

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: P949743

Luminaire Tested: **GALN-SB4B-927-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949743
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-SB4B-927-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13710 lumens
Efficiency: N/A
Efficacy: 93.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

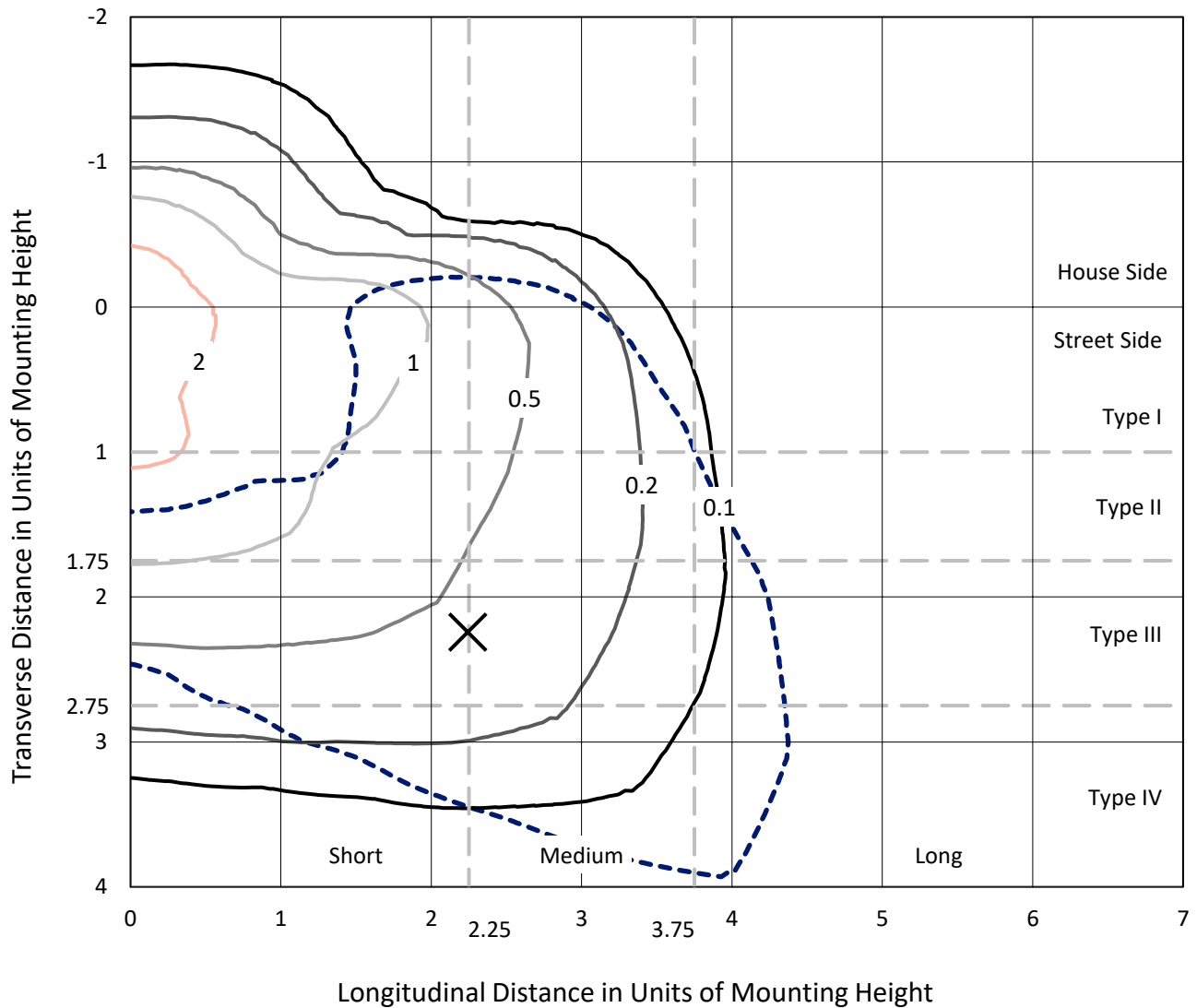
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

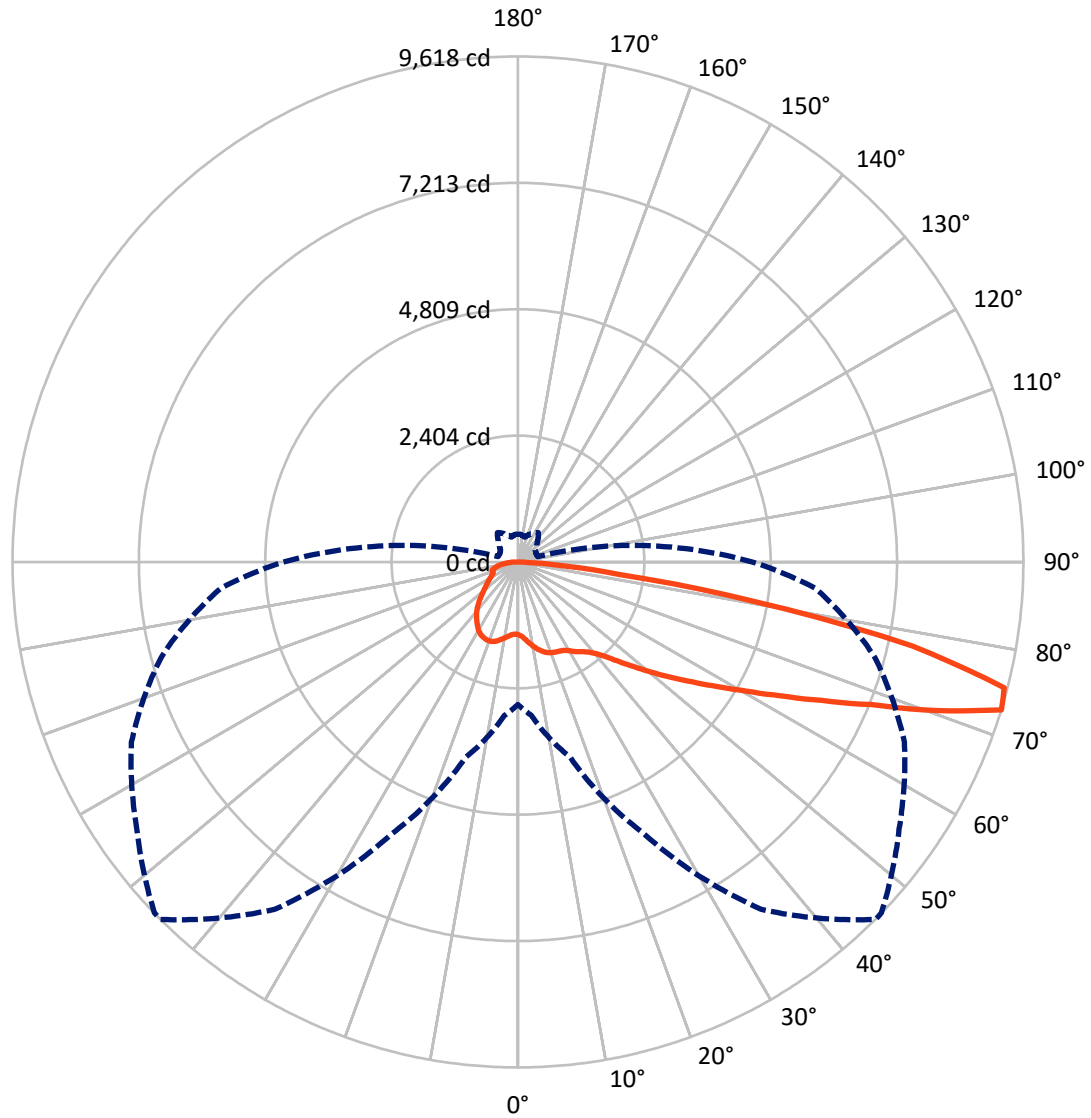
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 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
House Side	Lumens	3099.4	0.0	3099.4
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	10610.6	0.0	10610.6
	% Fixture	77.4	0.0	77.4
Total	Lumens	13710.0	0.0	13710.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.8	1.0
10°-20°	469.3	3.4
20°-30°	816.5	6.0
30°-40°	1170.4	8.5
40°-50°	1648.0	12.0
50°-60°	2524.3	18.4
60°-70°	3656.8	26.7
70°-80°	2920.2	21.3
80°-90°	363.7	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°	13710.0	100.0
0°-180°	13710.0	100.0



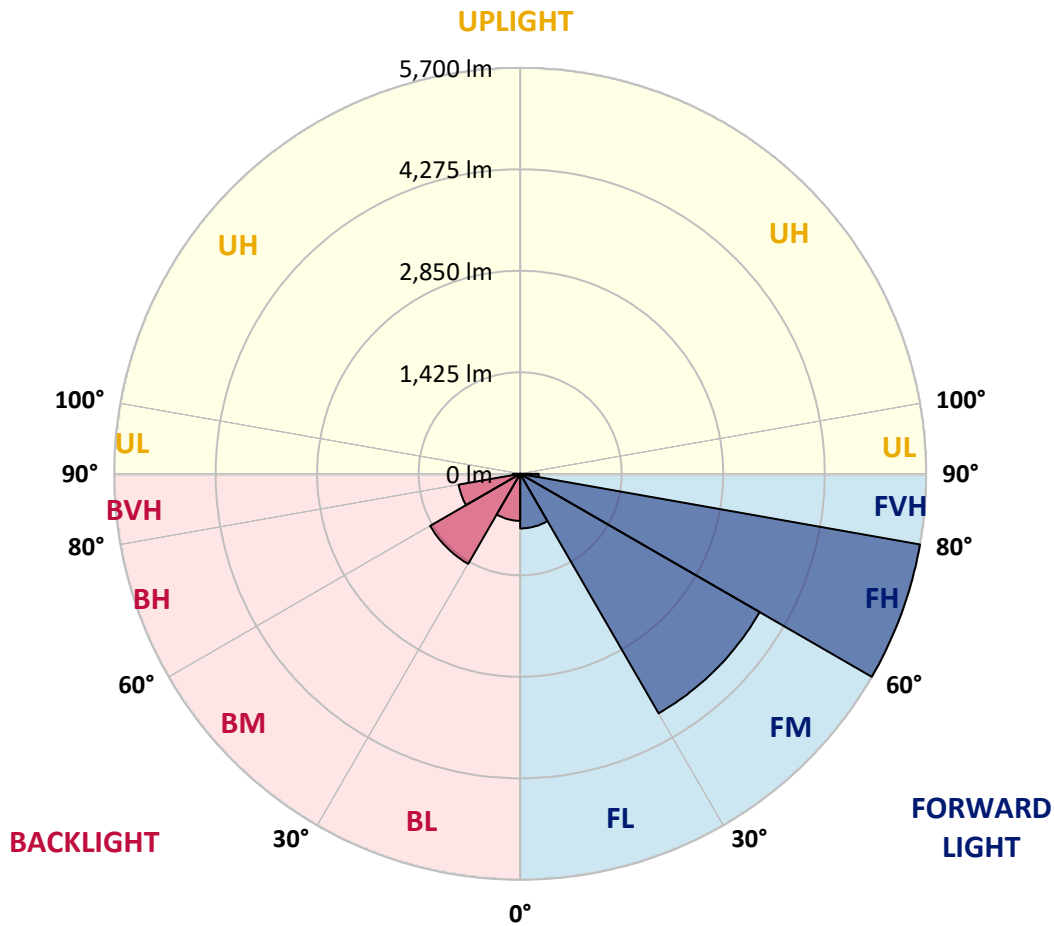
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	766.7	5.6			
FM (30°-60°)	3883.4	28.3			
FH (60°-80°)	5699.6	41.6			G3/7500
FVH (80°-90°)	260.9	1.9			G3/500
BL (0°-30°)	659.9	4.8	B2/1000		
BM (30°-60°)	1459.4	10.6	B2/2500		
BH (60°-80°)	877.3	6.4	B2/1000		G2/1000
BVH (80°-90°)	102.8	0.7			G2/225
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°	1383.1	1383.1	1383.1	1383.1	1383.1	1383.1	1383.1	1383.1	1383.1	1383.1
2.5°	1437.2	1446.6	1438.0	1430.0	1426.4	1417.0	1416.3	1410.5	1406.9	1396.8
5°	1537.6	1549.9	1535.5	1519.6	1505.1	1482.0	1479.1	1462.5	1443.7	1422.1
7.5°	1651.0	1661.9	1645.2	1621.4	1596.1	1557.9	1557.1	1526.8	1497.2	1460.4
10°	1750.0	1764.4	1742.0	1709.5	1677.7	1634.4	1629.4	1594.7	1557.1	1509.5
12.5°	1837.4	1847.5	1825.8	1786.1	1749.2	1705.9	1699.4	1661.1	1619.2	1565.1
15°	1906.7	1919.7	1890.8	1848.2	1809.2	1766.6	1760.8	1726.1	1684.2	1627.2
17.5°	1952.2	1963.0	1933.4	1885.7	1848.2	1812.8	1808.5	1779.6	1742.7	1685.0
20°	1969.5	1981.1	1950.0	1901.6	1867.0	1839.5	1837.4	1816.4	1791.1	1738.4
22.5°	1986.9	1997.7	1957.2	1906.7	1876.4	1859.0	1858.3	1844.6	1834.5	1791.1
25°	2056.9	2059.8	2005.6	1932.7	1889.4	1874.2	1873.5	1872.7	1877.1	1843.1
27.5°	2117.6	2116.9	2070.6	2002.0	1934.9	1903.1	1902.4	1909.6	1923.3	1895.1
30°	2206.4	2198.5	2143.6	2072.1	2010.7	1961.6	1957.2	1950.7	1961.6	1939.2
32.5°	2394.9	2369.6	2280.8	2153.7	2073.5	2036.0	2030.2	1989.7	1994.1	1980.4
35°	2665.0	2631.8	2513.4	2308.2	2151.5	2098.1	2095.2	2043.9	2035.2	2023.0
37.5°	2986.4	2945.3	2807.3	2532.1	2285.9	2170.3	2166.0	2119.7	2084.4	2071.4
40°	3309.3	3257.3	3143.1	2805.1	2483.8	2290.9	2277.2	2207.1	2166.7	2145.0
42.5°	3622.7	3579.4	3481.9	3111.4	2727.9	2467.1	2436.8	2316.9	2286.6	2266.4
45°	3900.0	3861.0	3789.5	3438.5	3013.9	2706.9	2677.3	2481.6	2472.2	2472.2
47.5°	4125.4	4116.7	4040.9	3772.2	3351.2	2979.9	2928.6	2710.5	2735.8	2774.8
50°	4375.3	4351.4	4270.6	4100.8	3747.7	3292.7	3250.8	2991.5	3086.1	3193.0
52.5°	4604.9	4617.9	4527.7	4443.2	4195.4	3641.5	3567.8	3323.0	3527.4	3704.3
55°	4841.1	4841.8	4816.6	4805.0	4664.9	4027.2	3946.3	3721.7	4046.7	4266.2
57.5°	5062.8	5064.3	5101.8	5203.7	5209.5	4472.1	4380.3	4211.3	4623.7	4847.6
60°	5260.7	5270.8	5373.4	5611.7	5688.3	4981.9	4895.3	4789.8	5220.3	5445.6
62.5°	5327.2	5364.0	5592.2	5931.0	6161.4	5607.4	5522.2	5459.3	5847.2	6056.6
65°	5214.5	5299.0	5740.3	6194.6	6648.1	6350.6	6266.1	6197.5	6498.6	6695.8
67.5°	4937.9	5046.9	5731.6	6471.2	7238.9	7244.7	7166.0	7004.9	7197.0	7272.9
70°	4209.2	4372.4	5226.8	6574.5	7917.1	8467.4	8391.6	7977.0	7894.0	7527.1
72.5°	2712.0	2931.5	3848.8	5724.4	8068.0	9617.9	9613.6	8854.6	8114.3	7033.1
75°	989.5	1123.8	1788.2	3593.1	6772.4	9559.4	9587.6	8704.3	7407.2	5432.6
77.5°	360.4	394.3	583.6	1380.9	4165.1	7670.1	7728.6	6958.7	5272.3	2726.4
80°	189.2	208.0	299.0	535.9	1784.6	4555.1	4646.8	4135.5	2478.0	821.2
82.5°	104.7	113.4	167.6	291.1	803.8	1947.9	2002.7	1633.7	871.7	348.1
85°	56.3	59.9	78.7	158.9	392.9	675.3	690.5	488.2	347.4	204.4
87.5°	16.6	20.2	26.0	50.6	153.8	151.7	155.3	96.8	137.2	103.3
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°
1383.1	0°	1383.1	1383.1	1383.1	1383.1	1383.1	1383.1	1383.1	1383.1	1383.1	1383.1
1393.9	2.5°	1389.6	1387.4	1379.5	1375.8	1371.5	1370.8	1374.4	1375.1	1375.8	1376.6
1409.8	5°	1402.6	1395.4	1388.1	1383.8	1385.2	1386.0	1393.2	1398.2	1401.9	1404.7
1439.4	7.5°	1427.9	1422.1	1409.8	1409.1	1411.2	1417.7	1427.1	1438.7	1445.2	1450.2
1477.7	10°	1465.4	1454.6	1440.1	1442.3	1446.6	1456.0	1475.5	1484.9	1495.7	1505.1
1524.6	12.5°	1503.7	1494.3	1477.7	1479.1	1486.4	1503.0	1521.7	1533.3	1540.5	1547.7
1575.2	15°	1553.5	1536.9	1518.9	1518.9	1531.9	1549.9	1558.6	1568.0	1572.3	1580.2
1629.4	17.5°	1604.8	1583.1	1559.3	1557.9	1573.7	1582.4	1587.5	1588.9	1590.4	1599.0
1682.1	20°	1656.1	1632.2	1598.3	1595.4	1599.0	1597.6	1596.9	1595.4	1597.6	1608.4
1736.2	22.5°	1706.6	1679.2	1632.2	1619.2	1609.1	1595.4	1594.7	1594.0	1595.4	1606.2
1794.7	25°	1765.9	1732.6	1669.8	1630.8	1596.9	1578.1	1580.2	1581.0	1582.4	1591.1
1855.4	27.5°	1830.1	1793.3	1704.5	1627.2	1565.8	1552.8	1549.2	1551.4	1556.4	1570.1
1916.1	30°	1894.4	1851.1	1736.2	1612.7	1526.8	1508.7	1497.2	1502.2	1518.1	1531.9
1968.8	32.5°	1952.9	1909.6	1761.5	1581.0	1477.0	1448.8	1433.6	1440.1	1456.0	1461.1
2027.3	35°	2021.5	1972.4	1772.4	1530.4	1422.8	1379.5	1359.2	1349.8	1357.8	1352.7
2095.9	37.5°	2098.1	2046.8	1770.9	1464.0	1359.2	1309.4	1281.2	1245.8	1229.2	1211.9
2197.0	40°	2211.5	2137.8	1753.6	1383.8	1280.5	1235.0	1184.5	1124.5	1087.0	1053.0
2360.3	42.5°	2366.0	2264.2	1721.8	1295.7	1191.7	1149.1	1080.5	1010.4	951.2	894.8
2608.0	45°	2596.4	2429.6	1682.1	1201.8	1095.6	1053.7	979.3	900.6	833.5	761.2
2959.7	47.5°	2928.6	2652.0	1644.5	1094.9	994.5	956.2	889.1	816.1	736.7	666.6
3468.2	50°	3385.1	2971.3	1609.9	990.9	894.8	866.0	812.5	738.1	658.0	601.6
4064.0	52.5°	3965.8	3405.3	1595.4	890.5	801.7	790.8	748.2	678.9	603.1	555.4
4758.8	55°	4632.4	3924.6	1595.4	794.5	720.1	723.7	694.1	629.8	564.1	521.5
5475.2	57.5°	5312.7	4450.4	1566.5	705.6	650.7	665.9	647.1	590.8	531.6	487.5
6228.5	60°	5939.6	4890.9	1449.5	624.7	589.3	613.2	600.9	552.5	480.3	443.4
6858.3	62.5°	6421.4	5139.4	1224.2	560.5	538.8	566.2	559.7	502.0	470.9	455.7
7375.4	65°	6662.6	5099.0	936.0	503.4	496.2	538.8	525.1	522.9	498.3	481.0
7543.7	67.5°	6514.5	4750.8	678.9	461.5	471.6	513.5	566.2	574.9	529.4	495.5
7069.9	70°	5865.2	4121.0	505.6	421.8	440.6	514.2	645.7	601.6	519.3	479.6
5670.2	72.5°	4461.9	3073.1	392.2	379.9	400.1	517.8	681.1	589.3	490.4	530.1
3532.4	75°	2551.6	1687.1	314.9	328.6	349.6	483.9	663.0	557.6	468.0	486.8
1399.7	77.5°	972.8	648.6	260.0	278.1	280.9	422.5	634.1	555.4	445.6	434.8
419.6	80°	337.3	253.5	215.2	221.0	217.4	375.6	608.1	483.2	364.7	326.4
173.3	82.5°	137.9	126.4	170.4	163.2	154.6	291.8	491.1	395.1	298.3	263.6
83.8	85°	59.9	80.2	112.7	98.9	89.6	202.2	393.6	334.4	252.1	217.4
27.4	87.5°	12.3	30.3	47.7	44.8	46.2	135.1	279.5	237.6	178.4	133.6
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>
1383.1
1379.5
1406.2
1451.7
1503.0
1550.6
1583.1
1601.9
1612.7
1613.5
1602.6
1583.9
1547.0
1479.1
1368.6
1222.7
1055.2
889.8
752.6
658.7
598.0
551.8
517.1
480.3
437.7
450.7
475.2
489.7
473.1
525.8
486.8
396.5
315.6
260.7
216.7
104.7
0.0

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