

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: P955798

Luminaire Tested: **GALN-SB8C-927-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955798
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-SB8C-927-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36638 lumens
Efficiency: N/A
Efficacy: 91.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G4

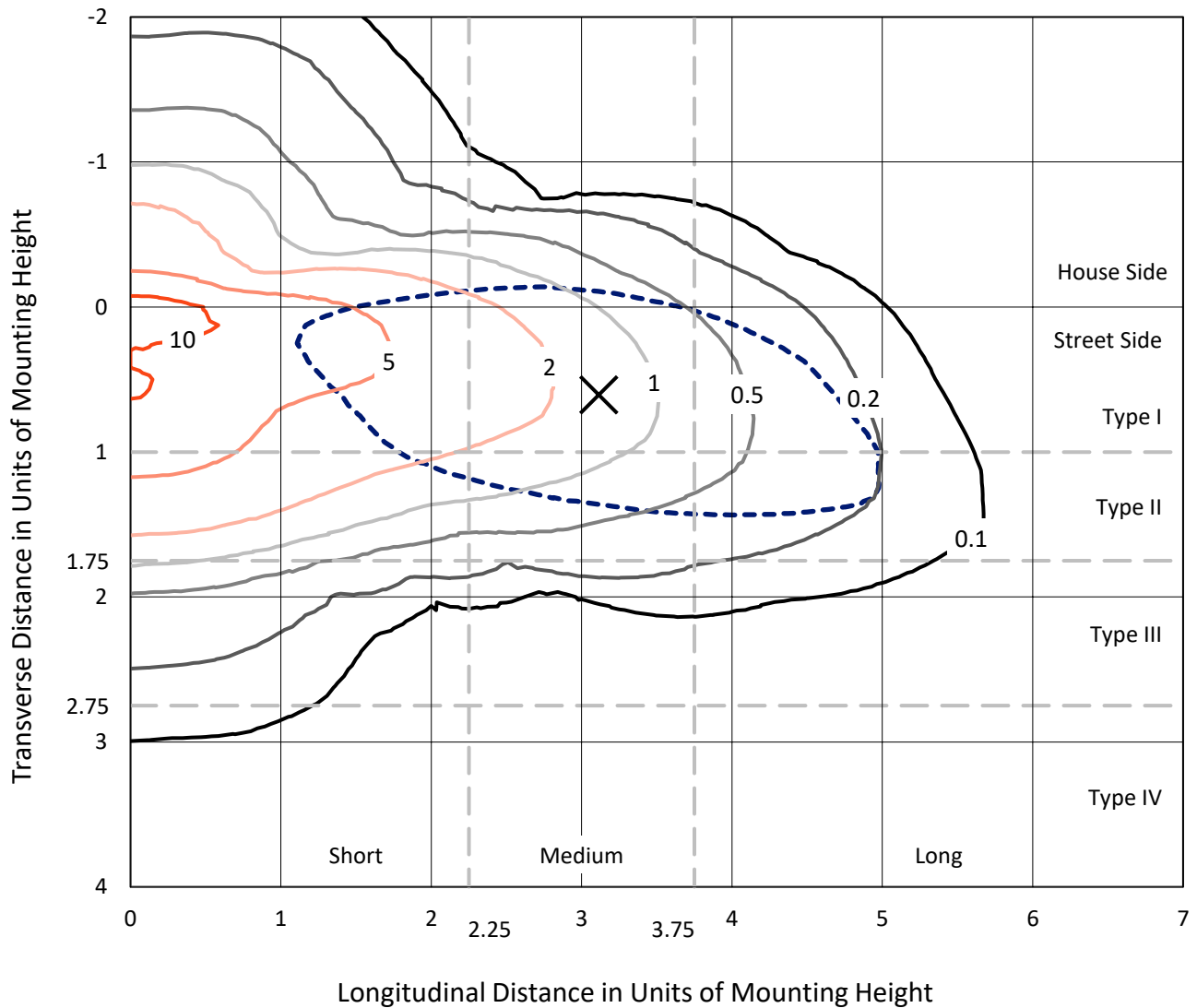
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

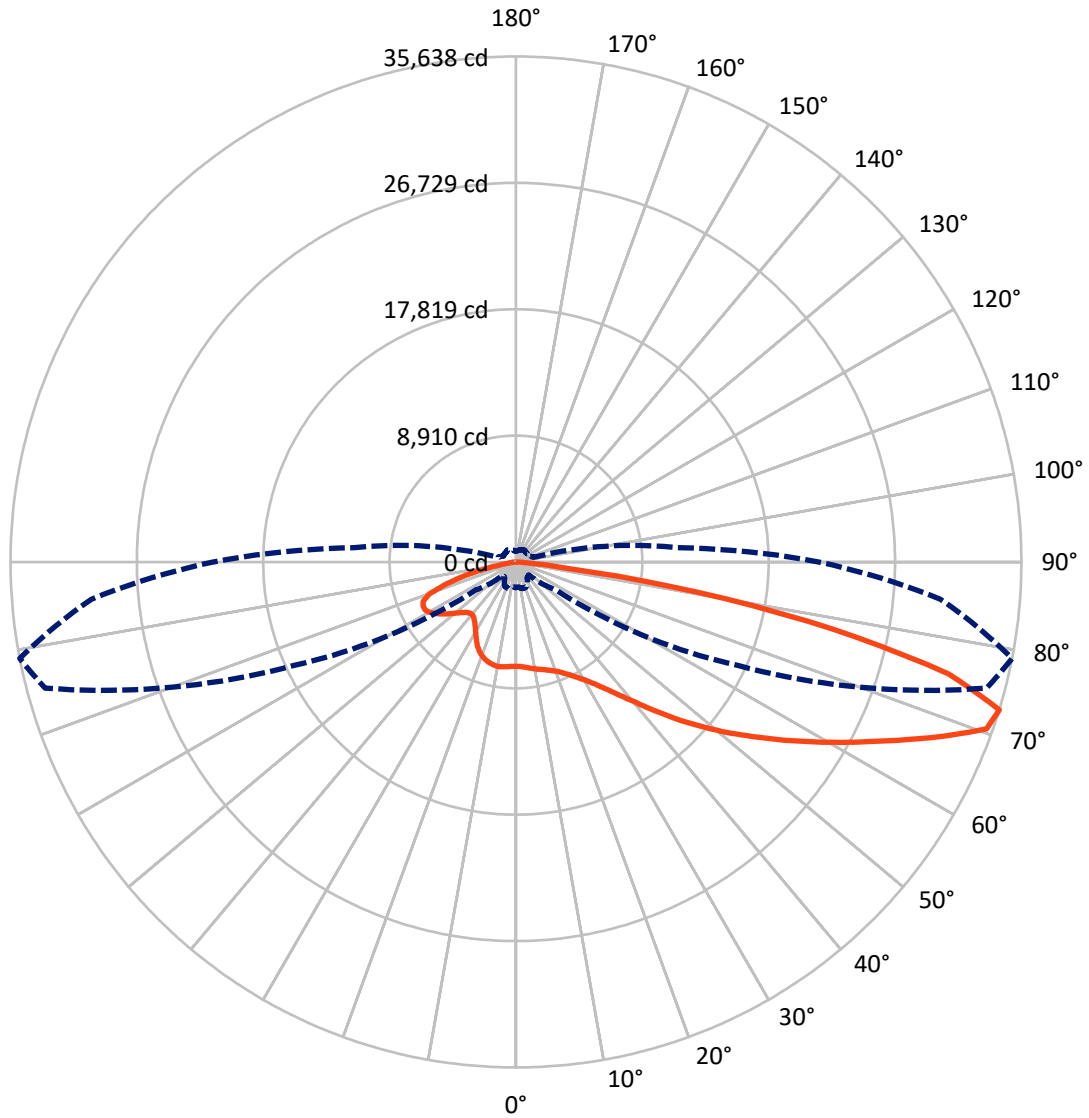
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 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
House Side	Lumens	8062.4	0.0	8062.4
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	28575.6	0.0	28575.6
	% Fixture	78.0	0.0	78.0
Total	Lumens	36638.0	0.0	36638.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	667.6	1.8
10°-20°	1745.4	4.8
20°-30°	2816.4	7.7
30°-40°	4227.0	11.5
40°-50°	5996.3	16.4
50°-60°	7572.5	20.7
60°-70°	7690.9	21.0
70°-80°	5241.7	14.3
80°-90°	680.1	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°	36638.0	100.0
0°-180°	36638.0	100.0

Coefficient of Utilization



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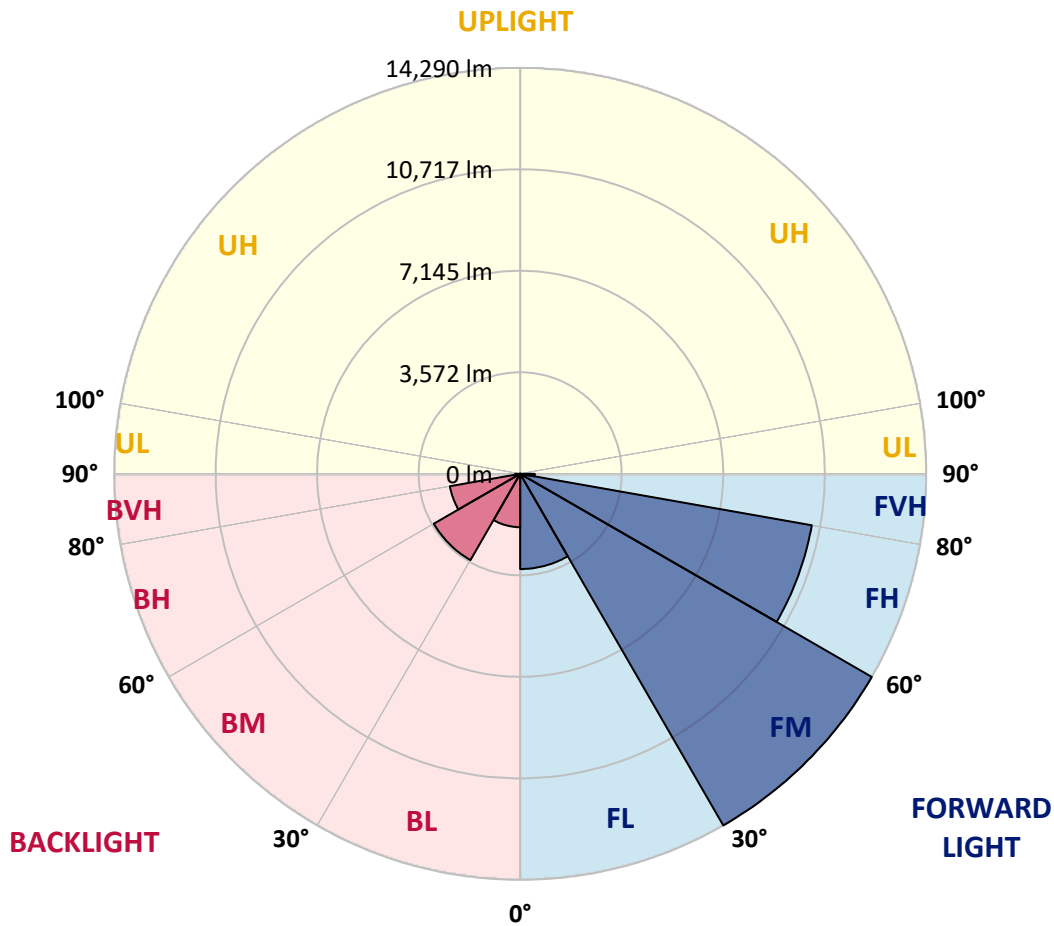
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3351.5	9.1			
FM (30°-60°)	14289.6	39.0			
FH (60°-80°)	10422.3	28.4			G4/12000
FVH (80°-90°)	512.3	1.4			G4/750
BL (0°-30°)	1878.0	5.1	B3/2500		
BM (30°-60°)	3506.3	9.6	B3/5000		
BH (60°-80°)	2510.4	6.9	B4/5000		G4/5000
BVH (80°-90°)	167.8	0.5			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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	7354.7	7354.7	7354.7	7354.7	7354.7	7354.7	7354.7	7354.7	7354.7	7354.7
2.5°	7358.6	7323.7	7345.0	7337.3	7347.0	7358.6	7362.5	7368.3	7387.7	7385.7
5°	7343.1	7308.2	7337.3	7327.6	7352.8	7379.9	7403.2	7424.5	7455.5	7469.1
7.5°	7310.2	7286.9	7316.0	7345.0	7391.6	7432.3	7465.2	7513.6	7558.2	7566.0
10°	7118.3	7100.9	7168.7	7244.3	7372.2	7482.6	7554.3	7610.5	7659.0	7666.7
12.5°	6918.7	6897.4	6972.9	7075.7	7283.0	7482.6	7633.8	7707.4	7750.1	7775.3
15°	6885.7	6868.3	6910.9	7000.1	7172.6	7430.3	7688.1	7823.7	7860.5	7889.6
17.5°	7044.6	7011.7	7029.1	7060.2	7160.9	7381.9	7730.7	7955.5	8011.7	8042.7
20°	7412.9	7366.4	7339.2	7277.2	7259.8	7389.6	7726.8	8114.4	8188.1	8226.8
22.5°	7903.2	7872.2	7814.0	7657.1	7486.5	7484.6	7800.5	8317.9	8455.5	8492.3
25°	8496.2	8449.7	8376.1	8162.9	7835.4	7672.6	7924.5	8577.6	8808.2	8817.9
27.5°	9178.4	9108.6	9007.8	8726.8	8285.0	7967.1	8114.4	8876.1	9213.3	9209.4
30°	9897.4	9827.6	9721.0	9379.9	8823.7	8364.4	8378.0	9197.8	9693.9	9672.6
32.5°	10422.6	10370.3	10348.9	10085.4	9443.9	8833.4	8680.3	9554.4	10286.9	10267.6
35°	10825.7	10757.9	10783.1	10649.3	10120.3	9358.6	9050.5	9978.8	11007.9	11005.9
37.5°	11224.9	11164.8	11186.2	11097.0	10746.2	10025.3	9502.0	10498.2	11901.3	11943.9
40°	11589.3	11525.3	11610.6	11527.3	11232.7	10734.6	10015.6	11085.4	12936.2	13017.6
42.5°	11808.3	11757.9	11899.4	11901.3	11655.2	11333.5	10579.6	11732.7	14133.9	14316.0
45°	11883.8	11866.4	12079.6	12124.2	12029.2	11680.4	11087.3	12438.1	15424.6	15750.2
47.5°	11802.5	11769.5	12064.1	12228.8	12304.4	11843.2	11507.9	13201.7	16742.4	17219.2
50°	11391.6	11327.6	11765.6	12112.5	12381.9	11949.7	11932.3	14083.5	18240.5	18761.8
52.5°	10653.2	10604.8	11102.8	11705.6	12211.4	12002.1	12409.0	15046.7	19663.0	20337.4
55°	9709.4	9645.5	10193.9	10980.7	11786.9	11984.6	12885.8	16124.2	21341.3	22025.4
57.5°	8213.3	8085.4	8779.2	9709.4	11095.1	11963.3	13381.9	17195.9	23046.8	23866.5
60°	6031.1	5841.1	6691.9	7794.7	9742.4	11755.9	13996.3	18397.5	25093.3	25831.7
62.5°	3511.7	3401.2	3957.4	4986.5	7343.1	10535.0	14341.2	19794.8	27104.9	27880.1
65°	2726.8	2695.8	2744.2	2823.7	4087.3	7887.7	13277.3	21157.2	29663.1	30205.8
67.5°	2494.2	2471.0	2492.3	2343.0	2073.7	4393.5	10504.0	21502.2	32403.4	32732.9
70°	2217.1	2189.9	2259.7	2131.8	1631.8	1998.1	6786.9	20250.2	34583.7	35201.9
72.5°	1806.2	1775.2	1938.0	1879.9	1374.0	1283.0	3409.0	17275.4	34355.0	35638.0
75°	1387.6	1370.2	1564.0	1612.4	1120.2	1009.7	1635.7	12841.2	30232.9	31525.5
77.5°	1077.5	1064.0	1162.8	1339.2	903.1	783.0	1005.8	8145.4	22783.2	23009.9
80°	808.1	769.4	860.5	1036.8	703.5	571.7	682.2	4750.1	14401.3	13054.4
82.5°	505.8	486.4	562.0	691.9	496.1	393.4	443.8	2624.1	5771.4	3399.3
85°	288.8	281.0	306.2	395.4	269.4	226.7	253.9	1158.9	1054.3	724.8
87.5°	116.3	112.4	139.5	176.4	98.8	83.3	89.1	279.1	232.6	215.1
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°
7354.7	0°	7354.7	7354.7	7354.7	7354.7	7354.7	7354.7	7354.7	7354.7	7354.7	7354.7
7383.8	2.5°	7376.0	7376.0	7348.9	7306.3	7257.8	7226.8	7176.4	7162.9	7110.5	7095.0
7449.7	5°	7465.2	7449.7	7366.4	7246.2	7081.5	6930.3	6763.6	6659.0	6511.7	6459.4
7579.5	7.5°	7577.6	7535.0	7391.6	7128.0	6783.0	6443.9	6091.2	5823.7	5567.9	5476.8
7686.1	10°	7680.3	7620.2	7376.0	6914.8	6317.9	5730.7	5168.7	4775.2	4476.8	4354.7
7804.3	12.5°	7783.0	7672.6	7273.3	6560.1	5657.0	4860.5	4261.7	3955.5	3771.4	3624.1
7901.2	15°	7879.9	7724.9	7114.4	6085.3	4932.2	4124.1	3682.2	3438.0	3290.7	3193.8
8042.7	17.5°	7992.3	7769.5	6876.0	5482.6	4242.3	3614.4	3253.9	3106.6	3077.6	3065.9
8236.5	20°	8149.3	7810.2	6562.1	4808.2	3734.5	3207.4	3021.4	3007.8	3005.8	3000.0
8469.1	22.5°	8317.9	7858.6	6147.4	4195.8	3302.4	2953.5	2920.6	2893.4	2876.0	2874.1
8750.1	25°	8517.5	7874.1	5628.0	3693.8	2934.1	2833.4	2794.6	2753.9	2742.3	2742.3
9069.9	27.5°	8711.3	7821.8	5023.3	3257.8	2726.8	2722.9	2672.5	2658.9	2657.0	2662.8
9434.2	30°	8905.1	7723.0	4422.5	2854.7	2606.6	2606.6	2589.2	2598.9	2606.6	2626.0
9934.2	32.5°	9166.8	7618.3	3920.6	2556.2	2502.0	2482.6	2500.0	2519.4	2527.2	2552.4
10591.2	35°	9550.5	7544.7	3521.4	2393.4	2393.4	2368.2	2377.9	2374.1	2356.6	2345.0
11385.8	37.5°	10058.2	7540.8	3191.9	2317.9	2302.4	2298.5	2300.4	2275.2	2207.4	2126.0
12347.0	40°	10668.7	7645.4	2938.0	2265.5	2253.9	2277.2	2265.5	2197.7	2011.6	1870.2
13529.2	42.5°	11488.5	7943.9	2775.2	2201.6	2236.5	2265.5	2219.0	1984.5	1858.5	1763.6
14876.1	45°	12453.6	8428.4	2691.9	2133.7	2203.5	2238.4	2013.6	1910.9	1810.1	1695.8
16345.1	47.5°	13546.7	9038.9	2672.5	2069.8	2129.9	2151.2	1926.4	1879.9	1765.5	1641.5
17821.9	50°	14736.6	9761.7	2724.8	1994.2	2023.3	1949.6	1897.3	1854.7	1736.5	1614.4
19335.5	52.5°	15967.2	10558.3	2829.5	1891.5	1916.7	1835.3	1885.7	1848.9	1719.0	1554.3
20899.4	55°	17176.5	11360.6	2930.3	1771.3	1808.2	1732.6	1852.7	1825.6	1639.6	1453.5
22568.1	57.5°	18405.2	12159.0	3029.1	1664.7	1703.5	1633.7	1800.4	1763.6	1550.4	1360.5
24389.8	60°	19682.4	12934.2	3075.6	1562.0	1589.2	1542.7	1720.9	1657.0	1449.6	1265.5
26180.5	62.5°	20878.1	13579.6	3000.0	1459.3	1476.8	1457.4	1616.3	1531.0	1348.9	1158.9
28046.8	65°	22077.8	13963.3	2767.5	1358.5	1362.4	1352.7	1469.0	1395.4	1230.6	1065.9
29680.6	67.5°	23165.0	14178.4	2397.3	1250.0	1240.3	1236.4	1331.4	1248.1	1116.3	972.9
30922.8	70°	23395.6	13631.9	1831.4	1122.1	1122.1	1112.4	1180.2	1095.0	990.3	874.0
30033.3	72.5°	21368.4	11467.2	1300.4	976.8	992.3	972.9	1029.1	957.4	862.4	784.9
25884.0	75°	17230.8	8409.0	945.7	827.5	854.7	821.7	874.0	823.7	742.3	740.3
17837.4	77.5°	11839.3	5199.7	686.1	682.2	701.6	658.9	719.0	691.9	618.2	585.3
7763.6	80°	5052.4	2073.7	500.0	527.1	527.1	488.4	558.1	565.9	501.9	486.4
1498.1	82.5°	1005.8	589.2	350.8	362.4	341.1	329.5	395.4	438.0	604.7	672.5
451.6	85°	302.3	217.1	211.2	197.7	174.4	176.4	232.6	439.9	542.6	310.1
149.2	87.5°	83.3	54.3	56.2	44.6	36.8	48.5	79.5	333.3	182.2	77.5
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>
7354.7
7120.2
6498.1
5488.4
4381.8
3672.5
3211.3
3073.7
3019.4
2895.4
2753.9
2678.3
2639.6
2573.7
2372.1
2127.9
1866.3
1759.7
1688.0
1631.8
1600.8
1542.7
1443.8
1356.6
1259.7
1157.0
1054.3
961.3
870.2
761.6
666.7
548.5
486.4
674.4
267.4
65.9
0.0

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