

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: P949405

Luminaire Tested: **GALN-SB4A-930-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949405
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-SB4A-930-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12839 lumens
Efficiency: N/A
Efficacy: 112.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

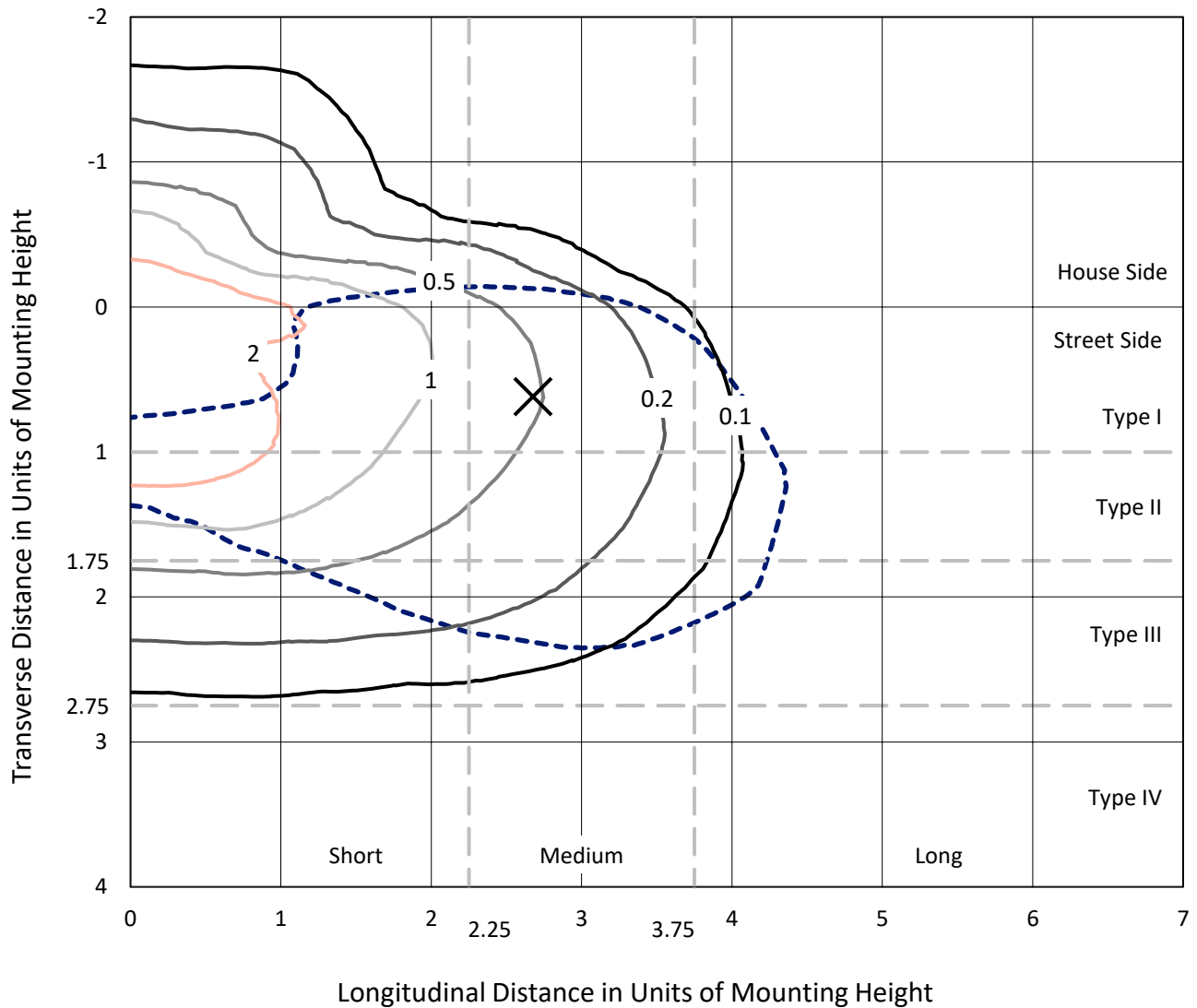
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

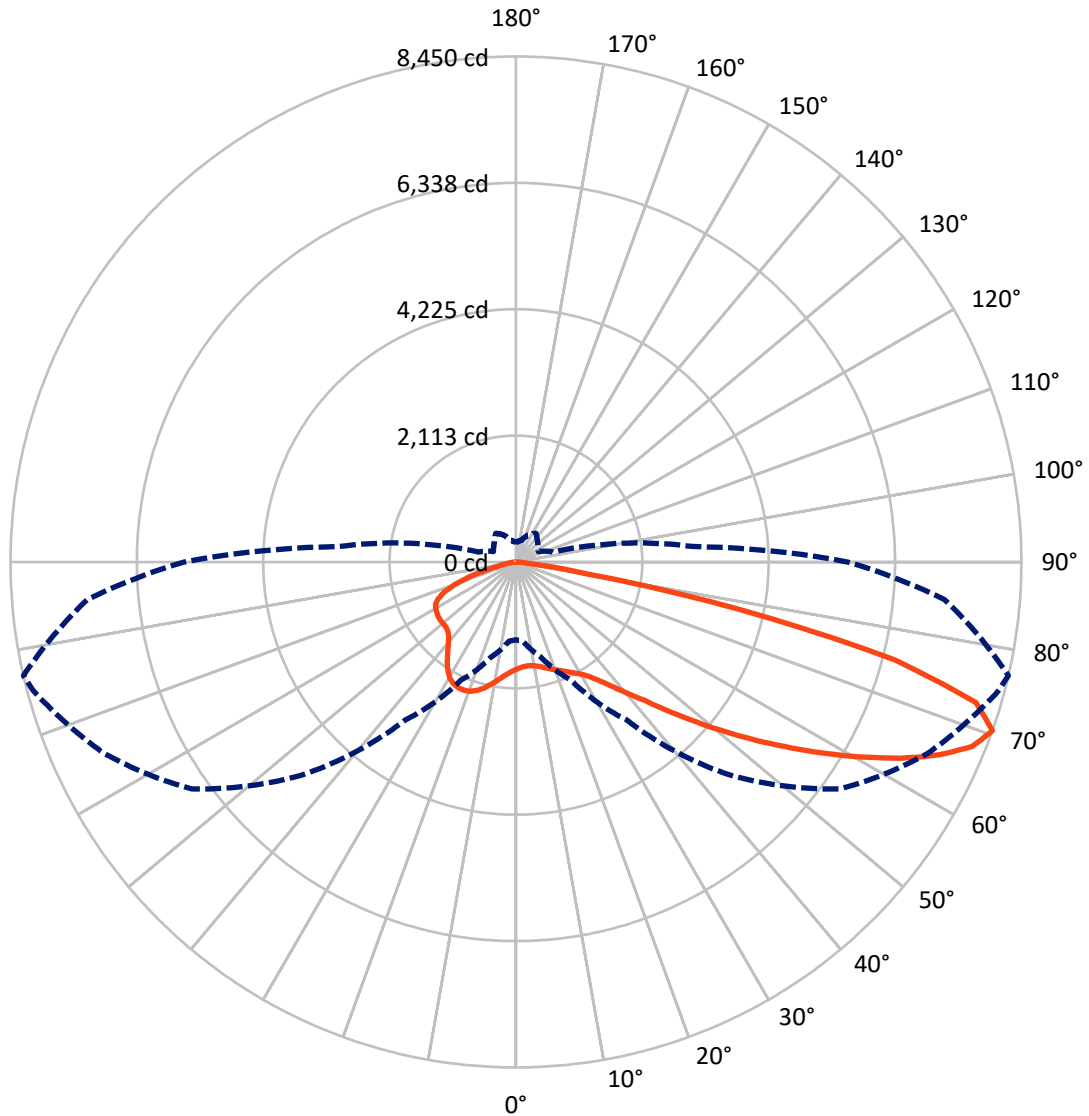
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type 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	2811.5	0.0	2811.5
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	10027.5	0.0	10027.5
	% Fixture	78.1	0.0	78.1
Total	Lumens	12839.0	0.0	12839.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.8	1.3
10°-20°	493.0	3.8
20°-30°	843.1	6.6
30°-40°	1355.9	10.6
40°-50°	2116.9	16.5
50°-60°	2827.6	22.0
60°-70°	3013.8	23.5
70°-80°	1855.3	14.5
80°-90°	162.6	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°	12839.0	100.0
0°-180°	12839.0	100.0



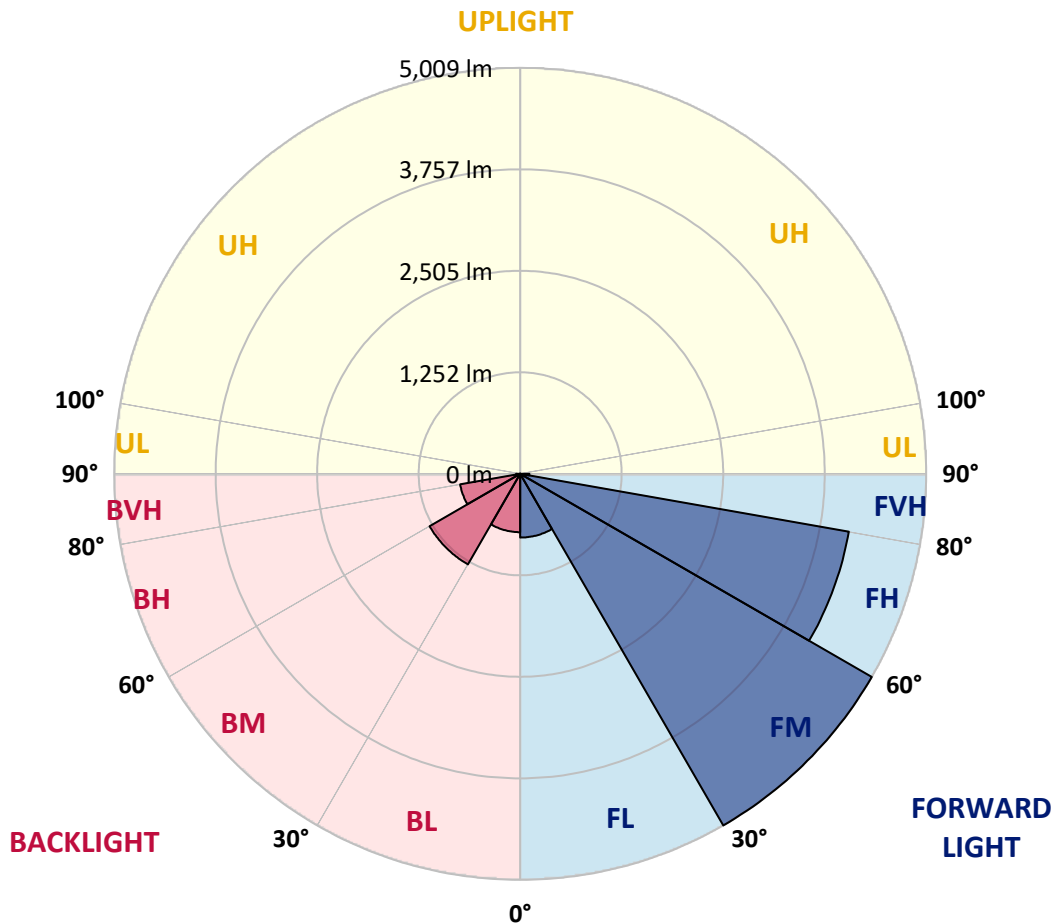
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	786.6	6.1			
FM (30°-60°)	5009.5	39.0			
FH (60°-80°)	4117.7	32.1			G2/5000
FVH (80°-90°)	113.7	0.9			G2/225
BL (0°-30°)	720.4	5.6	B2/1000		
BM (30°-60°)	1290.8	10.1	B2/2500		
BH (60°-80°)	751.4	5.9	B2/1000		G2/1000
BVH (80°-90°)	48.9	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°	1791.2	1791.2	1791.2	1791.2	1791.2	1791.2	1791.2	1791.2	1791.2	1791.2
2.5°	1651.1	1650.4	1659.0	1661.6	1677.4	1688.6	1709.6	1732.0	1760.9	1764.2
5°	1555.8	1555.8	1565.6	1576.1	1596.5	1618.9	1651.1	1689.9	1739.9	1747.8
7.5°	1474.9	1480.1	1488.7	1509.1	1532.7	1565.0	1614.3	1669.5	1735.3	1747.8
10°	1409.8	1415.7	1426.2	1442.7	1478.2	1522.9	1587.3	1658.3	1746.4	1766.2
12.5°	1389.4	1395.3	1401.2	1413.7	1446.6	1499.2	1576.1	1663.6	1773.4	1793.1
15°	1436.7	1444.0	1439.4	1436.1	1453.2	1501.2	1581.4	1682.7	1806.9	1835.2
17.5°	1545.9	1548.5	1538.0	1507.1	1504.5	1530.1	1606.4	1709.0	1849.0	1879.9
20°	1722.1	1717.5	1695.8	1634.7	1599.8	1594.6	1649.1	1748.4	1892.4	1925.3
22.5°	1961.5	1956.2	1912.8	1816.1	1738.6	1687.3	1710.9	1799.7	1941.1	1977.9
25°	2260.0	2252.8	2189.0	2057.5	1937.1	1810.2	1795.1	1867.4	2000.9	2035.1
27.5°	2608.5	2602.6	2533.5	2359.9	2186.3	1978.6	1899.7	1947.0	2063.4	2102.2
30°	2983.3	3000.4	2878.1	2691.3	2471.7	2198.2	2040.4	2045.0	2144.3	2179.1
32.5°	3423.8	3453.4	3306.1	3069.4	2769.6	2436.9	2217.9	2181.7	2262.0	2290.9
35°	3860.5	3894.0	3771.7	3510.0	3164.8	2718.3	2403.3	2338.9	2418.5	2450.0
37.5°	4237.9	4282.6	4219.5	3992.0	3587.6	3057.6	2645.3	2523.7	2611.1	2650.6
40°	4535.8	4604.1	4599.5	4457.5	4086.0	3469.2	2952.4	2751.8	2850.5	2893.2
42.5°	4777.7	4836.9	4888.2	4881.0	4606.1	3936.7	3313.4	3048.4	3123.3	3172.7
45°	4944.8	5007.9	5118.3	5237.4	5106.5	4437.1	3727.0	3400.2	3468.6	3542.9
47.5°	5094.0	5165.7	5309.0	5497.7	5531.3	4939.5	4180.0	3809.8	3872.3	3949.2
50°	5107.2	5169.0	5391.2	5658.8	5833.1	5422.1	4666.6	4269.5	4328.0	4410.2
52.5°	4789.6	4886.9	5274.8	5654.2	5971.8	5825.9	5149.9	4747.5	4813.2	4911.9
55°	3717.8	3860.5	4933.6	5478.0	5922.5	6086.9	5609.5	5255.8	5339.9	5443.2
57.5°	3202.3	3264.7	3916.3	5157.1	5697.6	6154.6	5997.5	5769.3	5904.8	6017.9
60°	2878.1	2930.0	3315.4	4658.1	5401.7	6047.5	6297.3	6248.0	6482.1	6616.9
62.5°	2530.9	2580.2	2930.7	3889.4	5023.0	5869.3	6486.7	6689.9	7073.9	7221.2
65°	2186.3	2228.4	2564.4	3268.0	4541.7	5691.1	6584.7	7071.9	7621.6	7774.2
67.5°	1802.3	1837.2	2154.8	2757.1	3956.5	5447.1	6633.3	7372.4	8098.3	8229.2
70°	1300.6	1327.6	1655.7	2180.4	3222.0	5027.6	6613.6	7585.5	8345.6	8450.1
72.5°	614.8	639.1	1024.5	1415.7	2275.8	4210.9	6214.5	7416.5	8094.4	8042.5
75°	328.1	349.2	588.5	776.6	1202.0	2886.6	5085.5	6388.7	6797.1	6544.6
77.5°	222.3	238.7	364.3	466.2	549.1	1370.3	3268.7	4423.3	4255.6	3838.8
80°	176.2	193.3	298.5	315.6	265.6	495.1	1350.6	2047.6	1470.9	1176.4
82.5°	135.5	154.5	251.2	228.8	144.7	203.2	393.2	647.7	376.8	286.7
85°	82.9	103.2	197.3	146.0	81.5	92.7	133.5	180.2	115.1	96.0
87.5°	42.1	59.2	99.9	53.3	36.8	21.7	35.5	35.5	30.2	26.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P949405
 CATALOG NUMBER: GALN-SB4A-930-U-T3R

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1791.2	0°	1791.2	1791.2	1791.2	1791.2	1791.2	1791.2	1791.2	1791.2	1791.2	1791.2
1782.0	2.5°	1797.7	1810.9	1833.2	1854.3	1870.7	1886.5	1902.3	1910.8	1913.5	1924.0
1791.8	5°	1818.8	1843.1	1886.5	1927.3	1952.9	1968.7	1979.9	1986.4	1987.8	1991.1
1818.8	7.5°	1857.6	1896.4	1956.9	1997.6	2016.7	2015.4	2010.8	1994.3	1987.8	1981.8
1858.2	10°	1912.1	1963.4	2037.7	2066.0	2054.2	2022.6	1981.8	1933.8	1911.5	1889.8
1912.1	12.5°	1979.9	2045.0	2118.0	2116.6	2058.1	1977.2	1882.6	1808.9	1762.2	1728.7
1978.6	15°	2062.1	2137.0	2192.9	2148.2	2020.0	1874.7	1735.9	1639.9	1597.8	1561.0
2045.6	17.5°	2146.9	2227.1	2252.8	2138.3	1924.0	1722.8	1565.6	1490.0	1448.6	1428.8
2118.0	20°	2229.7	2309.3	2288.3	2081.8	1778.0	1550.5	1410.4	1369.0	1360.5	1365.1
2188.3	22.5°	2317.2	2388.2	2295.5	1972.6	1591.9	1374.3	1297.3	1298.7	1317.7	1331.5
2262.0	25°	2406.6	2454.6	2276.4	1814.8	1392.0	1244.7	1225.7	1246.7	1284.2	1311.1
2344.8	27.5°	2492.8	2513.8	2235.0	1619.5	1220.4	1152.0	1155.3	1198.7	1255.3	1292.7
2445.4	30°	2590.1	2566.4	2155.4	1399.9	1101.4	1072.5	1100.1	1150.7	1207.3	1240.8
2572.3	32.5°	2699.9	2611.8	2029.2	1196.7	1017.2	1008.7	1054.0	1086.9	1111.9	1121.8
2740.7	35°	2836.7	2675.6	1867.4	1054.0	941.6	962.0	1005.4	989.0	979.1	973.8
2966.9	37.5°	3014.2	2761.7	1678.1	961.3	880.5	928.5	946.2	894.9	856.1	837.1
3241.0	40°	3227.9	2887.9	1495.9	889.7	841.7	899.5	868.6	806.8	757.5	730.5
3549.4	42.5°	3465.3	3020.1	1342.7	835.7	820.0	875.9	811.4	737.8	658.2	649.7
3917.0	45°	3714.5	3156.2	1238.2	794.3	809.4	855.5	778.5	659.5	603.0	637.8
4285.9	47.5°	3963.7	3281.2	1175.0	763.4	804.2	832.5	749.6	616.1	576.0	626.6
4681.1	50°	4241.2	3392.9	1146.8	741.1	798.3	823.2	706.2	604.9	547.7	581.3
5090.1	52.5°	4516.7	3479.7	1125.7	718.7	789.7	816.0	685.2	591.8	513.5	515.5
5501.7	55°	4791.5	3536.3	1102.7	689.1	770.6	800.2	683.2	577.3	487.9	478.7
5937.0	57.5°	5084.8	3568.5	1074.4	656.2	737.8	760.1	681.2	566.1	480.0	464.9
6382.1	60°	5383.3	3615.9	1037.6	616.1	693.7	712.1	676.6	562.2	475.4	449.8
6801.7	62.5°	5651.0	3632.3	993.6	578.0	637.2	664.8	666.8	558.9	462.9	418.9
7150.2	65°	5826.5	3561.3	916.6	534.6	576.0	616.1	647.7	547.7	440.6	396.5
7322.4	67.5°	5819.3	3358.7	796.3	478.7	516.8	562.2	620.1	528.7	413.6	368.9
7192.2	70°	5548.4	2959.0	643.7	413.6	451.7	504.3	584.6	500.4	381.4	338.6
6395.3	72.5°	4758.7	2315.9	467.5	337.3	376.1	444.5	538.5	466.2	348.5	311.7
4726.4	75°	3399.5	1465.7	316.9	259.1	292.6	376.8	481.3	426.1	318.3	313.0
2367.2	77.5°	1736.6	700.3	209.8	189.4	203.8	297.2	404.4	380.7	322.9	258.4
673.3	80°	564.8	258.4	132.2	128.9	135.5	197.9	313.0	312.3	244.6	175.6
163.1	82.5°	180.2	111.1	86.1	82.9	79.6	124.3	218.3	247.2	165.0	111.1
58.5	85°	71.7	66.4	50.6	46.7	33.5	58.5	114.4	164.4	123.0	80.2
15.1	87.5°	26.3	26.3	13.8	9.9	7.2	19.7	30.9	49.3	70.4	41.4
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>
1791.2
1929.9
1996.3
1983.2
1883.2
1720.8
1557.1
1434.8
1363.1
1334.8
1318.4
1301.9
1248.7
1127.0
979.1
841.7
732.5
658.2
656.2
650.3
606.3
529.3
485.3
466.9
451.7
418.9
396.5
370.9
342.6
309.7
295.2
230.1
155.2
110.5
82.2
40.8
0.0

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