

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: P949281

Luminaire Tested: **GALN-SB4A-827-U-T4W**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949281  
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-827-U-T4W  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

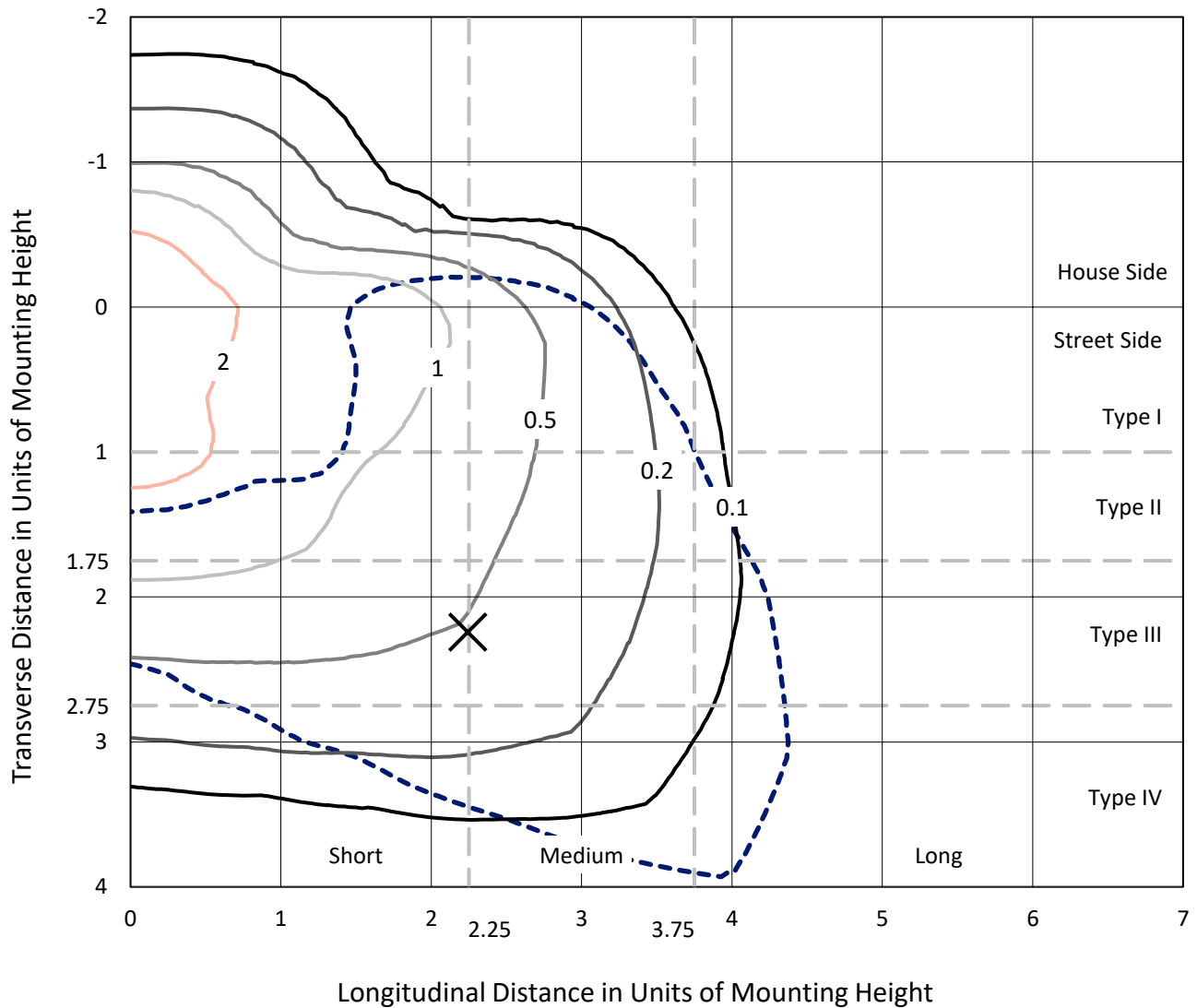
Lumens per Lamp: N/A  
Luminaire Lumens: 15602 lumens  
Efficiency: N/A  
Efficacy: 136.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 114  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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

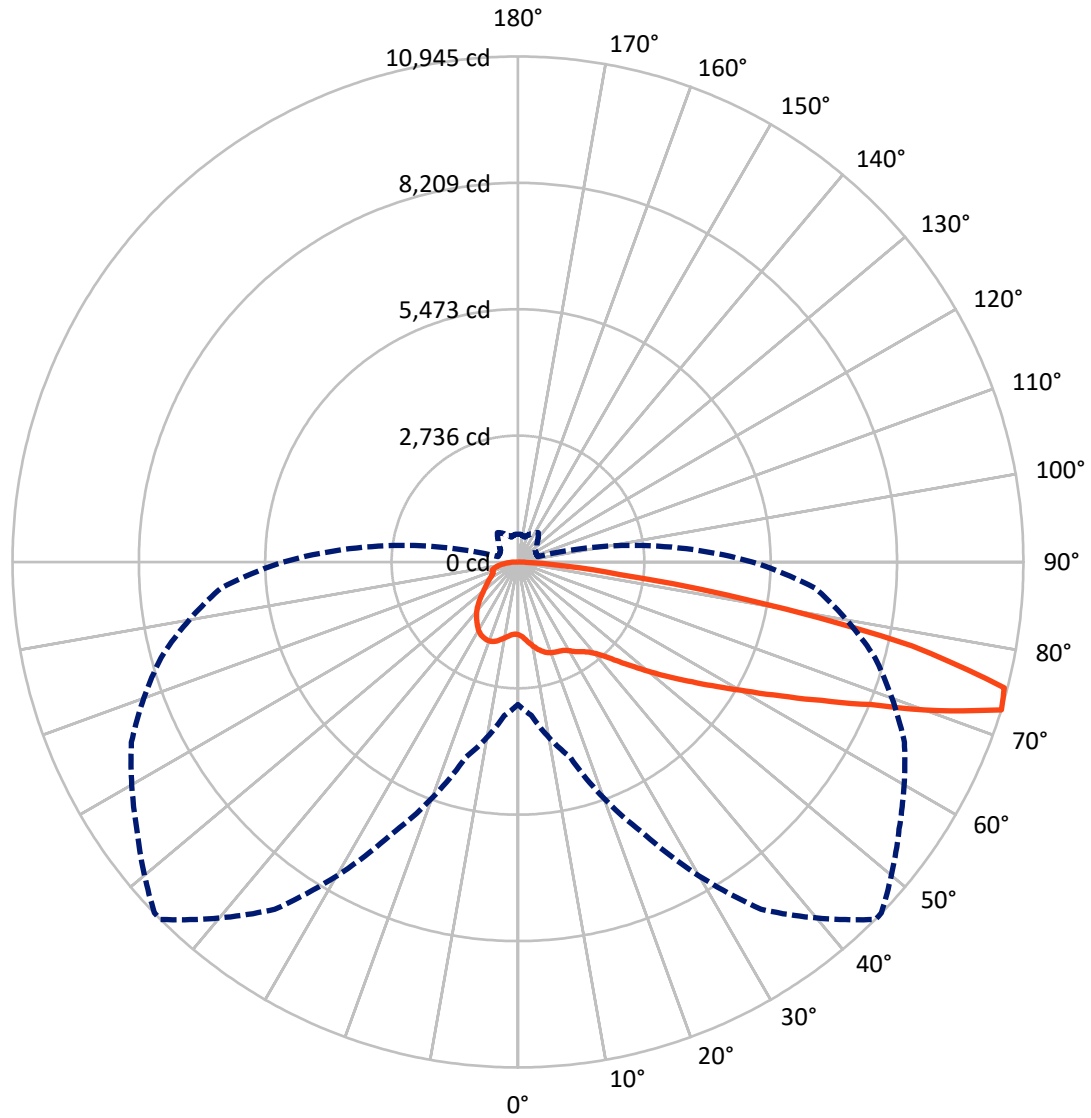
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 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	3527.1	0.0	3527.1
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	12074.9	0.0	12074.9
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	15602.0	0.0	15602.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	160.2	1.0
10°-20°	534.1	3.4
20°-30°	929.1	6.0
30°-40°	1331.9	8.5
40°-50°	1875.5	12.0
50°-60°	2872.6	18.4
60°-70°	4161.5	26.7
70°-80°	3323.2	21.3
80°-90°	413.9	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°	15602.0	100.0
0°-180°	15602.0	100.0



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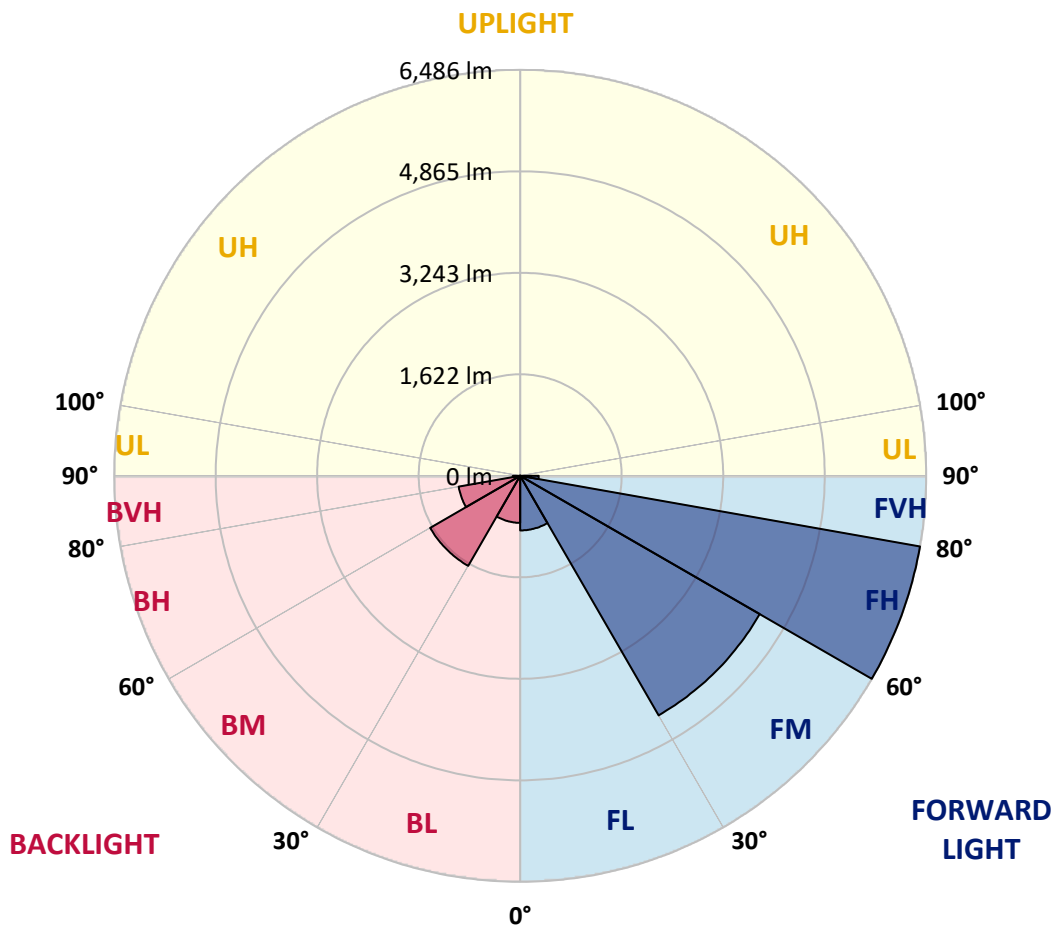
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	872.5	5.6			
FM (30°-60°)	4419.3	28.3			
FH (60°-80°)	6486.2	41.6			G3/7500
FVH (80°-90°)	296.9	1.9			G3/500
BL (0°-30°)	750.9	4.8	B2/1000		
BM (30°-60°)	1660.7	10.6	B2/2500		
BH (60°-80°)	998.4	6.4	B2/1000		G2/1000
BVH (80°-90°)	117.0	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°	1573.9	1573.9	1573.9	1573.9	1573.9	1573.9	1573.9	1573.9	1573.9	1573.9
2.5°	1635.6	1646.3	1636.4	1627.4	1623.3	1612.6	1611.7	1605.2	1601.1	1589.6
5°	1749.8	1763.8	1747.4	1729.3	1712.8	1686.5	1683.3	1664.3	1643.0	1618.3
7.5°	1878.9	1891.2	1872.3	1845.2	1816.4	1772.8	1772.0	1737.5	1703.8	1661.9
10°	1991.5	2007.9	1982.4	1945.4	1909.3	1860.0	1854.2	1814.8	1772.0	1717.8
12.5°	2090.9	2102.4	2077.8	2032.6	1990.6	1941.3	1933.9	1890.4	1842.7	1781.1
15°	2169.8	2184.6	2151.7	2103.2	2058.9	2010.4	2003.8	1964.3	1916.7	1851.7
17.5°	2221.6	2233.9	2200.2	2146.0	2103.2	2063.0	2058.0	2025.2	1983.2	1917.5
20°	2241.3	2254.5	2219.1	2164.1	2124.6	2093.4	2090.9	2067.1	2038.3	1978.3
22.5°	2261.0	2273.4	2227.3	2169.8	2135.3	2115.6	2114.7	2099.1	2087.6	2038.3
25°	2340.8	2344.1	2282.4	2199.4	2150.1	2132.8	2132.0	2131.2	2136.1	2097.5
27.5°	2409.8	2409.0	2356.4	2278.3	2201.9	2165.7	2164.9	2173.1	2188.7	2156.7
30°	2510.9	2501.9	2439.4	2358.0	2288.2	2232.3	2227.3	2220.0	2232.3	2206.8
32.5°	2725.4	2696.7	2595.6	2450.9	2359.7	2316.9	2310.4	2264.3	2269.3	2253.6
35°	3032.8	2995.0	2860.2	2626.8	2448.4	2387.6	2384.3	2326.0	2316.1	2302.1
37.5°	3398.6	3351.7	3194.7	2881.6	2601.3	2469.8	2464.9	2412.3	2372.0	2357.2
40°	3765.9	3706.8	3576.9	3192.3	2826.5	2607.1	2591.5	2511.7	2465.7	2441.0
42.5°	4122.6	4073.3	3962.4	3540.7	3104.3	2807.6	2773.1	2636.7	2602.1	2579.1
45°	4438.3	4393.9	4312.5	3913.1	3429.8	3080.5	3046.8	2824.0	2813.4	2813.4
47.5°	4694.7	4684.8	4598.5	4292.8	3813.6	3391.2	3332.8	3084.6	3113.4	3157.7
50°	4979.1	4951.9	4859.9	4666.7	4264.8	3747.0	3699.4	3404.3	3512.0	3633.6
52.5°	5240.4	5255.2	5152.5	5056.3	4774.4	4144.0	4060.2	3781.6	4014.2	4215.5
55°	5509.2	5510.0	5481.2	5468.1	5308.7	4582.9	4490.9	4235.2	4605.1	4855.0
57.5°	5761.5	5763.2	5805.9	5921.8	5928.4	5089.2	4984.8	4792.5	5261.8	5516.6
60°	5986.7	5998.2	6114.9	6386.2	6473.3	5669.5	5570.8	5450.8	5940.7	6197.1
62.5°	6062.3	6104.2	6364.0	6749.4	7011.6	6381.2	6284.2	6212.7	6654.1	6892.5
65°	5934.1	6030.3	6532.5	7049.4	7565.6	7227.0	7130.8	7052.7	7395.5	7619.8
67.5°	5619.3	5743.4	6522.6	7364.2	8237.9	8244.5	8154.9	7971.6	8190.2	8276.5
70°	4790.0	4975.8	5948.1	7481.8	9009.7	9636.0	9549.7	9077.9	8983.4	8565.8
72.5°	3086.2	3336.1	4379.9	6514.4	9181.4	10945.2	10940.3	10076.5	9234.0	8003.7
75°	1126.0	1278.9	2035.0	4089.0	7707.0	10878.7	10910.7	9905.5	8429.4	6182.3
77.5°	410.1	448.8	664.1	1571.5	4739.9	8728.6	8795.1	7919.0	5999.9	3102.7
80°	215.3	236.7	340.3	609.8	2030.9	5183.7	5288.1	4706.2	2819.9	934.5
82.5°	119.2	129.0	190.7	331.2	914.8	2216.7	2279.1	1859.1	992.0	396.2
85°	64.1	68.2	89.6	180.8	447.1	768.5	785.7	555.6	395.3	232.6
87.5°	18.9	23.0	29.6	57.5	175.1	172.6	176.7	110.1	156.2	117.5
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°
1573.9	0°	1573.9	1573.9	1573.9	1573.9	1573.9	1573.9	1573.9	1573.9	1573.9	1573.9
1586.3	2.5°	1581.3	1578.9	1569.8	1565.7	1560.8	1560.0	1564.1	1564.9	1565.7	1566.5
1604.3	5°	1596.1	1587.9	1579.7	1574.8	1576.4	1577.2	1585.4	1591.2	1595.3	1598.6
1638.0	7.5°	1624.9	1618.3	1604.3	1603.5	1606.0	1613.4	1624.1	1637.2	1644.6	1650.4
1681.6	10°	1667.6	1655.3	1638.9	1641.3	1646.3	1657.0	1679.1	1689.8	1702.2	1712.8
1735.0	12.5°	1711.2	1700.5	1681.6	1683.3	1691.5	1710.4	1731.7	1744.9	1753.1	1761.3
1792.6	15°	1767.9	1749.0	1728.5	1728.5	1743.2	1763.8	1773.7	1784.3	1789.3	1798.3
1854.2	17.5°	1826.3	1801.6	1774.5	1772.8	1790.9	1800.8	1806.5	1808.2	1809.8	1819.7
1914.2	20°	1884.6	1857.5	1818.9	1815.6	1819.7	1818.0	1817.2	1815.6	1818.0	1830.4
1975.8	22.5°	1942.1	1910.9	1857.5	1842.7	1831.2	1815.6	1814.8	1813.9	1815.6	1827.9
2042.4	25°	2009.5	1971.7	1900.2	1855.8	1817.2	1795.9	1798.3	1799.1	1800.8	1810.6
2111.5	27.5°	2082.7	2040.8	1939.7	1851.7	1781.9	1767.1	1763.0	1765.4	1771.2	1786.8
2180.5	30°	2155.8	2106.5	1975.8	1835.3	1737.5	1716.9	1703.8	1709.6	1727.6	1743.2
2240.5	32.5°	2222.4	2173.1	2004.6	1799.1	1680.8	1648.7	1631.5	1638.9	1657.0	1662.7
2307.1	35°	2300.5	2244.6	2016.9	1741.6	1619.1	1569.8	1546.8	1536.1	1545.2	1539.4
2385.2	37.5°	2387.6	2329.3	2015.3	1666.0	1546.8	1490.1	1458.1	1417.8	1398.9	1379.1
2500.2	40°	2516.7	2432.8	1995.6	1574.8	1457.2	1405.4	1347.9	1279.7	1237.0	1198.3
2686.0	42.5°	2692.5	2576.7	1959.4	1474.5	1356.1	1307.6	1229.6	1149.8	1082.4	1018.3
2967.9	45°	2954.7	2764.9	1914.2	1367.6	1246.8	1199.2	1114.5	1024.9	948.5	866.3
3368.1	47.5°	3332.8	3018.0	1871.5	1246.0	1131.8	1088.2	1011.8	928.7	838.3	758.6
3946.8	50°	3852.2	3381.3	1832.0	1127.6	1018.3	985.5	924.6	840.0	748.8	684.6
4624.8	52.5°	4513.1	3875.3	1815.6	1013.4	912.3	900.0	851.5	772.6	686.3	632.0
5415.5	55°	5271.7	4466.2	1815.6	904.1	819.4	823.5	789.8	716.7	641.9	593.4
6230.8	57.5°	6045.9	5064.5	1782.7	803.0	740.5	757.8	736.4	672.3	604.9	554.8
7088.1	60°	6759.3	5565.9	1649.6	710.9	670.7	697.8	683.8	628.8	546.6	504.6
7804.8	62.5°	7307.5	5848.6	1393.1	637.8	613.1	644.4	637.0	571.2	535.9	518.6
8393.2	65°	7582.0	5802.6	1065.2	572.9	564.6	613.1	597.5	595.1	567.1	547.4
8584.7	67.5°	7413.5	5406.5	772.6	525.2	536.7	584.4	644.4	654.2	602.5	563.8
8045.6	70°	6674.6	4689.8	575.3	480.0	501.4	585.2	734.8	684.6	590.9	545.7
6452.7	72.5°	5077.7	3497.2	446.3	432.3	455.3	589.3	775.1	670.7	558.1	603.3
4019.9	75°	2903.8	1920.0	358.3	374.0	397.8	550.7	754.5	634.5	532.6	554.0
1592.8	77.5°	1107.1	738.1	295.9	316.4	319.7	480.8	721.6	632.0	507.1	494.8
477.5	80°	383.8	288.5	244.9	251.5	247.4	427.4	692.0	549.9	415.1	371.5
197.3	82.5°	157.0	143.8	194.0	185.7	175.9	332.0	558.9	449.6	339.4	300.0
95.3	85°	68.2	91.2	128.2	112.6	101.9	230.1	447.9	380.5	286.8	247.4
31.2	87.5°	14.0	34.5	54.2	51.0	52.6	153.7	318.1	270.4	203.0	152.1
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>
1573.9
1569.8
1600.2
1652.0
1710.4
1764.6
1801.6
1823.0
1835.3
1836.1
1823.8
1802.4
1760.5
1683.3
1557.5
1391.5
1200.8
1012.6
856.4
749.6
680.5
627.9
588.5
546.6
498.1
512.9
540.8
557.2
538.3
598.3
554.0
451.2
359.2
296.7
246.6
119.2
0.0

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