

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: P947496

Luminaire Tested: **GALN-SB2D-827-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947496
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-SB2D-827-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17661 lumens
Efficiency: N/A
Efficacy: 119.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

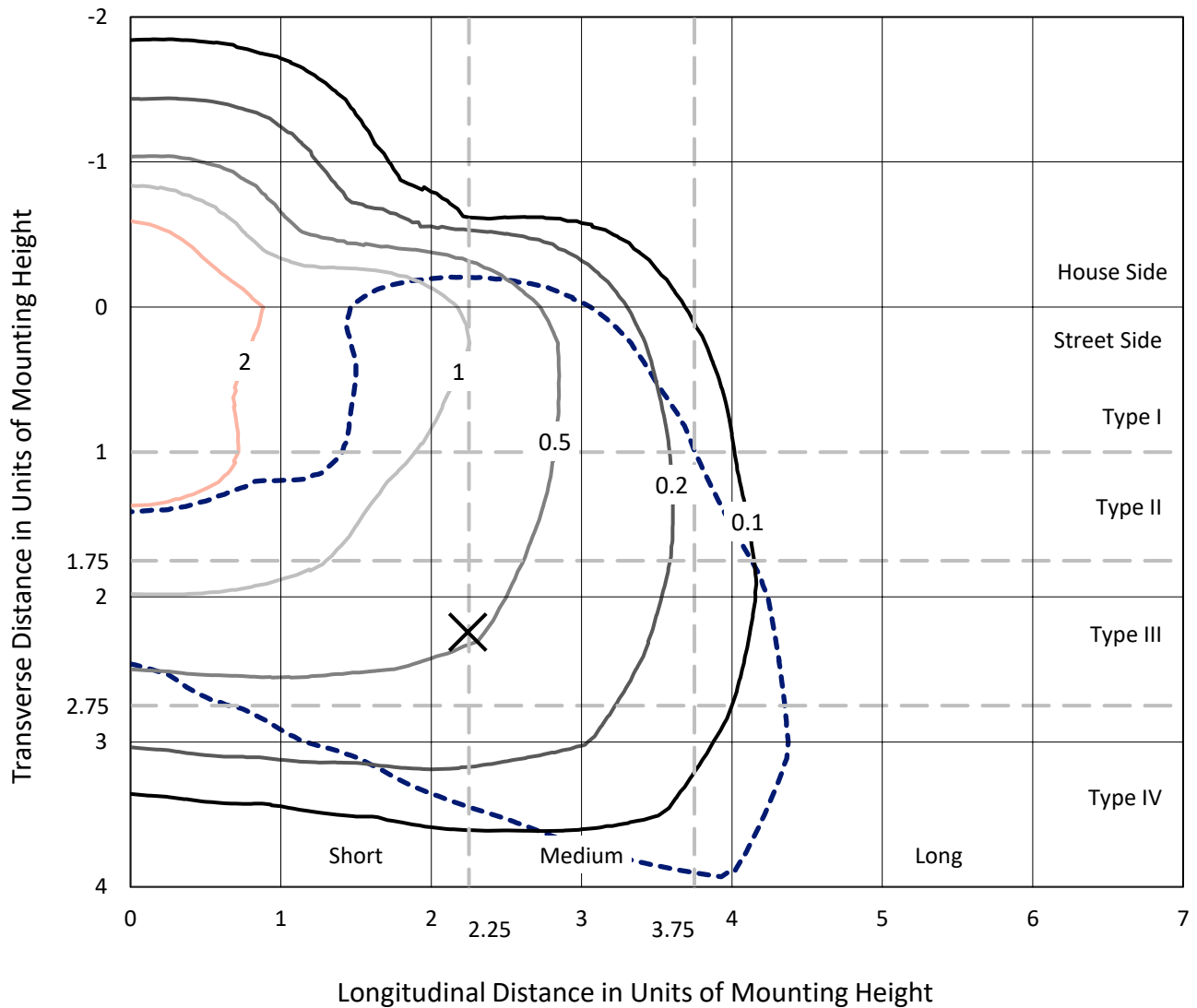
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

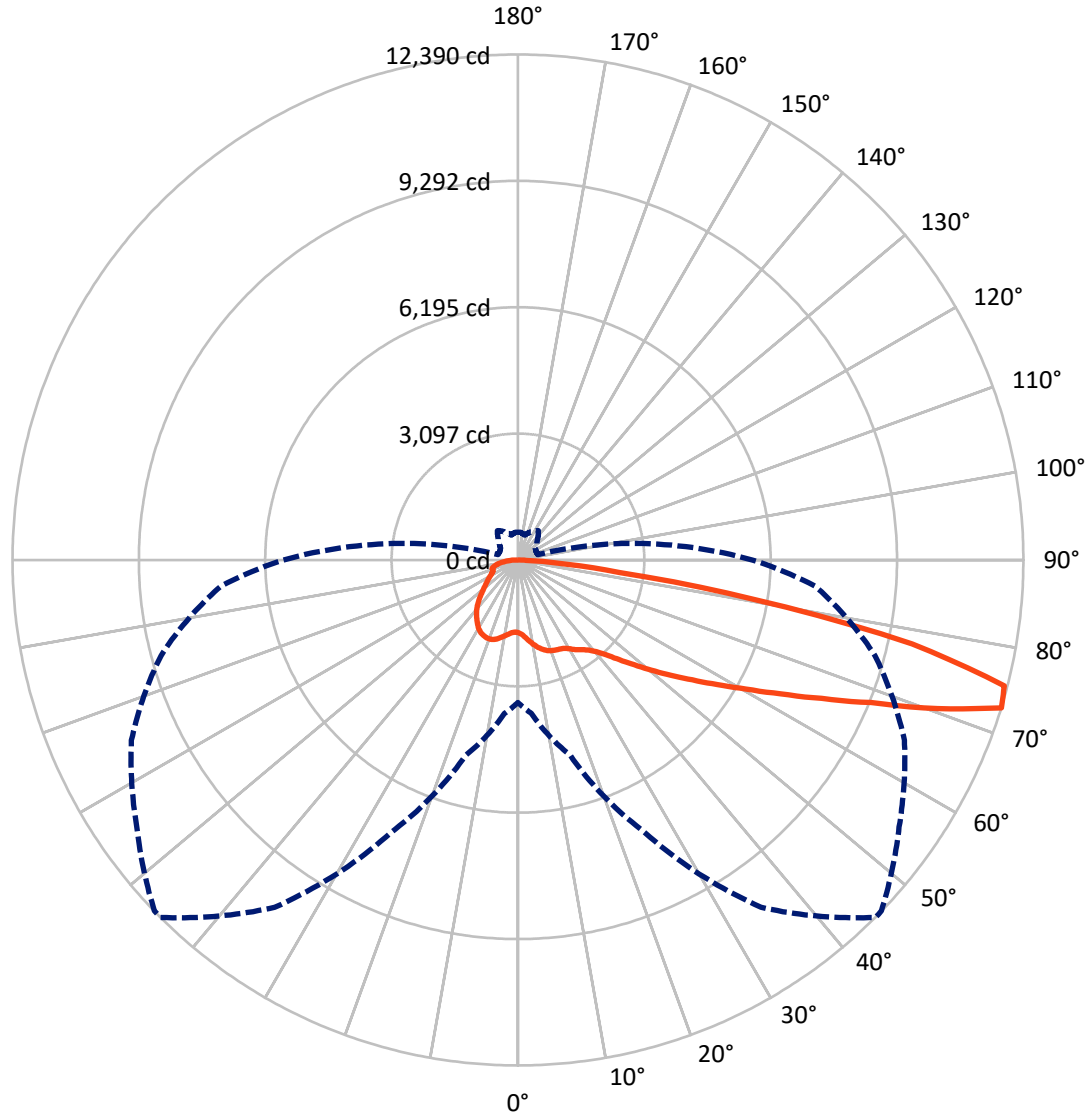
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 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
House Side	Lumens	3992.5	0.0	3992.5
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	13668.5	0.0	13668.5
	% Fixture	77.4	0.0	77.4
Total	Lumens	17661.0	0.0	17661.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.3	1.0
10°-20°	604.6	3.4
20°-30°	1051.7	6.0
30°-40°	1507.7	8.5
40°-50°	2123.0	12.0
50°-60°	3251.8	18.4
60°-70°	4710.7	26.7
70°-80°	3761.7	21.3
80°-90°	468.5	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°	17661.0	100.0
0°-180°	17661.0	100.0

Coefficient of Utilization



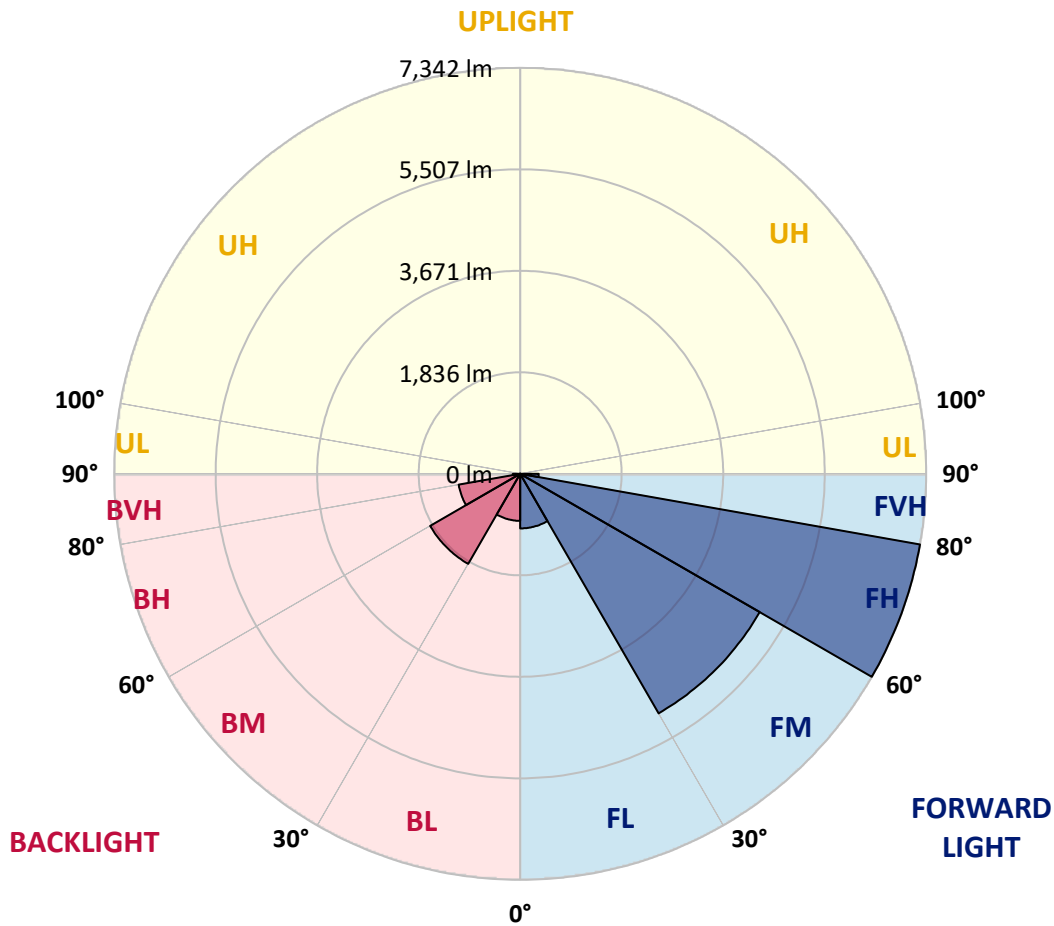
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	987.6	5.6			
FM (30°-60°)	5002.5	28.3			
FH (60°-80°)	7342.2	41.6			G3/7500
FVH (80°-90°)	336.1	1.9			G3/500
BL (0°-30°)	850.0	4.8	B2/1000		
BM (30°-60°)	1879.9	10.6	B2/2500		
BH (60°-80°)	1130.2	6.4	B3/2500		G3/2500
BVH (80°-90°)	132.4	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°	1781.7	1781.7	1781.7	1781.7	1781.7	1781.7	1781.7	1781.7	1781.7	1781.7
2.5°	1851.4	1863.5	1852.4	1842.1	1837.5	1825.4	1824.4	1817.0	1812.4	1799.3
5°	1980.7	1996.6	1978.0	1957.5	1938.9	1909.1	1905.4	1884.0	1859.8	1831.9
7.5°	2126.8	2140.8	2119.4	2088.7	2056.1	2006.8	2005.9	1966.8	1928.6	1881.2
10°	2254.3	2272.9	2244.0	2202.2	2161.2	2105.4	2098.9	2054.2	2005.9	1944.5
12.5°	2366.9	2379.9	2352.0	2300.8	2253.3	2197.5	2189.2	2139.8	2085.9	2016.1
15°	2456.2	2472.9	2435.7	2380.8	2330.6	2275.7	2268.2	2223.6	2169.6	2096.1
17.5°	2514.8	2528.7	2490.6	2429.2	2380.8	2335.2	2329.6	2292.4	2245.0	2170.5
20°	2537.1	2552.0	2512.0	2449.7	2405.0	2369.6	2366.9	2339.9	2307.3	2239.4
22.5°	2559.4	2573.4	2521.3	2456.2	2417.1	2394.8	2393.8	2376.2	2363.1	2307.3
25°	2649.7	2653.4	2583.6	2489.7	2433.8	2414.3	2413.4	2412.4	2418.0	2374.3
27.5°	2727.8	2726.9	2667.4	2579.0	2492.5	2451.5	2450.6	2459.9	2477.6	2441.3
30°	2842.3	2832.0	2761.3	2669.2	2590.1	2526.9	2521.3	2512.9	2526.9	2498.0
32.5°	3085.1	3052.5	2938.1	2774.4	2671.1	2622.7	2615.3	2563.2	2568.7	2551.1
35°	3433.1	3390.3	3237.7	2973.5	2771.6	2702.7	2699.0	2632.9	2621.8	2606.0
37.5°	3847.1	3794.0	3616.3	3261.9	2944.6	2795.8	2790.2	2730.6	2685.0	2668.3
40°	4262.9	4196.0	4049.0	3613.5	3199.5	2951.1	2933.4	2843.2	2791.1	2763.2
42.5°	4666.7	4610.9	4485.3	4008.0	3514.0	3178.1	3139.1	2984.6	2945.5	2919.5
45°	5024.0	4973.7	4881.6	4429.5	3882.4	3487.0	3448.9	3196.7	3184.6	3184.6
47.5°	5314.3	5303.1	5205.4	4859.3	4316.9	3838.7	3772.6	3491.7	3524.2	3574.5
50°	5636.2	5605.5	5501.3	5282.6	4827.7	4241.5	4187.6	3853.6	3975.5	4113.1
52.5°	5932.0	5948.8	5832.5	5723.6	5404.5	4690.9	4596.0	4280.6	4543.9	4771.8
55°	6236.2	6237.2	6204.6	6189.7	6009.2	5187.7	5083.5	4794.2	5212.8	5495.7
57.5°	6521.9	6523.7	6572.1	6703.3	6710.7	5760.8	5642.7	5425.0	5956.2	6244.6
60°	6776.8	6789.8	6921.9	7228.9	7327.6	6417.7	6306.0	6170.2	6724.7	7015.0
62.5°	6862.4	6909.8	7203.8	7640.2	7937.0	7223.4	7113.6	7032.6	7532.2	7802.1
65°	6717.2	6826.1	7394.6	7979.8	8564.0	8180.7	8071.9	7983.5	8371.4	8625.4
67.5°	6360.9	6501.4	7383.4	8336.1	9325.1	9332.5	9231.1	9023.6	9271.1	9368.8
70°	5422.2	5632.4	6733.1	8469.1	10198.7	10907.6	10809.9	10275.9	10168.9	9696.3
72.5°	3493.5	3776.4	4957.9	7374.1	10393.1	12389.7	12384.1	11406.3	10452.7	9059.9
75°	1274.6	1447.6	2303.6	4628.6	8724.0	12314.3	12350.6	11212.8	9541.8	6998.2
77.5°	464.3	508.0	751.7	1778.9	5365.4	9880.5	9955.8	8964.1	6791.7	3512.1
80°	243.8	267.9	385.2	690.3	2298.9	5867.8	5986.0	5327.3	3192.1	1057.8
82.5°	134.9	146.1	215.8	374.9	1035.5	2509.2	2579.9	2104.5	1123.0	448.4
85°	72.6	77.2	101.4	204.7	506.1	869.9	889.4	628.9	447.5	263.3
87.5°	21.4	26.1	33.5	65.1	198.2	195.4	200.0	124.7	176.8	133.0
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°
1781.7	0°	1781.7	1781.7	1781.7	1781.7	1781.7	1781.7	1781.7	1781.7	1781.7	1781.7
1795.6	2.5°	1790.0	1787.2	1777.0	1772.3	1766.8	1765.8	1770.5	1771.4	1772.3	1773.3
1816.1	5°	1806.8	1797.5	1788.2	1782.6	1784.4	1785.4	1794.7	1801.2	1805.8	1809.6
1854.2	7.5°	1839.3	1831.9	1816.1	1815.1	1817.9	1826.3	1838.4	1853.3	1861.7	1868.2
1903.5	10°	1887.7	1873.8	1855.2	1857.9	1863.5	1875.6	1900.7	1912.8	1926.8	1938.9
1964.0	12.5°	1937.0	1924.9	1903.5	1905.4	1914.7	1936.1	1960.3	1975.2	1984.5	1993.8
2029.1	15°	2001.2	1979.8	1956.6	1956.6	1973.3	1996.6	2007.7	2019.8	2025.4	2035.6
2098.9	17.5°	2067.3	2039.4	2008.7	2006.8	2027.3	2038.4	2044.9	2046.8	2048.7	2059.8
2166.8	20°	2133.3	2102.6	2058.9	2055.2	2059.8	2058.0	2057.0	2055.2	2058.0	2071.9
2236.6	22.5°	2198.5	2163.1	2102.6	2085.9	2072.9	2055.2	2054.2	2053.3	2055.2	2069.1
2312.0	25°	2274.7	2231.9	2151.0	2100.8	2057.0	2032.9	2035.6	2036.6	2038.4	2049.6
2390.1	27.5°	2357.5	2310.1	2195.7	2096.1	2017.0	2000.3	1995.6	1998.4	2004.9	2022.6
2468.3	30°	2440.4	2384.5	2236.6	2077.5	1966.8	1943.5	1928.6	1935.2	1955.6	1973.3
2536.2	32.5°	2515.7	2459.9	2269.2	2036.6	1902.6	1866.3	1846.8	1855.2	1875.6	1882.1
2611.5	35°	2604.1	2540.8	2283.1	1971.4	1832.8	1777.0	1750.9	1738.9	1749.1	1742.6
2699.9	37.5°	2702.7	2636.7	2281.3	1885.9	1750.9	1686.8	1650.5	1604.9	1583.5	1561.2
2830.2	40°	2848.8	2753.9	2258.9	1782.6	1649.5	1590.9	1525.8	1448.6	1400.2	1356.5
3040.4	42.5°	3047.9	2916.7	2218.0	1669.1	1535.1	1480.2	1391.8	1301.6	1225.3	1152.7
3359.6	45°	3344.7	3129.8	2166.8	1548.1	1411.4	1357.4	1261.6	1160.2	1073.6	980.6
3812.6	47.5°	3772.6	3416.3	2118.4	1410.4	1281.1	1231.8	1145.3	1051.3	949.0	858.7
4467.6	50°	4360.6	3827.5	2073.8	1276.5	1152.7	1115.5	1046.7	950.8	847.6	775.0
5235.2	52.5°	5108.6	4386.7	2055.2	1147.1	1032.7	1018.8	963.9	874.5	776.9	715.5
6130.2	55°	5967.4	5055.6	2055.2	1023.4	927.6	932.2	894.1	811.3	726.6	671.7
7053.1	57.5°	6843.8	5732.9	2018.0	909.0	838.3	857.8	833.6	761.0	684.7	628.0
8023.5	60°	7651.3	6300.4	1867.2	804.8	759.2	789.9	774.1	711.7	618.7	571.2
8834.8	62.5°	8271.9	6620.5	1577.0	722.0	694.1	729.4	721.0	646.6	606.6	587.1
9500.9	65°	8582.6	6568.4	1205.8	648.5	639.2	694.1	676.4	673.6	642.0	619.6
9717.7	67.5°	8391.9	6119.9	874.5	594.5	607.5	661.5	729.4	740.6	682.0	638.2
9107.4	70°	7555.5	5308.7	651.3	543.3	567.5	662.4	831.7	775.0	668.9	617.8
7304.3	72.5°	5747.8	3958.7	505.2	489.4	515.4	667.1	877.3	759.2	631.7	682.9
4550.4	75°	3287.0	2173.3	405.6	423.3	450.3	623.3	854.1	718.2	602.9	627.1
1803.0	77.5°	1253.2	835.5	334.9	358.2	361.9	544.3	816.9	715.5	574.0	560.1
540.5	80°	434.5	326.6	277.2	284.7	280.0	483.8	783.4	622.4	469.8	420.5
223.3	82.5°	177.7	162.8	219.6	210.3	199.1	375.9	632.6	508.9	384.2	339.6
107.9	85°	77.2	103.3	145.1	127.5	115.4	260.5	507.0	430.8	324.7	280.0
35.4	87.5°	15.8	39.1	61.4	57.7	59.5	174.0	360.1	306.1	229.8	172.1
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>
1781.7
1777.0
1811.4
1870.0
1936.1
1997.5
2039.4
2063.6
2077.5
2078.4
2064.5
2040.3
1992.8
1905.4
1763.0
1575.1
1359.3
1146.2
969.4
848.5
770.3
710.8
666.1
618.7
563.8
580.5
612.2
630.8
609.4
677.3
627.1
510.8
406.6
335.9
279.1
134.9
0.0

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