

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: P956356

Luminaire Tested: **GALN-SB9A-740-U-T3R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P956356  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB9A-740-U-T3R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

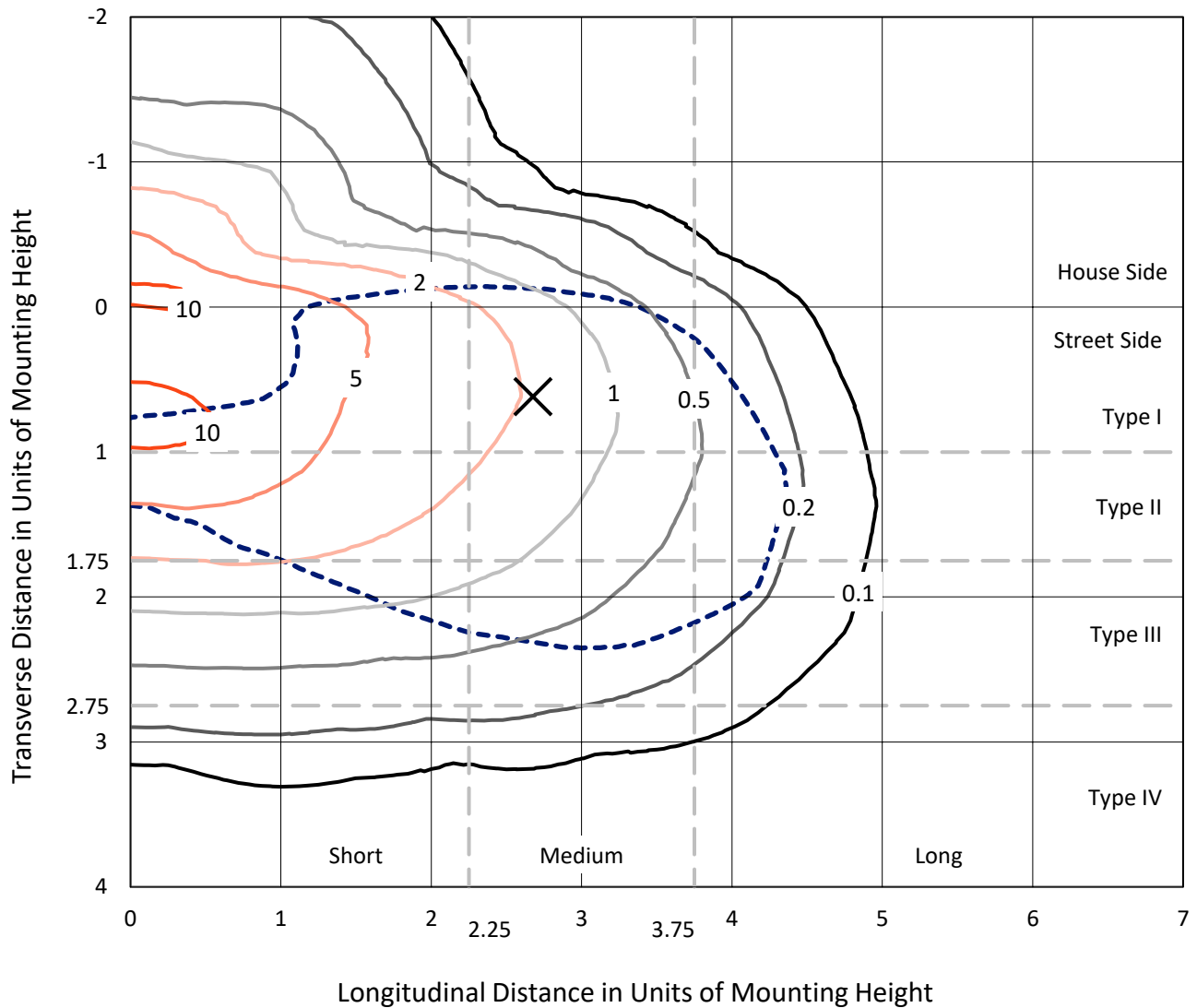
Lumens per Lamp: N/A  
Luminaire Lumens: 44376 lumens  
Efficiency: N/A  
Efficacy: 173.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 255.5  
Input Voltage (V): NR  
Input Current (Ain): 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

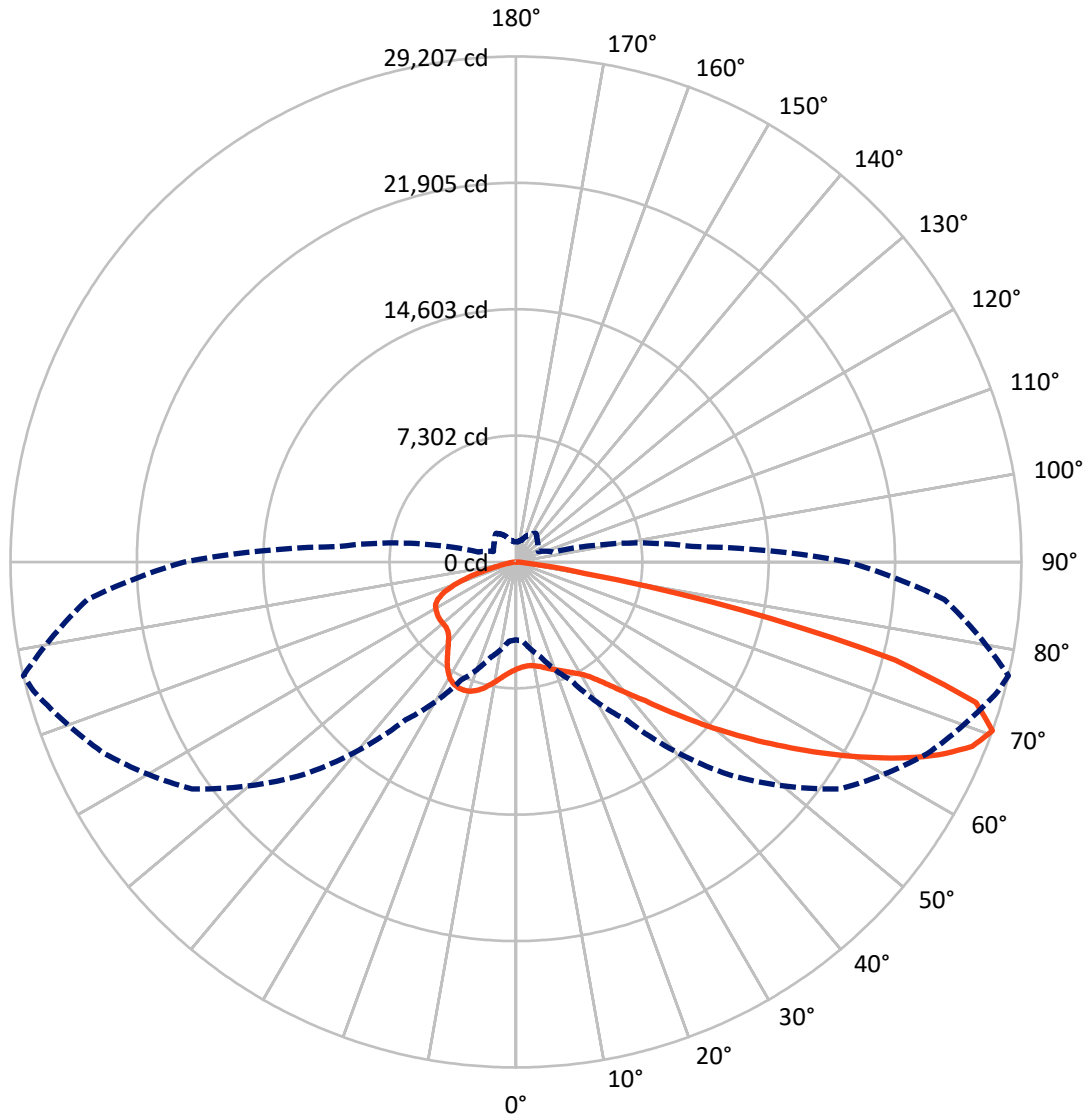
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9717.7	0.0	9717.7
	% Fixture	21.9	0.0	21.9
<b>Street Side</b>	Lumens	34658.4	0.0	34658.4
	% Fixture	78.1	0.0	78.1
<b>Total</b>	Lumens	44376.0	0.0	44376.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	590.4	1.3
10°-20°	1704.1	3.8
20°-30°	2914.2	6.6
30°-40°	4686.3	10.6
40°-50°	7316.6	16.5
50°-60°	9773.2	22.0
60°-70°	10416.7	23.5
70°-80°	6412.5	14.5
80°-90°	561.9	1.3
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°	44376.0	100.0
0°-180°	44376.0	100.0



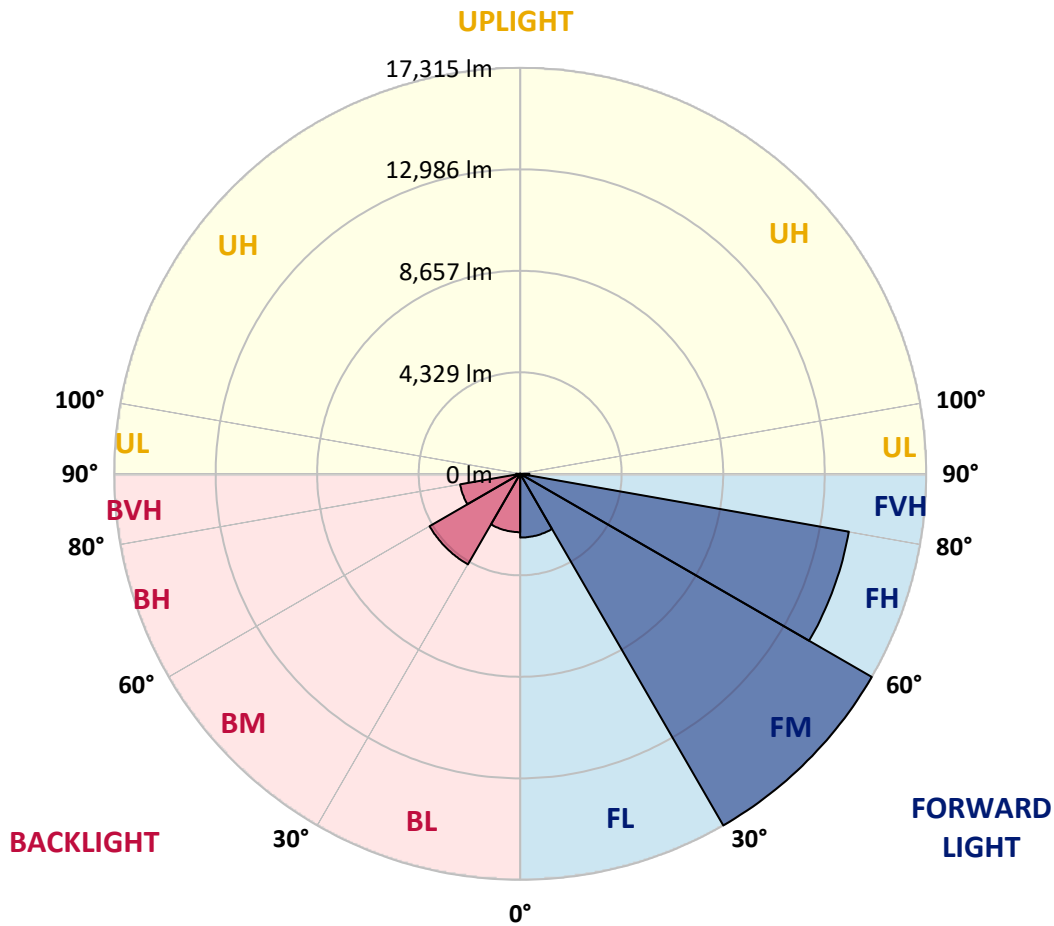
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2718.7	6.1			
FM (30°-60°)	17314.6	39.0			
FH (60°-80°)	14232.1	32.1			G5
FVH (80°-90°)	392.9	0.9			G3/500
BL (0°-30°)	2490.0	5.6	B3/2500		
BM (30°-60°)	4461.6	10.1	B3/5000		
BH (60°-80°)	2597.1	5.9	B4/5000		G4/5000
BVH (80°-90°)	169.0	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	6190.9	6190.9	6190.9	6190.9	6190.9	6190.9	6190.9	6190.9	6190.9	6190.9
2.5°	5706.8	5704.5	5734.0	5743.1	5797.7	5836.3	5909.0	5986.3	6086.3	6097.7
5°	5377.2	5377.2	5411.3	5447.7	5518.1	5595.4	5706.8	5840.9	6013.6	6040.9
7.5°	5097.7	5115.9	5145.4	5215.9	5297.7	5409.0	5579.5	5770.4	5997.7	6040.9
10°	4872.7	4893.1	4929.5	4986.3	5109.0	5263.6	5486.3	5731.8	6036.3	6104.5
12.5°	4802.2	4822.7	4843.1	4886.3	5000.0	5181.8	5447.7	5750.0	6129.5	6197.7
15°	4965.9	4990.9	4975.0	4963.6	5022.7	5188.6	5465.9	5815.9	6245.4	6343.1
17.5°	5343.1	5352.2	5315.9	5209.0	5200.0	5288.6	5552.2	5906.8	6390.9	6497.7
20°	5952.2	5936.3	5861.3	5650.0	5529.5	5511.3	5700.0	6043.1	6540.9	6654.5
22.5°	6779.5	6761.3	6611.3	6277.2	6009.0	5831.8	5913.6	6220.4	6709.0	6836.3
25°	7811.3	7786.3	7565.8	7111.3	6695.4	6256.8	6204.5	6454.5	6915.9	7034.0
27.5°	9015.8	8995.4	8756.7	8156.7	7556.8	6838.6	6565.9	6729.5	7131.8	7265.8
30°	10311.3	10370.4	9947.6	9302.2	8543.1	7597.7	7052.2	7068.1	7411.3	7531.8
32.5°	11834.0	11936.3	11427.2	10609.0	9572.6	8422.7	7665.8	7540.8	7818.1	7918.1
35°	13343.1	13459.0	13036.3	12131.7	10938.5	9395.4	8306.7	8084.0	8359.0	8468.1
37.5°	14647.6	14802.1	14584.0	13797.6	12399.9	10568.1	9143.1	8722.7	9024.9	9161.3
40°	15677.1	15913.5	15897.6	15406.7	14122.6	11990.8	10204.5	9511.3	9852.2	9999.9
42.5°	16513.5	16718.0	16895.3	16870.3	15920.3	13606.7	11452.2	10536.3	10795.4	10965.8
45°	17090.8	17308.9	17690.8	18102.1	17649.9	15336.2	12881.7	11752.2	11988.5	12245.4
47.5°	17606.7	17854.4	18349.8	19002.1	19118.0	17072.6	14447.6	13168.1	13384.0	13649.9
50°	17652.1	17865.8	18633.9	19558.9	20161.2	18740.8	16129.4	14756.7	14959.0	15243.1
52.5°	16554.4	16890.8	18231.7	19543.0	20640.7	20136.2	17799.8	16409.0	16636.2	16977.1
55°	12849.9	13343.1	17052.1	18933.9	20470.3	21038.5	19388.5	18165.8	18456.7	18813.5
57.5°	11068.1	11284.0	13536.2	17824.8	19693.0	21272.5	20729.4	19940.7	20408.9	20799.8
60°	9947.6	10127.2	11459.0	16099.9	18670.3	20902.1	21765.7	21595.3	22404.4	22870.3
62.5°	8747.7	8918.1	10129.5	13443.1	17361.2	20286.2	22420.3	23122.5	24449.8	24958.9
65°	7556.8	7702.2	8863.6	11295.4	15697.6	19670.3	22758.9	24443.0	26343.0	26870.2
67.5°	6229.5	6349.9	7447.7	9529.5	13674.9	18827.1	22927.1	25481.6	27990.7	28442.9
70°	4495.4	4588.6	5722.7	7536.3	11136.3	17377.1	22858.9	26218.0	28845.2	29206.6
72.5°	2125.0	2209.1	3540.9	4893.1	7865.8	14554.4	21479.4	25633.9	27977.0	27797.5
75°	1134.1	1206.8	2034.1	2684.1	4154.5	9977.2	17577.1	22081.6	23493.0	22620.3
77.5°	768.2	825.0	1259.1	1611.4	1897.7	4736.3	11297.6	15288.5	14709.0	13268.1
80°	609.1	668.2	1031.8	1090.9	918.2	1711.3	4668.1	7077.2	5084.0	4065.9
82.5°	468.2	534.1	868.2	790.9	500.0	702.3	1359.1	2238.6	1302.3	990.9
85°	286.4	356.8	681.8	504.5	281.8	320.5	461.4	622.7	397.7	331.8
87.5°	145.5	204.5	345.5	184.1	127.3	75.0	122.7	122.7	104.5	90.9
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°
6190.9	0°	6190.9	6190.9	6190.9	6190.9	6190.9	6190.9	6190.9	6190.9	6190.9	6190.9
6159.0	2.5°	6213.6	6259.0	6336.3	6409.0	6465.9	6520.4	6574.9	6604.5	6613.6	6649.9
6193.1	5°	6286.3	6370.4	6520.4	6661.3	6749.9	6804.5	6843.1	6865.9	6870.4	6881.8
6286.3	7.5°	6420.4	6554.5	6763.6	6904.5	6970.4	6965.9	6949.9	6893.1	6870.4	6849.9
6422.7	10°	6609.0	6786.3	7043.1	7140.8	7099.9	6990.9	6849.9	6684.0	6606.8	6531.8
6609.0	12.5°	6843.1	7068.1	7320.4	7315.8	7113.6	6834.0	6506.8	6252.2	6090.9	5974.9
6838.6	15°	7127.2	7386.3	7579.5	7424.9	6981.8	6479.5	5999.9	5668.1	5522.7	5395.4
7070.4	17.5°	7420.4	7697.7	7786.3	7390.8	6649.9	5954.5	5411.3	5150.0	5006.8	4938.6
7320.4	20°	7706.8	7981.8	7909.0	7195.4	6145.4	5359.0	4875.0	4731.8	4702.2	4718.1
7563.6	22.5°	8009.0	8254.5	7934.0	6818.1	5502.2	4750.0	4484.1	4488.6	4554.5	4602.2
7818.1	25°	8318.1	8484.0	7868.1	6272.7	4811.3	4302.2	4236.3	4309.1	4438.6	4531.8
8104.5	27.5°	8615.8	8688.6	7724.9	5597.7	4218.1	3981.8	3993.1	4143.1	4338.6	4468.1
8452.2	30°	8952.2	8870.4	7449.9	4838.6	3806.8	3706.8	3802.2	3977.2	4172.7	4288.6
8890.8	32.5°	9331.7	9027.2	7013.6	4136.3	3515.9	3486.3	3643.2	3756.8	3843.1	3877.2
9472.6	35°	9804.5	9247.6	6454.5	3643.2	3254.5	3325.0	3475.0	3418.2	3384.1	3365.9
10254.5	37.5°	10418.1	9545.4	5800.0	3322.7	3043.2	3209.1	3270.4	3093.2	2959.1	2893.2
11202.2	40°	11156.7	9981.7	5170.4	3075.0	2909.1	3109.1	3002.2	2788.6	2618.2	2525.0
12268.1	42.5°	11977.2	10438.5	4640.9	2888.6	2834.1	3027.2	2804.5	2550.0	2275.0	2245.4
13538.5	45°	12838.5	10909.0	4279.5	2745.4	2797.7	2956.8	2690.9	2279.5	2084.1	2204.5
14813.5	47.5°	13699.9	11340.8	4061.3	2638.6	2779.5	2877.2	2590.9	2129.5	1990.9	2165.9
16179.4	50°	14659.0	11727.2	3963.6	2561.3	2759.1	2845.4	2440.9	2090.9	1893.2	2009.1
17593.0	52.5°	15611.2	12027.2	3890.9	2484.1	2729.5	2820.4	2368.2	2045.4	1775.0	1781.8
19015.7	55°	16561.2	12222.6	3811.3	2381.8	2663.6	2765.9	2361.3	1995.4	1686.3	1654.5
20520.3	57.5°	17574.9	12334.0	3713.6	2268.2	2550.0	2627.3	2354.5	1956.8	1659.1	1606.8
22058.9	60°	18606.7	12497.6	3586.3	2129.5	2397.7	2461.3	2338.6	1943.2	1643.2	1554.5
23508.9	62.5°	19531.7	12554.4	3434.1	1997.7	2202.3	2297.7	2304.5	1931.8	1600.0	1447.7
24713.4	65°	20138.5	12309.0	3168.2	1847.7	1990.9	2129.5	2238.6	1893.2	1522.7	1370.4
25308.9	67.5°	20113.5	11609.0	2752.2	1654.5	1786.3	1943.2	2143.2	1827.3	1429.5	1275.0
24858.9	70°	19177.1	10227.2	2225.0	1429.5	1561.4	1743.2	2020.4	1729.5	1318.2	1170.4
22104.4	72.5°	16447.6	8004.5	1615.9	1165.9	1300.0	1536.4	1861.3	1611.4	1204.5	1077.3
16336.2	75°	11749.9	5065.9	1095.4	895.4	1011.4	1302.3	1663.6	1472.7	1100.0	1081.8
8181.7	77.5°	6002.2	2420.4	725.0	654.5	704.5	1027.3	1397.7	1315.9	1115.9	893.2
2327.3	80°	1952.3	893.2	456.8	445.5	468.2	684.1	1081.8	1079.5	845.4	606.8
563.6	82.5°	622.7	384.1	297.7	286.4	275.0	429.5	754.5	854.5	570.4	384.1
202.3	85°	247.7	229.5	175.0	161.4	115.9	202.3	395.5	568.2	425.0	277.3
52.3	87.5°	90.9	90.9	47.7	34.1	25.0	68.2	106.8	170.5	243.2	143.2
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>
6190.9
6670.4
6899.9
6854.5
6509.0
5947.7
5381.8
4959.0
4711.3
4613.6
4556.8
4500.0
4315.9
3895.4
3384.1
2909.1
2531.8
2275.0
2268.2
2247.7
2095.4
1829.5
1677.3
1613.6
1561.4
1447.7
1370.4
1281.8
<i>1184.1</i>
1070.4
1020.4
795.4
536.4
381.8
284.1
140.9
0.0

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