

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: P949449

Luminaire Tested: **GALN-SB4A-940-U-T4W**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949449  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB4A-940-U-T4W  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 90 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

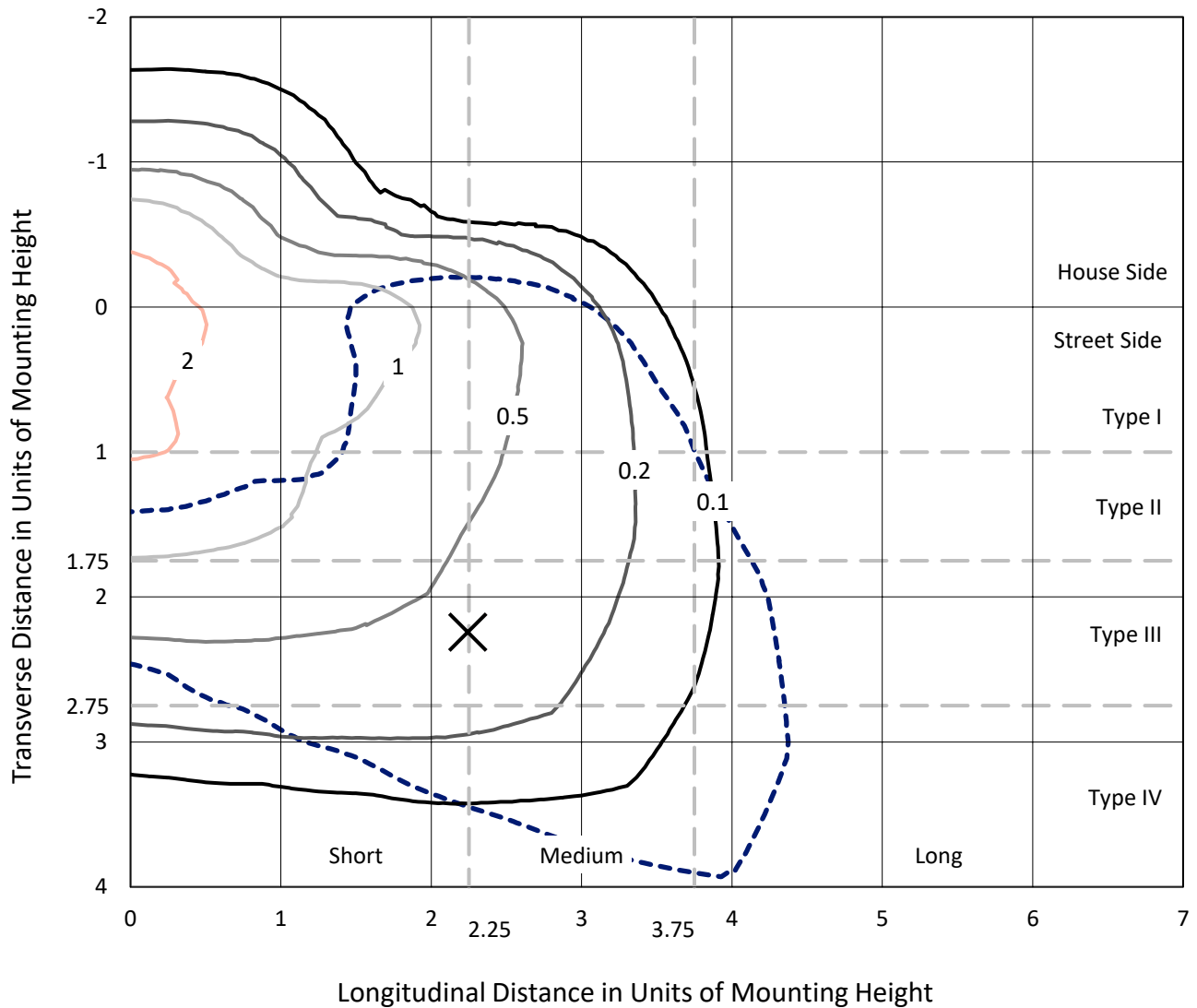
Lumens per Lamp: N/A  
Luminaire Lumens: 13002 lumens  
Efficiency: N/A  
Efficacy: 114.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 114  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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

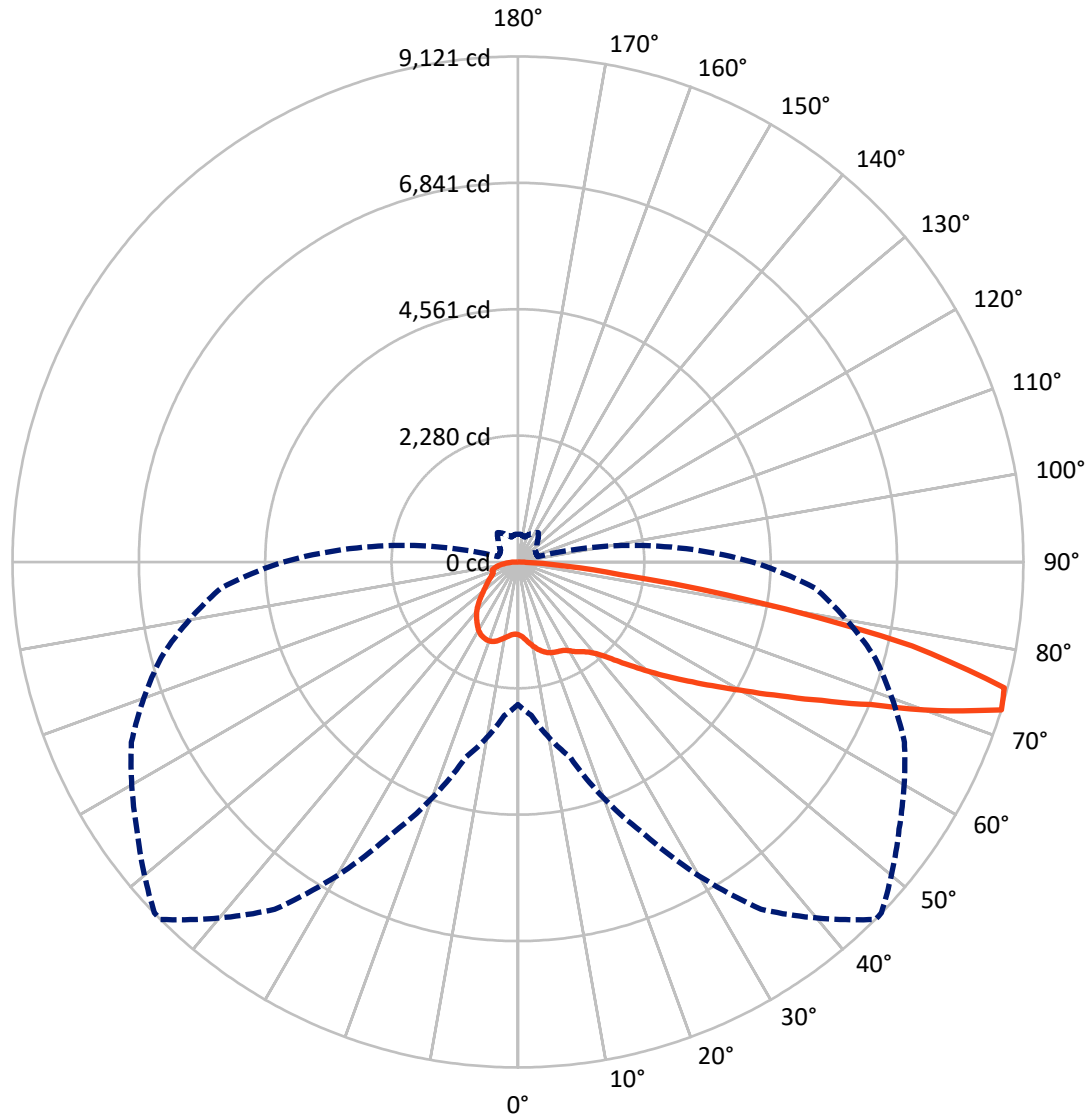
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2939.3	0.0	2939.3
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	10062.7	0.0	10062.7
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	13002.0	0.0	13002.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	133.5	1.0
10°-20°	445.1	3.4
20°-30°	774.3	6.0
30°-40°	1110.0	8.5
40°-50°	1562.9	12.0
50°-60°	2393.9	18.4
60°-70°	3468.0	26.7
70°-80°	2769.4	21.3
80°-90°	344.9	2.7
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°	13002.0	100.0
0°-180°	13002.0	100.0

**Coefficient of Utilization**



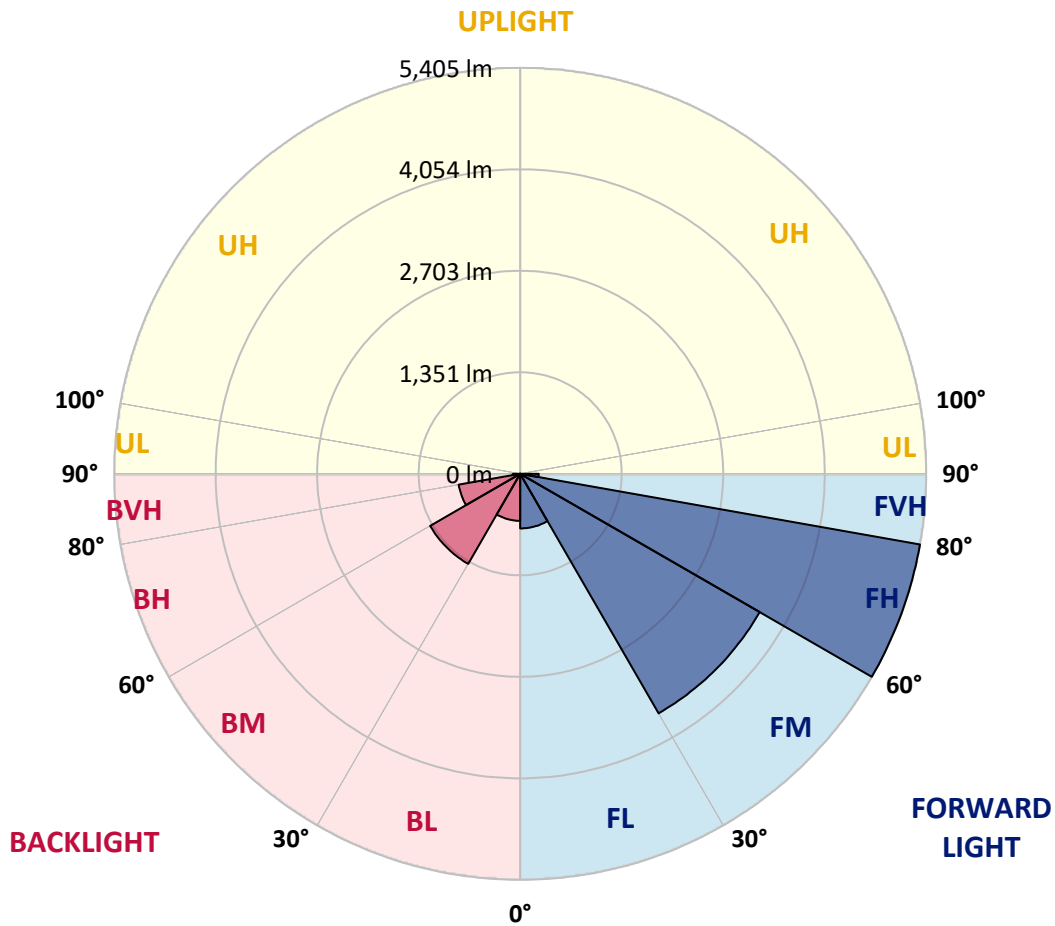
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	727.1	5.6			
FM (30°-60°)	3682.8	28.3			
FH (60°-80°)	5405.3	41.6			G3/7500
FVH (80°-90°)	247.4	1.9			G3/500
BL (0°-30°)	625.8	4.8	B2/1000		
BM (30°-60°)	1384.0	10.6	B2/2500		
BH (60°-80°)	832.0	6.4	B2/1000		G2/1000
BVH (80°-90°)	97.5	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	1311.6	1311.6	1311.6	1311.6	1311.6	1311.6	1311.6	1311.6	1311.6	1311.6
2.5°	1363.0	1371.9	1363.7	1356.2	1352.7	1343.8	1343.2	1337.7	1334.3	1324.7
5°	1458.2	1469.9	1456.2	1441.1	1427.4	1405.5	1402.7	1387.0	1369.2	1348.6
7.5°	1565.8	1576.0	1560.3	1537.7	1513.7	1477.4	1476.7	1448.0	1419.9	1384.9
10°	1659.6	1673.3	1652.1	1621.2	1591.1	1550.0	1545.2	1512.3	1476.7	1431.5
12.5°	1742.5	1752.1	1731.5	1693.8	1658.9	1617.8	1611.6	1575.3	1535.6	1484.3
15°	1808.2	1820.6	1793.2	1752.7	1715.8	1675.3	1669.9	1637.0	1597.3	1543.2
17.5°	1851.4	1861.7	1833.6	1788.4	1752.7	1719.2	1715.1	1687.7	1652.7	1598.0
20°	1867.8	1878.8	1849.3	1803.4	1770.6	1744.5	1742.5	1722.6	1698.6	1648.6
22.5°	1884.3	1894.5	1856.2	1808.2	1779.5	1763.0	1762.3	1749.3	1739.7	1698.6
25°	1950.7	1953.4	1902.1	1832.9	1791.8	1777.4	1776.7	1776.0	1780.1	1748.0
27.5°	2008.2	2007.5	1963.7	1898.6	1834.9	1804.8	1804.1	1811.0	1824.0	1797.3
30°	2092.5	2084.9	2032.9	1965.1	1906.9	1860.3	1856.2	1850.0	1860.3	1839.0
32.5°	2271.2	2247.3	2163.0	2042.5	1966.4	1930.8	1925.3	1887.0	1891.1	1878.1
35°	2527.4	2495.9	2383.6	2189.0	2040.4	1989.7	1987.0	1938.4	1930.1	1918.5
37.5°	2832.2	2793.2	2662.3	2401.4	2167.8	2058.2	2054.1	2010.3	1976.7	1964.4
40°	3138.4	3089.1	2980.8	2660.3	2355.5	2172.6	2159.6	2093.2	2054.8	2034.3
42.5°	3435.6	3394.5	3302.1	2950.7	2587.0	2339.7	2311.0	2197.3	2168.5	2149.3
45°	3698.6	3661.7	3593.8	3261.0	2858.2	2567.1	2539.1	2353.4	2344.5	2344.5
47.5°	3912.3	3904.1	3832.2	3577.4	3178.1	2826.0	2777.4	2570.6	2594.5	2631.5
50°	4149.3	4126.7	4050.0	3889.1	3554.1	3122.6	3082.9	2837.0	2926.7	3028.1
52.5°	4367.1	4379.5	4293.9	4213.7	3978.8	3453.4	3383.6	3151.4	3345.2	3513.0
55°	4591.1	4591.8	4567.8	4556.9	4424.0	3819.2	3742.5	3529.5	3837.7	4045.9
57.5°	4801.4	4802.8	4838.4	4934.9	4940.4	4241.1	4154.1	3993.9	4384.9	4597.3
60°	4989.1	4998.6	5095.9	5321.9	5394.5	4724.7	4642.5	4542.5	4950.7	5164.4
62.5°	5052.1	5087.0	5303.4	5624.7	5843.2	5317.8	5237.0	5177.4	5545.2	5743.9
65°	4945.2	5025.4	5443.9	5874.7	6304.8	6022.6	5942.5	5877.4	6163.0	6350.0
67.5°	4682.9	4786.3	5435.6	6137.0	6865.1	6870.6	6795.9	6643.2	6825.4	6897.3
70°	3991.8	4146.6	4956.9	6235.0	7508.2	8030.2	7958.2	7565.1	7486.3	7138.4
72.5°	2571.9	2780.1	3650.0	5428.8	7651.4	9121.3	9117.2	8397.3	7695.2	6669.9
75°	938.4	1065.8	1695.9	3407.5	6422.6	9065.8	9092.5	8254.8	7024.7	5152.1
77.5°	341.8	374.0	553.4	1309.6	3950.0	7274.0	7329.5	6599.3	5000.0	2585.6
80°	179.5	197.3	283.6	508.2	1692.5	4319.9	4406.9	3921.9	2350.0	778.8
82.5°	99.3	107.5	158.9	276.0	762.3	1847.3	1899.3	1549.3	826.7	330.1
85°	53.4	56.8	74.7	150.7	372.6	640.4	654.8	463.0	329.5	193.8
87.5°	15.8	19.2	24.7	47.9	145.9	143.8	147.3	91.8	130.1	97.9
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°
1311.6	0°	1311.6	1311.6	1311.6	1311.6	1311.6	1311.6	1311.6	1311.6	1311.6	1311.6
1321.9	2.5°	1317.8	1315.8	1308.2	1304.8	1300.7	1300.0	1303.4	1304.1	1304.8	1305.5
1337.0	5°	1330.1	1323.3	1316.4	1312.3	1313.7	1314.4	1321.2	1326.0	1329.5	1332.2
1365.1	7.5°	1354.1	1348.6	1337.0	1336.3	1338.4	1344.5	1353.4	1364.4	1370.6	1375.3
1401.4	10°	1389.7	1379.5	1365.8	1367.8	1371.9	1380.8	1399.3	1408.2	1418.5	1427.4
1445.9	12.5°	1426.0	1417.1	1401.4	1402.7	1409.6	1425.3	1443.2	1454.1	1461.0	1467.8
1493.8	15°	1473.3	1457.5	1440.4	1440.4	1452.7	1469.9	1478.1	1487.0	1491.1	1498.6
1545.2	17.5°	1521.9	1501.4	1478.8	1477.4	1492.5	1500.7	1505.5	1506.9	1508.2	1516.4
1595.2	20°	1570.6	1548.0	1515.8	1513.0	1516.4	1515.1	1514.4	1513.0	1515.1	1525.3
1646.6	22.5°	1618.5	1592.5	1548.0	1535.6	1526.0	1513.0	1512.3	1511.6	1513.0	1523.3
1702.1	25°	1674.7	1643.2	1583.6	1546.6	1514.4	1496.6	1498.6	1499.3	1500.7	1508.9
1759.6	27.5°	1735.6	1700.7	1616.4	1543.2	1484.9	1472.6	1469.2	1471.2	1476.0	1489.0
1817.1	30°	1796.6	1755.5	1646.6	1529.5	1448.0	1430.8	1419.9	1424.7	1439.7	1452.7
1867.1	32.5°	1852.1	1811.0	1670.6	1499.3	1400.7	1374.0	1359.6	1365.8	1380.8	1385.6
1922.6	35°	1917.1	1870.6	1680.8	1451.4	1349.3	1308.2	1289.0	1280.1	1287.7	1282.9
1987.7	37.5°	1989.7	1941.1	1679.5	1388.4	1289.0	1241.8	1215.1	1181.5	1165.8	1149.3
2083.6	40°	2097.3	2027.4	1663.0	1312.3	1214.4	1171.2	1123.3	1066.4	1030.8	998.6
2238.4	42.5°	2243.8	2147.3	1632.9	1228.8	1130.1	1089.7	1024.7	958.2	902.1	848.6
2473.3	45°	2462.3	2304.1	1595.2	1139.7	1039.0	999.3	928.8	854.1	790.4	721.9
2806.9	47.5°	2777.4	2515.1	1559.6	1038.4	943.2	906.9	843.2	774.0	698.6	632.2
3289.1	50°	3210.3	2817.8	1526.7	939.7	848.6	821.2	770.6	700.0	624.0	570.6
3854.1	52.5°	3761.0	3229.5	1513.0	844.5	760.3	750.0	709.6	643.8	571.9	526.7
4513.0	55°	4393.2	3721.9	1513.0	753.4	682.9	686.3	658.2	597.3	534.9	494.5
5192.5	57.5°	5038.4	4220.6	1485.6	669.2	617.1	631.5	613.7	560.3	504.1	462.3
5906.9	60°	5632.9	4638.4	1374.7	592.5	558.9	581.5	569.9	524.0	455.5	420.5
6504.1	62.5°	6089.7	4874.0	1161.0	531.5	511.0	537.0	530.8	476.0	446.6	432.2
6994.5	65°	6318.5	4835.6	887.7	477.4	470.5	511.0	497.9	495.9	472.6	456.2
7154.1	67.5°	6178.1	4505.5	643.8	437.7	447.3	487.0	537.0	545.2	502.1	469.9
6704.8	70°	5562.3	3908.2	479.5	400.0	417.8	487.7	612.3	570.6	492.5	454.8
5377.4	72.5°	4231.5	2914.4	371.9	360.3	379.5	491.1	645.9	558.9	465.1	502.7
3350.0	75°	2419.9	1600.0	298.6	311.6	331.5	458.9	628.8	528.8	443.8	461.6
1327.4	77.5°	922.6	615.1	246.6	263.7	266.4	400.7	601.4	526.7	422.6	412.3
397.9	80°	319.9	240.4	204.1	209.6	206.2	356.2	576.7	458.2	345.9	309.6
164.4	82.5°	130.8	119.9	161.6	154.8	146.6	276.7	465.8	374.7	282.9	250.0
79.5	85°	56.8	76.0	106.8	93.8	84.9	191.8	373.3	317.1	239.0	206.2
26.0	87.5°	11.6	28.8	45.2	42.5	43.8	128.1	265.1	225.3	169.2	126.7
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>
1311.6
1308.2
1333.6
1376.7
1425.3
1470.6
1501.4
1519.2
1529.5
1530.1
1519.9
1502.1
1467.1
1402.7
1298.0
1159.6
1000.7
843.8
713.7
624.7
567.1
523.3
490.4
455.5
415.1
427.4
450.7
464.4
448.6
498.6
461.6
376.0
299.3
247.3
205.5
99.3
0.0

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