

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: P947620

Luminaire Tested: **GALN-SB2D-930-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947620
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2D-930-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14533 lumens
Efficiency: N/A
Efficacy: 98.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

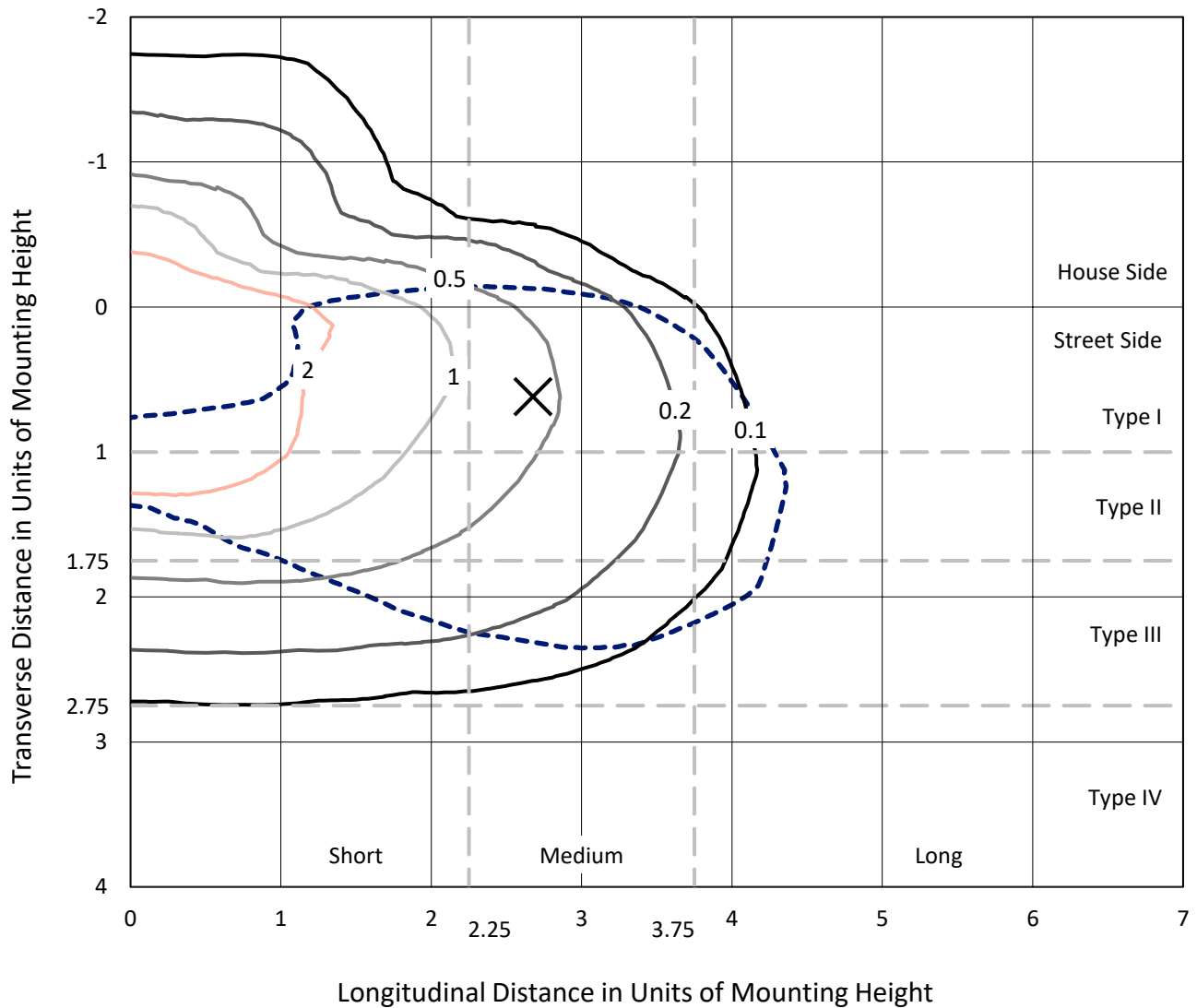
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

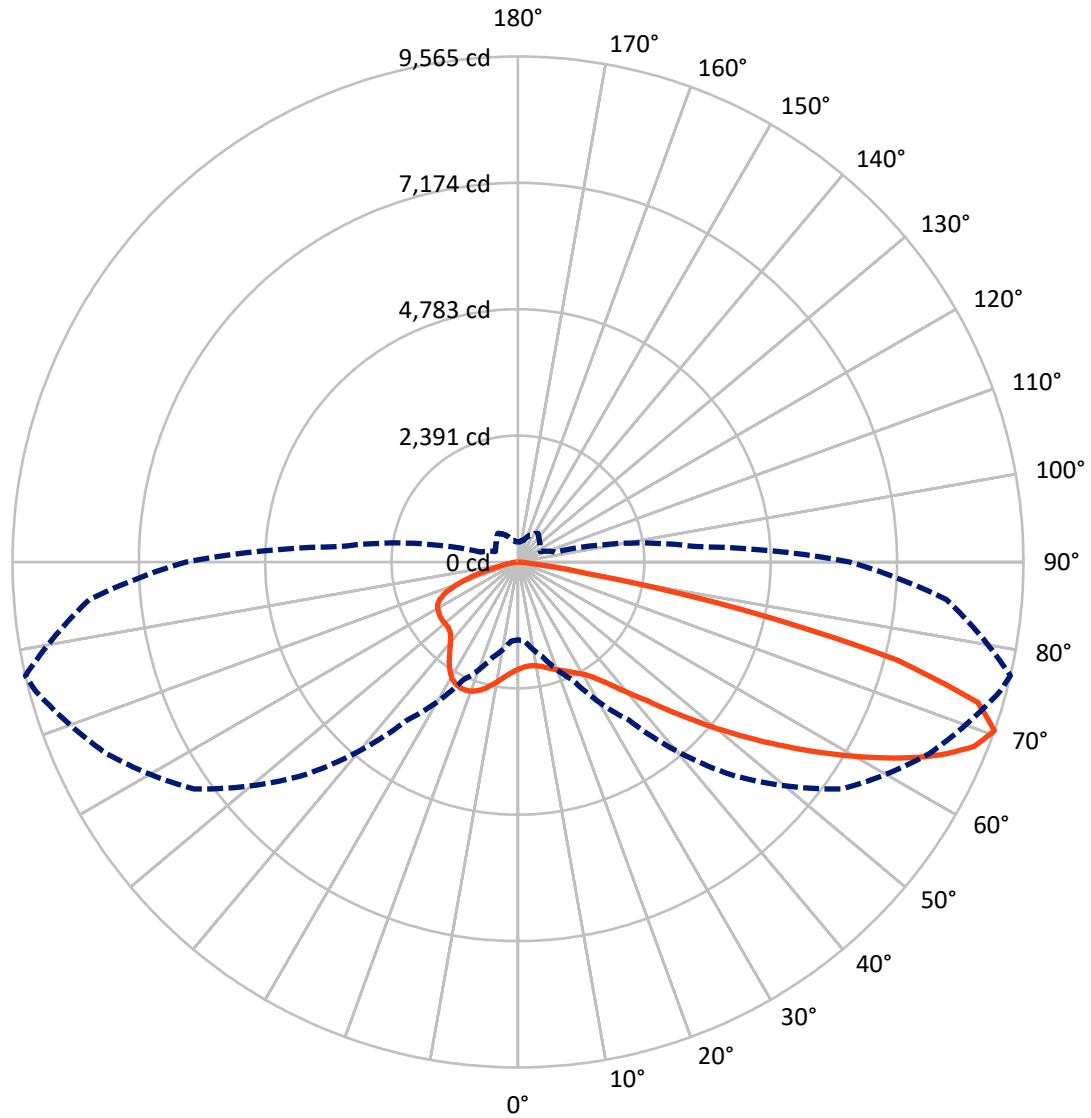
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3182.5	0.0	3182.5
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	11350.5	0.0	11350.5
	% Fixture	78.1	0.0	78.1
Total	Lumens	14533.0	0.0	14533.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.4	1.3
10°-20°	558.1	3.8
20°-30°	954.4	6.6
30°-40°	1534.8	10.6
40°-50°	2396.2	16.5
50°-60°	3200.7	22.0
60°-70°	3411.5	23.5
70°-80°	2100.1	14.5
80°-90°	184.0	1.3
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°	14533.0	100.0
0°-180°	14533.0	100.0



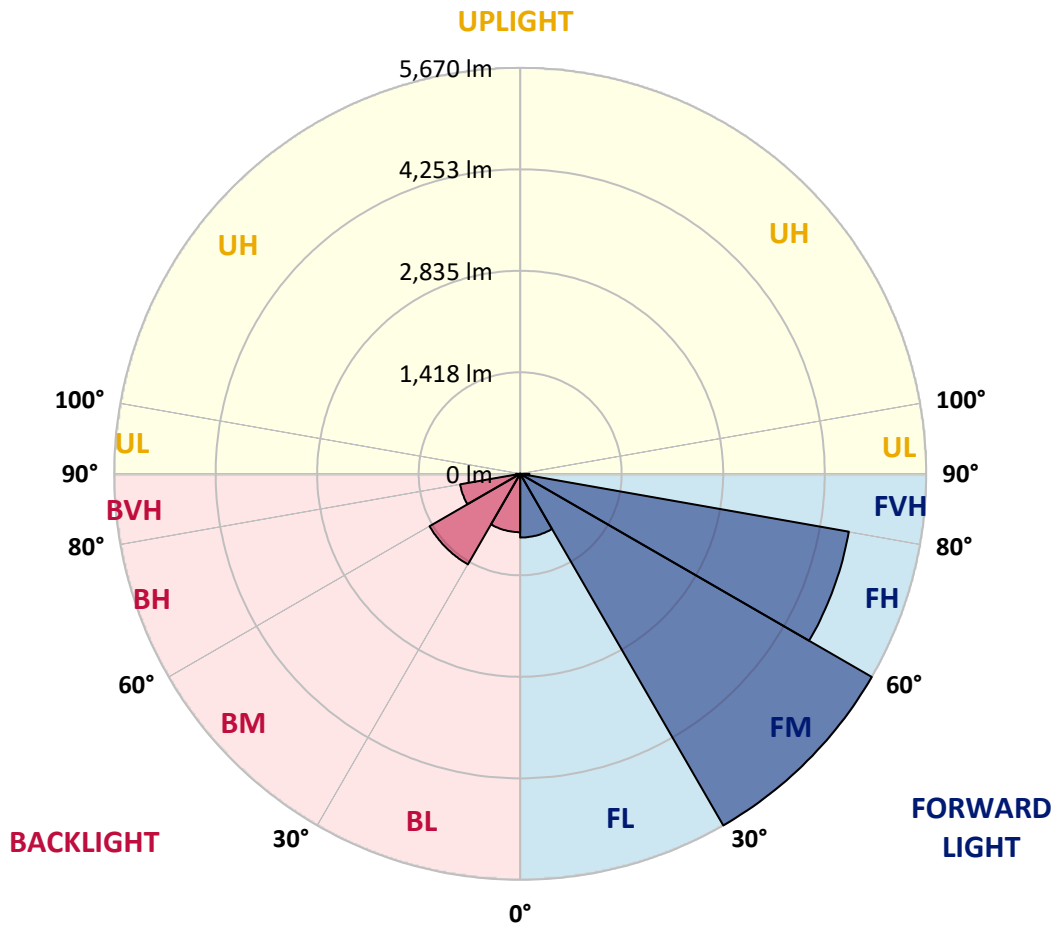
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	890.4	6.1			
FM (30°-60°)	5670.5	39.0			
FH (60°-80°)	4661.0	32.1			G2/5000
FVH (80°-90°)	128.7	0.9			G2/225
BL (0°-30°)	815.5	5.6	B2/1000		
BM (30°-60°)	1461.2	10.1	B2/2500		
BH (60°-80°)	850.5	5.9	B2/1000		G2/1000
BVH (80°-90°)	55.3	0.4			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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	2027.5	2027.5	2027.5	2027.5	2027.5	2027.5	2027.5	2027.5	2027.5	2027.5
2.5°	1868.9	1868.2	1877.9	1880.9	1898.7	1911.4	1935.2	1960.5	1993.2	1997.0
5°	1761.0	1761.0	1772.2	1784.1	1807.2	1832.5	1868.9	1912.9	1969.4	1978.4
7.5°	1669.5	1675.4	1685.1	1708.2	1735.0	1771.4	1827.3	1889.8	1964.2	1978.4
10°	1595.8	1602.5	1614.4	1633.0	1673.2	1723.8	1796.8	1877.1	1976.9	1999.2
12.5°	1572.7	1579.4	1586.1	1600.3	1637.5	1697.0	1784.1	1883.1	2007.4	2029.7
15°	1626.3	1634.5	1629.3	1625.6	1644.9	1699.2	1790.1	1904.7	2045.3	2077.4
17.5°	1749.9	1752.8	1740.9	1705.9	1703.0	1732.0	1818.3	1934.4	2093.0	2128.0
20°	1949.3	1944.1	1919.6	1850.3	1810.9	1804.9	1866.7	1979.1	2142.1	2179.3
22.5°	2220.3	2214.3	2165.2	2055.8	1967.9	1909.9	1936.7	2037.2	2197.2	2238.9
25°	2558.2	2550.0	2477.8	2328.9	2192.7	2049.1	2032.0	2113.8	2264.9	2303.6
27.5°	2952.7	2946.0	2867.8	2671.3	2474.8	2239.6	2150.3	2203.9	2335.6	2379.5
30°	3376.9	3396.3	3257.8	3046.4	2797.8	2488.2	2309.6	2314.8	2427.2	2466.6
32.5°	3875.6	3909.1	3742.4	3474.4	3135.0	2758.4	2510.5	2469.6	2560.4	2593.2
35°	4369.8	4407.8	4269.3	3973.1	3582.3	3077.0	2720.4	2647.5	2737.6	2773.3
37.5°	4797.0	4847.7	4776.2	4518.7	4060.9	3461.0	2994.3	2856.6	2955.6	3000.3
40°	5134.2	5211.6	5206.4	5045.6	4625.1	3927.0	3341.9	3114.9	3226.6	3274.9
42.5°	5408.1	5475.1	5533.2	5525.0	5213.9	4456.2	3750.6	3450.6	3535.4	3591.3
45°	5597.2	5668.6	5793.7	5928.4	5780.3	5022.6	4218.7	3848.8	3926.2	4010.3
47.5°	5766.1	5847.3	6009.5	6223.1	6261.1	5591.2	4731.5	4312.5	4383.2	4470.3
50°	5781.0	5851.0	6102.6	6405.5	6602.7	6137.5	5282.3	4832.8	4899.0	4992.1
52.5°	5421.5	5531.7	5970.8	6400.3	6759.8	6594.5	5829.4	5373.9	5448.3	5560.0
55°	4208.3	4369.8	5584.5	6200.8	6704.0	6890.0	6349.7	5949.2	6044.5	6161.4
57.5°	3624.8	3695.5	4433.1	5837.6	6449.4	6966.7	6788.8	6530.5	6683.9	6811.9
60°	3257.8	3316.6	3752.8	5272.7	6114.5	6845.4	7128.2	7072.4	7337.4	7489.9
62.5°	2864.8	2920.7	3317.4	4402.6	5685.7	6643.7	7342.6	7572.6	8007.2	8174.0
65°	2474.8	2522.4	2902.8	3699.2	5140.9	6442.0	7453.5	8005.0	8627.2	8799.9
67.5°	2040.1	2079.6	2439.1	3120.9	4478.5	6165.8	7508.5	8345.1	9166.9	9315.0
70°	1472.2	1502.8	1874.2	2468.1	3647.1	5691.0	7486.2	8586.3	9446.7	9565.1
72.5°	695.9	723.5	1159.6	1602.5	2576.0	4766.5	7034.4	8395.0	9162.4	9103.6
75°	371.4	395.2	666.2	879.0	1360.6	3267.5	5756.5	7231.7	7693.9	7408.1
77.5°	251.6	270.2	412.3	527.7	621.5	1551.1	3699.9	5006.9	4817.1	4345.3
80°	199.5	218.8	337.9	357.3	300.7	560.5	1528.8	2317.8	1665.0	1331.6
82.5°	153.3	174.9	284.3	259.0	163.7	230.0	445.1	733.1	426.5	324.5
85°	93.8	116.9	223.3	165.2	92.3	104.9	151.1	203.9	130.3	108.7
87.5°	47.6	67.0	113.1	60.3	41.7	24.6	40.2	40.2	34.2	29.8
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°
2027.5	0°	2027.5	2027.5	2027.5	2027.5	2027.5	2027.5	2027.5	2027.5	2027.5	2027.5
2017.1	2.5°	2034.9	2049.8	2075.1	2098.9	2117.5	2135.4	2153.3	2162.9	2165.9	2177.8
2028.2	5°	2058.7	2086.3	2135.4	2181.6	2210.6	2228.4	2241.1	2248.5	2250.0	2253.8
2058.7	7.5°	2102.7	2146.6	2215.1	2261.2	2282.8	2281.3	2276.1	2257.5	2250.0	2243.3
2103.4	10°	2164.4	2222.5	2306.6	2338.6	2325.2	2289.5	2243.3	2189.0	2163.7	2139.1
2164.4	12.5°	2241.1	2314.8	2397.4	2395.9	2329.7	2238.1	2130.9	2047.6	1994.7	1956.8
2239.6	15°	2334.1	2419.0	2482.3	2431.6	2286.5	2122.0	1965.0	1856.3	1808.7	1767.0
2315.5	17.5°	2430.2	2521.0	2550.0	2420.5	2177.8	1950.1	1772.2	1686.6	1639.7	1617.4
2397.4	20°	2523.9	2614.0	2590.2	2356.5	2012.6	1755.1	1596.5	1549.6	1540.0	1545.2
2477.0	22.5°	2622.9	2703.3	2598.4	2232.9	1802.0	1555.6	1468.5	1470.0	1491.6	1507.2
2560.4	25°	2724.2	2778.5	2576.8	2054.3	1575.7	1409.0	1387.4	1411.2	1453.6	1484.1
2654.2	27.5°	2821.7	2845.5	2529.9	1833.2	1381.4	1304.0	1307.7	1356.9	1420.9	1463.3
2768.1	30°	2931.8	2905.0	2439.8	1584.6	1246.7	1214.0	1245.2	1302.5	1366.5	1404.5
2911.7	32.5°	3056.1	2956.4	2296.9	1354.6	1151.4	1141.8	1193.1	1230.3	1258.6	1269.8
3102.3	35°	3210.9	3028.6	2113.8	1193.1	1065.8	1088.9	1138.0	1119.4	1108.3	1102.3
3358.3	37.5°	3411.9	3126.1	1899.5	1088.2	996.6	1051.0	1071.1	1013.0	969.1	947.5
3668.7	40°	3653.8	3269.0	1693.3	1007.0	952.7	1018.2	983.2	913.3	857.4	826.9
4017.8	42.5°	3922.5	3418.6	1519.9	946.0	928.1	991.4	918.5	835.1	745.0	735.4
4433.8	45°	4204.6	3572.7	1401.5	899.1	916.2	968.3	881.3	746.5	682.5	722.0
4851.4	47.5°	4486.7	3714.1	1330.1	864.1	910.3	942.3	848.5	697.4	652.0	709.3
5298.7	50°	4800.8	3840.6	1298.1	838.8	903.6	931.9	799.4	684.8	620.0	658.0
5761.7	52.5°	5112.6	3938.9	1274.2	813.5	893.9	923.7	775.6	669.9	581.3	583.5
6227.6	55°	5423.7	4002.9	1248.2	780.0	872.3	905.8	773.3	653.5	552.3	541.9
6720.3	57.5°	5755.7	4039.3	1216.2	742.8	835.1	860.4	771.1	640.8	543.3	526.2
7224.2	60°	6093.6	4092.9	1174.5	697.4	785.2	806.1	765.9	636.4	538.1	509.1
7699.1	62.5°	6396.6	4111.5	1124.6	654.2	721.2	752.5	754.7	632.7	524.0	474.1
8093.6	65°	6595.3	4031.2	1037.6	605.1	652.0	697.4	733.1	620.0	498.7	448.8
8288.6	67.5°	6587.1	3801.9	901.4	541.9	585.0	636.4	701.9	598.4	468.2	417.6
8141.2	70°	6280.4	3349.4	728.7	468.2	511.3	570.9	661.7	566.4	431.7	383.3
7239.1	72.5°	5386.5	2621.4	529.2	381.8	425.7	503.1	609.6	527.7	394.5	352.8
5350.1	75°	3848.1	1659.1	358.8	293.3	331.2	426.5	544.8	482.3	360.2	354.3
2679.5	77.5°	1965.7	792.7	237.4	214.4	230.7	336.4	457.7	431.0	365.5	292.5
762.2	80°	639.4	292.5	149.6	145.9	153.3	224.0	354.3	353.5	276.9	198.7
184.6	82.5°	203.9	125.8	97.5	93.8	90.1	140.7	247.1	279.9	186.8	125.8
66.2	85°	81.1	75.2	57.3	52.8	38.0	66.2	129.5	186.1	139.2	90.8
17.1	87.5°	29.8	29.8	15.6	11.2	8.2	22.3	35.0	55.8	79.6	46.9
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>
2027.5
2184.5
2259.7
2244.8
2131.7
1947.8
1762.5
1624.1
1542.9
1510.9
1492.3
1473.7
1413.4
1275.7
1108.3
952.7
829.2
745.0
742.8
736.1
686.2
599.2
549.3
528.5
511.3
474.1
448.8
419.8
387.8
350.6
334.2
260.5
175.7
125.0
93.0
46.1
0.0

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