

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: P941587

Luminaire Tested: **GALN-SB5A-940-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941587
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5A-940-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16431 lumens
Efficiency: N/A
Efficacy: 116.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

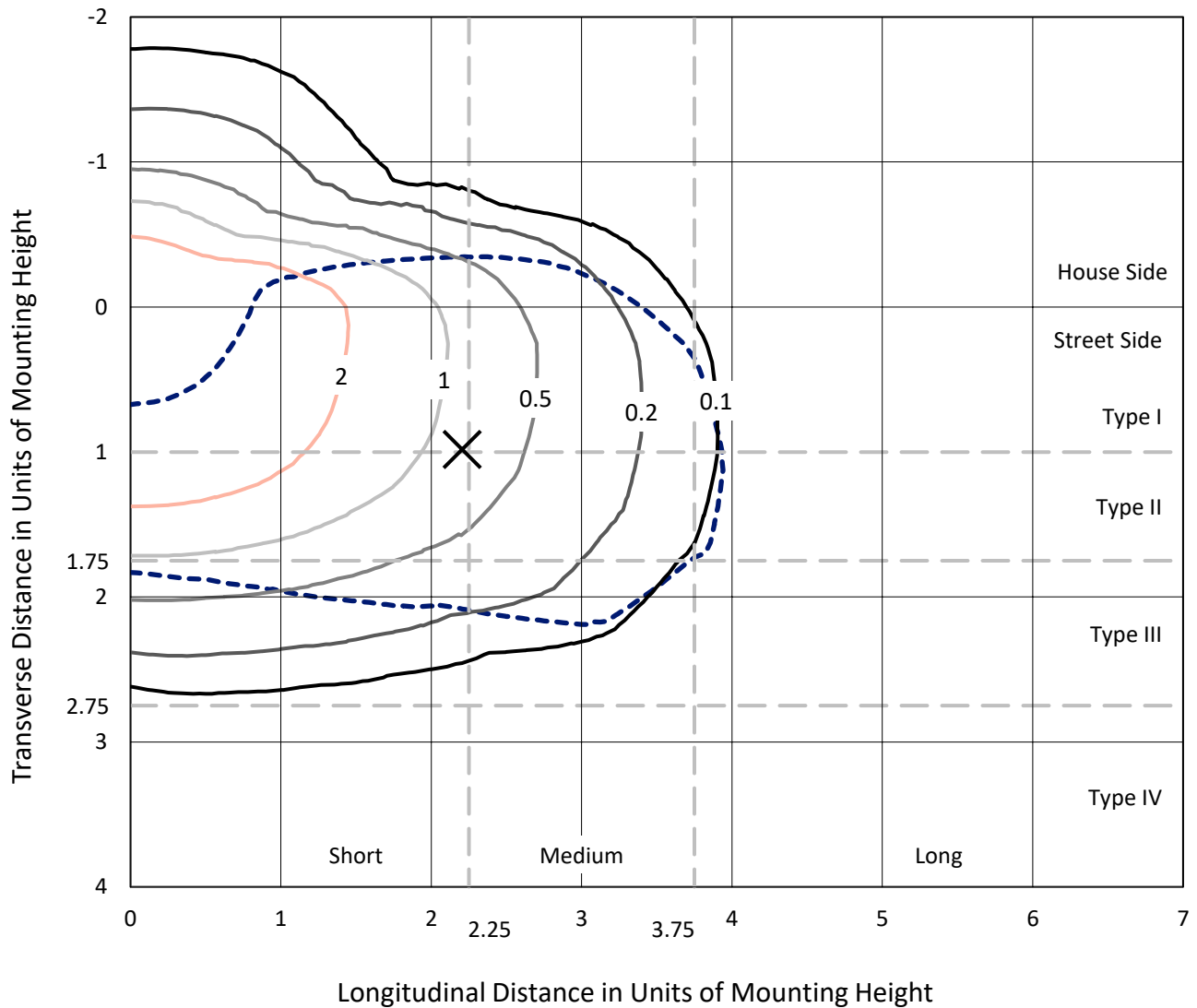
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

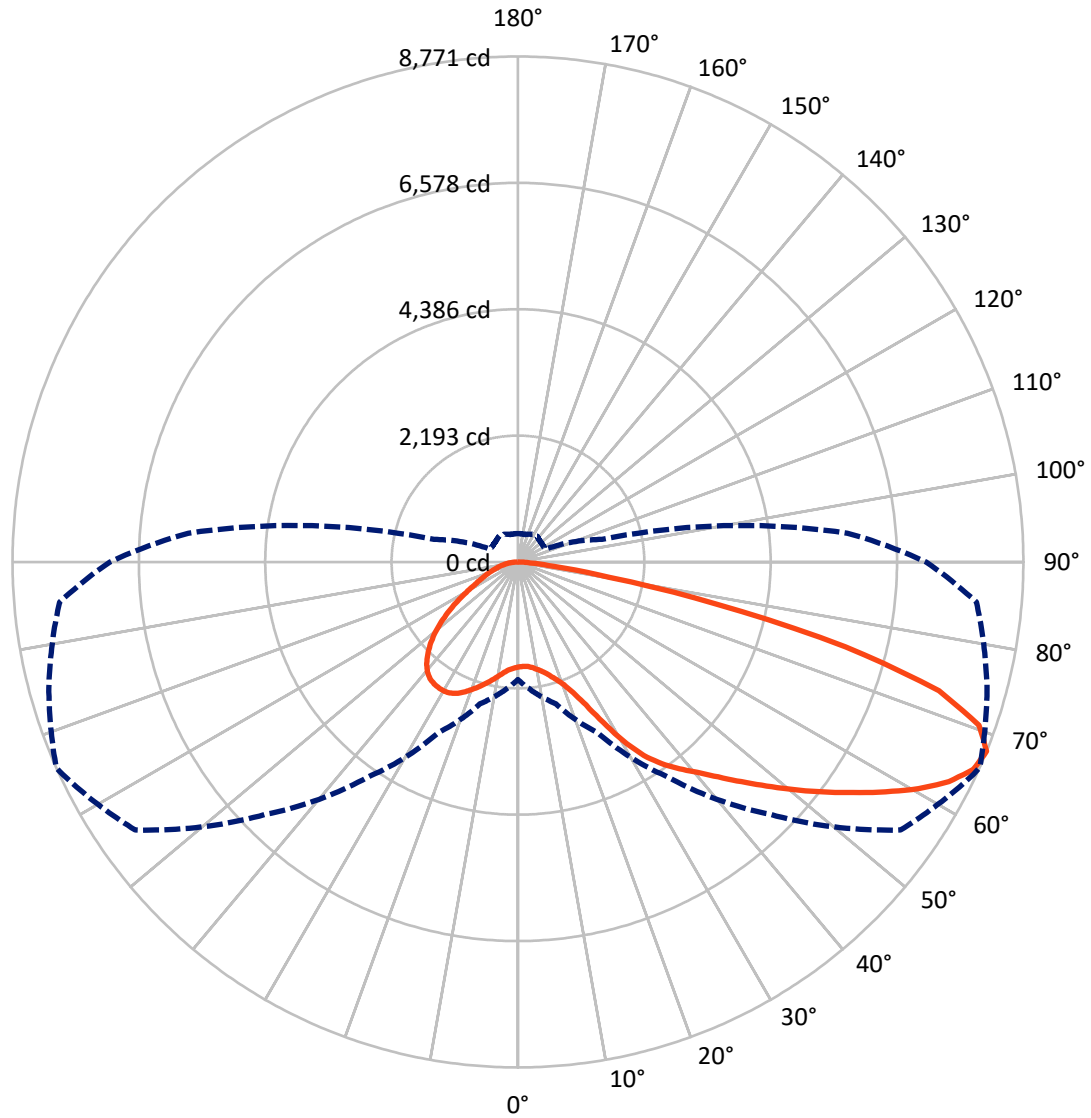
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4085.5	0.0	4085.5
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	12345.5	0.0	12345.5
	% Fixture	75.1	0.0	75.1
Total	Lumens	16431.0	0.0	16431.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.7	1.1
10°-20°	597.0	3.6
20°-30°	1150.6	7.0
30°-40°	2017.4	12.3
40°-50°	2999.3	18.3
50°-60°	3801.9	23.1
60°-70°	3720.0	22.6
70°-80°	1774.5	10.8
80°-90°	189.6	1.2
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°	16431.0	100.0
0°-180°	16431.0	100.0

Coefficient of Utilization



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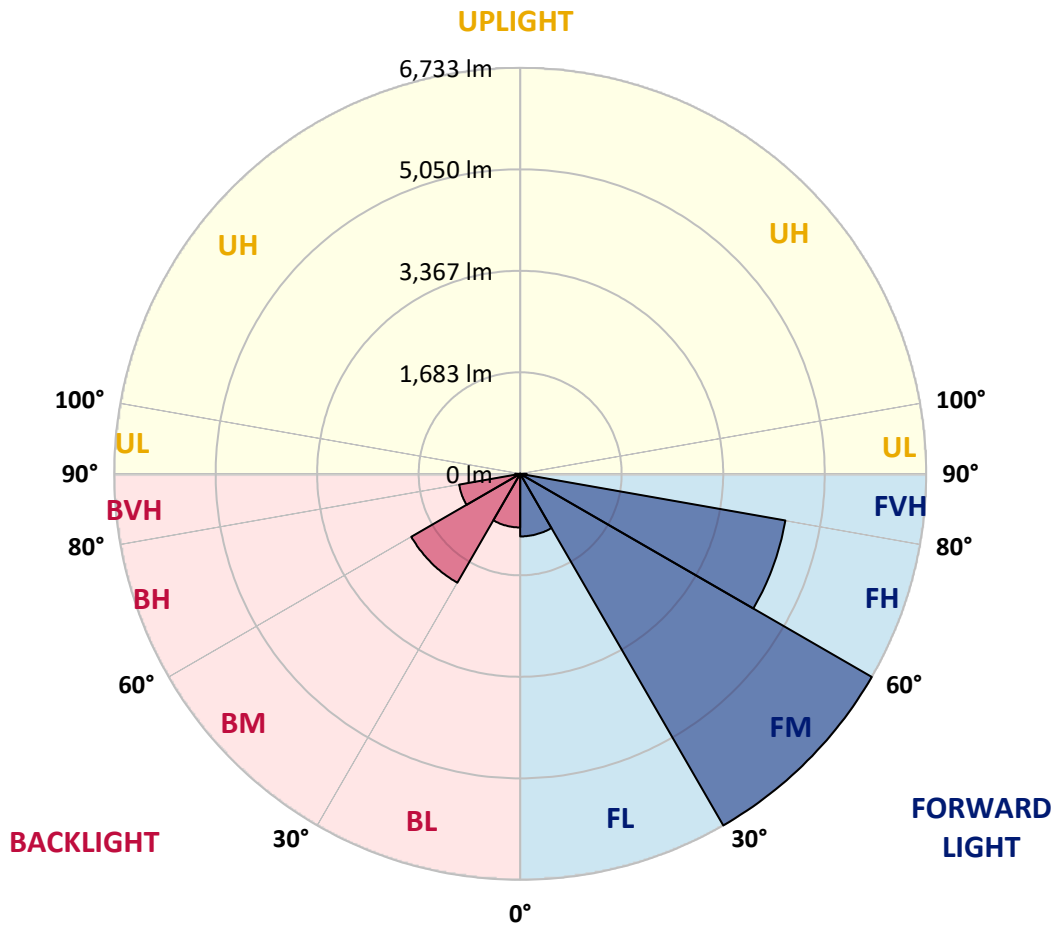
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1038.3	6.3			
FM (30°-60°)	6733.3	41.0			
FH (60°-80°)	4466.4	27.2			G2/5000
FVH (80°-90°)	107.5	0.7			G2/225
BL (0°-30°)	890.0	5.4	B2/1000		
BM (30°-60°)	2085.3	12.7	B2/2500		
BH (60°-80°)	1028.1	6.3	B3/2500		G3/2500
BVH (80°-90°)	82.1	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	1822.4	1822.4	1822.4	1822.4	1822.4	1822.4	1822.4	1822.4	1822.4	1822.4
2.5°	1803.4	1813.8	1811.2	1806.9	1806.0	1807.7	1810.3	1812.9	1812.1	1816.4
5°	1798.2	1808.6	1807.7	1807.7	1811.2	1818.1	1822.4	1826.7	1822.4	1827.6
7.5°	1801.7	1809.5	1812.9	1816.4	1825.0	1838.0	1848.3	1857.8	1852.6	1858.7
10°	1845.7	1851.8	1855.2	1855.2	1861.3	1875.9	1886.3	1903.6	1899.2	1908.7
12.5°	1926.0	1932.1	1932.1	1928.6	1932.9	1942.4	1945.9	1964.9	1957.1	1972.6
15°	2024.4	2036.5	2027.0	2021.0	2022.7	2032.2	2031.3	2046.0	2038.2	2051.2
17.5°	2133.2	2148.7	2133.2	2132.3	2128.9	2139.2	2140.1	2153.1	2139.2	2148.7
20°	2261.8	2283.4	2270.5	2274.8	2267.0	2271.3	2275.6	2294.6	2273.1	2280.0
22.5°	2443.1	2469.0	2455.2	2471.6	2466.4	2463.0	2462.1	2495.8	2462.1	2464.7
25°	2707.3	2738.4	2714.2	2736.6	2736.6	2747.9	2760.8	2804.0	2747.9	2731.5
27.5°	3097.5	3128.6	3081.1	3094.9	3090.6	3118.2	3104.4	3211.5	3151.0	3124.3
30°	3567.1	3622.4	3532.6	3529.1	3524.8	3568.9	3588.7	3659.5	3598.2	3571.5
32.5°	4074.8	4132.6	4025.5	3994.5	3978.1	4004.8	3988.4	4045.4	4003.1	3961.7
35°	4611.7	4668.7	4566.8	4506.4	4440.8	4384.7	4326.0	4340.6	4300.9	4237.9
37.5°	5119.3	5223.8	5115.9	5051.1	4930.3	4820.6	4656.6	4588.4	4551.3	4493.4
40°	5636.5	5696.0	5614.0	5558.8	5427.5	5255.7	4993.3	4849.1	4799.1	4742.9
42.5°	6017.2	6074.1	6030.1	5992.1	5889.4	5690.0	5350.7	5170.3	5097.8	5034.7
45°	6319.3	6361.6	6334.0	6347.8	6303.8	6110.4	5721.1	5514.7	5439.6	5362.8
47.5°	6441.0	6485.9	6530.0	6612.0	6687.1	6544.6	6119.0	5887.7	5808.2	5729.7
50°	6427.2	6473.0	6600.8	6775.1	7008.2	6960.7	6538.6	6284.8	6211.4	6121.6
52.5°	6316.7	6368.5	6532.6	6822.6	7193.8	7272.4	6965.9	6694.9	6625.8	6518.7
55°	6026.7	6057.7	6303.8	6714.7	7237.9	7489.9	7384.6	7131.7	7062.6	6913.3
57.5°	5488.8	5533.7	5892.0	6423.8	7127.4	7637.6	7752.4	7591.0	7524.5	7309.5
60°	4787.0	4858.6	5268.7	5935.2	6845.9	7636.7	8086.5	8042.5	7987.2	7699.7
62.5°	3992.7	4075.6	4470.1	5244.5	6353.8	7420.0	8295.4	8420.6	8392.1	8059.7
65°	3066.4	3123.4	3516.2	4351.0	5588.1	6954.7	8319.6	8678.7	8683.9	8333.4
67.5°	2041.7	2205.7	2546.7	3265.0	4562.5	6194.1	8107.2	8721.0	8771.1	8427.5
70°	996.2	1212.1	1546.2	2122.0	3265.0	5027.8	7552.1	8374.0	8485.3	8153.0
72.5°	413.5	483.4	665.6	1047.2	1874.2	3392.7	6436.7	7433.0	7639.3	7224.0
75°	278.8	302.2	380.7	537.0	853.8	1673.1	4641.9	5542.4	5874.7	5456.0
77.5°	215.0	229.6	277.1	375.5	507.6	632.8	2484.6	3340.1	3511.9	3251.2
80°	169.2	180.4	207.2	273.7	360.0	338.4	846.9	1513.4	1612.6	1352.8
82.5°	146.8	151.1	148.5	185.6	239.1	197.7	278.0	558.6	616.4	447.2
85°	106.2	118.3	123.5	114.8	126.9	100.1	114.0	197.7	217.6	194.2
87.5°	43.2	63.9	78.6	74.2	46.6	28.5	35.4	57.8	66.5	72.5
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°
1822.4	0°	1822.4	1822.4	1822.4	1822.4	1822.4	1822.4	1822.4	1822.4	1822.4	1822.4
1823.3	2.5°	1824.1	1830.2	1834.5	1839.7	1843.1	1848.3	1858.7	1864.7	1865.6	1869.9
1837.1	5°	1840.5	1849.2	1858.7	1872.5	1888.0	1901.0	1920.8	1934.6	1939.8	1944.1
1870.8	7.5°	1875.9	1888.0	1905.3	1929.5	1951.9	1969.2	1993.3	2009.7	2026.2	2032.2
1924.3	10°	1928.6	1945.9	1970.9	2003.7	2027.9	2050.3	2075.4	2089.2	2105.6	2112.5
1988.2	12.5°	1994.2	2012.3	2045.1	2090.9	2113.3	2128.9	2137.5	2134.1	2137.5	2143.6
2065.0	15°	2069.3	2089.2	2126.3	2175.5	2191.0	2177.2	2158.2	2141.0	2138.4	2140.1
2158.2	17.5°	2158.2	2172.9	2216.1	2257.5	2246.3	2189.3	2147.9	2120.3	2106.4	2102.1
2277.4	20°	2282.6	2282.6	2317.9	2343.8	2268.7	2172.0	2107.3	2062.4	2033.9	2021.8
2439.7	22.5°	2433.6	2419.8	2442.3	2424.1	2264.4	2123.7	2033.9	1956.2	1913.1	1895.8
2666.7	25°	2625.3	2608.9	2602.8	2490.6	2233.3	2046.9	1901.0	1806.9	1768.9	1759.4
2993.9	27.5°	2914.5	2873.0	2794.5	2526.9	2176.4	1926.0	1745.6	1658.4	1636.8	1637.7
3414.3	30°	3299.5	3216.6	3024.1	2532.9	2083.1	1755.1	1586.7	1524.6	1514.2	1518.5
3767.4	32.5°	3656.1	3577.5	3258.9	2505.3	1939.8	1587.6	1444.3	1402.9	1387.3	1392.5
4036.8	35°	3935.8	3914.2	3476.5	2466.4	1763.7	1430.5	1316.5	1281.1	1250.9	1244.0
4290.6	37.5°	4199.9	4191.3	3639.7	2412.0	1589.3	1319.1	1213.8	1167.2	1123.1	1099.0
4571.1	40°	4490.0	4481.4	3746.7	2328.3	1434.8	1222.4	1121.4	1060.1	1005.7	961.7
4888.8	42.5°	4816.3	4765.4	3797.6	2208.3	1303.6	1140.4	1046.3	963.4	891.8	851.2
5248.0	45°	5172.9	5058.0	3796.8	2055.5	1193.1	1065.3	966.0	848.6	782.1	744.2
5616.6	47.5°	5551.0	5337.8	3750.2	1886.3	1086.0	982.4	841.7	751.9	707.9	684.6
6017.2	50°	5941.2	5599.3	3670.7	1692.1	976.4	888.3	764.0	702.7	669.1	647.5
6414.3	52.5°	6308.1	5836.7	3574.9	1471.9	865.0	796.8	729.5	682.0	646.6	622.4
6799.3	55°	6649.1	6041.3	3439.4	1246.6	774.4	735.5	713.1	673.4	632.8	604.3
7190.4	57.5°	6952.1	6174.3	3205.4	1035.1	709.6	693.2	695.8	658.7	612.1	587.9
7575.4	60°	7204.2	6271.8	2859.2	839.1	657.0	651.8	669.1	631.1	576.7	549.1
7900.9	62.5°	7355.3	6270.1	2434.5	687.2	612.1	613.8	633.7	596.5	541.3	515.4
8070.9	65°	7342.3	6116.4	1968.3	587.9	568.9	570.6	596.5	558.6	511.9	496.4
7985.5	67.5°	7082.5	5741.8	1509.9	523.2	521.4	529.2	559.4	532.7	493.8	492.1
7476.1	70°	6378.9	4963.9	1087.8	471.4	472.2	483.4	523.2	516.3	484.3	487.8
6285.6	72.5°	5115.0	3784.7	730.3	417.0	417.8	436.0	488.6	503.3	474.8	520.6
4459.8	75°	3406.6	2360.2	469.6	359.1	360.0	383.3	458.4	478.3	448.9	518.8
2320.5	77.5°	1636.8	1061.0	340.1	302.2	302.2	323.7	396.3	428.2	382.4	403.2
745.9	80°	565.5	398.8	267.6	243.4	238.3	252.9	334.1	371.2	329.8	303.9
243.4	82.5°	222.7	207.2	215.0	189.1	171.8	181.3	259.9	306.5	242.6	219.3
137.3	85°	127.8	134.7	151.9	125.2	99.3	111.4	190.8	220.1	183.0	161.4
44.9	87.5°	34.5	47.5	69.9	64.7	44.9	47.5	90.6	121.7	105.3	81.1
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>
1822.4
1869.0
1943.3
2033.1
2115.9
2145.3
2146.2
2108.2
2019.2
1893.2
1761.1
1640.3
1533.2
1399.4
1249.2
1099.8
966.0
853.8
742.4
679.4
639.7
612.1
593.1
572.4
537.0
507.6
495.5
494.7
486.9
527.5
523.2
369.5
284.9
218.4
164.9
83.7
0.0

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