

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: P949344

Luminaire Tested: **GALN-SB4A-840-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949344
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-840-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17163 lumens
Efficiency: N/A
Efficacy: 150.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

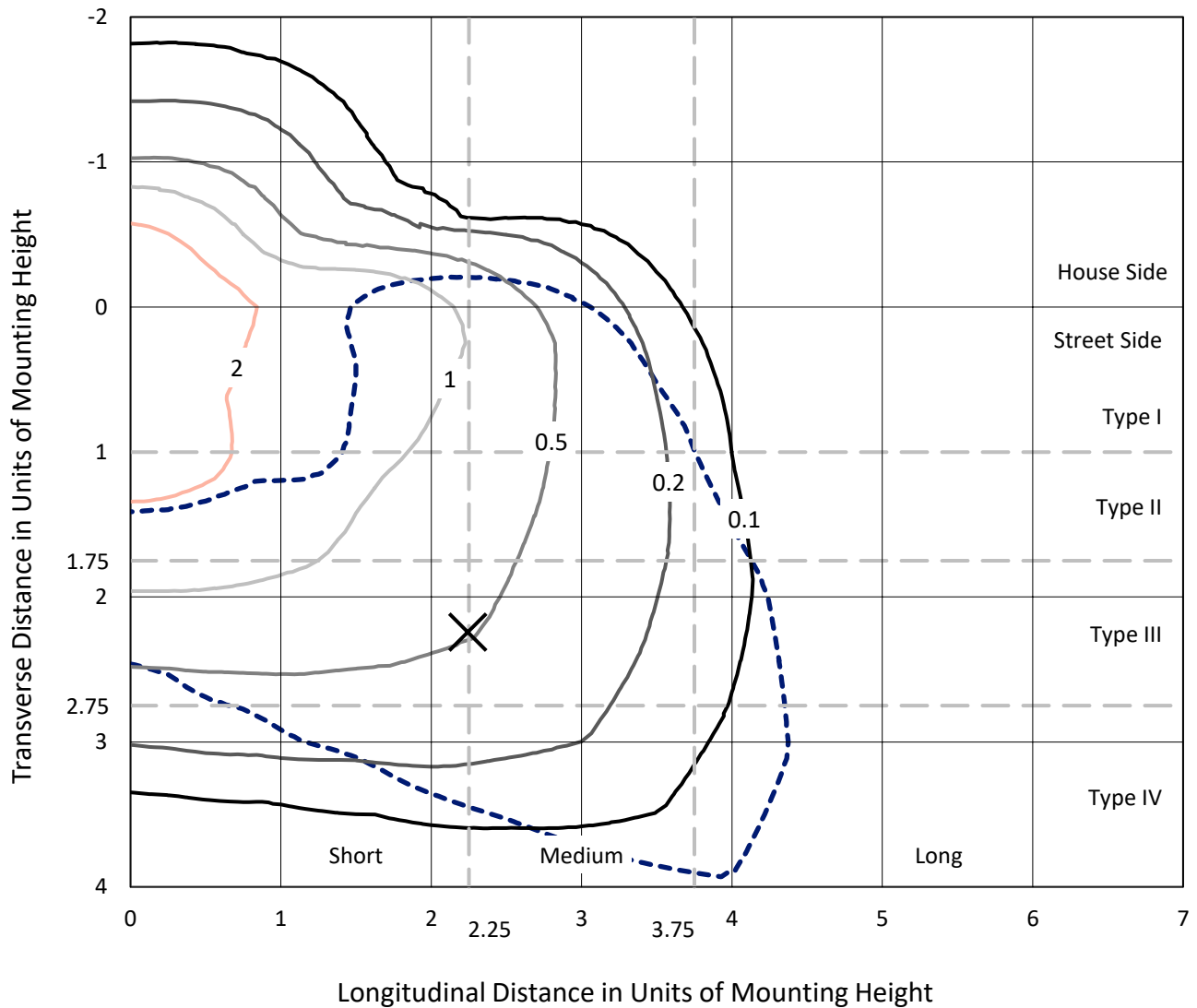
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

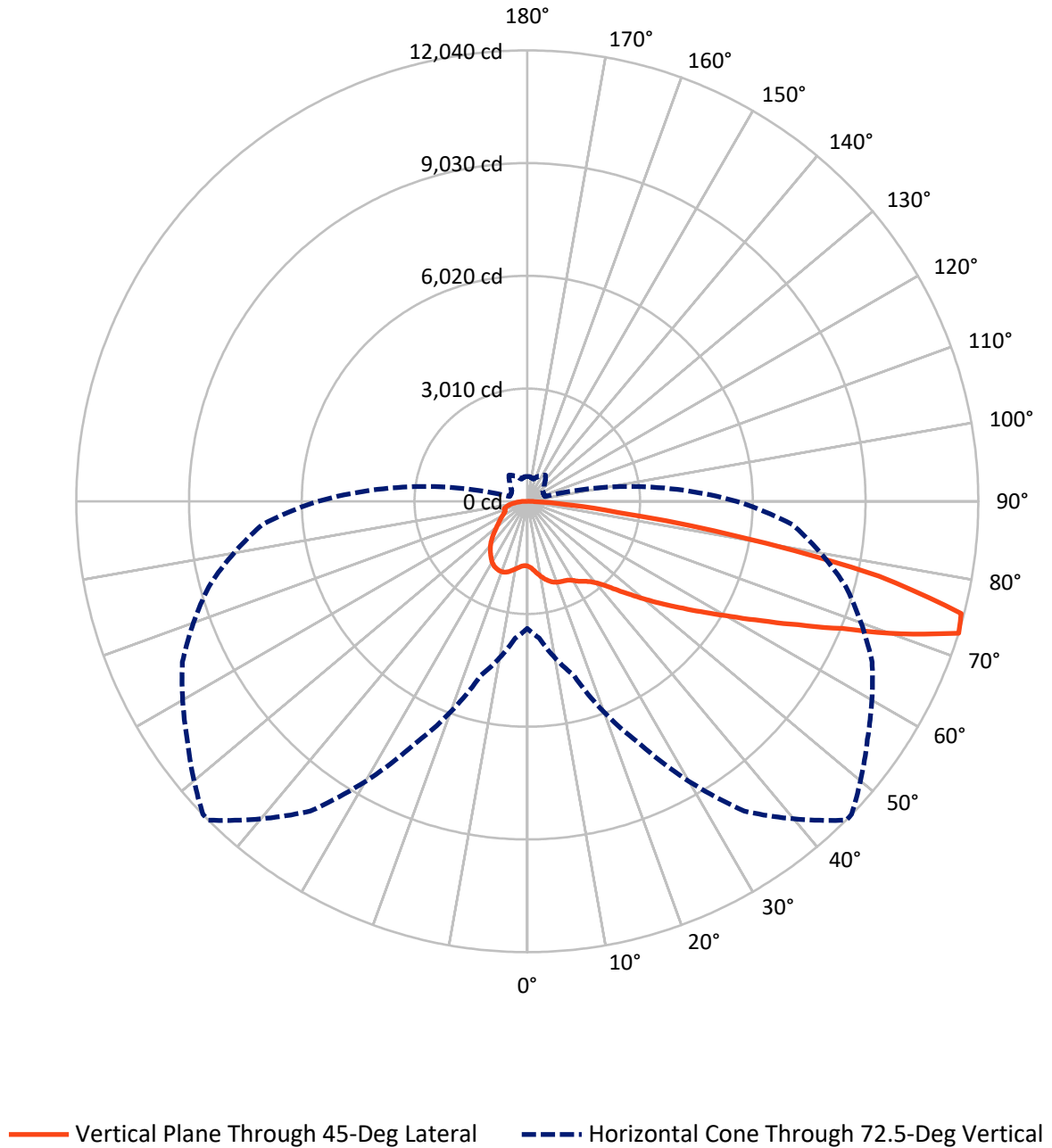
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3880.0	0.0	3880.0
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	13283.0	0.0	13283.0
	% Fixture	77.4	0.0	77.4
Total	Lumens	17163.0	0.0	17163.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.2	1.0
10°-20°	587.6	3.4
20°-30°	1022.1	6.0
30°-40°	1465.2	8.5
40°-50°	2063.1	12.0
50°-60°	3160.1	18.4
60°-70°	4577.8	26.7
70°-80°	3655.7	21.3
80°-90°	455.3	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°	17163.0	100.0
0°-180°	17163.0	100.0

Coefficient of Utilization



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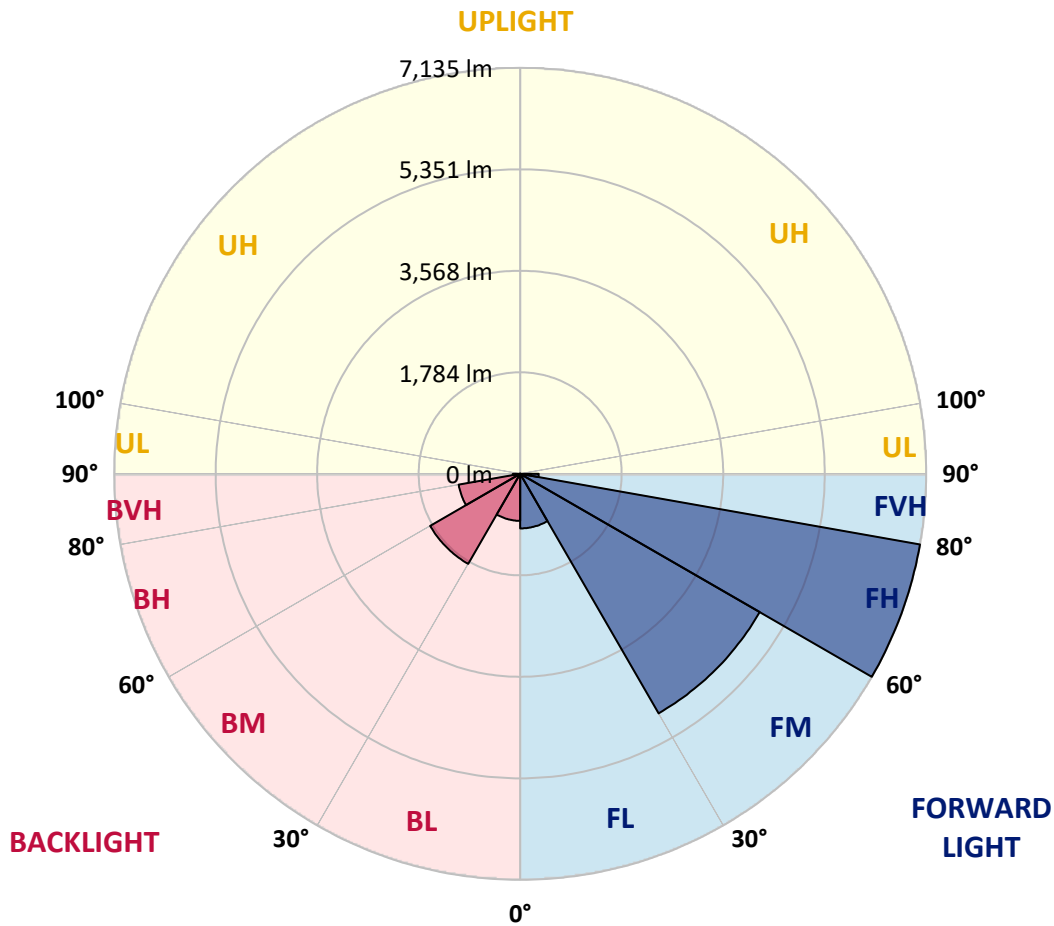
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	959.8	5.6			
FM (30°-60°)	4861.5	28.3			
FH (60°-80°)	7135.2	41.6			G3/7500
FVH (80°-90°)	326.6	1.9			G3/500
BL (0°-30°)	826.1	4.8	B2/1000		
BM (30°-60°)	1826.9	10.6	B2/2500		
BH (60°-80°)	1098.3	6.4	B3/2500		G3/2500
BVH (80°-90°)	128.7	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°	1731.4	1731.4	1731.4	1731.4	1731.4	1731.4	1731.4	1731.4	1731.4	1731.4
2.5°	1799.2	1811.0	1800.1	1790.2	1785.7	1773.9	1773.0	1765.8	1761.2	1748.6
5°	1924.9	1940.3	1922.2	1902.3	1884.2	1855.3	1851.7	1830.9	1807.4	1780.2
7.5°	2066.8	2080.4	2059.6	2029.8	1998.1	1950.2	1949.3	1911.3	1874.3	1828.2
10°	2190.7	2208.8	2180.8	2140.1	2100.3	2046.1	2039.7	1996.3	1949.3	1889.6
12.5°	2300.1	2312.8	2285.6	2235.9	2189.8	2135.6	2127.4	2079.5	2027.1	1959.3
15°	2386.9	2403.2	2367.0	2313.7	2264.9	2211.5	2204.3	2160.9	2108.4	2037.0
17.5°	2443.9	2457.4	2420.4	2360.7	2313.7	2269.4	2263.9	2227.8	2181.7	2109.3
20°	2465.6	2480.0	2441.2	2380.6	2337.2	2302.8	2300.1	2273.9	2242.2	2176.2
22.5°	2487.3	2500.8	2450.2	2386.9	2348.9	2327.2	2326.3	2309.2	2296.5	2242.2
25°	2575.0	2578.6	2510.8	2419.5	2365.2	2346.2	2345.3	2344.4	2349.8	2307.3
27.5°	2650.9	2650.0	2592.1	2506.3	2422.2	2382.4	2381.5	2390.5	2407.7	2372.4
30°	2762.1	2752.2	2683.5	2594.0	2517.1	2455.6	2450.2	2442.1	2455.6	2427.6
32.5°	2998.1	2966.5	2855.2	2696.1	2595.8	2548.7	2541.5	2490.9	2496.3	2479.1
35°	3336.2	3294.7	3146.4	2889.6	2693.4	2626.5	2622.9	2558.7	2547.8	2532.5
37.5°	3738.6	3687.1	3514.4	3169.9	2861.6	2716.9	2711.5	2653.6	2609.3	2593.1
40°	4142.7	4077.6	3934.8	3511.6	3109.3	2867.9	2850.7	2763.0	2712.4	2685.3
42.5°	4535.1	4480.9	4358.8	3895.0	3414.9	3088.5	3050.5	2900.5	2862.5	2837.2
45°	4882.3	4833.5	4744.0	4304.6	3772.9	3388.7	3351.6	3106.6	3094.8	3094.8
47.5°	5164.4	5153.6	5058.6	4722.3	4195.2	3730.4	3666.3	3393.2	3424.9	3473.7
50°	5477.2	5447.4	5346.1	5133.7	4691.5	4121.9	4069.5	3744.9	3863.4	3997.2
52.5°	5764.7	5781.0	5668.0	5562.2	5252.1	4558.6	4466.4	4159.9	4415.8	4637.3
55°	6060.4	6061.3	6029.7	6015.2	5839.8	5041.4	4940.2	4659.0	5065.9	5340.7
57.5°	6338.0	6339.8	6386.8	6514.3	6521.5	5598.4	5483.6	5272.0	5788.3	6068.5
60°	6585.7	6598.4	6726.7	7025.1	7120.9	6236.7	6128.2	5996.2	6535.1	6817.2
62.5°	6668.9	6715.0	7000.7	7424.7	7713.1	7019.7	6913.0	6834.3	7319.9	7582.1
65°	6527.8	6633.6	7186.0	7754.7	8322.5	7950.0	7844.2	7758.4	8135.4	8382.2
67.5°	6181.6	6318.1	7175.2	8101.0	9062.1	9069.3	8970.8	8769.2	9009.7	9104.6
70°	5269.3	5473.6	6543.2	8230.3	9911.1	10600.0	10505.1	9986.1	9882.2	9422.9
72.5°	3395.0	3669.9	4818.1	7166.1	10100.1	12040.3	12034.9	11084.7	10157.9	8804.4
75°	1238.7	1406.8	2238.6	4498.1	8478.0	11967.1	12002.4	10896.6	9272.8	6800.9
77.5°	451.2	493.7	730.5	1728.7	5214.1	9601.9	9675.1	8711.3	6600.2	3413.1
80°	236.9	260.4	374.3	670.9	2234.1	5702.4	5817.2	5177.1	3102.1	1028.0
82.5°	131.1	141.9	209.8	364.4	1006.3	2438.4	2507.2	2045.1	1091.3	435.8
85°	70.5	75.0	98.6	198.9	491.8	845.4	864.4	611.2	434.9	255.9
87.5°	20.8	25.3	32.5	63.3	192.6	189.9	194.4	121.2	171.8	129.3
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°
1731.4	0°	1731.4	1731.4	1731.4	1731.4	1731.4	1731.4	1731.4	1731.4	1731.4	1731.4
1745.0	2.5°	1739.5	1736.8	1726.9	1722.4	1716.9	1716.0	1720.6	1721.5	1722.4	1723.3
1764.9	5°	1755.8	1746.8	1737.7	1732.3	1734.1	1735.0	1744.1	1750.4	1754.9	1758.5
1801.9	7.5°	1787.5	1780.2	1764.9	1764.0	1766.7	1774.8	1786.6	1801.0	1809.2	1815.5
1849.9	10°	1834.5	1820.9	1802.8	1805.6	1811.0	1822.7	1847.1	1858.9	1872.5	1884.2
1908.6	12.5°	1882.4	1870.6	1849.9	1851.7	1860.7	1881.5	1905.0	1919.5	1928.5	1937.6
1971.9	15°	1944.8	1924.0	1901.4	1901.4	1917.7	1940.3	1951.1	1962.9	1968.3	1978.2
2039.7	17.5°	2009.0	1981.9	1952.0	1950.2	1970.1	1981.0	1987.3	1989.1	1990.9	2001.7
2105.7	20°	2073.2	2043.3	2000.8	1997.2	2001.7	1999.9	1999.0	1997.2	1999.9	2013.5
2173.5	22.5°	2136.5	2102.1	2043.3	2027.1	2014.4	1997.2	1996.3	1995.4	1997.2	2010.8
2246.8	25°	2210.6	2169.0	2090.4	2041.5	1999.0	1975.5	1978.2	1979.1	1981.0	1991.8
2322.7	27.5°	2291.1	2245.0	2133.8	2037.0	1960.2	1943.9	1939.4	1942.1	1948.4	1965.6
2398.7	30°	2371.5	2317.3	2173.5	2018.9	1911.3	1888.7	1874.3	1880.6	1900.5	1917.7
2464.7	32.5°	2444.8	2390.5	2205.2	1979.1	1848.9	1813.7	1794.7	1802.8	1822.7	1829.1
2537.9	35°	2530.7	2469.2	2218.7	1915.9	1781.1	1726.9	1701.6	1689.8	1699.8	1693.4
2623.8	37.5°	2626.5	2562.3	2216.9	1832.7	1701.6	1639.2	1603.9	1559.6	1538.8	1517.1
2750.4	40°	2768.5	2676.2	2195.2	1732.3	1603.0	1546.1	1482.8	1407.7	1360.7	1318.2
2954.7	42.5°	2961.9	2834.5	2155.5	1622.0	1491.8	1438.5	1352.6	1264.9	1190.7	1120.2
3264.8	45°	3250.4	3041.5	2105.7	1504.5	1371.6	1319.1	1226.0	1127.5	1043.4	953.0
3705.1	47.5°	3666.3	3320.0	2058.7	1370.7	1245.0	1197.1	1113.0	1021.7	922.2	834.5
4341.6	50°	4237.7	3719.6	2015.3	1240.5	1120.2	1084.1	1017.1	924.0	823.7	753.1
5087.6	52.5°	4964.6	4263.0	1997.2	1114.8	1003.6	990.0	936.7	849.9	755.0	695.3
5957.3	55°	5799.1	4913.1	1997.2	994.5	901.4	905.9	868.9	788.4	706.1	652.8
6854.2	57.5°	6650.8	5571.3	1961.1	883.3	814.6	833.6	810.1	739.6	665.4	610.3
7797.2	60°	7435.6	6122.8	1814.6	782.1	737.8	767.6	752.2	691.7	601.2	555.1
8585.6	62.5°	8038.6	6433.8	1532.5	701.6	674.5	708.8	700.7	628.4	589.5	570.5
9233.0	65°	8340.6	6383.2	1171.8	630.2	621.1	674.5	657.3	654.6	623.9	602.2
9443.7	67.5°	8155.3	5947.4	849.9	577.7	590.4	642.8	708.8	719.7	662.7	620.2
8850.5	70°	7342.5	5159.0	632.9	528.0	551.5	643.7	808.3	753.1	650.1	600.3
7098.3	72.5°	5585.7	3847.1	490.9	475.6	500.9	648.3	852.6	737.8	613.9	663.6
4422.1	75°	3194.3	2112.1	394.2	411.4	437.6	605.8	830.0	698.0	585.9	609.4
1752.2	77.5°	1217.9	811.9	325.5	348.1	351.7	528.9	793.8	695.3	557.8	544.3
525.3	80°	422.2	317.4	269.4	276.7	272.1	470.1	761.3	604.9	456.6	408.7
217.0	82.5°	172.7	158.2	213.4	204.3	193.5	365.3	614.8	494.6	373.4	330.0
104.9	85°	75.0	100.4	141.0	123.9	112.1	253.2	492.8	418.6	315.5	272.1
34.4	87.5°	15.4	38.0	59.7	56.1	57.9	169.1	349.9	297.5	223.3	167.3
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>
1731.4
1726.9
1760.3
1817.3
1881.5
1941.2
1981.9
2005.4
2018.9
2019.8
2006.3
1982.8
1936.7
1851.7
1713.3
1530.7
1320.9
1113.9
942.1
824.6
748.6
690.8
647.4
601.2
547.9
564.2
594.9
613.0
592.2
658.2
609.4
496.4
395.1
326.4
271.2
131.1
0.0

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