
1778.8
1625.0
1480.7
1366.8
1277.6
1209.3
1158.0
1091.6
1207.4
894.1
708.1
569.5
423.3
174.6
0.0

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