

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: P947230

Luminaire Tested: **GALN-SB2C-927-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947230
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2C-927-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9061 lumens
Efficiency: N/A
Efficacy: 89.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

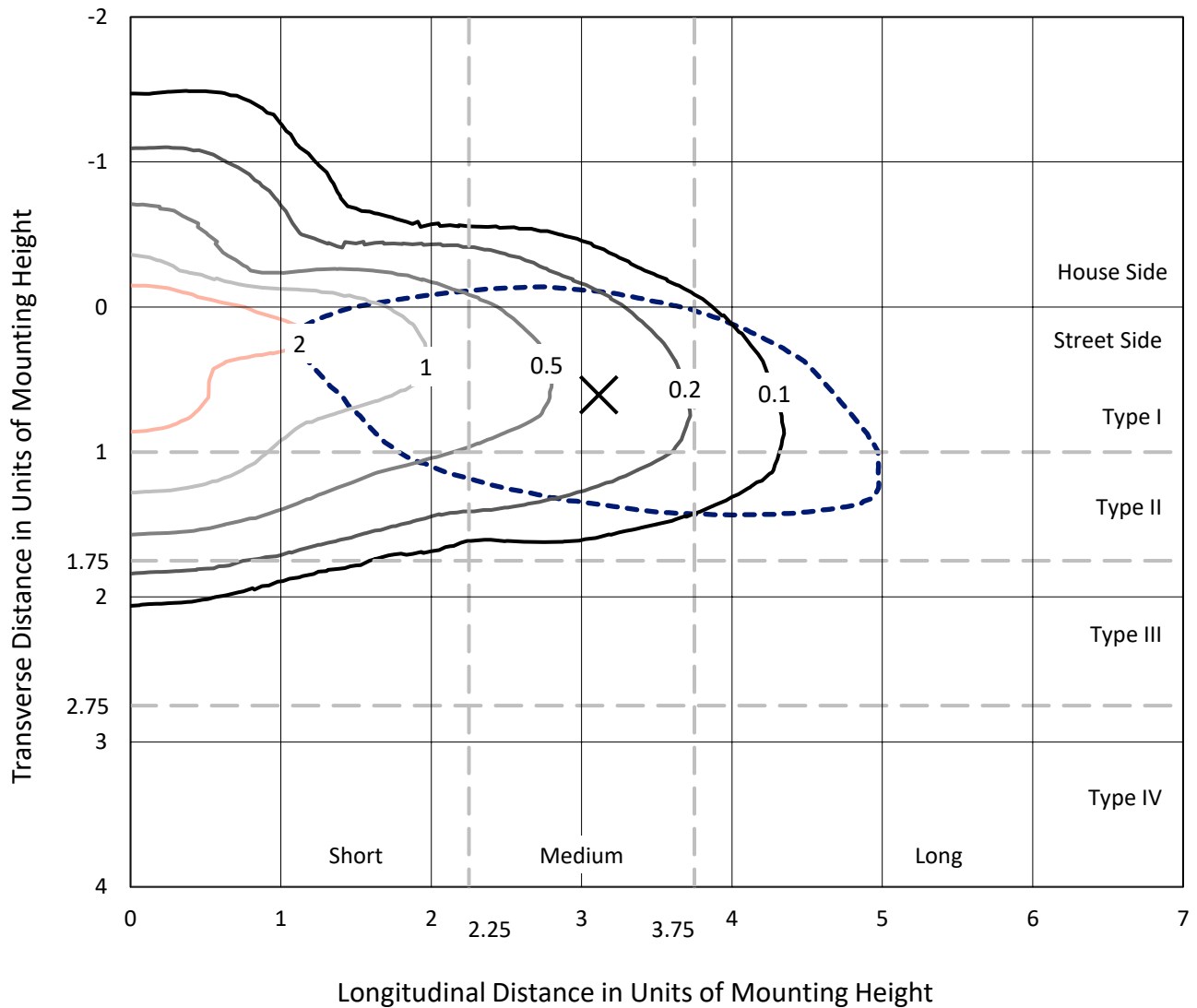
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

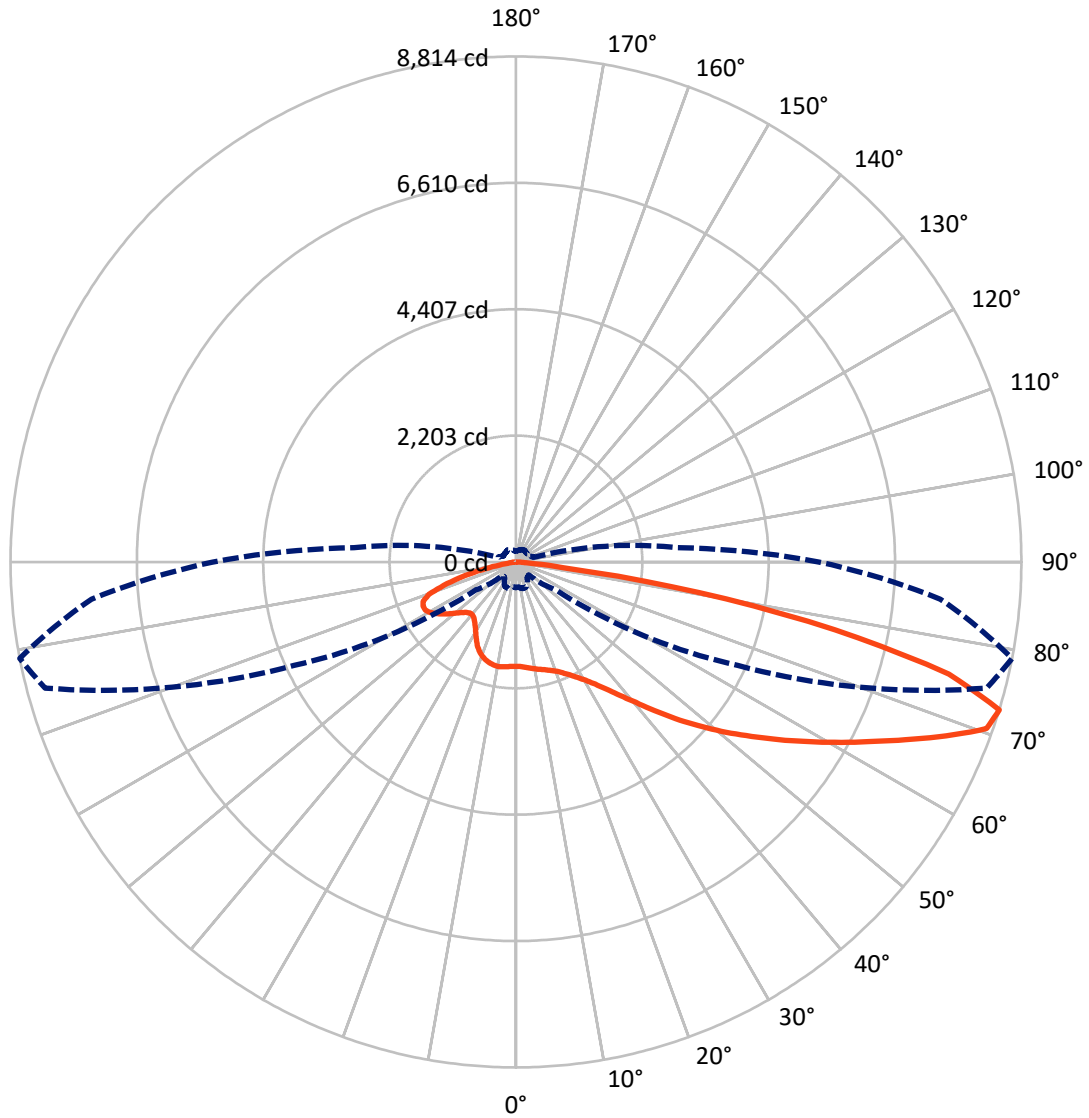
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1993.9	0.0	1993.9
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	7067.1	0.0	7067.1
	% Fixture	78.0	0.0	78.0
Total	Lumens	9061.0	0.0	9061.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.1	1.8
10°-20°	431.7	4.8
20°-30°	696.5	7.7
30°-40°	1045.4	11.5
40°-50°	1482.9	16.4
50°-60°	1872.8	20.7
60°-70°	1902.0	21.0
70°-80°	1296.3	14.3
80°-90°	168.2	1.9
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°	9061.0	100.0
0°-180°	9061.0	100.0



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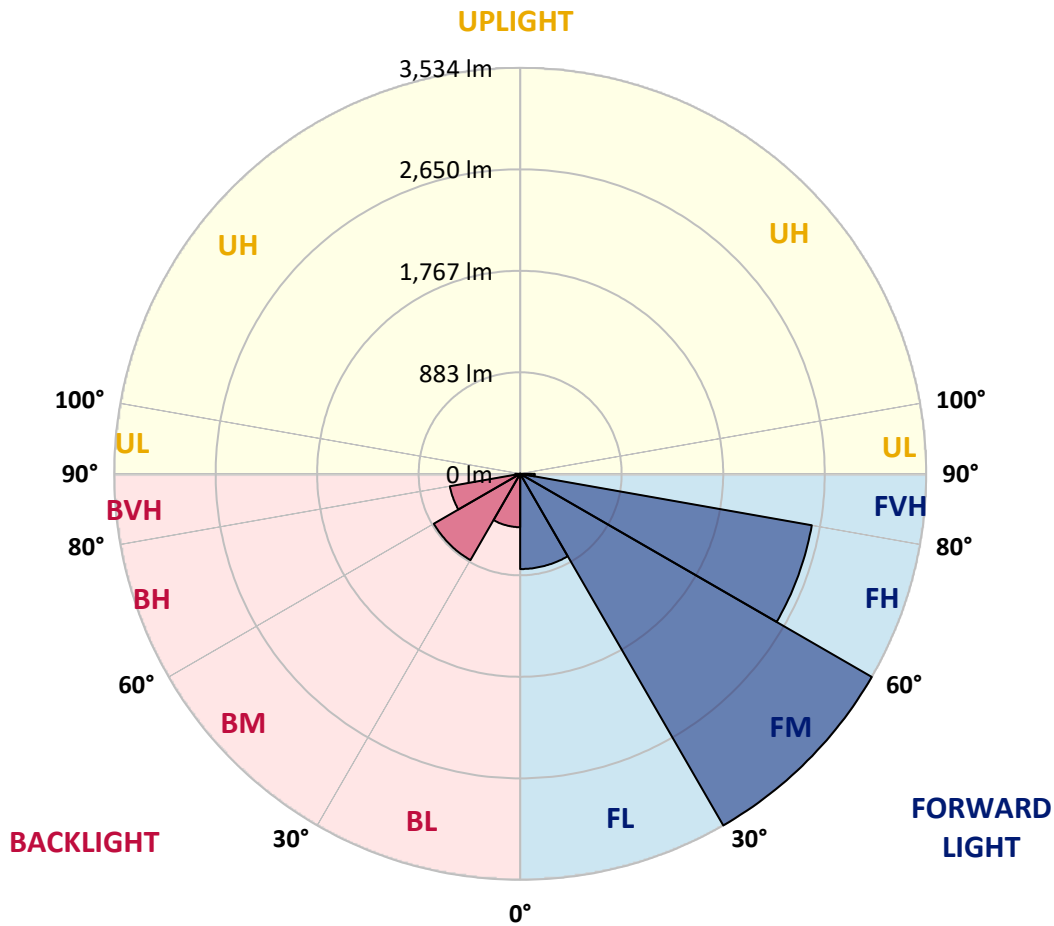
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	828.9	9.1			
FM (30°-60°)	3534.0	39.0			
FH (60°-80°)	2577.5	28.4			G2/5000
FVH (80°-90°)	126.7	1.4			G2/225
BL (0°-30°)	464.4	5.1	B1/500		
BM (30°-60°)	867.1	9.6	B1/1000		
BH (60°-80°)	620.8	6.9	B2/1000		G2/1000
BVH (80°-90°)	41.5	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	1818.9	1818.9	1818.9	1818.9	1818.9	1818.9	1818.9	1818.9	1818.9	1818.9
2.5°	1819.9	1811.2	1816.5	1814.6	1817.0	1819.9	1820.8	1822.3	1827.1	1826.6
5°	1816.0	1807.4	1814.6	1812.2	1818.4	1825.1	1830.9	1836.2	1843.8	1847.2
7.5°	1807.9	1802.1	1809.3	1816.5	1828.0	1838.1	1846.2	1858.2	1869.2	1871.2
10°	1760.4	1756.1	1772.9	1791.6	1823.2	1850.5	1868.3	1882.2	1894.2	1896.1
12.5°	1711.1	1705.8	1724.5	1749.9	1801.2	1850.5	1887.9	1906.1	1916.7	1922.9
15°	1702.9	1698.6	1709.2	1731.2	1773.9	1837.6	1901.3	1934.9	1944.0	1951.2
17.5°	1742.2	1734.1	1738.4	1746.1	1771.0	1825.6	1911.9	1967.5	1981.4	1989.1
20°	1833.3	1821.8	1815.1	1799.7	1795.4	1827.5	1910.9	2006.8	2025.0	2034.6
22.5°	1954.5	1946.9	1932.5	1893.7	1851.5	1851.0	1929.1	2057.1	2091.1	2100.3
25°	2101.2	2089.7	2071.5	2018.8	1937.8	1897.5	1959.8	2121.3	2178.4	2180.8
27.5°	2269.9	2252.7	2227.7	2158.2	2049.0	1970.4	2006.8	2195.2	2278.5	2277.6
30°	2447.7	2430.5	2404.1	2319.8	2182.2	2068.6	2072.0	2274.7	2397.4	2392.1
32.5°	2577.6	2564.7	2559.4	2494.2	2335.6	2184.6	2146.7	2362.9	2544.1	2539.3
35°	2677.3	2660.5	2666.8	2633.7	2502.9	2314.5	2238.3	2467.9	2722.4	2721.9
37.5°	2776.1	2761.2	2766.5	2744.4	2657.7	2479.4	2350.0	2596.3	2943.3	2953.9
40°	2866.2	2850.3	2871.4	2850.8	2778.0	2654.8	2477.0	2741.5	3199.3	3219.4
42.5°	2920.3	2907.9	2942.8	2943.3	2882.5	2802.9	2616.4	2901.6	3495.5	3540.5
45°	2939.0	2934.7	2987.4	2998.4	2975.0	2888.7	2742.0	3076.1	3814.7	3895.2
47.5°	2918.9	2910.7	2983.6	3024.3	3043.0	2928.9	2846.0	3264.9	4140.6	4258.5
50°	2817.3	2801.5	2909.8	2995.6	3062.2	2955.3	2951.0	3483.0	4511.1	4640.0
52.5°	2634.7	2622.7	2745.9	2894.9	3020.0	2968.2	3068.9	3721.2	4862.9	5029.7
55°	2401.2	2385.4	2521.1	2715.7	2915.0	2963.9	3186.8	3987.7	5278.0	5447.1
57.5°	2031.2	1999.6	2171.2	2401.2	2743.9	2958.7	3309.5	4252.7	5699.7	5902.5
60°	1491.6	1444.6	1655.0	1927.7	2409.4	2907.4	3461.4	4549.9	6205.9	6388.5
62.5°	868.5	841.2	978.7	1233.2	1816.0	2605.4	3546.8	4895.5	6703.4	6895.1
65°	674.4	666.7	678.7	698.3	1010.8	1950.7	3283.6	5232.4	7336.0	7470.2
67.5°	616.8	611.1	616.4	579.5	512.8	1086.6	2597.8	5317.7	8013.7	8095.2
70°	548.3	541.6	558.9	527.2	403.6	494.1	1678.5	5008.1	8552.9	8705.8
72.5°	446.7	439.0	479.3	464.9	339.8	317.3	843.1	4272.4	8496.4	8813.7
75°	343.2	338.9	386.8	398.8	277.0	249.7	404.5	3175.8	7476.9	7796.6
77.5°	266.5	263.1	287.6	331.2	223.3	193.6	248.8	2014.5	5634.5	5690.6
80°	199.9	190.3	212.8	256.4	174.0	141.4	168.7	1174.7	3561.6	3228.5
82.5°	125.1	120.3	139.0	171.1	122.7	97.3	109.8	649.0	1427.3	840.7
85°	71.4	69.5	75.7	97.8	66.6	56.1	62.8	286.6	260.7	179.3
87.5°	28.8	27.8	34.5	43.6	24.4	20.6	22.0	69.0	57.5	53.2
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°
1818.9	0°	1818.9	1818.9	1818.9	1818.9	1818.9	1818.9	1818.9	1818.9	1818.9	1818.9
1826.1	2.5°	1824.2	1824.2	1817.5	1806.9	1794.9	1787.3	1774.8	1771.5	1758.5	1754.7
1842.4	5°	1846.2	1842.4	1821.8	1792.1	1751.3	1713.9	1672.7	1646.8	1610.4	1597.5
1874.5	7.5°	1874.0	1863.5	1828.0	1762.8	1677.5	1593.6	1506.4	1440.3	1377.0	1354.5
1900.9	10°	1899.4	1884.6	1824.2	1710.1	1562.5	1417.3	1278.3	1181.0	1107.2	1077.0
1930.1	12.5°	1924.8	1897.5	1798.8	1622.4	1399.1	1202.1	1054.0	978.2	932.7	896.3
1954.1	15°	1948.8	1910.5	1759.5	1505.0	1219.8	1019.9	910.7	850.3	813.8	789.9
1989.1	17.5°	1976.6	1921.5	1700.5	1355.9	1049.2	893.9	804.7	768.3	761.1	758.2
2037.0	20°	2015.4	1931.5	1622.9	1189.1	923.6	793.2	747.2	743.9	743.4	741.9
2094.5	22.5°	2057.1	1943.5	1520.3	1037.7	816.7	730.4	722.3	715.6	711.3	710.8
2164.0	25°	2106.5	1947.4	1391.9	913.5	725.6	700.7	691.1	681.1	678.2	678.2
2243.1	27.5°	2154.4	1934.4	1242.3	805.7	674.4	673.4	660.9	657.6	657.1	658.5
2333.2	30°	2202.3	1910.0	1093.7	706.0	644.6	644.6	640.3	642.7	644.6	649.4
2456.8	32.5°	2267.0	1884.1	969.6	632.2	618.8	614.0	618.3	623.1	625.0	631.2
2619.3	35°	2361.9	1865.9	870.9	591.9	591.9	585.7	588.1	587.1	582.8	579.9
2815.8	37.5°	2487.5	1864.9	789.4	573.2	569.4	568.4	568.9	562.7	545.9	525.8
3053.6	40°	2638.5	1890.8	726.6	560.3	557.4	563.2	560.3	543.5	497.5	462.5
3345.9	42.5°	2841.2	1964.6	686.3	544.5	553.1	560.3	548.8	490.8	459.6	436.2
3679.0	45°	3079.9	2084.4	665.7	527.7	545.0	553.6	498.0	472.6	447.7	419.4
4042.3	47.5°	3350.2	2235.4	660.9	511.9	526.7	532.0	476.4	464.9	436.6	406.0
4407.6	50°	3644.5	2414.2	673.9	493.2	500.4	482.2	469.2	458.7	429.4	399.2
4781.9	52.5°	3948.9	2611.2	699.8	467.8	474.0	453.9	466.4	457.2	425.1	384.4
5168.7	55°	4248.0	2809.6	724.7	438.1	447.2	428.5	458.2	451.5	405.5	359.5
5581.3	57.5°	4551.8	3007.1	749.1	411.7	421.3	404.0	445.3	436.2	383.4	336.5
6031.9	60°	4867.7	3198.8	760.6	386.3	393.0	381.5	425.6	409.8	358.5	313.0
6474.7	62.5°	5163.4	3358.4	741.9	360.9	365.2	360.4	399.7	378.6	333.6	286.6
6936.3	65°	5460.1	3453.3	684.4	336.0	336.9	334.5	363.3	345.1	304.3	263.6
7340.3	67.5°	5729.0	3506.5	592.9	309.1	306.7	305.8	329.3	308.7	276.1	240.6
7647.6	70°	5786.0	3371.3	452.9	277.5	277.5	275.1	291.9	270.8	244.9	216.2
7427.6	72.5°	5284.7	2836.0	321.6	241.6	245.4	240.6	254.5	236.8	213.3	194.1
6401.4	75°	4261.4	2079.6	233.9	204.7	211.4	203.2	216.2	203.7	183.6	183.1
4411.4	77.5°	2928.0	1285.9	169.7	168.7	173.5	163.0	177.8	171.1	152.9	144.7
1920.0	80°	1249.5	512.8	123.7	130.4	130.4	120.8	138.0	140.0	124.1	120.3
370.5	82.5°	248.8	145.7	86.8	89.6	84.4	81.5	97.8	108.3	149.5	166.3
111.7	85°	74.8	53.7	52.2	48.9	43.1	43.6	57.5	108.8	134.2	76.7
36.9	87.5°	20.6	13.4	13.9	11.0	9.1	12.0	19.7	82.4	45.1	19.2
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>
1818.9
1760.9
1607.1
1357.4
1083.7
908.3
794.2
760.2
746.7
716.1
681.1
662.4
652.8
636.5
586.7
526.3
461.6
435.2
417.5
403.6
395.9
381.5
357.1
335.5
311.5
286.1
260.7
237.7
215.2
188.4
164.9
135.6
120.3
166.8
66.1
16.3
0.0

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