

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: P949384

Luminaire Tested: **GALN-SB4A-927-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949384
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-SB4A-927-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11234 lumens
Efficiency: N/A
Efficacy: 98.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

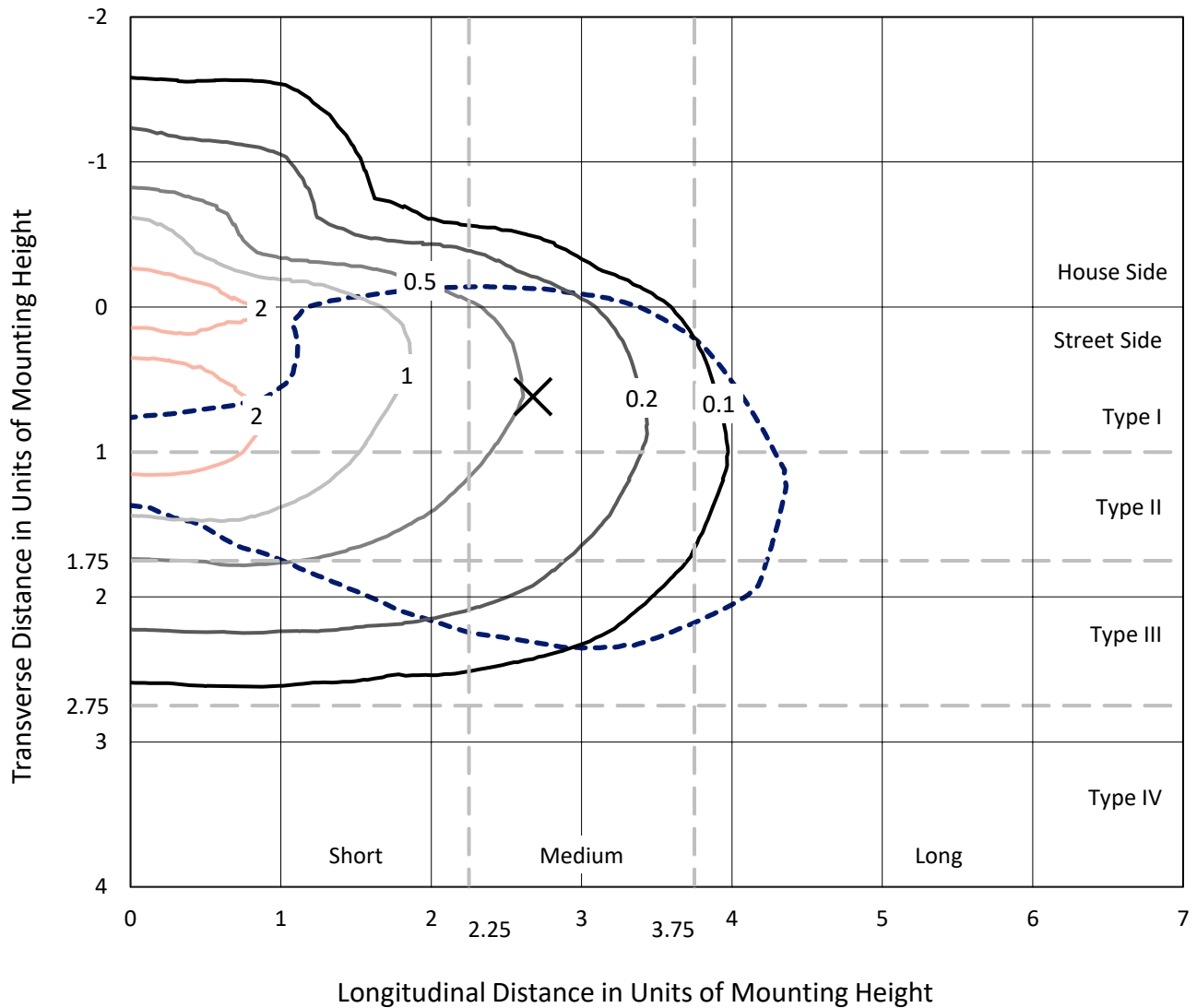
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

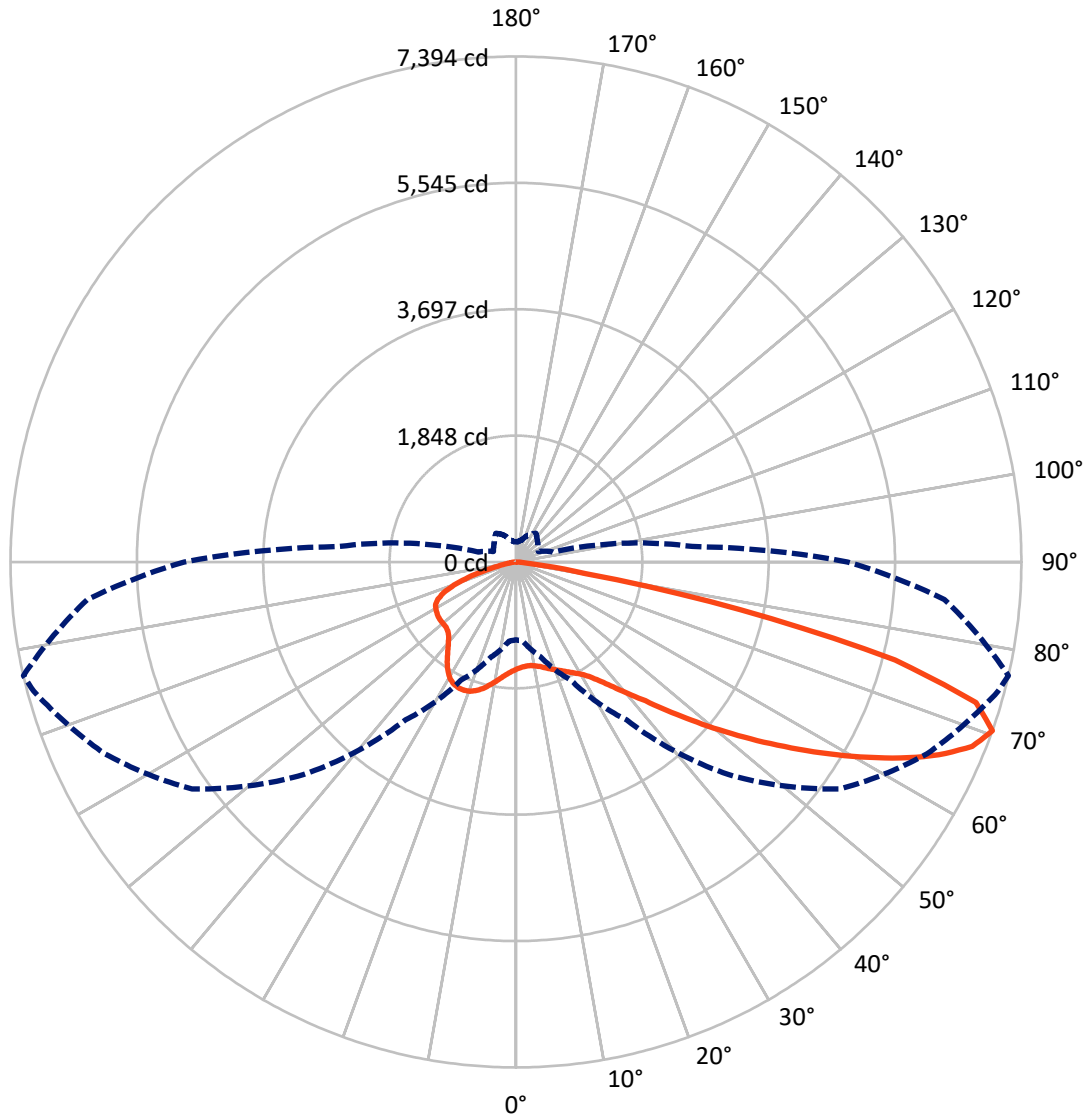
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 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
House Side	Lumens	2460.1	0.0	2460.1
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	8773.9	0.0	8773.9
	% Fixture	78.1	0.0	78.1
Total	Lumens	11234.0	0.0	11234.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.5	1.3
10°-20°	431.4	3.8
20°-30°	737.7	6.6
30°-40°	1186.4	10.6
40°-50°	1852.2	16.5
50°-60°	2474.1	22.0
60°-70°	2637.1	23.5
70°-80°	1623.3	14.5
80°-90°	142.2	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°	11234.0	100.0
0°-180°	11234.0	100.0

Coefficient of Utilization



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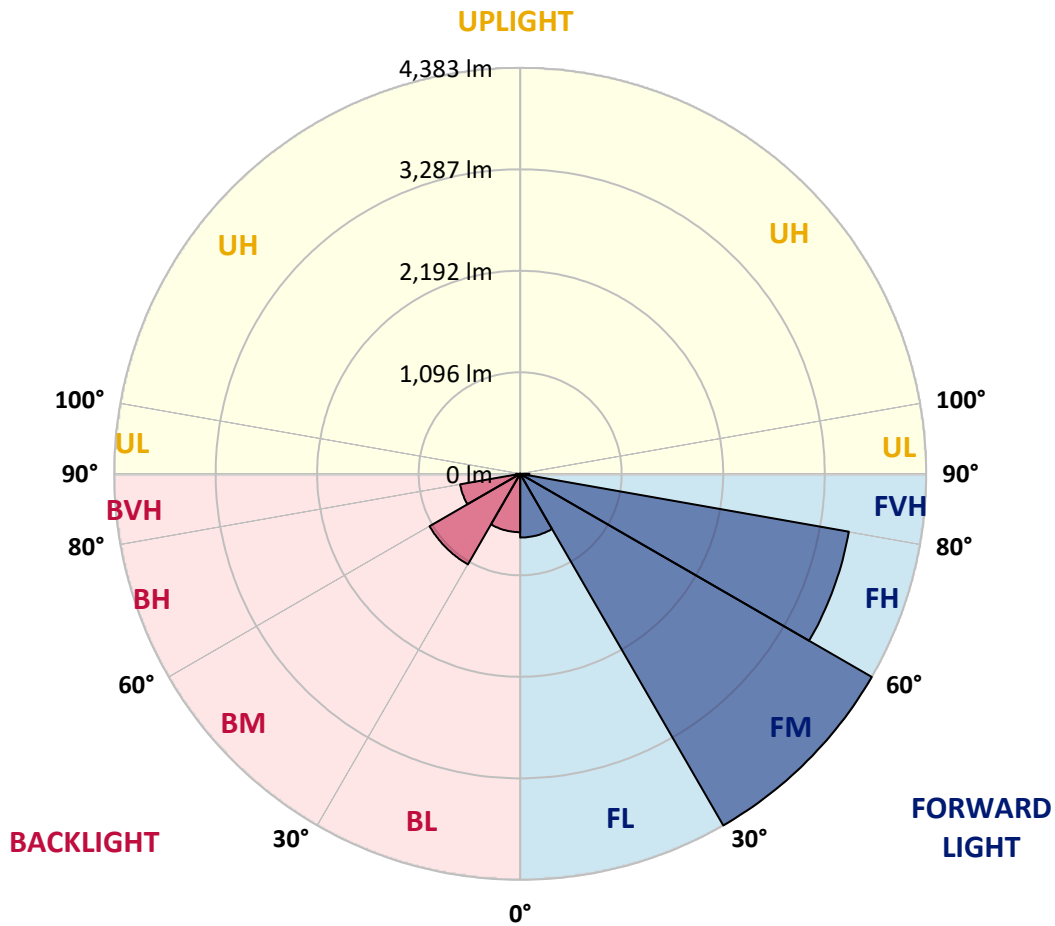
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	688.3	6.1			
FM (30°-60°)	4383.3	39.0			
FH (60°-80°)	3602.9	32.1			G2/5000
FVH (80°-90°)	99.5	0.9			G1/100
BL (0°-30°)	630.3	5.6	B2/1000		
BM (30°-60°)	1129.5	10.1	B2/2500		
BH (60°-80°)	657.5	5.9	B2/1000		G2/1000
BVH (80°-90°)	42.8	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	1567.2	1567.2	1567.2	1567.2	1567.2	1567.2	1567.2	1567.2	1567.2	1567.2
2.5°	1444.7	1444.1	1451.6	1453.9	1467.7	1477.5	1495.9	1515.5	1540.8	1543.7
5°	1361.3	1361.3	1369.9	1379.1	1396.9	1416.5	1444.7	1478.6	1522.4	1529.3
7.5°	1290.5	1295.1	1302.6	1320.4	1341.1	1369.3	1412.5	1460.8	1518.3	1529.3
10°	1233.5	1238.7	1247.9	1262.3	1293.4	1332.5	1388.9	1451.0	1528.1	1545.4
12.5°	1215.7	1220.9	1226.1	1237.0	1265.8	1311.8	1379.1	1455.6	1551.7	1569.0
15°	1257.1	1263.5	1259.4	1256.6	1271.5	1313.5	1383.7	1472.3	1581.1	1605.8
17.5°	1352.6	1354.9	1345.7	1318.7	1316.4	1338.8	1405.6	1495.3	1617.9	1644.9
20°	1506.8	1502.8	1483.8	1430.3	1399.8	1395.2	1443.0	1529.8	1655.8	1684.6
22.5°	1716.3	1711.7	1673.7	1589.1	1521.2	1476.3	1497.1	1574.7	1698.4	1730.6
25°	1977.5	1971.1	1915.3	1800.3	1695.0	1583.9	1570.7	1634.0	1750.8	1780.7
27.5°	2282.4	2277.2	2216.8	2064.9	1913.0	1731.2	1662.2	1703.6	1805.4	1839.4
30°	2610.3	2625.3	2518.3	2354.9	2162.7	1923.4	1785.3	1789.3	1876.2	1906.7
32.5°	2995.8	3021.7	2892.8	2685.7	2423.4	2132.2	1940.6	1909.0	1979.2	2004.5
35°	3377.9	3407.2	3300.2	3071.2	2769.1	2378.5	2102.9	2046.5	2116.1	2143.7
37.5°	3708.1	3747.2	3692.0	3492.9	3139.1	2675.4	2314.6	2208.2	2284.7	2319.2
40°	3968.7	4028.6	4024.6	3900.3	3575.2	3035.5	2583.3	2407.8	2494.1	2531.5
42.5°	4180.5	4232.3	4277.1	4270.8	4030.3	3444.6	2899.2	2667.3	2732.9	2776.0
45°	4326.6	4381.8	4478.5	4582.6	4468.1	3882.4	3261.1	2975.1	3035.0	3100.0
47.5°	4457.2	4519.9	4645.4	4810.5	4839.8	4322.0	3657.5	3333.6	3388.2	3455.5
50°	4468.7	4522.8	4717.3	4951.4	5103.9	4744.3	4083.2	3735.7	3786.9	3858.9
52.5°	4190.8	4276.0	4615.4	4947.4	5225.3	5097.6	4506.1	4154.0	4211.5	4297.8
55°	3253.0	3377.9	4316.8	4793.2	5182.2	5326.0	4908.3	4598.7	4672.4	4762.7
57.5°	2801.9	2856.6	3426.8	4512.4	4985.4	5385.2	5247.7	5048.1	5166.6	5265.6
60°	2518.3	2563.7	2900.9	4075.8	4726.5	5291.5	5510.1	5466.9	5671.8	5789.7
62.5°	2214.5	2257.7	2564.3	3403.2	4395.1	5135.5	5675.8	5853.6	6189.6	6318.5
65°	1913.0	1949.9	2243.9	2859.5	3973.9	4979.6	5761.5	6187.9	6668.8	6802.3
67.5°	1577.0	1607.5	1885.4	2412.4	3461.9	4766.2	5804.1	6450.8	7086.0	7200.5
70°	1138.0	1161.6	1448.7	1907.9	2819.2	4399.1	5786.8	6637.2	7302.3	7393.8
72.5°	537.9	559.2	896.4	1238.7	1991.3	3684.5	5437.6	6489.3	7082.5	7037.1
75°	287.1	305.5	514.9	679.5	1051.7	2525.8	4449.7	5590.1	5947.4	5726.4
77.5°	194.5	208.9	318.7	407.9	480.4	1199.0	2860.1	3870.4	3723.6	3358.9
80°	154.2	169.2	261.2	276.2	232.4	433.2	1181.8	1791.6	1287.1	1029.3
82.5°	118.5	135.2	219.8	200.2	126.6	177.8	344.1	566.7	329.7	250.9
85°	72.5	90.3	172.6	127.7	71.3	81.1	116.8	157.6	100.7	84.0
87.5°	36.8	51.8	87.5	46.6	32.2	19.0	31.1	31.1	26.5	23.0
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°
1567.2	0°	1567.2	1567.2	1567.2	1567.2	1567.2	1567.2	1567.2	1567.2	1567.2	1567.2
1559.2	2.5°	1573.0	1584.5	1604.1	1622.5	1636.9	1650.7	1664.5	1672.0	1674.3	1683.5
1567.8	5°	1591.4	1612.7	1650.7	1686.3	1708.8	1722.6	1732.4	1738.1	1739.3	1742.2
1591.4	7.5°	1625.4	1659.3	1712.2	1747.9	1764.6	1763.4	1759.4	1745.0	1739.3	1734.1
1625.9	10°	1673.1	1718.0	1783.0	1807.7	1797.4	1769.8	1734.1	1692.1	1672.5	1653.5
1673.1	12.5°	1732.4	1789.3	1853.2	1852.0	1800.8	1730.1	1647.2	1582.8	1541.9	1512.6
1731.2	15°	1804.3	1869.9	1918.8	1879.7	1767.5	1640.3	1518.9	1434.9	1398.1	1365.9
1789.9	17.5°	1878.5	1948.7	1971.1	1871.0	1683.5	1507.4	1369.9	1303.7	1267.5	1250.2
1853.2	20°	1951.0	2020.6	2002.2	1821.5	1555.7	1356.7	1234.1	1197.9	1190.4	1194.4
1914.8	22.5°	2027.5	2089.7	2008.5	1726.0	1392.9	1202.5	1135.2	1136.3	1153.0	1165.1
1979.2	25°	2105.8	2147.8	1991.9	1588.0	1218.0	1089.1	1072.4	1090.9	1123.7	1147.2
2051.7	27.5°	2181.1	2199.6	1955.6	1417.1	1067.8	1008.0	1010.9	1048.9	1098.3	1131.1
2139.7	30°	2266.3	2245.6	1886.0	1224.9	963.7	938.4	962.6	1006.9	1056.3	1085.7
2250.8	32.5°	2362.4	2285.3	1775.5	1047.1	890.1	882.6	922.3	951.0	972.9	981.5
2398.0	35°	2482.0	2341.1	1634.0	922.3	823.9	841.7	879.7	865.3	856.7	852.1
2596.0	37.5°	2637.4	2416.5	1468.3	841.2	770.4	812.4	827.9	783.0	749.1	732.4
2835.9	40°	2824.4	2526.9	1308.9	778.4	736.4	787.1	760.0	706.0	662.8	639.2
3105.7	42.5°	3032.1	2642.6	1174.9	731.3	717.5	766.4	710.0	645.5	575.9	568.4
3427.3	45°	3250.1	2761.7	1083.4	695.0	708.3	748.5	681.2	577.1	527.6	558.1
3750.1	47.5°	3468.2	2871.0	1028.1	668.0	703.6	728.4	655.9	539.1	504.0	548.3
4095.9	50°	3711.0	2968.8	1003.4	648.4	698.5	720.3	617.9	529.3	479.3	508.6
4453.8	52.5°	3952.1	3044.7	985.0	628.9	691.0	714.0	599.5	517.8	449.3	451.1
4813.9	55°	4192.6	3094.2	964.9	603.0	674.3	700.2	597.8	505.2	426.9	418.9
5194.8	57.5°	4449.2	3122.4	940.1	574.2	645.5	665.1	596.1	495.4	420.0	406.8
5584.3	60°	4710.4	3163.8	907.9	539.1	607.0	623.1	592.0	491.9	416.0	393.5
5951.4	62.5°	4944.5	3178.2	869.3	505.7	557.5	581.7	583.4	489.0	405.0	366.5
6256.3	65°	5098.2	3116.1	802.0	467.8	504.0	539.1	566.7	479.3	385.5	346.9
6407.1	67.5°	5091.8	2938.9	696.7	418.9	452.2	491.9	542.6	462.6	361.9	322.8
6293.1	70°	4854.8	2589.1	563.3	361.9	395.3	441.3	511.5	437.8	333.7	296.3
5595.8	72.5°	4163.8	2026.4	409.1	295.2	329.1	388.9	471.2	407.9	304.9	272.7
4135.6	75°	2974.5	1282.4	277.3	226.7	256.0	329.7	421.2	372.8	278.5	273.9
2071.2	77.5°	1519.5	612.7	183.5	165.7	178.4	260.1	353.8	333.1	282.5	226.1
589.2	80°	494.2	226.1	115.6	112.8	118.5	173.2	273.9	273.3	214.0	153.6
142.7	82.5°	157.6	97.2	75.4	72.5	69.6	108.7	191.0	216.3	144.4	97.2
51.2	85°	62.7	58.1	44.3	40.8	29.3	51.2	100.1	143.8	107.6	70.2
13.2	87.5°	23.0	23.0	12.1	8.6	6.3	17.3	27.0	43.2	61.6	36.2
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>
1567.2
1688.6
1746.8
1735.2
1647.8
1505.7
1362.4
1255.4
1192.7
1168.0
1153.6
1139.2
1092.6
986.1
856.7
736.4
640.9
575.9
574.2
569.0
530.5
463.2
424.6
408.5
395.3
366.5
346.9
324.5
299.8
271.0
258.3
201.4
135.8
96.7
71.9
35.7
0.0

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