

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: P947599

Luminaire Tested: **GALN-SB2D-927-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947599
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-927-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12717 lumens
Efficiency: N/A
Efficacy: 86.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

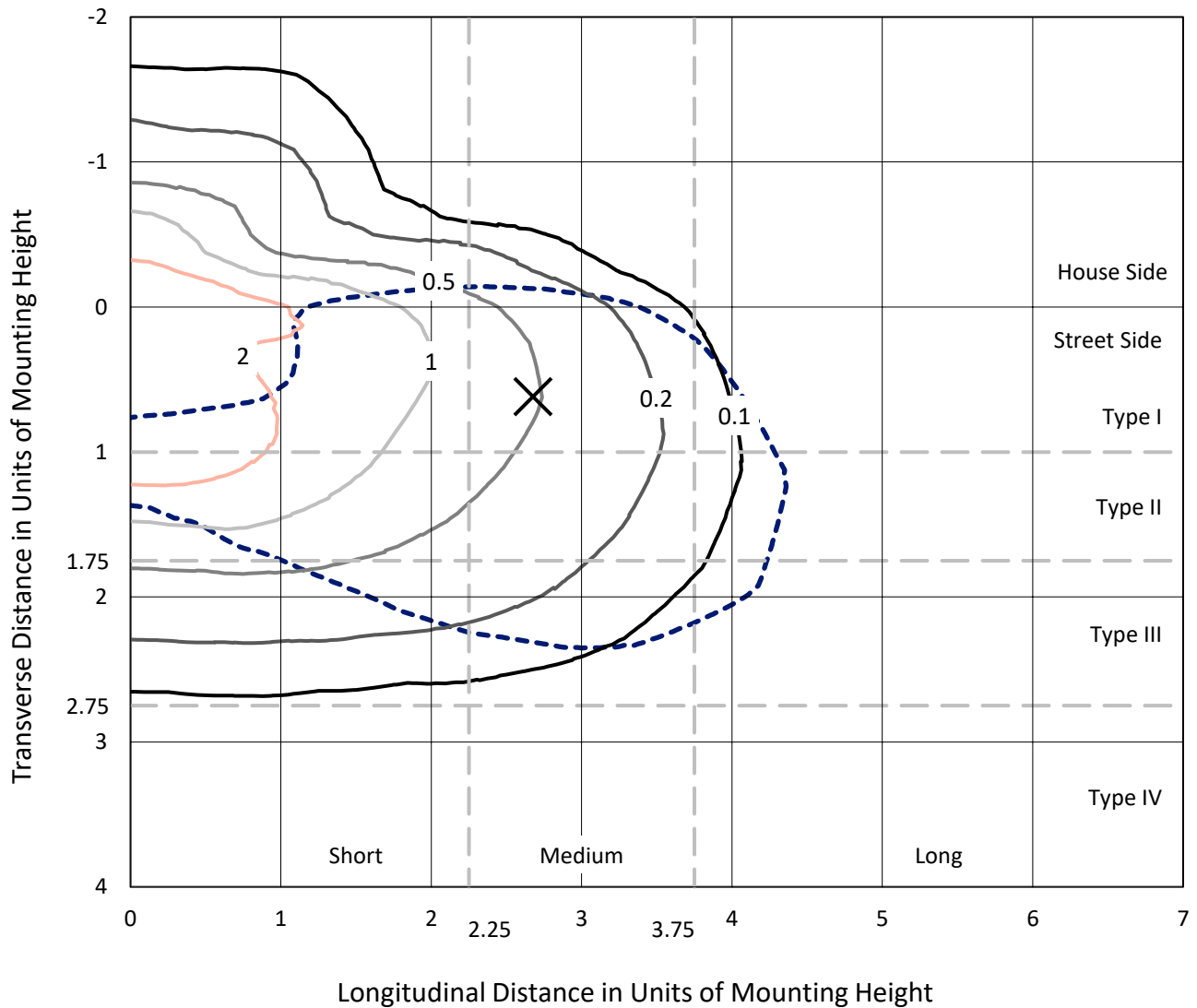
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

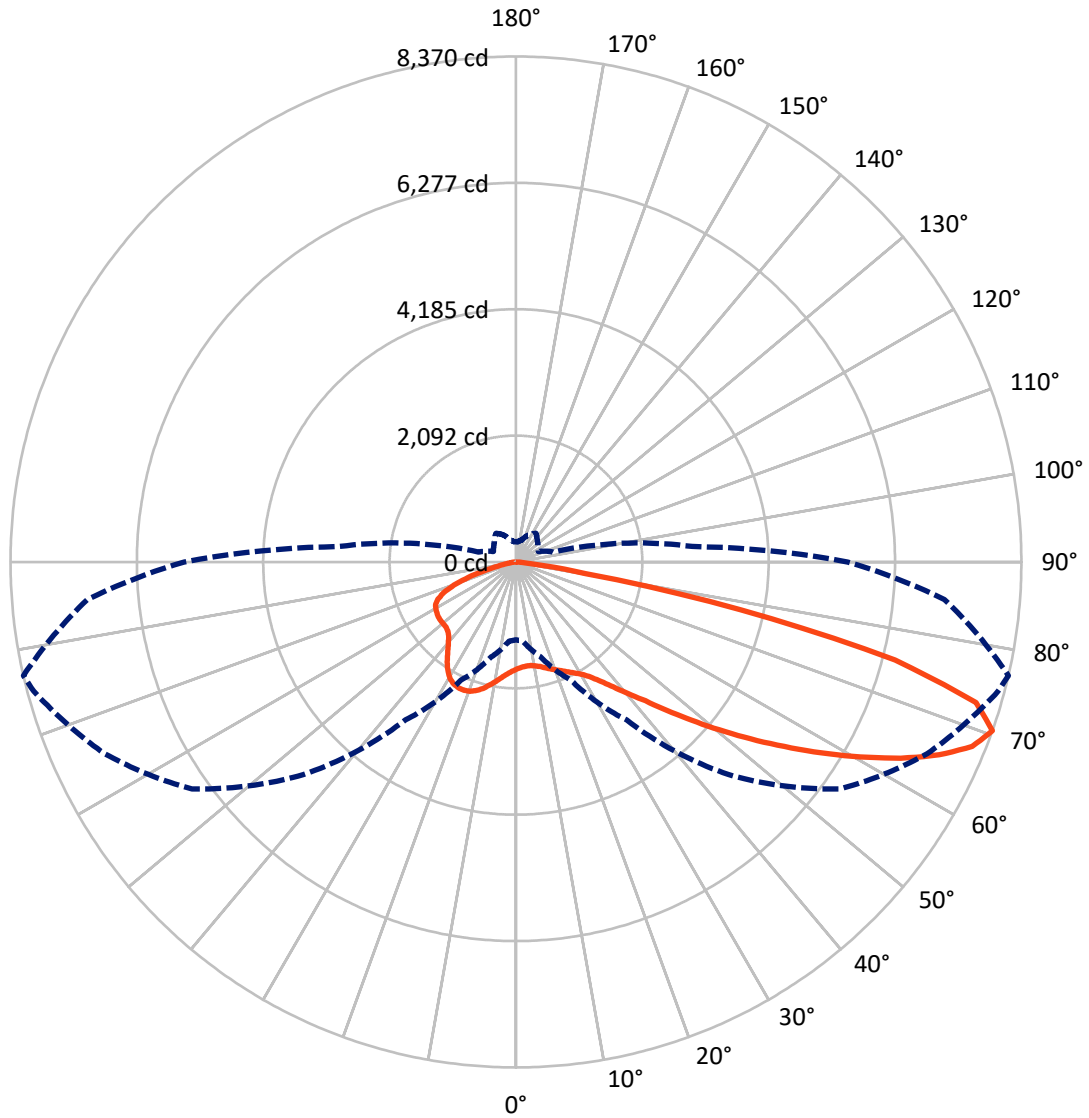
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 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	2784.8	0.0	2784.8
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	9932.2	0.0	9932.2
	% Fixture	78.1	0.0	78.1
Total	Lumens	12717.0	0.0	12717.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.2	1.3
10°-20°	488.3	3.8
20°-30°	835.1	6.6
30°-40°	1343.0	10.6
40°-50°	2096.7	16.5
50°-60°	2800.8	22.0
60°-70°	2985.2	23.5
70°-80°	1837.6	14.5
80°-90°	161.0	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°	12717.0	100.0
0°-180°	12717.0	100.0

Coefficient of Utilization



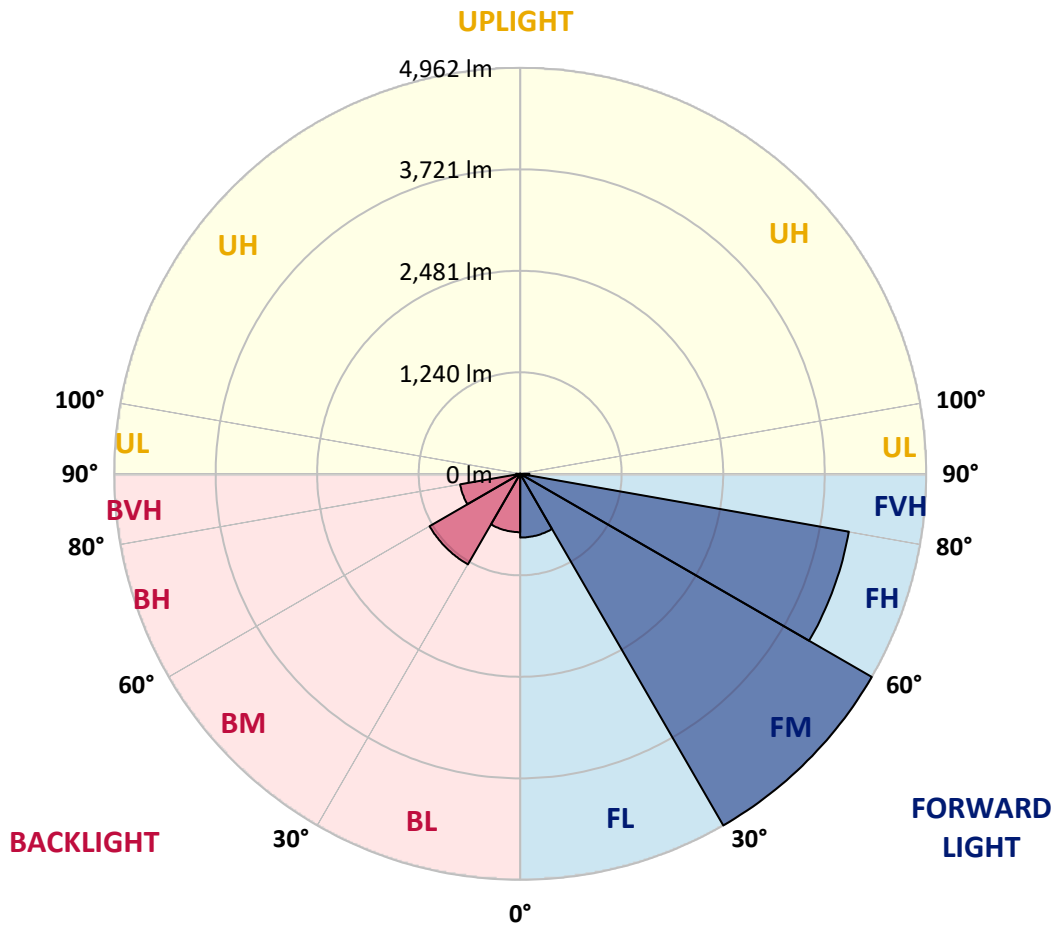
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	779.1	6.1			
FM (30°-60°)	4961.9	39.0			
FH (60°-80°)	4078.6	32.1			G2/5000
FVH (80°-90°)	112.6	0.9			G2/225
BL (0°-30°)	713.6	5.6	B2/1000		
BM (30°-60°)	1278.6	10.1	B2/2500		
BH (60°-80°)	744.3	5.9	B2/1000		G2/1000
BVH (80°-90°)	48.4	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°	1774.1	1774.1	1774.1	1774.1	1774.1	1774.1	1774.1	1774.1	1774.1	1774.1
2.5°	1635.4	1634.8	1643.2	1645.8	1661.5	1672.5	1693.4	1715.5	1744.2	1747.4
5°	1541.0	1541.0	1550.7	1561.2	1581.4	1603.5	1635.4	1673.8	1723.3	1731.2
7.5°	1460.9	1466.1	1474.5	1494.7	1518.2	1550.1	1598.9	1653.6	1718.8	1731.2
10°	1396.4	1402.2	1412.7	1428.9	1464.1	1508.4	1572.2	1642.6	1729.8	1749.4
12.5°	1376.2	1382.1	1387.9	1400.3	1432.9	1485.0	1561.2	1647.8	1756.6	1776.1
15°	1423.1	1430.3	1425.7	1422.4	1439.4	1486.9	1566.4	1666.7	1789.8	1817.8
17.5°	1531.2	1533.8	1523.4	1492.8	1490.2	1515.6	1591.1	1692.7	1831.5	1862.1
20°	1705.8	1701.2	1679.7	1619.1	1584.6	1579.4	1633.5	1731.8	1874.4	1907.0
22.5°	1942.8	1937.6	1894.6	1798.9	1722.0	1671.2	1694.7	1782.6	1922.6	1959.1
25°	2238.5	2231.3	2168.2	2037.9	1918.7	1793.0	1778.0	1849.7	1981.9	2015.8
27.5°	2583.7	2577.8	2509.5	2337.5	2165.6	1959.8	1881.6	1928.5	2043.8	2082.2
30°	2954.9	2971.9	2850.7	2665.8	2448.2	2177.3	2021.0	2025.5	2123.9	2158.4
32.5°	3391.3	3420.6	3274.7	3040.3	2743.3	2413.7	2196.8	2161.0	2240.5	2269.1
35°	3823.8	3857.0	3735.8	3476.6	3134.7	2692.5	2380.5	2316.7	2395.5	2426.7
37.5°	4197.6	4241.9	4179.4	3954.0	3553.5	3028.5	2620.2	2499.7	2586.3	2625.4
40°	4492.7	4560.4	4555.8	4415.2	4047.2	3436.3	2924.3	2725.7	2823.4	2865.7
42.5°	4732.3	4791.0	4841.8	4834.6	4562.3	3899.3	3281.9	3019.4	3093.7	3142.5
45°	4897.8	4960.3	5069.7	5187.6	5058.0	4395.0	3691.6	3367.9	3435.6	3509.2
47.5°	5045.6	5116.6	5258.6	5445.5	5478.7	4892.6	4140.3	3773.6	3835.5	3911.7
50°	5058.6	5119.9	5340.0	5605.1	5777.7	5370.6	4622.3	4228.9	4286.8	4368.3
52.5°	4744.1	4840.5	5224.7	5600.5	5915.1	5770.5	5101.0	4702.4	4767.5	4865.2
55°	3682.4	3823.8	4886.7	5426.0	5866.2	6029.1	5556.2	5205.8	5289.2	5391.5
57.5°	3171.8	3233.7	3879.1	5108.1	5643.5	6096.2	5940.5	5714.5	5848.7	5960.7
60°	2850.7	2902.2	3283.8	4613.8	5350.4	5990.0	6237.5	6188.6	6420.5	6554.0
62.5°	2506.8	2555.7	2902.8	3852.4	4975.3	5813.5	6425.1	6626.3	7006.7	7152.6
65°	2165.6	2207.3	2540.1	3237.0	4498.5	5637.0	6522.1	7004.7	7549.2	7700.3
67.5°	1785.2	1819.7	2134.3	2730.9	3918.9	5395.4	6570.3	7302.4	8021.4	8151.0
70°	1288.3	1315.0	1640.0	2159.7	3191.4	4979.8	6550.8	7513.4	8266.3	8369.8
72.5°	609.0	633.1	1014.7	1402.2	2254.1	4170.9	6155.4	7346.0	8017.5	7966.0
75°	325.0	345.8	582.9	769.2	1190.6	2859.2	5037.1	6328.0	6732.5	6482.4
77.5°	220.1	236.4	360.8	461.8	543.8	1357.3	3237.6	4381.3	4215.2	3802.3
80°	174.5	191.5	295.7	312.6	263.1	490.4	1337.8	2028.1	1457.0	1165.2
82.5°	134.2	153.1	248.8	226.7	143.3	201.3	389.5	641.5	373.2	284.0
85°	82.1	102.3	195.4	144.6	80.8	91.8	132.2	178.5	114.0	95.1
87.5°	41.7	58.6	99.0	52.8	36.5	21.5	35.2	35.2	30.0	26.1
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°
1774.1	0°	1774.1	1774.1	1774.1	1774.1	1774.1	1774.1	1774.1	1774.1	1774.1	1774.1
1765.0	2.5°	1780.7	1793.7	1815.8	1836.7	1852.9	1868.6	1884.2	1892.7	1895.3	1905.7
1774.8	5°	1801.5	1825.6	1868.6	1909.0	1934.4	1950.0	1961.1	1967.6	1968.9	1972.1
1801.5	7.5°	1839.9	1878.3	1938.3	1978.6	1997.5	1996.2	1991.7	1975.4	1968.9	1963.0
1840.6	10°	1894.0	1944.8	2018.4	2046.4	2034.7	2003.4	1963.0	1915.5	1893.3	1871.8
1894.0	12.5°	1961.1	2025.5	2097.8	2096.5	2038.6	1958.5	1864.7	1791.7	1745.5	1712.3
1959.8	15°	2042.5	2116.7	2172.1	2127.8	2000.8	1856.9	1719.4	1624.3	1582.7	1546.2
2026.2	17.5°	2126.5	2205.9	2231.3	2118.0	1905.7	1706.4	1550.7	1475.8	1434.8	1415.3
2097.8	20°	2208.6	2287.4	2266.5	2062.0	1761.1	1535.8	1397.0	1356.0	1347.5	1352.1
2167.5	22.5°	2295.2	2365.5	2273.7	1953.9	1576.8	1361.2	1285.0	1286.3	1305.2	1318.9
2240.5	25°	2383.8	2431.3	2254.8	1797.6	1378.8	1232.9	1214.0	1234.9	1272.0	1298.7
2322.5	27.5°	2469.1	2489.9	2213.8	1604.1	1208.8	1141.1	1144.3	1187.3	1243.3	1280.5
2422.2	30°	2565.5	2542.0	2135.0	1386.6	1090.9	1062.3	1089.6	1139.8	1195.8	1229.0
2547.9	32.5°	2674.2	2587.0	2009.9	1185.4	1007.6	999.1	1044.0	1076.6	1101.3	1111.1
2714.6	35°	2809.7	2650.1	1849.7	1044.0	932.7	952.8	995.8	979.6	969.8	964.6
2938.7	37.5°	2985.6	2735.5	1662.1	952.2	872.1	919.6	937.2	886.4	848.0	829.1
3210.3	40°	3197.2	2860.5	1481.7	881.2	833.7	891.0	860.4	799.1	750.3	723.6
3515.7	42.5°	3432.3	2991.4	1330.0	827.8	812.2	867.5	803.7	730.8	651.9	643.5
3879.8	45°	3679.2	3126.2	1226.4	786.8	801.7	847.3	771.1	653.3	597.2	631.8
4245.2	47.5°	3926.0	3250.0	1163.9	756.2	796.5	824.5	742.5	610.3	570.5	620.7
4636.6	50°	4200.9	3360.7	1135.9	734.0	790.7	815.4	699.5	599.2	542.5	575.7
5041.7	52.5°	4473.8	3446.7	1115.0	711.9	782.2	808.3	678.7	586.2	508.7	510.6
5449.4	55°	4746.0	3502.7	1092.2	682.6	763.3	792.6	676.7	571.8	483.3	474.1
5880.6	57.5°	5036.5	3534.6	1064.2	650.0	730.8	752.9	674.7	560.8	475.4	460.5
6321.5	60°	5332.2	3581.5	1027.7	610.3	687.1	705.4	670.2	556.9	470.9	445.5
6737.0	62.5°	5597.3	3597.8	984.1	572.5	631.1	658.5	660.4	553.6	458.5	414.9
7082.2	65°	5771.2	3527.4	907.9	529.5	570.5	610.3	641.5	542.5	436.4	392.7
7252.9	67.5°	5764.0	3326.8	788.7	474.1	511.9	556.9	614.2	523.6	409.7	365.4
7123.9	70°	5495.7	2930.8	637.6	409.7	447.4	499.5	579.0	495.6	377.8	335.4
6334.5	72.5°	4713.4	2293.9	463.1	334.1	372.5	440.3	533.4	461.8	345.2	308.7
4681.5	75°	3367.2	1451.7	313.9	256.6	289.8	373.2	476.8	422.0	315.2	310.0
2344.7	77.5°	1720.1	693.6	207.8	187.6	201.9	294.4	400.5	377.1	319.8	256.0
666.9	80°	559.5	256.0	130.9	127.7	134.2	196.0	310.0	309.4	242.3	173.9
161.5	82.5°	178.5	110.1	85.3	82.1	78.8	123.1	216.2	244.9	163.5	110.1
58.0	85°	71.0	65.8	50.1	46.2	33.2	58.0	113.3	162.8	121.8	79.5
15.0	87.5°	26.1	26.1	13.7	9.8	7.2	19.5	30.6	48.8	69.7	41.0
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>
1774.1
1911.6
1977.3
1964.3
1865.3
1704.4
1542.3
1421.1
1350.1
1322.1
1305.9
1289.6
1236.8
1116.3
969.8
833.7
725.5
651.9
650.0
644.1
600.5
524.3
480.7
462.4
447.4
414.9
392.7
367.3
339.3
306.8
292.4
228.0
153.7
109.4
81.4
40.4
0.0

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