

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: P947786

Luminaire Tested: **GALN-SB3A-740-U-T2U**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P947786  
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-SB3A-740-U-T2U  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

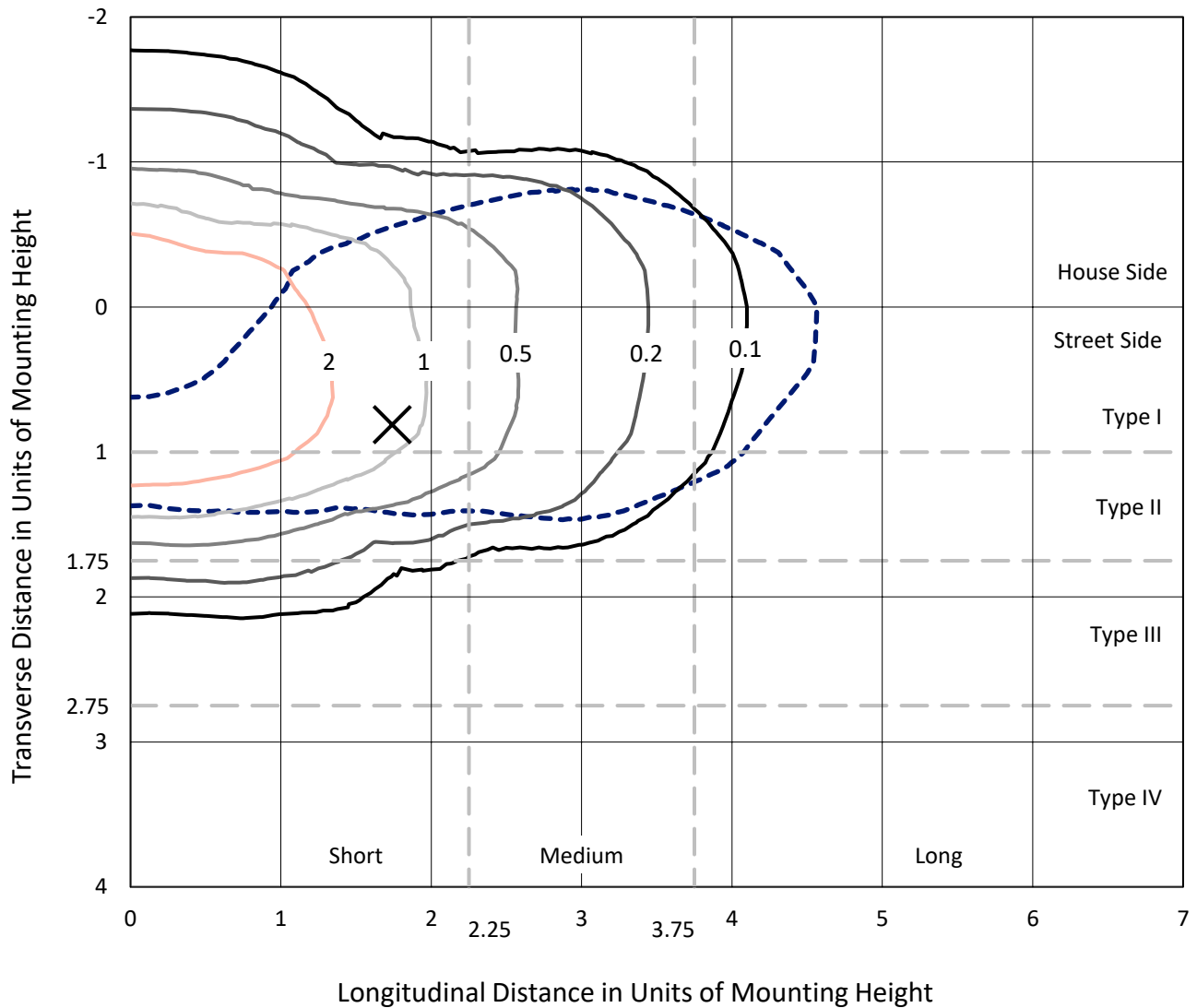
Lumens per Lamp: N/A  
Luminaire Lumens: 14430 lumens  
Efficiency: N/A  
Efficacy: 170.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 84.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

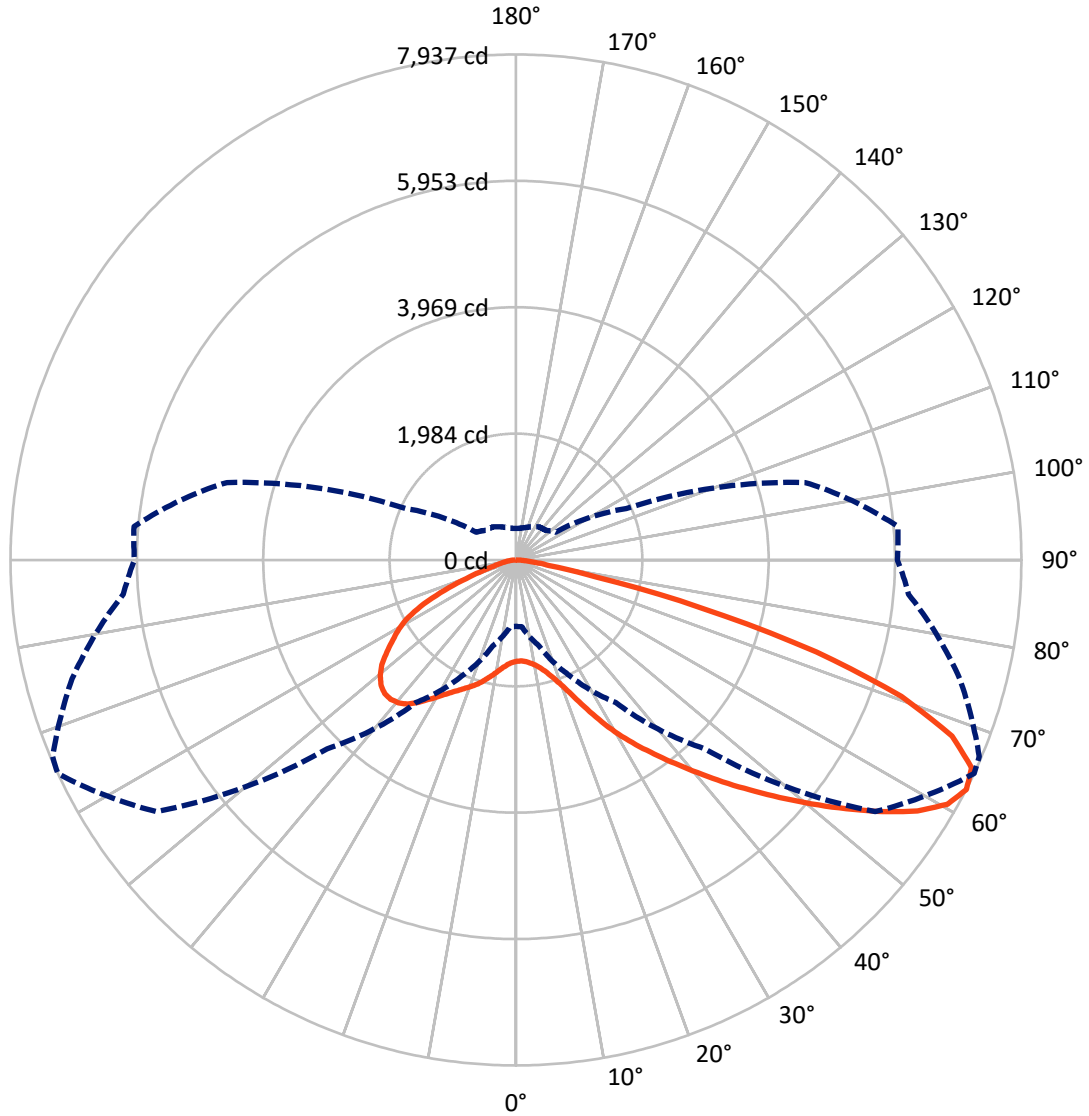
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 62.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4553.5	0.0	4553.5
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	9876.5	0.0	9876.5
	% Fixture	68.4	0.0	68.4
<b>Total</b>	Lumens	14430.0	0.0	14430.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	158.5	1.1
10°-20°	537.6	3.7
20°-30°	1090.0	7.6
30°-40°	1886.3	13.1
40°-50°	2854.6	19.8
50°-60°	3346.8	23.2
60°-70°	2805.9	19.4
70°-80°	1549.1	10.7
80°-90°	201.2	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°	14430.0	100.0
0°-180°	14430.0	100.0



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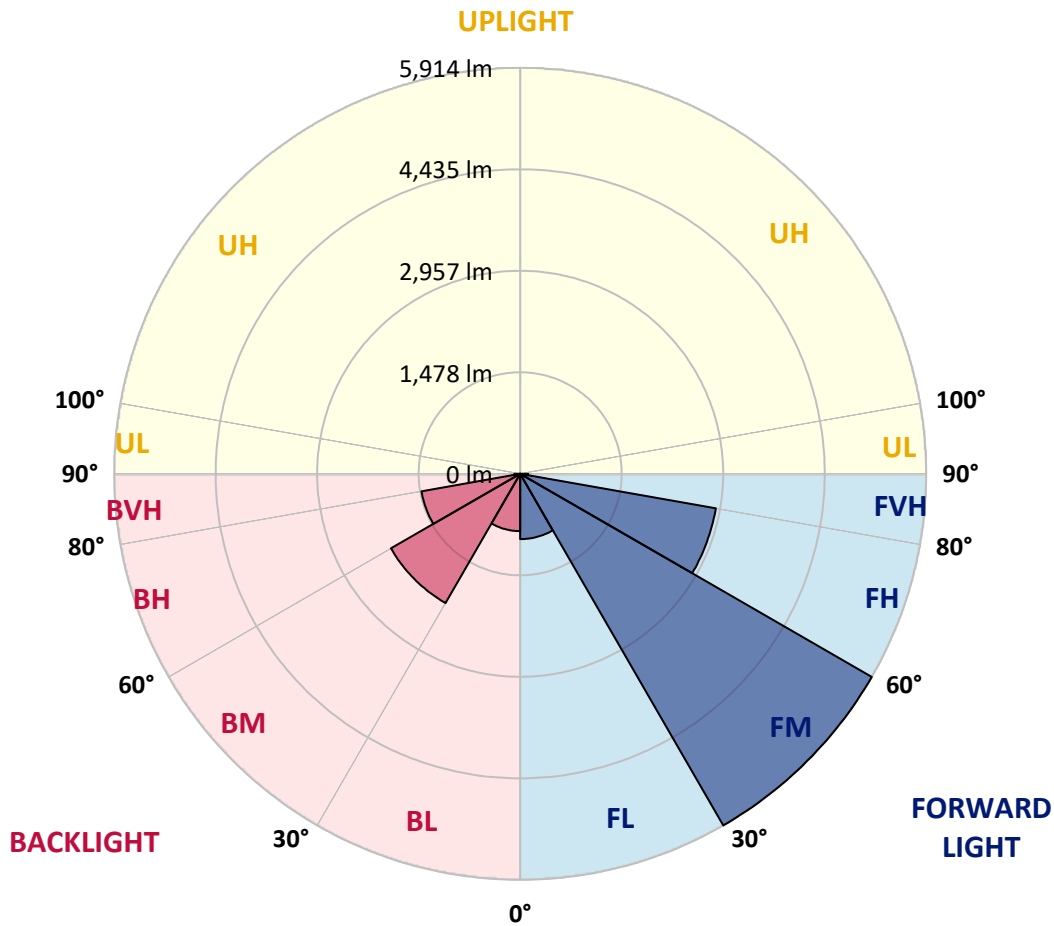
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	951.1	6.6			
FM (30°-60°)	5913.9	41.0			
FH (60°-80°)	2894.2	20.1			G2/5000
FVH (80°-90°)	117.3	0.8			G2/225
BL (0°-30°)	835.1	5.8	B2/1000		
BM (30°-60°)	2173.8	15.1	B2/2500		
BH (60°-80°)	1460.7	10.1	B3/2500		G3/2500
BVH (80°-90°)	83.9	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°	1590.1	1590.1	1590.1	1590.1	1590.1	1590.1	1590.1	1590.1	1590.1	1590.1
2.5°	1579.6	1575.2	1578.9	1578.9	1580.4	1579.6	1584.9	1586.4	1588.6	1593.1
5°	1563.9	1563.2	1569.9	1575.9	1581.9	1587.1	1593.9	1603.6	1605.1	1610.3
7.5°	1558.7	1554.2	1564.7	1572.2	1586.4	1599.1	1617.1	1633.5	1640.3	1642.5
10°	1599.1	1591.6	1601.4	1605.8	1617.8	1630.6	1651.5	1677.7	1685.2	1694.2
12.5°	1668.0	1659.7	1674.0	1680.7	1691.9	1703.2	1717.4	1742.8	1746.6	1763.1
15°	1762.3	1752.6	1761.6	1769.8	1788.5	1799.0	1813.2	1837.9	1837.9	1850.7
17.5°	1890.3	1877.6	1884.3	1887.3	1899.3	1915.0	1939.0	1960.7	1971.9	1967.4
20°	2081.2	2065.5	2065.5	2050.5	2046.0	2058.8	2090.2	2120.2	2132.1	2108.9
22.5°	2368.0	2345.5	2332.8	2281.9	2261.7	2263.2	2294.6	2331.3	2341.0	2299.8
25°	2732.6	2697.4	2680.2	2605.3	2559.6	2519.9	2544.6	2591.8	2605.3	2554.4
27.5°	3097.1	3099.4	3082.9	2993.1	2917.5	2844.9	2832.1	2881.5	2895.8	2838.1
30°	3608.5	3555.3	3523.9	3416.1	3308.3	3206.4	3154.0	3174.3	3178.0	3109.1
32.5°	4049.4	4035.9	3968.6	3874.2	3735.7	3576.3	3488.7	3456.5	3450.5	3352.4
35°	4551.8	4544.3	4473.2	4360.9	4211.1	3989.5	3831.6	3739.5	3732.0	3594.2
37.5°	5062.3	5062.3	4992.7	4869.9	4715.0	4438.0	4197.7	4051.7	4027.7	3848.0
40°	5469.6	5444.9	5457.6	5406.0	5228.5	4934.3	4604.2	4392.3	4360.1	4144.5
42.5°	5700.9	5692.7	5769.1	5826.7	5754.1	5519.0	5051.9	4761.4	4716.5	4470.9
45°	5752.6	5743.6	5879.9	6091.0	6192.8	6096.2	5538.5	5149.9	5095.3	4812.3
47.5°	5633.6	5615.6	5815.5	6148.6	6475.0	6645.0	6065.5	5571.4	5492.1	5144.7
50°	5275.7	5258.5	5560.9	6003.4	6570.1	7017.8	6637.5	6018.4	5897.1	5501.0
52.5°	4497.9	4506.1	4980.0	5587.9	6445.1	7249.9	7130.1	6489.3	6343.3	5865.6
55°	3503.7	3521.6	4104.1	4773.4	5945.0	7214.7	7466.2	6974.4	6829.1	6208.5
57.5°	2508.7	2588.1	3133.8	3796.4	4984.5	6657.0	7539.6	7435.5	7294.8	6582.8
60°	1626.1	1640.3	2201.8	2869.6	3795.6	5665.8	7390.6	7785.2	7675.1	6964.7
62.5°	1042.1	1051.8	1394.0	2007.1	2731.8	4191.7	6889.0	7937.1	7903.5	7216.9
65°	765.9	758.4	936.6	1326.6	1840.2	2585.1	5915.0	7863.8	7930.4	7374.9
67.5°	639.3	628.9	716.5	918.6	1355.8	1468.1	4376.6	7386.9	7630.9	7356.9
70°	582.4	573.5	626.6	682.0	1057.8	983.0	2206.3	6421.9	6797.7	7152.6
72.5°	493.4	477.6	550.3	605.7	822.8	753.9	911.9	4932.8	5391.0	6497.5
75°	382.6	372.1	434.2	533.0	618.4	588.4	576.5	2995.3	3495.4	5024.9
77.5°	303.2	289.0	345.9	415.5	556.2	443.9	420.0	1289.9	1785.5	3207.9
80°	228.3	215.6	262.8	328.7	427.5	334.6	271.8	526.3	673.0	1625.3
82.5°	162.5	151.2	183.4	241.1	287.5	300.2	166.9	295.0	331.7	626.6
85°	104.1	97.3	122.8	151.2	182.7	193.2	101.8	154.2	169.2	258.3
87.5°	56.9	46.4	65.9	70.4	84.6	77.1	48.7	56.1	60.6	93.6
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°
1590.1	0°	1590.1	1590.1	1590.1	1590.1	1590.1	1590.1	1590.1	1590.1	1590.1	1590.1
1593.1	2.5°	1596.1	1598.4	1605.8	1608.1	1613.3	1620.1	1624.6	1629.1	1629.1	1633.5
1617.1	5°	1617.8	1623.1	1638.8	1647.0	1660.5	1674.0	1682.2	1691.9	1697.9	1700.9
1655.3	7.5°	1659.7	1668.0	1690.4	1704.7	1727.9	1746.6	1759.3	1772.8	1775.8	1784.0
1708.4	10°	1716.6	1726.4	1751.8	1778.8	1806.5	1829.7	1841.7	1851.4	1855.1	1856.6
1776.5	12.5°	1781.8	1796.0	1828.9	1861.9	1891.1	1911.3	1914.3	1912.0	1901.6	1892.6
1860.4	15°	1861.9	1874.6	1911.3	1947.2	1975.7	1979.4	1960.7	1948.7	1936.0	1933.8
1954.0	17.5°	1957.7	1964.4	1998.1	2033.3	2035.6	2022.8	1995.1	1983.9	1971.9	1963.7
2076.0	20°	2069.3	2067.0	2091.0	2105.9	2090.2	2051.3	2009.4	1990.6	1978.7	1968.9
2225.7	22.5°	2202.5	2185.3	2182.3	2178.6	2136.6	2055.0	1998.1	1974.2	1955.5	1942.0
2434.6	25°	2396.4	2330.5	2284.9	2259.4	2165.1	2034.8	1962.2	1909.0	1873.9	1850.7
2689.9	27.5°	2639.0	2528.2	2412.9	2350.7	2165.1	1993.6	1875.4	1789.3	1731.6	1707.7
2936.9	30°	2870.3	2754.3	2584.3	2460.8	2159.8	1926.3	1735.4	1615.6	1548.2	1524.2
3148.1	32.5°	3068.0	2941.4	2766.2	2581.3	2147.1	1817.0	1561.7	1429.2	1364.0	1335.6
3356.9	35°	3251.4	3116.6	2948.9	2713.8	2113.4	1656.8	1370.8	1269.7	1197.1	1151.4
3569.5	37.5°	3439.3	3279.1	3121.9	2833.6	2052.8	1469.6	1224.0	1137.9	1052.6	991.2
3795.6	40°	3643.7	3452.0	3306.8	2904.7	1953.2	1291.4	1110.2	1031.6	941.0	875.9
4056.2	42.5°	3882.5	3659.4	3512.6	2941.4	1817.0	1164.9	1036.1	959.0	873.7	820.5
4335.4	45°	4131.8	3887.7	3700.6	2940.7	1665.0	1105.7	1012.2	935.8	841.5	786.1
4622.1	47.5°	4393.1	4126.5	3863.0	2892.8	1533.2	1114.0	998.7	885.6	781.6	727.7
4911.9	50°	4655.1	4387.8	4020.2	2802.9	1477.1	1096.0	948.5	815.3	692.5	643.8
5183.6	52.5°	4914.9	4665.6	4155.7	2674.9	1420.2	1029.4	884.2	723.9	655.8	622.1
5464.4	55°	5176.1	4940.3	4303.2	2488.5	1277.9	951.5	776.3	689.5	626.6	595.9
5739.1	57.5°	5438.2	5257.7	4443.2	2302.1	1099.0	855.7	717.2	647.6	597.4	571.2
5969.0	60°	5710.7	5620.8	4587.7	2130.6	922.3	732.9	673.8	613.9	563.0	533.8
6189.8	62.5°	5991.4	6020.6	4700.7	1909.8	759.9	658.1	634.9	573.5	524.1	496.4
6372.5	65°	6274.4	6406.2	4774.9	1603.6	616.1	586.9	592.9	529.3	479.1	455.2
6506.5	67.5°	6487.8	6683.9	4753.9	1213.6	505.3	519.6	540.5	482.9	435.7	417.0
6484.8	70°	6511.7	6651.0	4547.3	831.0	423.0	453.7	482.1	437.2	388.5	375.1
6179.3	72.5°	6192.8	6201.8	3971.6	542.8	357.9	398.3	420.7	390.8	343.6	330.2
5406.0	75°	5356.6	5129.0	2916.0	357.9	299.5	342.1	363.1	342.1	296.5	299.5
4044.9	77.5°	4058.4	3632.4	1770.5	254.5	250.0	287.5	315.9	301.0	262.0	294.2
2034.1	80°	2091.0	1965.2	789.8	190.2	197.6	229.8	259.8	240.3	207.4	197.6
454.4	82.5°	479.1	557.0	311.4	136.3	143.0	165.5	198.4	180.4	149.0	125.8
189.4	85°	167.7	183.4	137.8	85.3	83.8	103.3	134.8	120.5	101.1	80.9
80.1	87.5°	53.2	69.6	51.7	34.4	35.9	46.4	62.1	56.9	47.2	30.7
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>
1590.1
1633.5
1702.4
1781.0
1852.9
1892.6
1933.8
1964.4
1969.7
1946.5
1859.6
1719.6
1538.5
1349.8
1166.4
1007.7
888.6
831.0
795.1
735.2
646.8
622.1
592.9
566.7
531.5
495.6
454.4
417.7
375.8
329.4
289.0
259.0
180.4
124.3
85.3
32.2
0.0

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