

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: P949806

Luminaire Tested: **GALN-SB4B-940-U-T4W**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949806  
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-940-U-T4W  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 90 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

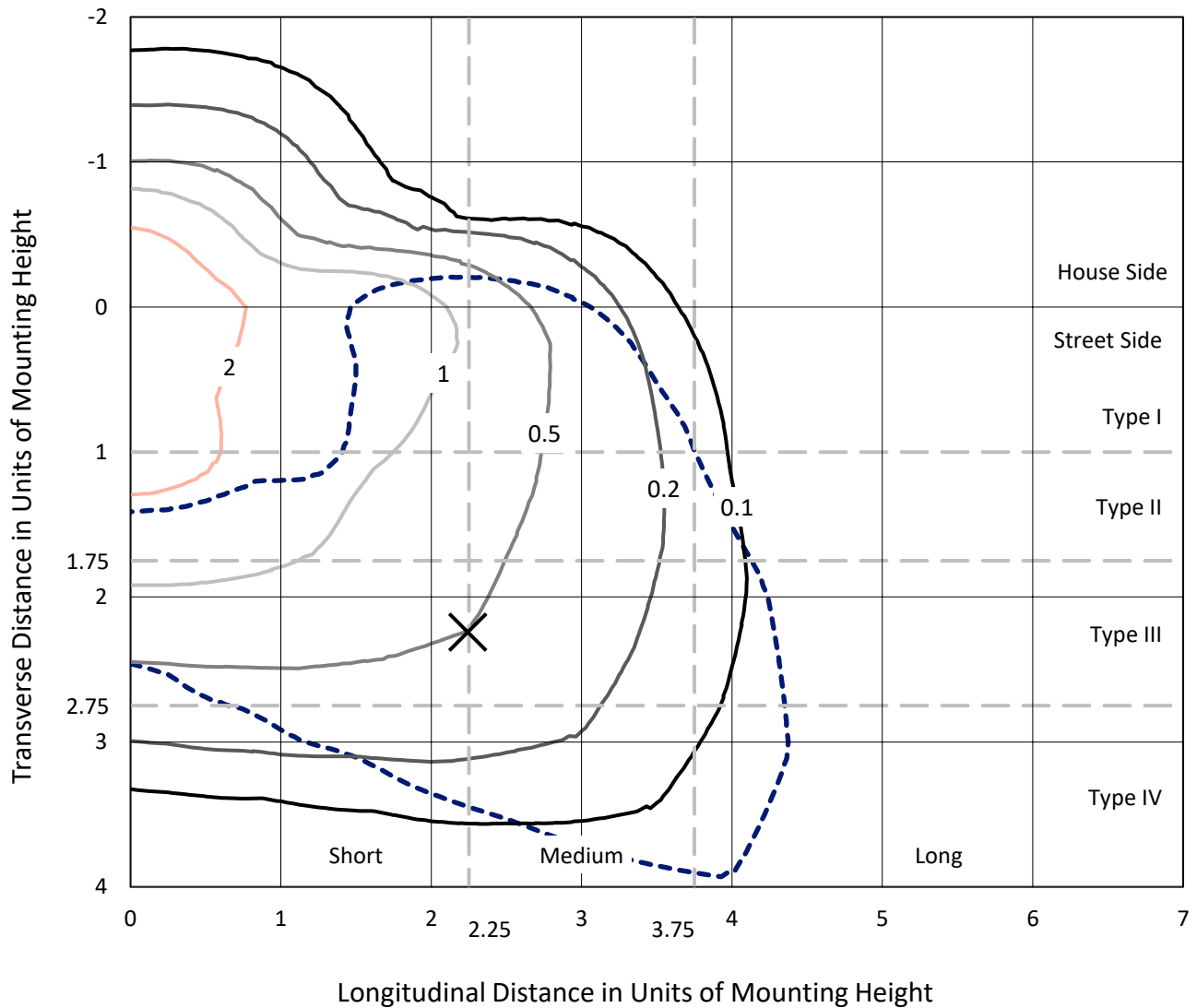
Lumens per Lamp: N/A  
Luminaire Lumens: 16322 lumens  
Efficiency: N/A  
Efficacy: 111.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 147  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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

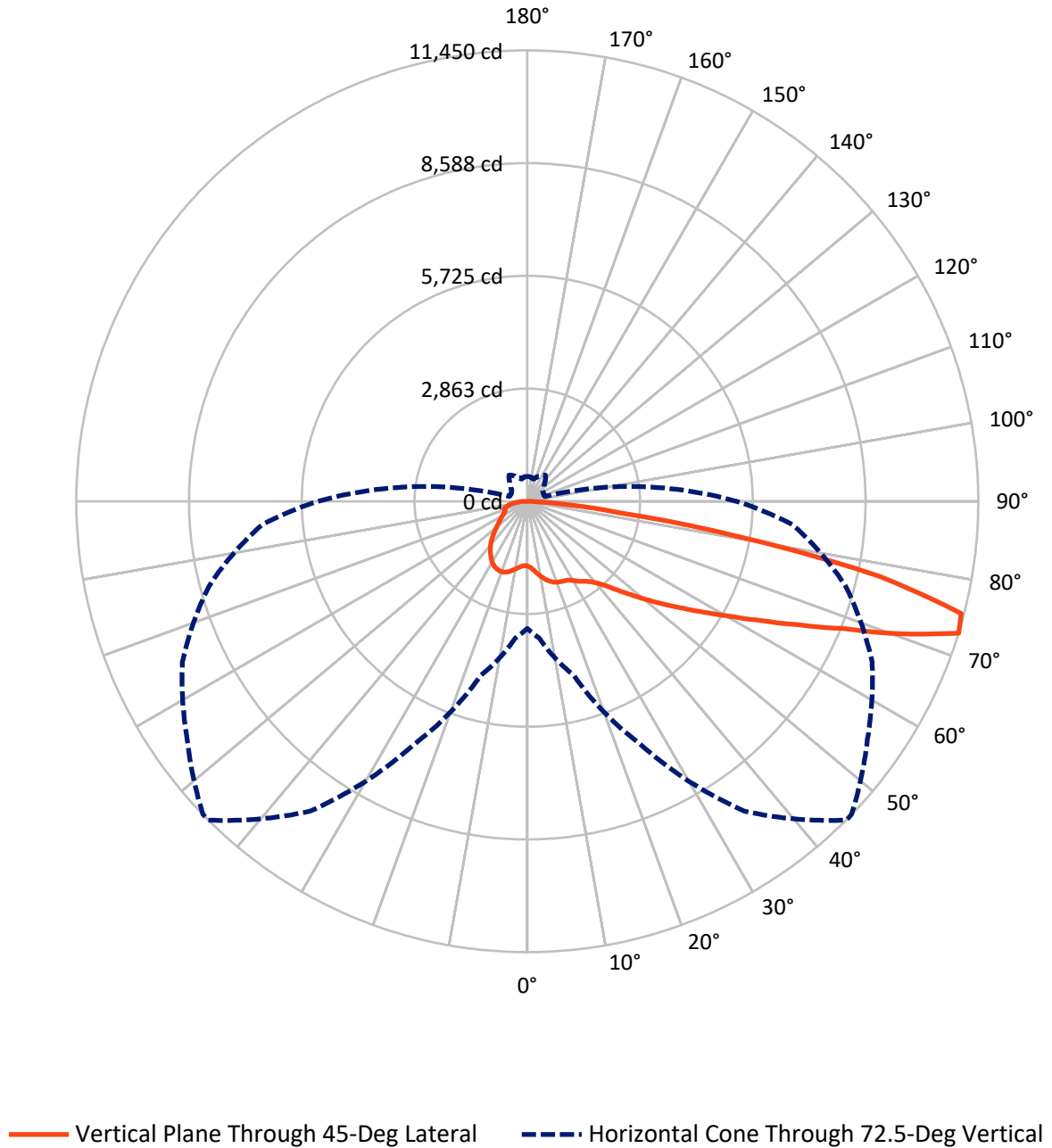
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3689.8	0.0	3689.8
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	12632.2	0.0	12632.2
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	16322.0	0.0	16322.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	167.6	1.0
10°-20°	558.8	3.4
20°-30°	972.0	6.0
30°-40°	1393.4	8.5
40°-50°	1962.0	12.0
50°-60°	3005.2	18.4
60°-70°	4353.5	26.7
70°-80°	3476.5	21.3
80°-90°	433.0	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°	16322.0	100.0
0°-180°	16322.0	100.0

**Coefficient of Utilization**



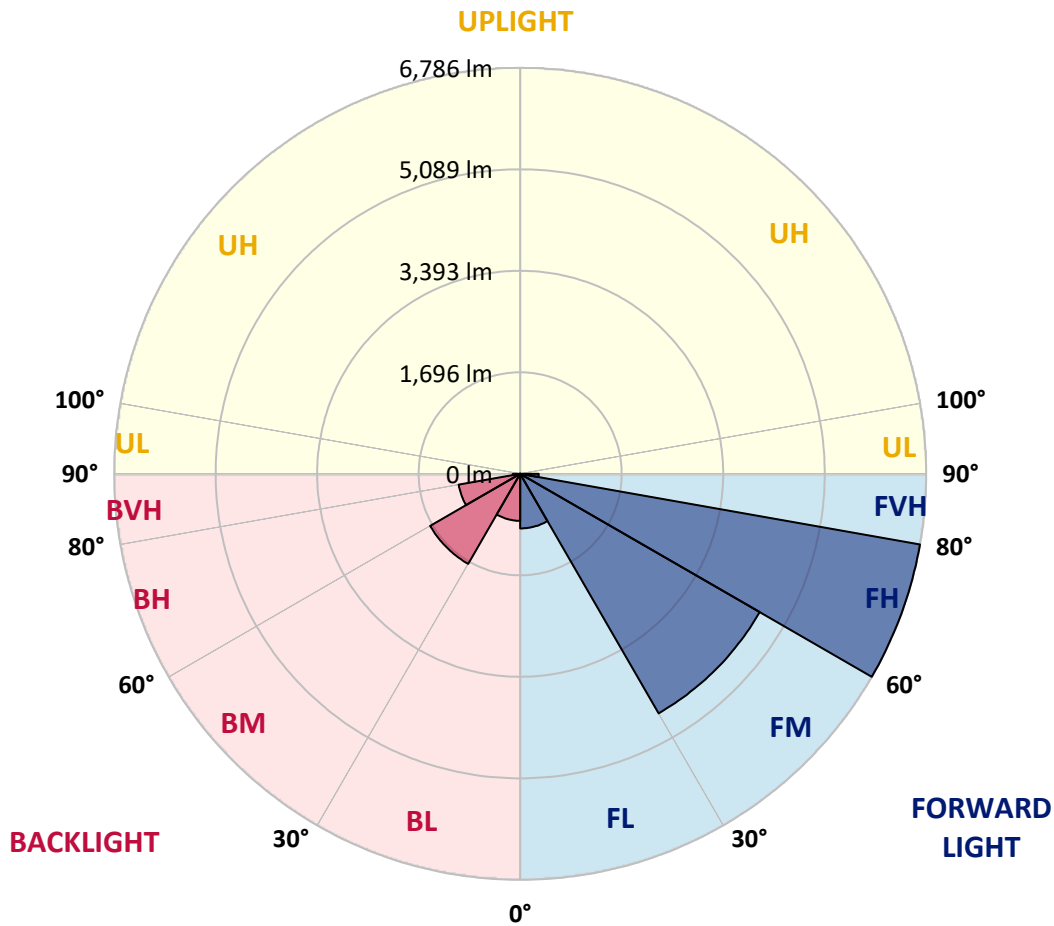
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	912.7	5.6			
FM (30°-60°)	4623.2	28.3			
FH (60°-80°)	6785.5	41.6			G3/7500
FVH (80°-90°)	310.6	1.9			G3/500
BL (0°-30°)	785.6	4.8	B2/1000		
BM (30°-60°)	1737.4	10.6	B2/2500		
BH (60°-80°)	1044.5	6.4	B3/2500		G3/2500
BVH (80°-90°)	122.4	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	1646.6	1646.6	1646.6	1646.6	1646.6	1646.6	1646.6	1646.6	1646.6	1646.6
2.5°	1711.1	1722.2	1711.9	1702.5	1698.2	1687.0	1686.1	1679.2	1674.9	1662.9
5°	1830.6	1845.2	1828.0	1809.1	1791.9	1764.4	1760.9	1741.2	1718.8	1693.0
7.5°	1965.6	1978.5	1958.7	1930.3	1900.2	1854.7	1853.8	1817.7	1782.4	1738.6
10°	2083.4	2100.6	2073.9	2035.2	1997.4	1945.8	1939.8	1898.5	1853.8	1797.0
12.5°	2187.4	2199.4	2173.6	2126.4	2082.5	2030.9	2023.2	1977.6	1927.7	1863.2
15°	2269.9	2285.4	2251.0	2200.3	2153.9	2103.1	2096.3	2055.0	2005.1	1937.2
17.5°	2324.1	2337.0	2301.8	2245.0	2200.3	2158.2	2153.0	2118.6	2074.8	2006.0
20°	2344.8	2358.5	2321.5	2263.9	2222.7	2190.0	2187.4	2162.5	2132.4	2069.6
22.5°	2365.4	2378.3	2330.1	2269.9	2233.8	2213.2	2212.3	2196.0	2184.0	2132.4
25°	2448.8	2452.2	2387.7	2300.9	2249.3	2231.3	2230.4	2229.5	2234.7	2194.3
27.5°	2521.0	2520.2	2465.1	2383.4	2303.5	2265.6	2264.8	2273.4	2289.7	2256.2
30°	2626.8	2617.3	2552.0	2466.8	2393.8	2335.3	2330.1	2322.4	2335.3	2308.6
32.5°	2851.2	2821.1	2715.3	2564.0	2468.6	2423.9	2417.0	2368.8	2374.0	2357.7
35°	3172.8	3133.2	2992.2	2748.0	2561.4	2497.8	2494.4	2433.3	2423.0	2408.4
37.5°	3555.4	3506.4	3342.2	3014.6	2721.4	2583.8	2578.6	2523.6	2481.5	2466.0
40°	3939.7	3877.8	3742.0	3339.6	2957.0	2727.4	2711.0	2627.6	2579.5	2553.7
42.5°	4312.9	4261.3	4145.2	3704.1	3247.6	2937.2	2901.1	2758.3	2722.2	2698.1
45°	4643.1	4596.6	4511.5	4093.6	3588.1	3222.6	3187.4	2954.4	2943.2	2943.2
47.5°	4911.3	4901.0	4810.7	4490.9	3989.6	3547.7	3486.6	3226.9	3257.0	3303.5
50°	5208.8	5180.5	5084.2	4882.1	4461.7	3920.0	3870.1	3561.4	3674.0	3801.3
52.5°	5482.3	5497.7	5390.3	5289.7	4994.7	4335.3	4247.6	3956.1	4199.4	4410.1
55°	5763.4	5764.3	5734.2	5720.4	5553.6	4794.4	4698.1	4430.7	4817.6	5079.0
57.5°	6027.4	6029.1	6073.8	6195.1	6201.9	5324.1	5214.9	5013.7	5504.6	5771.2
60°	6263.0	6275.0	6397.1	6680.9	6772.0	5931.1	5827.9	5702.4	6214.8	6483.1
62.5°	6342.1	6385.9	6657.7	7060.9	7335.2	6675.7	6574.3	6499.4	6961.2	7210.5
65°	6208.0	6308.6	6833.9	7374.8	7914.7	7560.5	7459.9	7378.2	7736.7	7971.5
67.5°	5878.6	6008.5	6823.6	7704.1	8618.1	8624.9	8531.2	8339.5	8568.2	8658.5
70°	5011.1	5205.4	6222.6	7827.0	9425.4	10080.6	9990.4	9496.8	9397.9	8961.1
72.5°	3228.7	3490.0	4582.0	6815.0	9605.1	11450.3	11445.2	10541.5	9660.2	8373.0
75°	1178.0	1337.9	2128.9	4277.6	8062.6	11380.7	11414.2	10362.7	8818.4	6467.6
77.5°	429.1	469.5	694.7	1644.0	4958.6	9131.4	9201.0	8284.5	6276.8	3245.9
80°	225.3	247.6	356.0	638.0	2124.6	5422.9	5532.1	4923.4	2950.1	977.6
82.5°	124.7	135.0	199.5	346.5	957.0	2319.0	2384.3	1944.9	1037.8	414.4
85°	67.1	71.4	93.7	189.2	467.7	803.9	822.0	581.2	413.6	243.3
87.5°	19.8	24.1	31.0	60.2	183.1	180.6	184.9	115.2	163.4	123.0
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°
1646.6	0°	1646.6	1646.6	1646.6	1646.6	1646.6	1646.6	1646.6	1646.6	1646.6	1646.6
1659.5	2.5°	1654.3	1651.7	1642.3	1638.0	1632.8	1632.0	1636.3	1637.1	1638.0	1638.8
1678.4	5°	1669.8	1661.2	1652.6	1647.4	1649.2	1650.0	1658.6	1664.6	1668.9	1672.4
1713.6	7.5°	1699.9	1693.0	1678.4	1677.5	1680.1	1687.8	1699.0	1712.8	1720.5	1726.5
1759.2	10°	1744.6	1731.7	1714.5	1717.1	1722.2	1733.4	1756.6	1767.8	1780.7	1791.9
1815.1	12.5°	1790.2	1779.0	1759.2	1760.9	1769.5	1789.3	1811.7	1825.4	1834.0	1842.6
1875.3	15°	1849.5	1829.7	1808.2	1808.2	1823.7	1845.2	1855.5	1866.7	1871.8	1881.3
1939.8	17.5°	1910.5	1884.7	1856.4	1854.7	1873.6	1883.9	1889.9	1891.6	1893.3	1903.7
2002.5	20°	1971.6	1943.2	1902.8	1899.4	1903.7	1901.9	1901.1	1899.4	1901.9	1914.8
2067.0	22.5°	2031.8	1999.1	1943.2	1927.7	1915.7	1899.4	1898.5	1897.6	1899.4	1912.3
2136.7	25°	2102.3	2062.7	1987.9	1941.5	1901.1	1878.7	1881.3	1882.2	1883.9	1894.2
2208.9	27.5°	2178.8	2135.0	2029.2	1937.2	1864.1	1848.6	1844.3	1846.9	1852.9	1869.3
2281.1	30°	2255.3	2203.7	2067.0	1920.0	1817.7	1796.2	1782.4	1788.4	1807.4	1823.7
2343.9	32.5°	2325.0	2273.4	2097.1	1882.2	1758.3	1724.8	1706.8	1714.5	1733.4	1739.4
2413.5	35°	2406.7	2348.2	2110.0	1822.0	1693.9	1642.3	1618.2	1607.0	1616.5	1610.5
2495.2	37.5°	2497.8	2436.8	2108.3	1742.9	1618.2	1558.9	1525.3	1483.2	1463.4	1442.8
2615.6	40°	2632.8	2545.1	2087.7	1647.4	1524.5	1470.3	1410.1	1338.8	1294.0	1253.6
2809.9	42.5°	2816.8	2695.6	2049.8	1542.5	1418.7	1368.0	1286.3	1202.9	1132.4	1065.3
3104.8	45°	3091.1	2892.5	2002.5	1430.8	1304.4	1254.5	1165.9	1072.2	992.2	906.3
3523.6	47.5°	3486.6	3157.3	1957.8	1303.5	1184.0	1138.4	1058.4	971.6	877.0	793.6
4128.9	50°	4030.0	3537.3	1916.6	1179.7	1065.3	1030.9	967.3	878.7	783.3	716.2
4838.3	52.5°	4721.3	4054.1	1899.4	1060.2	954.4	941.5	890.8	808.2	718.0	661.2
5665.4	55°	5514.9	4672.3	1899.4	945.8	857.2	861.5	826.3	749.8	671.5	620.8
6518.4	57.5°	6324.9	5298.3	1865.0	840.1	774.7	792.8	770.4	703.3	632.8	580.4
7415.2	60°	7071.2	5822.8	1725.7	743.8	701.6	730.0	715.4	657.8	571.8	527.9
8164.9	62.5°	7644.7	6118.5	1457.4	667.2	641.4	674.1	666.4	597.6	560.6	542.6
8780.6	65°	7931.9	6070.4	1114.3	599.3	590.7	641.4	625.1	622.5	593.3	572.6
8980.9	67.5°	7755.7	5656.0	808.2	549.4	561.5	611.3	674.1	684.4	630.3	589.8
8416.9	70°	6982.7	4906.2	601.9	502.1	524.5	612.2	768.7	716.2	618.2	570.9
6750.5	72.5°	5312.0	3658.6	466.9	452.3	476.3	616.5	810.8	701.6	583.8	631.1
4205.4	75°	3037.8	2008.6	374.9	391.2	416.2	576.1	789.3	663.8	557.2	579.5
1666.3	77.5°	1158.2	772.1	309.5	331.0	334.5	503.0	754.9	661.2	530.5	517.6
499.6	80°	401.5	301.8	256.2	263.1	258.8	447.1	724.0	575.2	434.2	388.6
206.4	82.5°	164.2	150.5	202.9	194.3	184.0	347.4	584.7	470.3	355.1	313.8
99.7	85°	71.4	95.4	134.1	117.8	106.6	240.8	468.6	398.1	300.1	258.8
32.7	87.5°	14.6	36.1	56.7	53.3	55.0	160.8	332.8	282.9	212.4	159.1
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>
1646.6
1642.3
1674.1
1728.3
1789.3
1846.1
1884.7
1907.1
1920.0
1920.9
1908.0
1885.6
1841.8
1760.9
1629.4
1455.7
1256.2
1059.3
895.9
784.2
711.9
656.9
615.6
571.8
521.1
536.5
565.8
583.0
563.2
626.0
579.5
472.0
375.7
310.4
257.9
124.7
0.0

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