

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: P947639

Luminaire Tested: **GALN-SB2D-935-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947639
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2D-935-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14346 lumens
Efficiency: N/A
Efficacy: 97.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

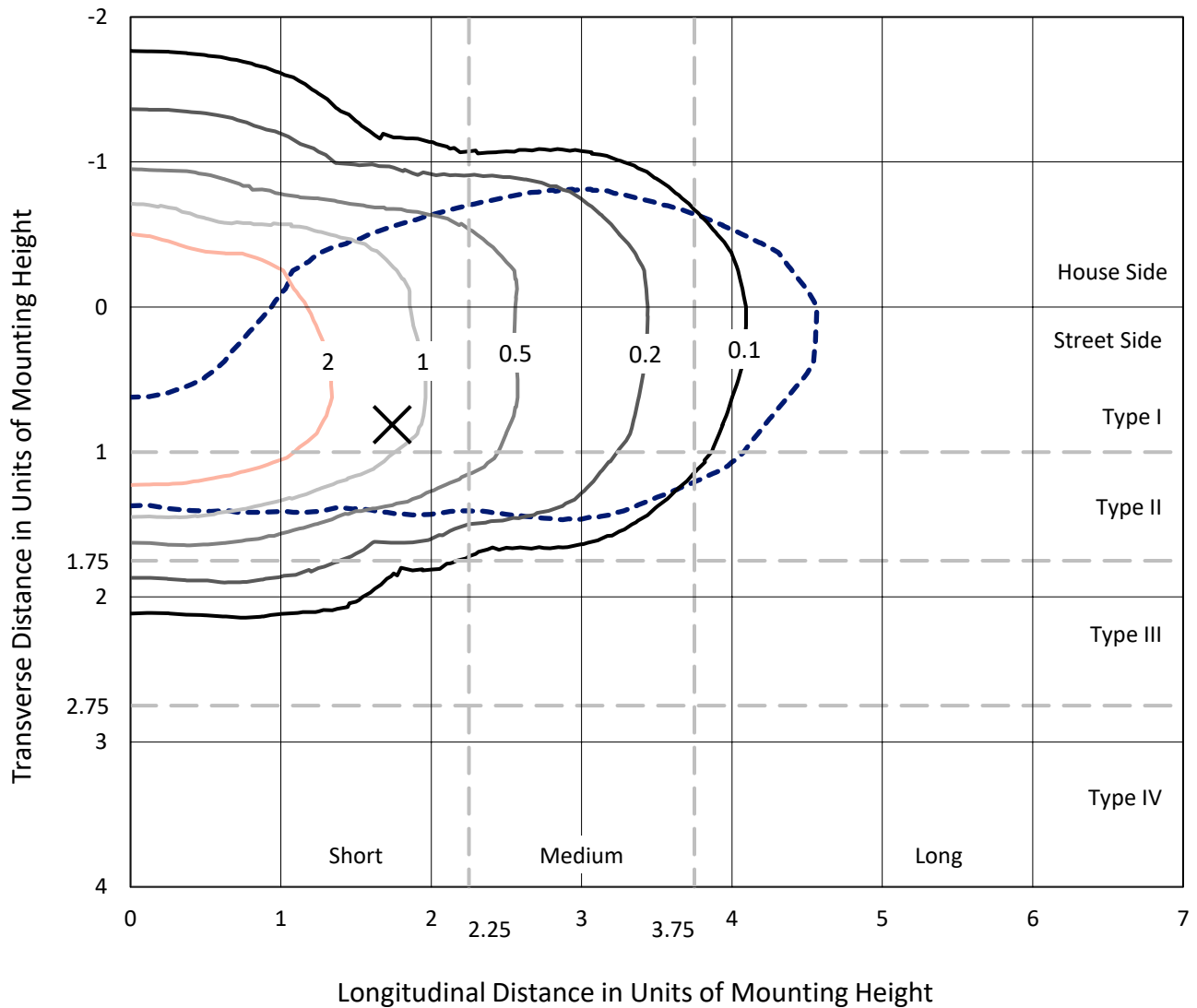
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

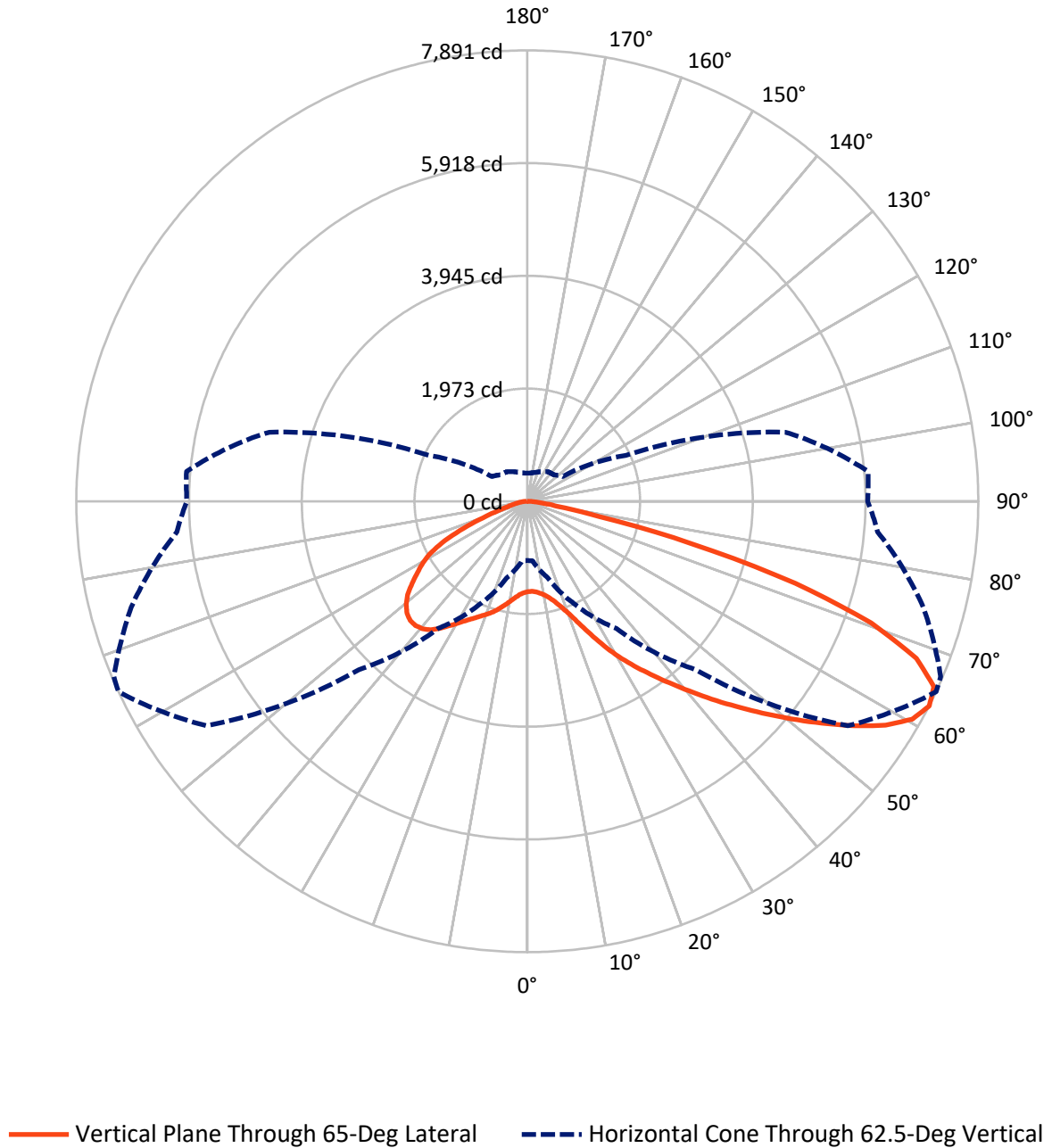
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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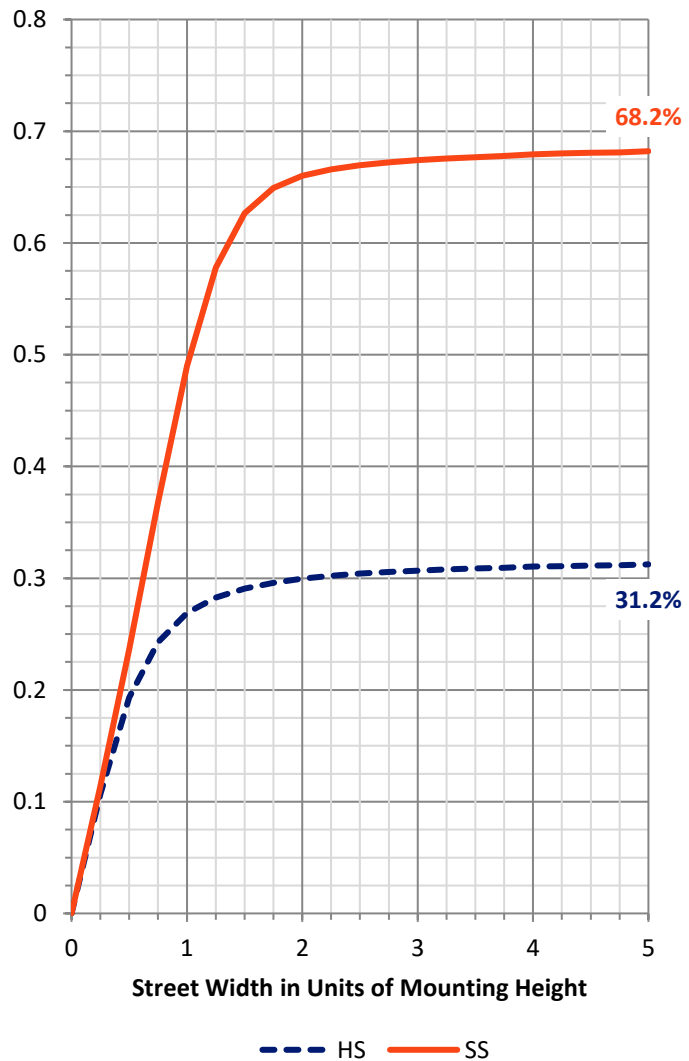
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4527.0	0.0	4527.0
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	9819.0	0.0	9819.0
	% Fixture	68.4	0.0	68.4
Total	Lumens	14346.0	0.0	14346.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.6	1.1
10°-20°	534.5	3.7
20°-30°	1083.7	7.6
30°-40°	1875.3	13.1
40°-50°	2837.9	19.8
50°-60°	3327.3	23.2
60°-70°	2789.5	19.4
70°-80°	1540.1	10.7
80°-90°	200.0	1.4
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°	14346.0	100.0
0°-180°	14346.0	100.0



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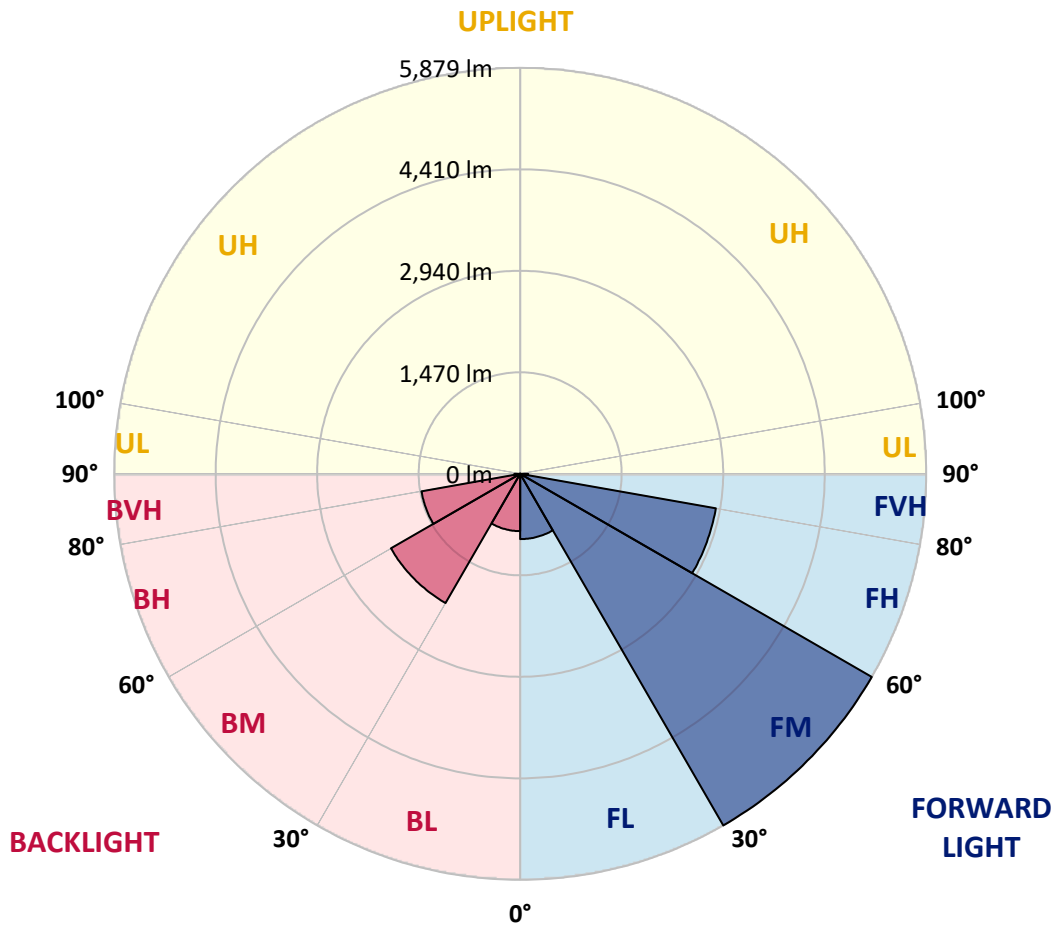
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	945.6	6.6			
FM (30°-60°)	5879.5	41.0			
FH (60°-80°)	2877.4	20.1			G2/5000
FVH (80°-90°)	116.6	0.8			G2/225
BL (0°-30°)	830.2	5.8	B2/1000		
BM (30°-60°)	2161.1	15.1	B2/2500		
BH (60°-80°)	1452.2	10.1	B3/2500		G3/2500
BVH (80°-90°)	83.5	0.6			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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	1580.9	1580.9	1580.9	1580.9	1580.9	1580.9	1580.9	1580.9	1580.9	1580.9
2.5°	1570.4	1566.0	1569.7	1569.7	1571.2	1570.4	1575.7	1577.1	1579.4	1583.8
5°	1554.8	1554.1	1560.8	1566.7	1572.7	1577.9	1584.6	1594.3	1595.8	1601.0
7.5°	1549.6	1545.1	1555.6	1563.0	1577.1	1589.8	1607.7	1624.0	1630.7	1633.0
10°	1589.8	1582.4	1592.0	1596.5	1608.4	1621.1	1641.9	1667.9	1675.4	1684.3
12.5°	1658.3	1650.1	1664.2	1670.9	1682.1	1693.3	1707.4	1732.7	1736.4	1752.8
15°	1752.1	1742.4	1751.3	1759.5	1778.1	1788.5	1802.7	1827.2	1827.2	1839.9
17.5°	1879.3	1866.7	1873.4	1876.3	1888.3	1903.9	1927.7	1949.3	1960.5	1956.0
20°	2069.1	2053.5	2053.5	2038.6	2034.1	2046.8	2078.1	2107.8	2119.7	2096.7
22.5°	2354.2	2331.9	2319.2	2268.6	2248.5	2250.0	2281.2	2317.7	2327.4	2286.5
25°	2716.6	2681.7	2664.5	2590.1	2544.7	2505.3	2529.8	2576.7	2590.1	2539.5
27.5°	3079.1	3081.4	3065.0	2975.7	2900.5	2828.3	2815.6	2864.8	2878.9	2821.6
30°	3587.5	3534.6	3503.4	3396.2	3289.0	3187.8	3135.7	3155.8	3159.5	3091.0
32.5°	4025.9	4012.5	3945.5	3851.7	3714.0	3555.5	3468.4	3436.4	3430.4	3332.9
35°	4525.3	4517.8	4447.1	4335.5	4186.6	3966.3	3809.3	3717.7	3710.3	3573.3
37.5°	5032.9	5032.9	4963.7	4841.6	4687.5	4412.1	4173.2	4028.1	4004.3	3825.6
40°	5437.8	5413.2	5425.9	5374.5	5198.1	4905.6	4577.4	4366.7	4334.7	4120.4
42.5°	5667.8	5659.6	5735.5	5792.8	5720.6	5486.9	5022.5	4733.7	4689.0	4444.9
45°	5719.1	5710.2	5845.6	6055.5	6156.7	6060.7	5506.2	5120.0	5065.6	4784.3
47.5°	5600.8	5582.9	5781.6	6112.8	6437.3	6606.3	6030.2	5539.0	5460.1	5114.7
50°	5245.0	5227.9	5528.6	5968.4	6531.9	6977.0	6598.9	5983.3	5862.8	5469.0
52.5°	4471.7	4479.9	4951.0	5555.4	6407.6	7207.7	7088.6	6451.5	6306.3	5831.5
55°	3483.3	3501.1	4080.2	4745.6	5910.4	7172.7	7422.8	6933.8	6789.4	6172.4
57.5°	2494.1	2573.0	3115.6	3774.3	4955.5	6618.2	7495.7	7392.3	7252.3	6544.5
60°	1616.6	1630.7	2189.0	2852.9	3773.5	5632.8	7347.6	7739.8	7630.4	6924.1
62.5°	1036.0	1045.7	1385.9	1995.4	2715.9	4167.3	6848.9	7890.9	7857.4	7174.9
65°	761.4	754.0	931.1	1318.9	1829.5	2570.0	5880.6	7818.0	7884.2	7332.0
67.5°	635.6	625.2	712.3	913.2	1347.9	1459.5	4351.1	7343.9	7586.5	7314.1
70°	579.1	570.1	623.0	678.0	1051.7	977.2	2193.4	6384.5	6758.1	7110.9
72.5°	490.5	474.9	547.1	602.1	818.0	749.5	906.5	4904.1	5359.6	6459.7
75°	380.3	369.9	431.7	529.9	614.8	585.0	573.1	2977.9	3475.1	4995.7
77.5°	301.4	287.3	343.9	413.1	553.0	441.4	417.5	1282.4	1775.1	3189.3
80°	227.0	214.4	261.2	326.7	425.0	332.7	270.2	523.2	669.1	1615.8
82.5°	161.5	150.3	182.4	239.7	285.8	298.5	166.0	293.2	329.7	623.0
85°	103.5	96.8	122.1	150.3	181.6	192.0	101.2	153.3	168.2	256.8
87.5°	56.6	46.1	65.5	70.0	84.1	76.7	48.4	55.8	60.3	93.0
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°
1580.9	0°	1580.9	1580.9	1580.9	1580.9	1580.9	1580.9	1580.9	1580.9	1580.9	1580.9
1583.8	2.5°	1586.8	1589.1	1596.5	1598.7	1603.9	1610.6	1615.1	1619.6	1619.6	1624.0
1607.7	5°	1608.4	1613.6	1629.2	1637.4	1650.8	1664.2	1672.4	1682.1	1688.0	1691.0
1645.6	7.5°	1650.1	1658.3	1680.6	1694.7	1717.8	1736.4	1749.1	1762.5	1765.5	1773.6
1698.5	10°	1706.7	1716.3	1741.6	1768.4	1796.0	1819.0	1830.9	1840.6	1844.3	1845.8
1766.2	12.5°	1771.4	1785.5	1818.3	1851.0	1880.1	1900.2	1903.1	1900.9	1890.5	1881.6
1849.6	15°	1851.0	1863.7	1900.2	1935.9	1964.2	1967.9	1949.3	1937.4	1924.7	1922.5
1942.6	17.5°	1946.3	1953.0	1986.5	2021.5	2023.7	2011.1	1983.5	1972.4	1960.5	1952.3
2063.9	20°	2057.2	2055.0	2078.8	2093.7	2078.1	2039.3	1997.7	1979.1	1967.2	1957.5
2212.8	22.5°	2189.7	2172.6	2169.6	2165.9	2124.2	2043.1	1986.5	1962.7	1944.1	1930.7
2420.4	25°	2382.5	2317.0	2271.6	2246.3	2152.5	2023.0	1950.8	1897.9	1863.0	1839.9
2674.2	27.5°	2623.6	2513.5	2398.8	2337.1	2152.5	1982.0	1864.4	1778.8	1721.5	1697.7
2919.8	30°	2853.6	2738.2	2569.3	2446.5	2147.3	1915.1	1725.3	1606.2	1539.2	1515.4
3129.7	32.5°	3050.1	2924.3	2750.1	2566.3	2134.6	1806.4	1552.6	1420.8	1356.1	1327.8
3337.4	35°	3232.4	3098.5	2931.7	2698.0	2101.1	1647.1	1362.8	1262.3	1190.1	1144.7
3548.8	37.5°	3419.3	3260.0	3103.7	2817.1	2040.8	1461.0	1216.9	1131.3	1046.5	985.4
3773.5	40°	3622.4	3431.9	3287.5	2887.8	1941.8	1283.9	1103.8	1025.6	935.6	870.8
4032.6	42.5°	3859.9	3638.1	3492.2	2924.3	1806.4	1158.1	1030.1	953.4	868.6	815.7
4310.2	45°	4107.7	3865.1	3679.0	2923.6	1655.3	1099.3	1006.3	930.4	836.6	781.5
4595.2	47.5°	4367.5	4102.5	3840.5	2875.9	1524.3	1107.5	992.9	880.5	777.0	723.4
4883.3	50°	4628.0	4362.3	3996.8	2786.6	1468.5	1089.6	943.0	810.5	688.5	640.1
5153.4	52.5°	4886.2	4638.4	4131.5	2659.3	1411.9	1023.4	879.0	719.7	652.0	618.5
5432.6	55°	5146.0	4911.6	4278.2	2474.0	1270.5	946.0	771.8	685.5	623.0	592.5
5705.7	57.5°	5406.5	5227.1	4417.3	2288.7	1092.6	850.7	713.0	643.8	593.9	567.9
5934.2	60°	5677.4	5588.1	4561.0	2118.2	917.0	728.7	669.9	610.3	559.7	530.7
6153.8	62.5°	5956.5	5985.6	4673.4	1898.7	755.5	654.2	631.2	570.1	521.0	493.5
6335.4	65°	6237.9	6368.9	4747.1	1594.3	612.5	583.5	589.5	526.2	476.3	452.5
6468.6	67.5°	6450.0	6645.0	4726.2	1206.5	502.4	516.5	537.4	480.1	433.2	414.6
6447.0	70°	6473.8	6612.3	4520.8	826.2	420.5	451.0	479.3	434.7	386.3	372.9
6143.4	72.5°	6156.7	6165.7	3948.4	539.6	355.8	396.0	418.3	388.5	341.6	328.2
5374.5	75°	5325.4	5099.1	2899.0	355.8	297.7	340.1	361.0	340.1	294.7	297.7
4021.4	77.5°	4034.8	3611.3	1760.2	253.1	248.6	285.8	314.1	299.2	260.5	292.5
2022.2	80°	2078.8	1953.8	785.2	189.0	196.5	228.5	258.3	238.9	206.2	196.5
451.8	82.5°	476.3	553.8	309.6	135.5	142.2	164.5	197.2	179.4	148.1	125.0
188.3	85°	166.7	182.4	136.9	84.8	83.4	102.7	134.0	119.8	100.5	80.4
79.6	87.5°	52.8	69.2	51.4	34.2	35.7	46.1	61.8	56.6	46.9	30.5
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>
1580.9
1624.0
1692.5
1770.7
1842.1
1881.6
1922.5
1953.0
1958.2
1935.1
1848.8
1709.6
1529.5
1342.0
1159.6
1001.8
883.5
826.2
790.4
730.9
643.1
618.5
589.5
563.4
528.4
492.7
451.8
415.3
373.6
327.5
287.3
257.5
179.4
123.6
84.8
32.0
0.0

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