

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: P947223

Luminaire Tested: **GALN-SB2C-850-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947223
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-SB2C-850-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14298 lumens
Efficiency: N/A
Efficacy: 141.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

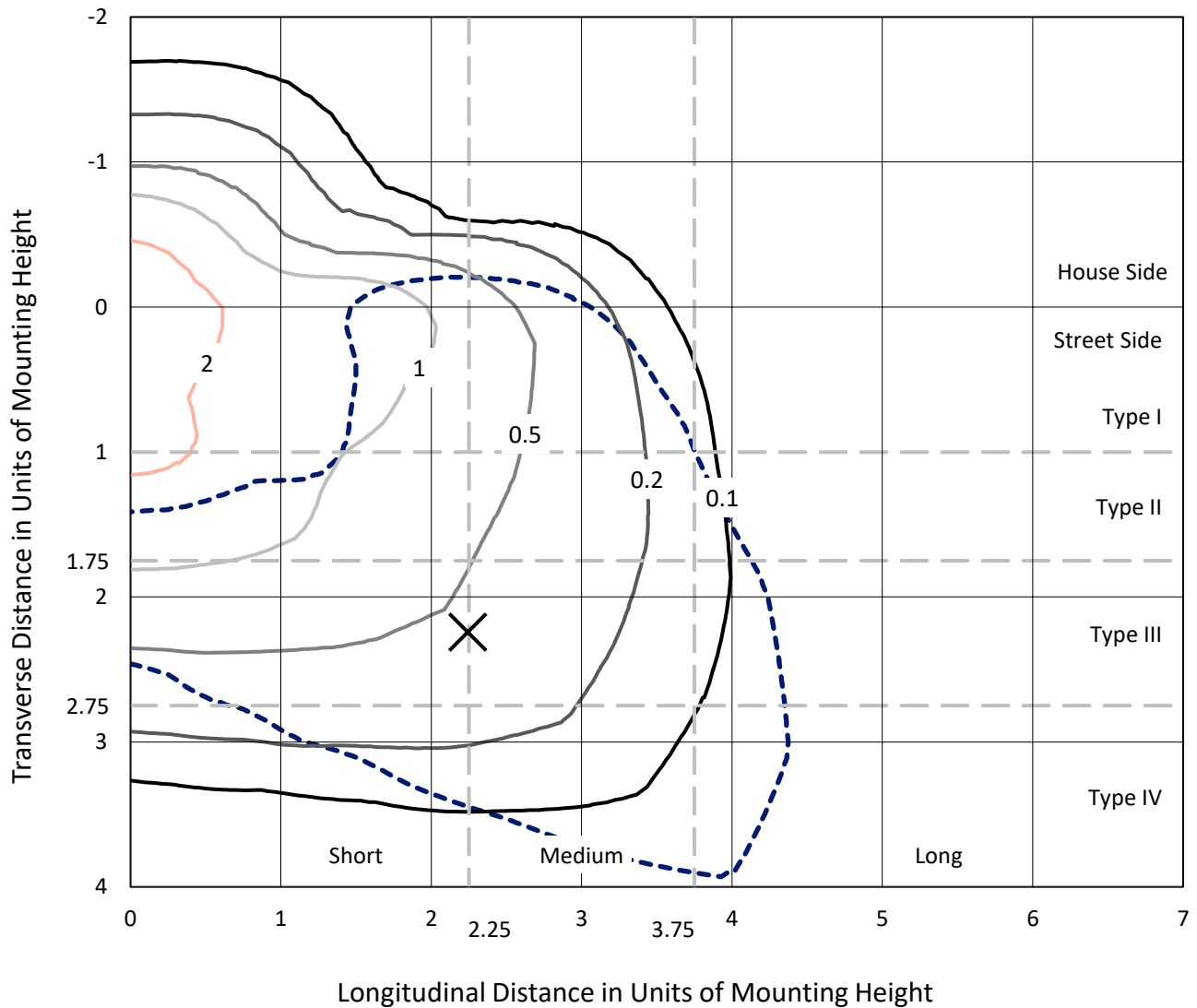
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

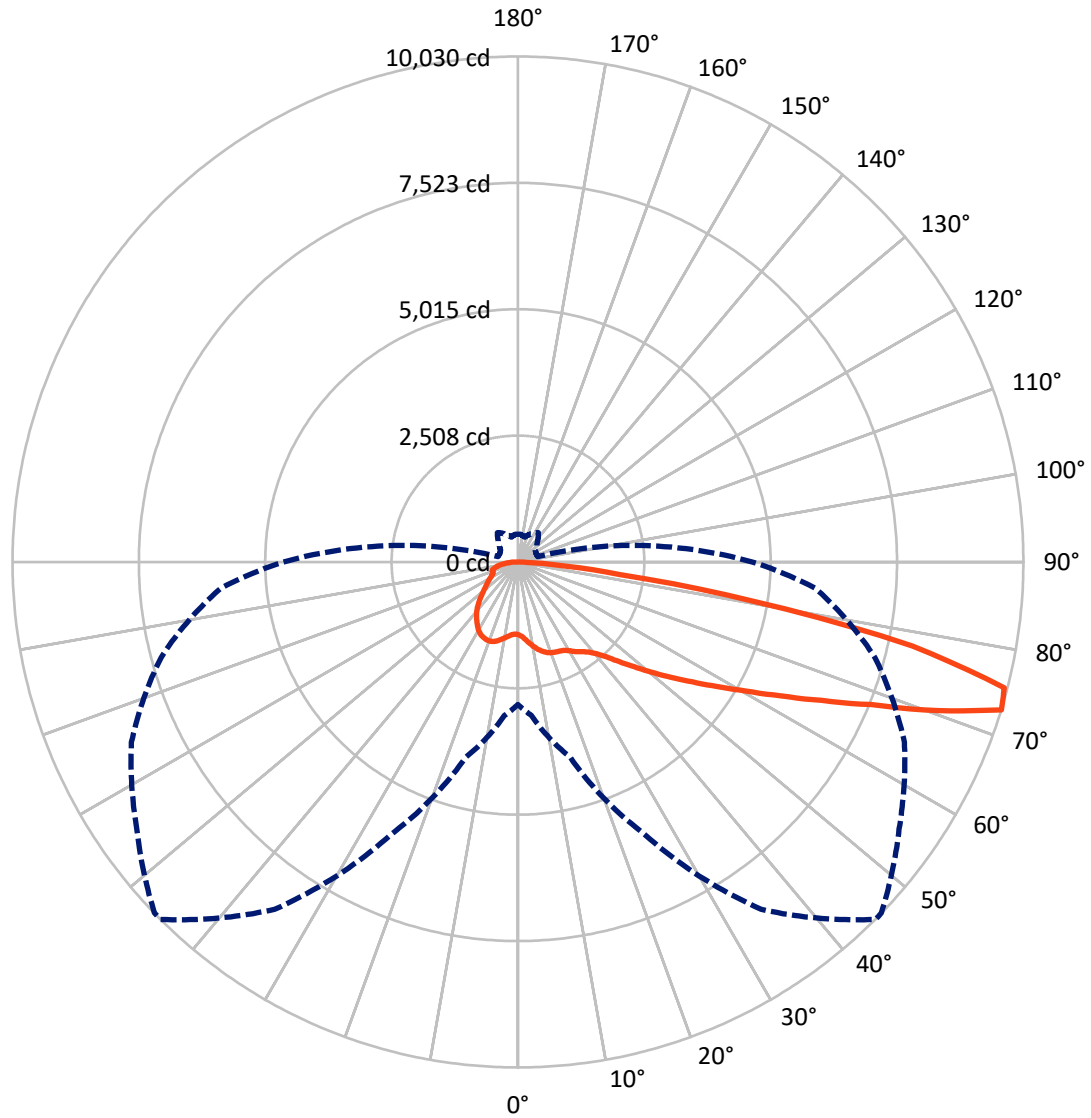
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 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	3232.3	0.0	3232.3
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	11065.7	0.0	11065.7
	% Fixture	77.4	0.0	77.4
Total	Lumens	14298.0	0.0	14298.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.8	1.0
10°-20°	489.5	3.4
20°-30°	851.5	6.0
30°-40°	1220.6	8.5
40°-50°	1718.7	12.0
50°-60°	2632.6	18.4
60°-70°	3813.6	26.7
70°-80°	3045.4	21.3
80°-90°	379.3	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°	14298.0	100.0
0°-180°	14298.0	100.0



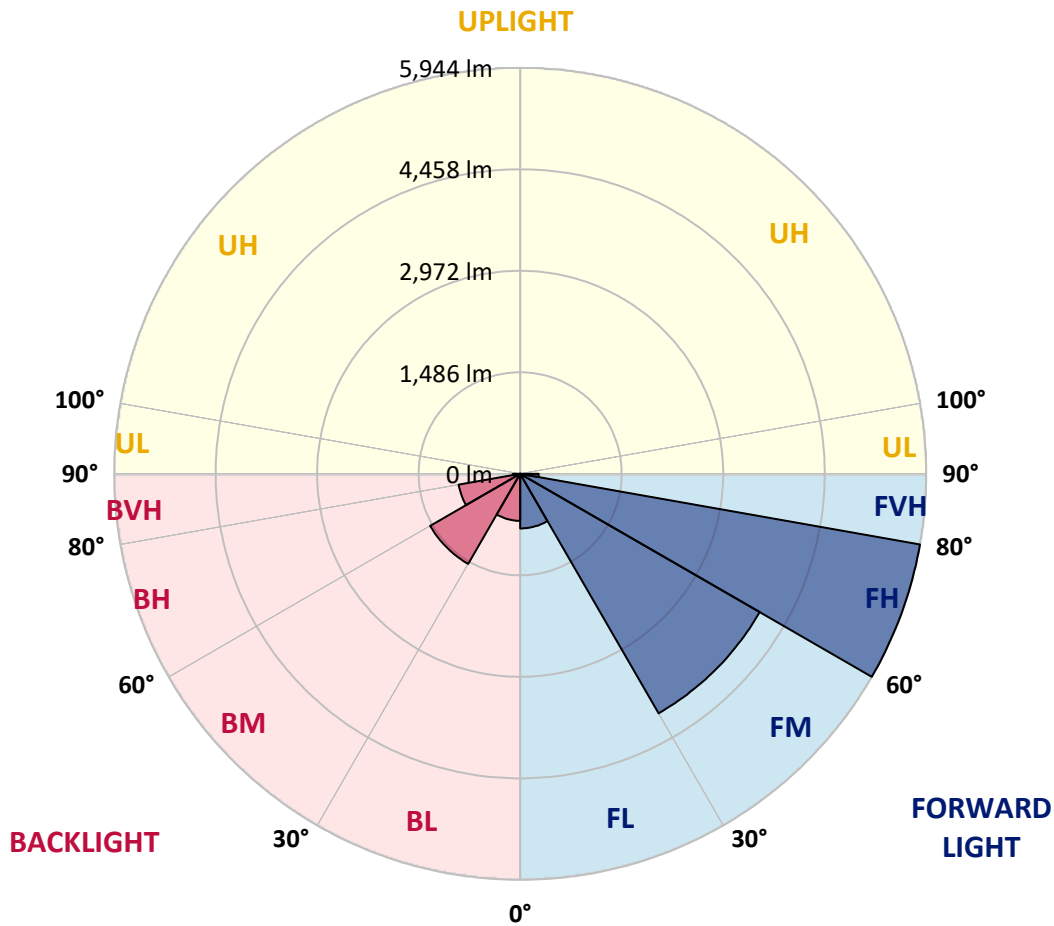
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	799.6	5.6			
FM (30°-60°)	4049.9	28.3			
FH (60°-80°)	5944.1	41.6			G3/7500
FVH (80°-90°)	272.1	1.9			G3/500
BL (0°-30°)	688.2	4.8	B2/1000		
BM (30°-60°)	1521.9	10.6	B2/2500		
BH (60°-80°)	915.0	6.4	B2/1000		G2/1000
BVH (80°-90°)	107.2	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°	1442.4	1442.4	1442.4	1442.4	1442.4	1442.4	1442.4	1442.4	1442.4	1442.4
2.5°	1498.9	1508.7	1499.6	1491.3	1487.6	1477.8	1477.0	1471.0	1467.2	1456.7
5°	1603.6	1616.4	1601.3	1584.7	1569.7	1545.6	1542.6	1525.2	1505.7	1483.1
7.5°	1721.8	1733.1	1715.8	1690.9	1664.6	1624.7	1623.9	1592.3	1561.4	1523.0
10°	1825.0	1840.1	1816.7	1782.8	1749.7	1704.5	1699.2	1663.1	1623.9	1574.2
12.5°	1916.2	1926.7	1904.1	1862.7	1824.3	1779.1	1772.3	1732.4	1688.7	1632.2
15°	1988.5	2002.0	1971.9	1927.5	1886.8	1842.3	1836.3	1800.2	1756.5	1697.0
17.5°	2035.9	2047.2	2016.3	1966.6	1927.5	1890.5	1886.0	1855.9	1817.5	1757.2
20°	2054.0	2066.0	2033.7	1983.2	1947.0	1918.4	1916.2	1894.3	1868.0	1813.0
22.5°	2072.1	2083.4	2041.2	1988.5	1956.8	1938.8	1938.0	1923.7	1913.1	1868.0
25°	2145.1	2148.1	2091.7	2015.6	1970.4	1954.6	1953.8	1953.1	1957.6	1922.2
27.5°	2208.4	2207.6	2159.4	2087.9	2017.8	1984.7	1983.9	1991.5	2005.8	1976.4
30°	2301.0	2292.8	2235.5	2160.9	2096.9	2045.7	2041.2	2034.4	2045.7	2022.4
32.5°	2497.6	2471.3	2378.6	2246.1	2162.5	2123.3	2117.3	2075.1	2079.6	2065.3
35°	2779.3	2744.7	2621.2	2407.2	2243.8	2188.1	2185.1	2131.6	2122.5	2109.7
37.5°	3114.5	3071.6	2927.7	2640.7	2383.9	2263.4	2258.9	2210.7	2173.8	2160.2
40°	3451.2	3397.0	3278.0	2925.5	2590.3	2389.2	2374.9	2301.8	2259.6	2237.0
42.5°	3778.1	3732.9	3631.2	3244.8	2844.9	2573.0	2541.3	2416.3	2384.7	2363.6
45°	4067.3	4026.6	3952.1	3586.0	3143.1	2823.0	2792.1	2588.0	2578.2	2578.2
47.5°	4302.3	4293.3	4214.2	3934.0	3494.9	3107.7	3054.3	2826.8	2853.1	2893.8
50°	4562.9	4538.1	4453.7	4276.7	3908.4	3433.9	3390.2	3119.8	3218.5	3329.9
52.5°	4802.4	4816.0	4721.8	4633.7	4375.4	3797.7	3720.8	3465.5	3678.7	3863.2
55°	5048.7	5049.5	5023.1	5011.1	4865.0	4199.9	4115.5	3881.3	4220.2	4449.2
57.5°	5280.0	5281.5	5320.6	5426.9	5432.9	4663.9	4568.2	4391.9	4822.0	5055.5
60°	5486.4	5496.9	5603.9	5852.4	5932.3	5195.6	5105.2	4995.3	5444.2	5679.2
62.5°	5555.6	5594.1	5832.1	6185.3	6425.6	5847.9	5759.0	5693.5	6098.0	6316.4
65°	5438.1	5526.3	5986.5	6460.2	6933.3	6622.9	6534.8	6463.3	6777.3	6983.0
67.5°	5149.7	5263.4	5977.4	6748.7	7549.4	7555.4	7473.3	7305.3	7505.7	7584.8
70°	4389.7	4559.9	5451.0	6856.4	8256.6	8830.6	8751.5	8319.2	8232.5	7849.9
72.5°	2828.3	3057.3	4013.8	5969.9	8414.1	10030.4	10025.9	9234.3	8462.3	7334.7
75°	1031.9	1172.0	1864.9	3747.2	7062.8	9969.4	9998.8	9077.6	7724.9	5665.6
77.5°	375.8	411.3	608.6	1440.1	4343.7	7999.1	8060.1	7257.1	5498.4	2843.4
80°	197.3	216.9	311.8	558.9	1861.2	4750.5	4846.1	4312.9	2584.3	856.4
82.5°	109.2	118.3	174.7	303.5	838.3	2031.4	2088.6	1703.8	909.1	363.0
85°	58.8	62.5	82.1	165.7	409.7	704.2	720.1	509.2	362.3	213.2
87.5°	17.3	21.1	27.1	52.7	160.4	158.2	161.9	100.9	143.1	107.7
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°
1442.4	0°	1442.4	1442.4	1442.4	1442.4	1442.4	1442.4	1442.4	1442.4	1442.4	1442.4
1453.7	2.5°	1449.2	1446.9	1438.6	1434.9	1430.3	1429.6	1433.4	1434.1	1434.9	1435.6
1470.3	5°	1462.7	1455.2	1447.7	1443.1	1444.6	1445.4	1452.9	1458.2	1462.0	1465.0
1501.1	7.5°	1489.1	1483.1	1470.3	1469.5	1471.8	1478.5	1488.3	1500.4	1507.2	1512.4
1541.1	10°	1528.3	1517.0	1501.9	1504.2	1508.7	1518.5	1538.8	1548.6	1559.9	1569.7
1590.0	12.5°	1568.2	1558.4	1541.1	1542.6	1550.1	1567.4	1587.0	1599.1	1606.6	1614.1
1642.7	15°	1620.1	1602.8	1584.0	1584.0	1597.6	1616.4	1625.4	1635.2	1639.7	1648.0
1699.2	17.5°	1673.6	1651.0	1626.2	1624.7	1641.2	1650.3	1655.5	1657.1	1658.6	1667.6
1754.2	20°	1727.1	1702.2	1666.8	1663.8	1667.6	1666.1	1665.3	1663.8	1666.1	1677.4
1810.7	22.5°	1779.8	1751.2	1702.2	1688.7	1678.1	1663.8	1663.1	1662.3	1663.8	1675.1
1871.7	25°	1841.6	1806.9	1741.4	1700.7	1665.3	1645.8	1648.0	1648.8	1650.3	1659.3
1935.0	27.5°	1908.6	1870.2	1777.6	1697.0	1633.0	1619.4	1615.6	1617.9	1623.2	1637.5
1998.3	30°	1975.7	1930.5	1810.7	1681.9	1592.3	1573.4	1561.4	1566.7	1583.2	1597.6
2053.2	32.5°	2036.7	1991.5	1837.1	1648.8	1540.3	1510.9	1495.1	1501.9	1518.5	1523.7
2114.2	35°	2108.2	2057.0	1848.4	1596.0	1483.8	1438.6	1417.5	1407.7	1416.0	1410.8
2185.8	37.5°	2188.1	2134.6	1846.9	1526.7	1417.5	1365.6	1336.2	1299.3	1282.0	1263.9
2291.3	40°	2306.3	2229.5	1828.8	1443.1	1335.4	1288.0	1235.3	1172.7	1133.6	1098.2
2461.5	42.5°	2467.5	2361.3	1795.6	1351.3	1242.8	1198.4	1126.8	1053.7	992.0	933.2
2719.8	45°	2707.8	2533.8	1754.2	1253.3	1142.6	1098.9	1021.3	939.2	869.2	793.9
3086.6	47.5°	3054.3	2765.8	1715.1	1141.9	1037.2	997.2	927.2	851.1	768.3	695.2
3616.9	50°	3530.3	3098.7	1678.9	1033.4	933.2	903.1	847.4	769.8	686.2	627.4
4238.3	52.5°	4135.9	3551.4	1663.8	928.7	836.1	824.8	780.3	708.0	628.9	579.2
4962.9	55°	4831.1	4092.9	1663.8	828.5	750.9	754.7	723.8	656.8	588.3	543.8
5710.1	57.5°	5540.6	4641.3	1633.7	735.9	678.6	694.5	674.9	616.1	554.4	508.4
6495.7	60°	6194.4	5100.7	1511.7	651.5	614.6	639.5	626.7	576.2	500.9	462.5
7152.4	62.5°	6696.8	5359.8	1276.7	584.5	561.9	590.5	583.7	523.5	491.1	475.3
7691.7	65°	6948.3	5317.6	976.2	525.0	517.5	561.9	547.6	545.3	519.7	501.6
7867.2	67.5°	6793.9	4954.6	708.0	481.3	491.8	535.5	590.5	599.6	552.1	516.7
7373.1	70°	6116.8	4297.8	527.2	439.9	459.5	536.3	673.4	627.4	541.6	500.1
5913.4	72.5°	4653.3	3204.9	409.0	396.2	417.3	540.0	710.3	614.6	511.4	552.9
3683.9	75°	2661.1	1759.5	328.4	342.7	364.6	504.6	691.4	581.5	488.1	507.7
1459.7	77.5°	1014.6	676.4	271.2	290.0	293.0	440.6	661.3	579.2	464.7	453.4
437.6	80°	351.7	264.4	224.5	230.5	226.7	391.7	634.2	503.9	380.4	340.4
180.8	82.5°	143.9	131.8	177.8	170.2	161.2	304.3	512.2	412.0	311.1	274.9
87.4	85°	62.5	83.6	117.5	103.2	93.4	210.9	410.5	348.7	262.9	226.7
28.6	87.5°	12.8	31.6	49.7	46.7	48.2	140.8	291.5	247.8	186.0	139.3
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>
1442.4
1438.6
1466.5
1513.9
1567.4
1617.1
1651.0
1670.6
1681.9
1682.7
1671.4
1651.8
1613.4
1542.6
1427.3
1275.2
1100.4
928.0
784.8
686.9
623.7
575.4
539.3
500.9
456.4
470.0
495.6
510.7
493.4
548.3
507.7
413.5
329.2
271.9
226.0
109.2
0.0

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