

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: P940909

Luminaire Tested: **GALN-SB4A-940-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940909
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-SB4A-940-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12876 lumens
Efficiency: N/A
Efficacy: 112.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

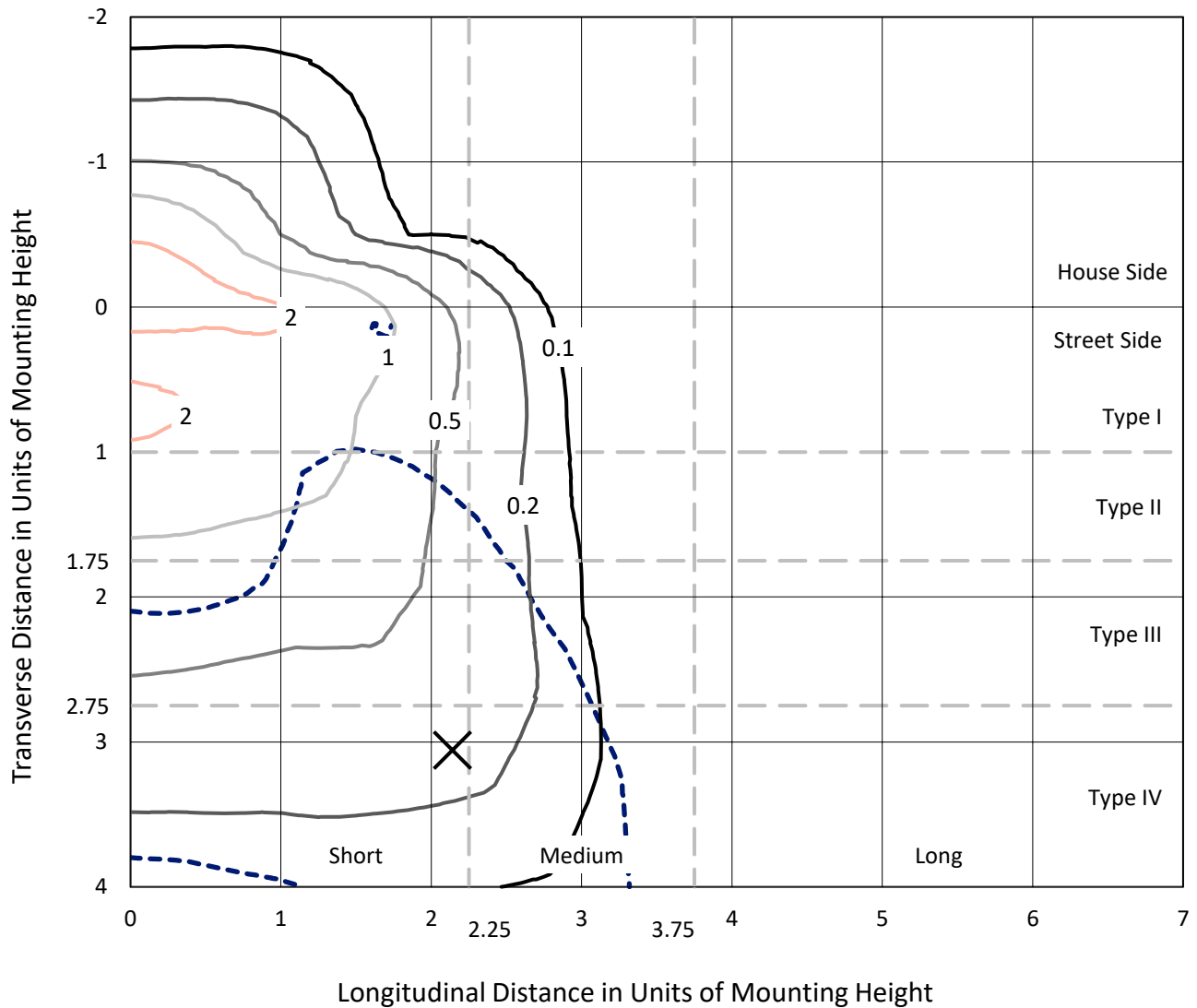
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

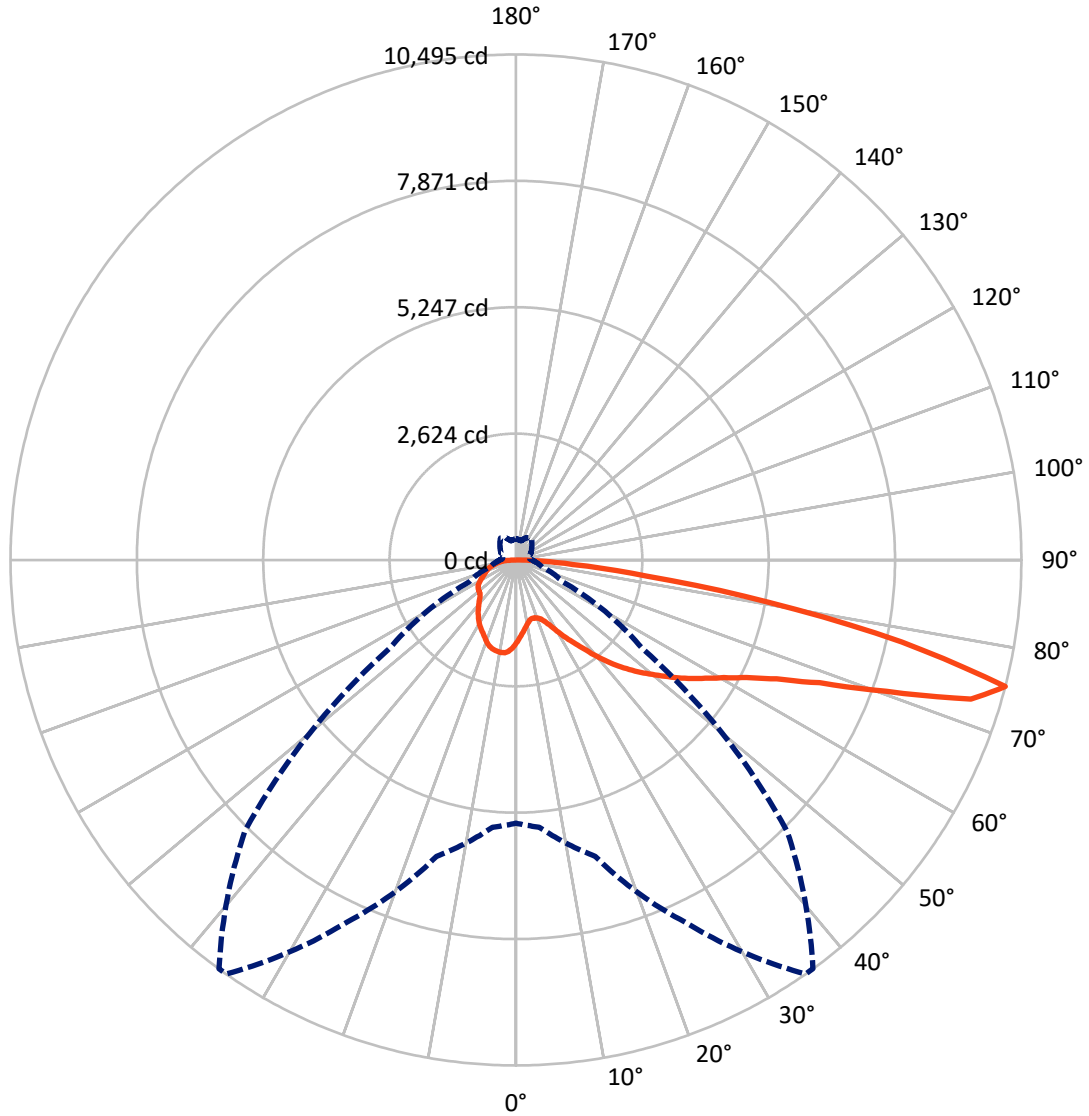
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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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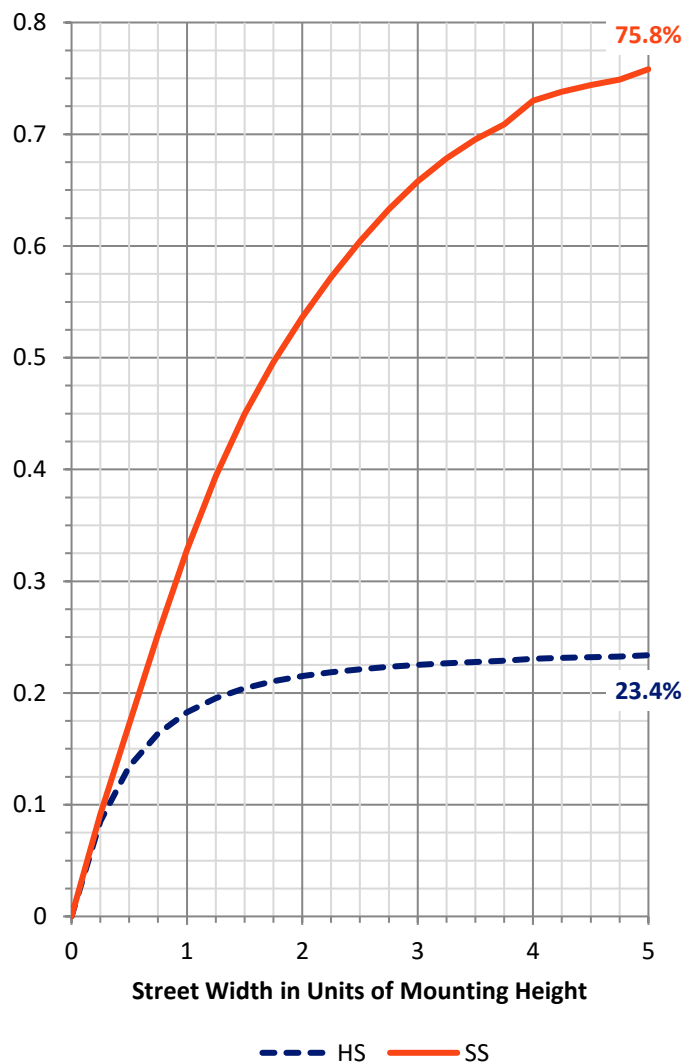
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3064.2	0.0	3064.2
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	9811.8	0.0	9811.8
	% Fixture	76.2	0.0	76.2
Total	Lumens	12876.0	0.0	12876.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.5	1.3
10°-20°	468.6	3.6
20°-30°	786.9	6.1
30°-40°	1222.9	9.5
40°-50°	1815.1	14.1
50°-60°	2505.9	19.5
60°-70°	3040.2	23.6
70°-80°	2512.5	19.5
80°-90°	361.4	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°	12876.0	100.0
0°-180°	12876.0	100.0

Coefficient of Utilization



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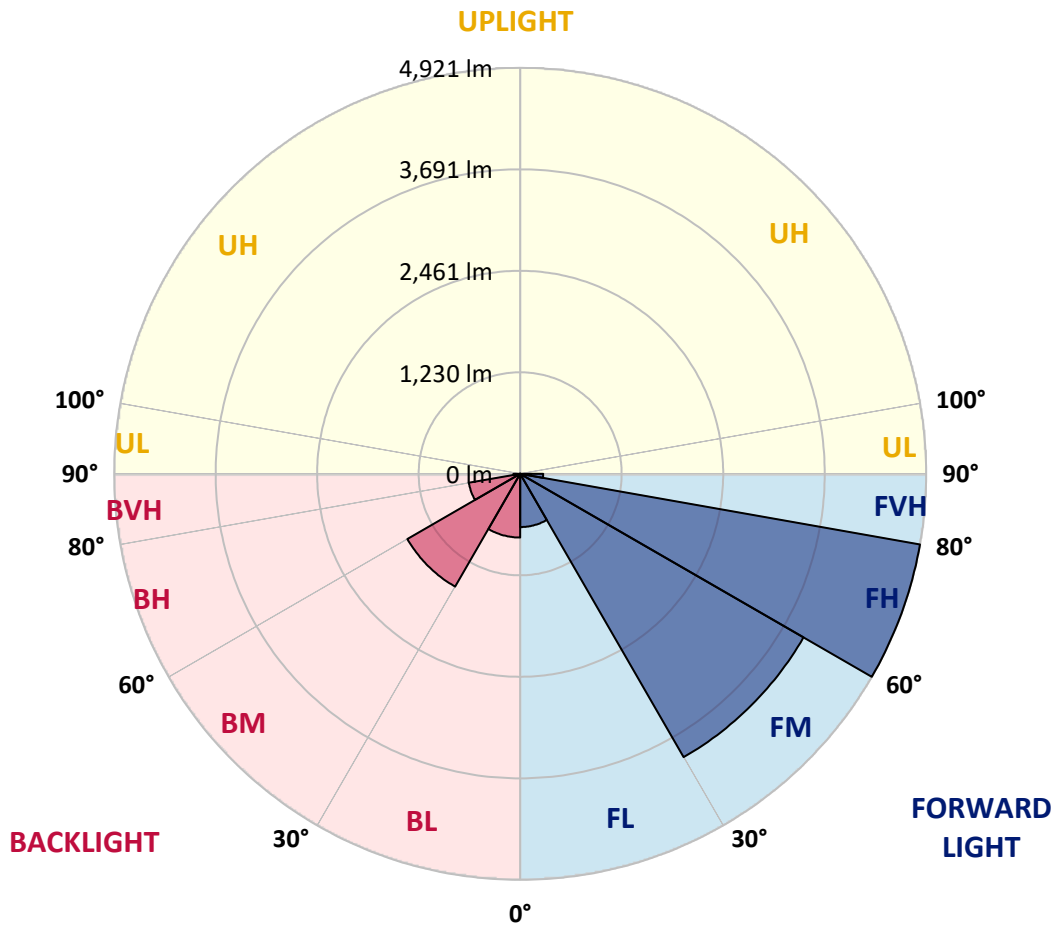
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	645.7	5.0			
FM (30°-60°)	3965.1	30.8			
FH (60°-80°)	4921.0	38.2			G2/5000
FVH (80°-90°)	280.0	2.2			G3/500
BL (0°-30°)	772.2	6.0	B2/1000		
BM (30°-60°)	1578.8	12.3	B2/2500		
BH (60°-80°)	631.7	4.9	B2/1000		G2/1000
BVH (80°-90°)	81.4	0.6			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°	36°	45°	55°	65°	75°
0°	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8
2.5°	1582.2	1591.9	1596.1	1594.0	1604.4	1603.1	1617.7	1635.8	1660.8	1685.2
5°	1460.4	1470.8	1479.8	1488.2	1508.4	1514.6	1537.6	1572.4	1618.4	1665.0
7.5°	1346.9	1355.9	1369.9	1385.2	1419.3	1425.6	1463.8	1518.1	1582.2	1650.4
10°	1254.3	1263.4	1278.0	1295.4	1337.8	1345.5	1394.2	1466.6	1550.1	1636.5
12.5°	1214.6	1217.4	1225.8	1243.2	1280.1	1284.9	1338.5	1421.4	1518.8	1626.0
15°	1212.6	1218.1	1218.8	1227.9	1258.5	1260.6	1310.0	1392.1	1499.3	1623.9
17.5°	1233.4	1237.6	1231.3	1236.9	1262.7	1266.2	1305.1	1378.2	1493.1	1633.0
20°	1289.1	1292.6	1273.8	1266.2	1284.9	1287.7	1326.0	1387.3	1499.3	1651.8
22.5°	1407.5	1409.5	1363.6	1332.3	1333.7	1335.1	1368.5	1424.2	1523.7	1685.9
25°	1591.9	1590.5	1517.4	1456.9	1422.1	1414.4	1436.7	1484.0	1564.8	1731.1
27.5°	1807.7	1797.3	1724.2	1633.7	1557.8	1546.7	1541.8	1562.0	1623.2	1791.0
30°	2051.3	2041.6	1962.9	1844.6	1739.5	1721.4	1675.4	1665.0	1710.2	1872.4
32.5°	2318.6	2312.3	2218.4	2075.0	1934.4	1913.5	1836.2	1808.4	1843.9	1995.6
35°	2542.7	2537.2	2459.2	2311.7	2139.7	2114.0	2035.3	2004.0	2022.1	2153.6
37.5°	2745.3	2742.5	2675.7	2559.5	2382.0	2350.6	2262.2	2251.8	2248.3	2361.8
40°	2933.2	2926.3	2856.7	2795.4	2663.9	2635.3	2557.4	2548.3	2521.9	2617.9
42.5°	3141.4	3123.3	3022.3	2993.8	2958.3	2934.6	2888.0	2889.4	2830.9	2906.8
45°	3311.2	3300.8	3197.1	3180.3	3218.6	3208.9	3249.3	3259.7	3146.2	3209.6
47.5°	3493.6	3483.8	3396.1	3384.3	3488.0	3490.8	3633.5	3637.0	3453.9	3524.2
50°	3718.4	3704.5	3617.5	3632.1	3748.3	3758.8	4019.8	3996.1	3737.2	3843.7
52.5°	3866.7	3875.0	3856.2	3879.9	4038.6	4048.3	4399.9	4339.3	4017.7	4159.0
55°	3976.0	3992.7	4051.1	4105.4	4344.9	4354.6	4758.3	4665.8	4250.2	4451.4
57.5°	4116.6	4092.9	4202.2	4308.0	4635.8	4661.6	5107.1	4980.4	4456.2	4703.3
60°	4318.4	4301.7	4386.6	4543.3	4961.6	5002.7	5476.0	5263.7	4607.3	4903.1
62.5°	4727.7	4685.9	4699.2	4837.7	5372.3	5426.6	5892.2	5510.8	4682.5	4981.1
65°	5339.6	5267.9	5201.0	5297.1	5950.7	6004.3	6362.1	5705.0	4654.6	4830.0
67.5°	6110.1	6039.1	5957.0	6047.5	6802.7	6845.2	6941.9	5814.3	4435.4	4248.1
70°	6745.6	6719.2	6817.3	7189.7	8163.5	8164.9	7685.3	5723.8	3834.7	3011.9
72.5°	6661.4	6645.4	7162.6	8313.9	9878.6	9841.7	8389.0	5038.9	2583.1	1358.7
75°	5464.9	5568.6	6369.7	8293.7	10494.7	10489.8	7958.2	3203.3	1068.5	563.1
77.5°	2930.5	3094.7	4135.4	6123.3	8192.8	8316.0	5595.0	1120.7	458.7	360.6
80°	955.7	1099.1	1648.3	3117.7	5323.5	5300.6	2398.0	439.9	313.9	255.5
82.5°	405.8	422.5	736.4	1472.2	2732.1	2689.6	763.6	252.7	220.7	174.7
85°	158.7	177.5	325.1	680.8	1183.3	1157.6	275.6	125.3	141.3	114.2
87.5°	52.2	63.3	116.2	233.2	368.2	355.0	67.5	43.2	61.3	52.2
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°
1715.8	0°	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8
1720.7	2.5°	1730.4	1741.6	1754.8	1774.3	1791.0	1804.9	1819.5	1828.6	1832.1	1842.5
1723.5	5°	1743.0	1767.3	1800.0	1832.1	1863.4	1882.2	1898.9	1907.2	1914.9	1920.5
1731.1	7.5°	1763.8	1795.2	1846.7	1888.4	1914.9	1930.2	1941.3	1938.6	1941.3	1942.7
1739.5	10°	1781.9	1825.8	1887.0	1926.7	1946.9	1947.6	1944.8	1935.1	1930.2	1930.9
1752.0	12.5°	1803.5	1852.2	1918.4	1951.8	1957.4	1942.0	1930.2	1913.5	1907.2	1904.4
1770.8	15°	1832.8	1888.4	1952.5	1965.0	1951.1	1931.6	1911.4	1884.3	1870.3	1859.2
1802.8	17.5°	1868.3	1929.5	1978.9	1969.9	1939.9	1907.9	1875.2	1834.1	1805.6	1793.8
1846.7	20°	1917.7	1972.7	1999.1	1959.4	1914.2	1865.5	1809.8	1759.7	1733.2	1721.4
1902.4	22.5°	1977.5	2030.4	2018.6	1941.3	1877.3	1799.3	1729.7	1692.8	1679.6	1671.3
1974.1	25°	2049.2	2094.5	2032.5	1914.9	1816.7	1711.6	1658.0	1646.2	1639.9	1633.7
2061.8	27.5°	2142.5	2166.9	2043.0	1875.9	1722.1	1618.4	1598.9	1601.0	1598.9	1588.4
2183.6	30°	2265.7	2260.8	2052.7	1812.6	1613.5	1534.1	1535.5	1544.6	1546.0	1539.0
2353.4	32.5°	2427.9	2378.5	2057.6	1730.4	1509.8	1460.4	1461.7	1471.5	1478.5	1466.6
2575.5	35°	2624.2	2515.6	2049.9	1627.4	1429.7	1390.1	1379.6	1382.4	1384.5	1373.3
2844.8	37.5°	2853.2	2669.4	2015.8	1513.3	1363.6	1321.1	1298.9	1280.1	1268.9	1258.5
3149.7	40°	3104.5	2837.2	1953.2	1401.9	1289.8	1248.1	1214.6	1179.1	1141.6	1127.6
3472.7	42.5°	3367.6	3009.8	1877.3	1295.4	1204.9	1170.8	1135.3	1083.8	1027.4	998.9
3808.2	45°	3640.4	3186.6	1802.8	1190.3	1117.9	1103.3	1062.2	1000.3	939.0	902.8
4144.4	47.5°	3907.7	3353.7	1693.5	1084.5	1036.4	1052.5	1020.4	963.4	895.1	838.1
4477.8	50°	4163.2	3510.3	1514.6	977.3	970.3	1037.1	1006.5	924.4	846.4	773.3
4805.0	52.5°	4416.6	3637.0	1285.6	879.8	934.8	1033.0	988.4	897.9	802.6	726.0
5112.6	55°	4631.7	3702.4	1065.0	796.3	883.3	997.5	966.8	866.6	740.6	659.2
5323.5	57.5°	4754.2	3649.5	881.2	714.2	812.3	939.0	930.0	799.8	666.8	604.2
5364.6	60°	4701.3	3435.1	730.9	642.5	744.8	875.7	865.9	733.7	610.5	551.3
5144.7	62.5°	4409.6	3026.5	611.8	579.8	683.5	810.9	801.9	682.8	567.3	510.2
4560.7	65°	3822.1	2462.0	519.3	527.6	621.6	733.0	746.2	640.4	533.2	477.5
3528.4	67.5°	2915.1	1783.3	446.9	482.4	561.0	656.4	694.7	609.8	504.7	451.7
2041.6	70°	1661.5	1012.8	385.6	438.5	507.4	585.4	655.0	585.4	474.0	430.2
765.0	72.5°	629.9	465.0	333.4	394.7	455.9	525.5	611.2	547.1	438.5	405.8
395.4	75°	336.2	283.3	280.5	343.2	396.8	467.1	556.2	509.5	412.1	428.8
273.6	77.5°	229.0	200.5	234.6	293.7	332.0	402.3	497.7	452.4	357.1	355.7
189.3	80°	158.7	142.0	190.7	236.7	256.9	338.3	434.3	388.4	291.0	271.5
116.9	82.5°	95.4	92.6	142.7	176.8	181.7	261.0	359.9	325.8	238.1	207.4
69.6	85°	52.2	55.0	91.2	103.7	105.8	182.4	281.9	252.0	183.1	153.8
25.1	87.5°	14.6	18.8	33.4	41.1	50.8	94.7	167.8	149.7	91.9	64.0
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>
1715.8
1841.8
1921.9
1944.8
1932.3
1903.1
1862.7
1794.5
1720.0
1672.7
1633.7
1590.5
1542.5
1472.2
1381.0
1265.5
1133.9
1002.3
900.0
831.8
767.1
717.6
652.2
595.8
542.9
501.2
468.5
443.4
424.6
400.2
442.7
327.8
259.6
208.8
155.2
64.0
0.0

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