

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: P947051

Luminaire Tested: **GALN-SB2C-735-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947051
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-SB2C-735-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15178 lumens
Efficiency: N/A
Efficacy: 150.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

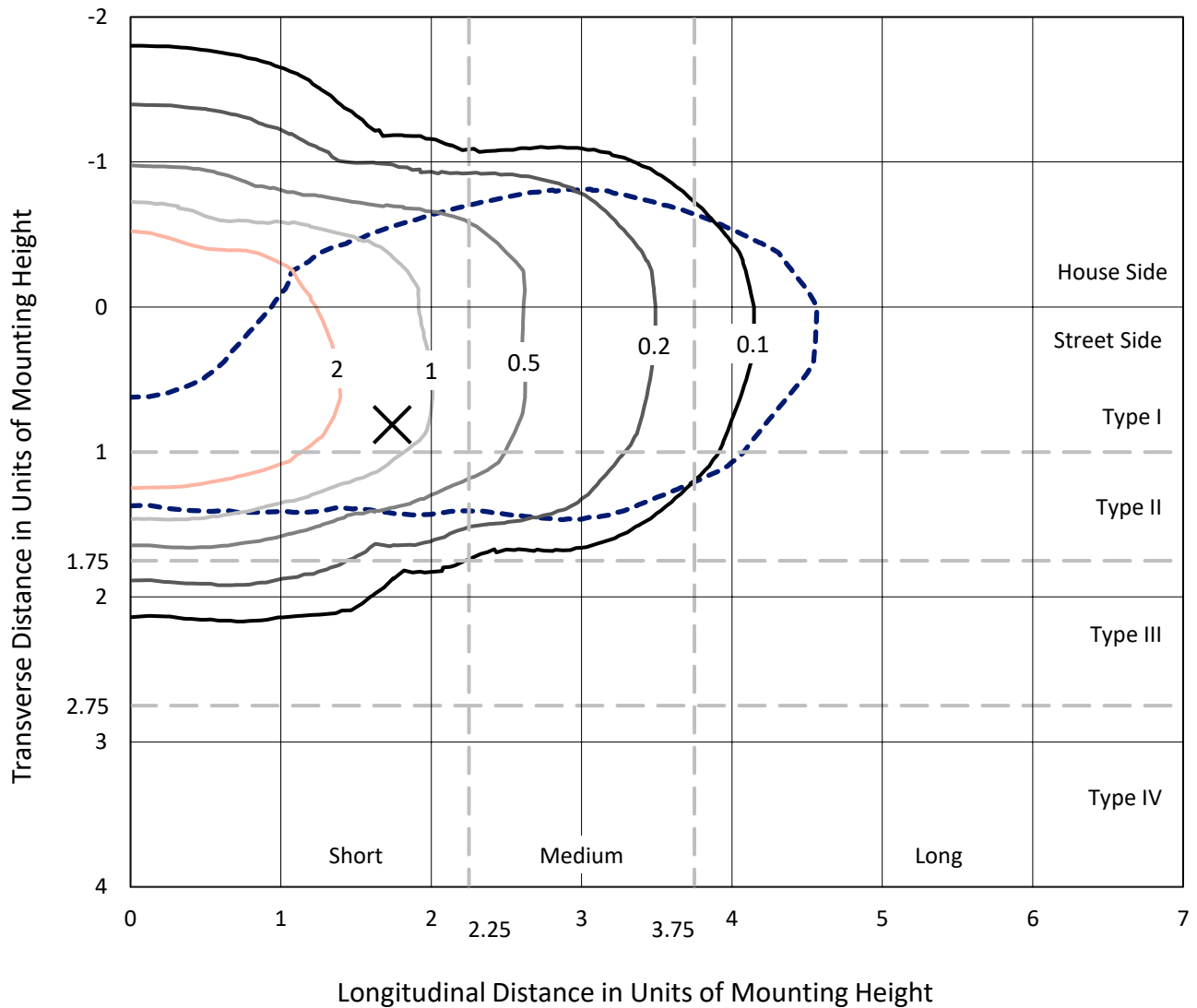
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

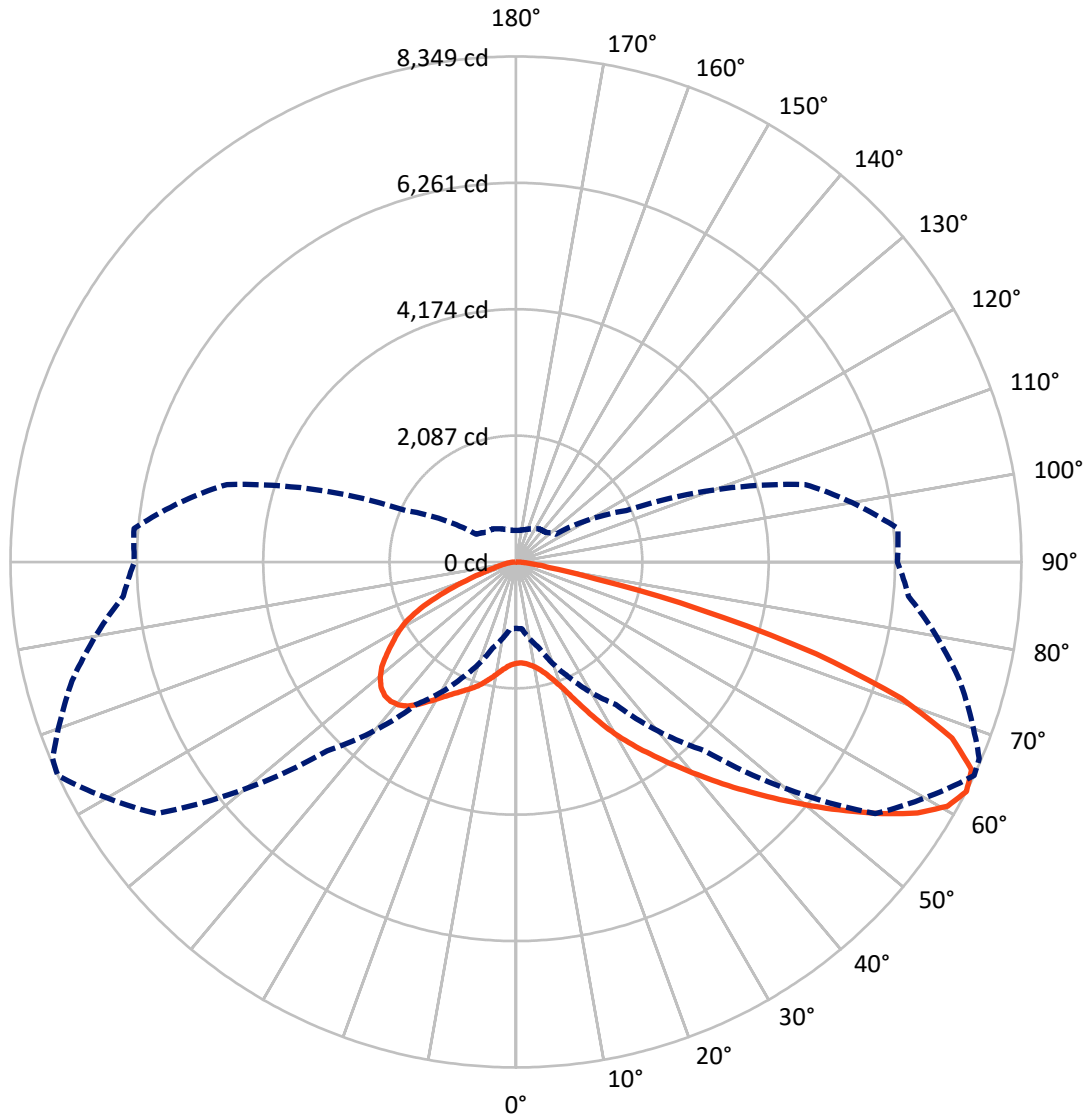
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 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
House Side	Lumens	4789.5	0.0	4789.5
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	10388.5	0.0	10388.5
	% Fixture	68.4	0.0	68.4
Total	Lumens	15178.0	0.0	15178.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.8	1.1
10°-20°	565.5	3.7
20°-30°	1146.5	7.6
30°-40°	1984.1	13.1
40°-50°	3002.5	19.8
50°-60°	3520.3	23.2
60°-70°	2951.3	19.4
70°-80°	1629.4	10.7
80°-90°	211.7	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°	15178.0	100.0
0°-180°	15178.0	100.0



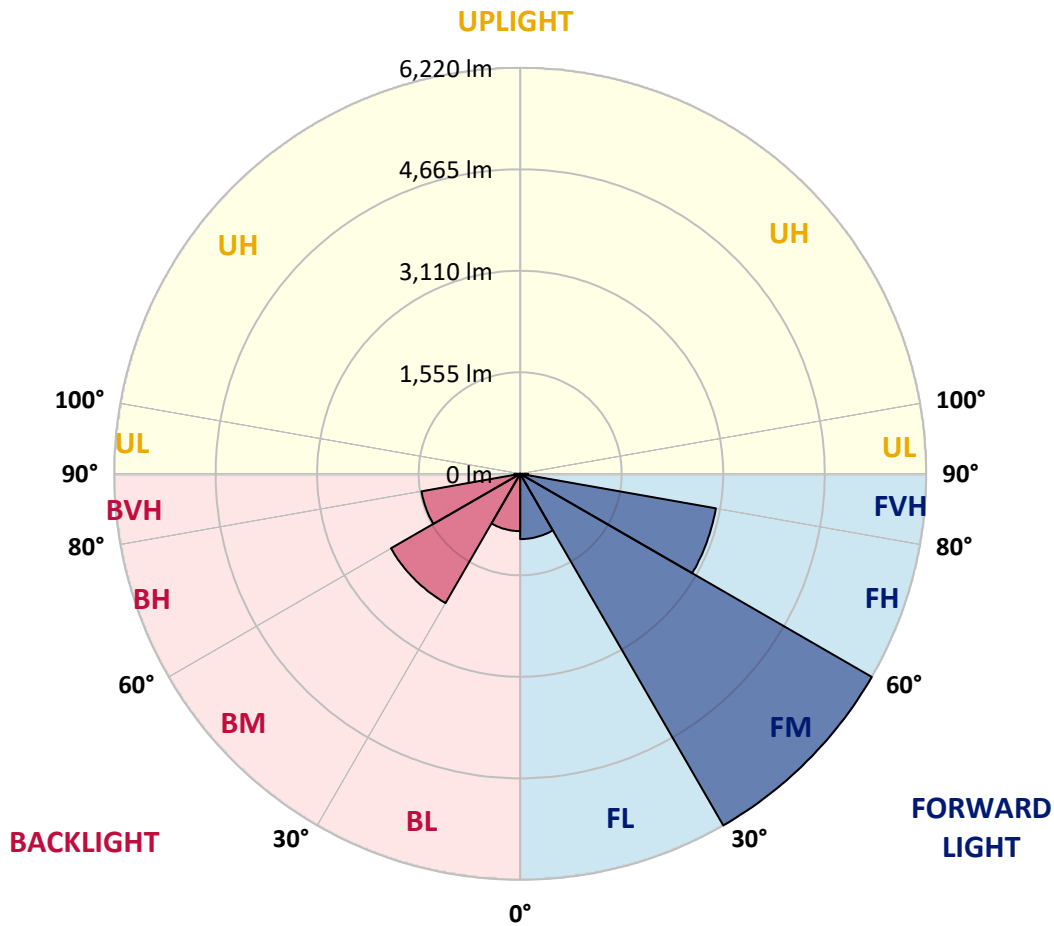
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1000.4	6.6			
FM (30°-60°)	6220.4	41.0			
FH (60°-80°)	3044.3	20.1			G2/5000
FVH (80°-90°)	123.4	0.8			G2/225
BL (0°-30°)	878.3	5.8	B2/1000		
BM (30°-60°)	2286.4	15.1	B2/2500		
BH (60°-80°)	1536.4	10.1	B3/2500		G3/2500
BVH (80°-90°)	88.3	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°	1672.5	1672.5	1672.5	1672.5	1672.5	1672.5	1672.5	1672.5	1672.5	1672.5
2.5°	1661.5	1656.8	1660.7	1660.7	1662.3	1661.5	1667.0	1668.6	1671.0	1675.7
5°	1645.0	1644.2	1651.3	1657.6	1663.9	1669.4	1676.5	1686.7	1688.3	1693.8
7.5°	1639.5	1634.8	1645.8	1653.7	1668.6	1682.0	1700.9	1718.2	1725.3	1727.7
10°	1682.0	1674.1	1684.4	1689.1	1701.7	1715.1	1737.1	1764.7	1772.6	1782.0
12.5°	1754.4	1745.8	1760.7	1767.8	1779.6	1791.5	1806.4	1833.2	1837.1	1854.5
15°	1853.7	1843.4	1852.9	1861.5	1881.2	1892.2	1907.2	1933.2	1933.2	1946.6
17.5°	1988.3	1974.9	1982.0	1985.2	1997.8	2014.3	2039.5	2062.3	2074.2	2069.4
20°	2189.1	2172.6	2172.6	2156.8	2152.1	2165.5	2198.6	2230.1	2242.7	2218.3
22.5°	2490.7	2467.1	2453.7	2400.2	2378.9	2380.5	2413.5	2452.1	2462.4	2419.1
25°	2874.2	2837.2	2819.1	2740.3	2692.3	2650.6	2676.6	2726.2	2740.3	2686.8
27.5°	3257.7	3260.1	3242.7	3148.2	3068.7	2992.3	2978.9	3030.9	3045.9	2985.2
30°	3795.5	3739.6	3706.5	3593.1	3479.8	3372.7	3317.5	3338.8	3342.7	3270.3
32.5°	4259.3	4245.2	4174.3	4075.1	3929.4	3761.7	3669.5	3635.7	3629.4	3526.2
35°	4787.7	4779.8	4705.0	4586.9	4429.4	4196.3	4030.2	3933.3	3925.5	3780.6
37.5°	5324.8	5324.8	5251.5	5122.4	4959.4	4668.0	4415.2	4261.7	4236.5	4047.5
40°	5753.1	5727.1	5740.5	5686.2	5499.6	5190.1	4842.8	4620.0	4586.1	4359.3
42.5°	5996.5	5987.8	6068.1	6128.7	6052.4	5805.1	5313.7	5008.2	4961.0	4702.7
45°	6050.8	6041.3	6184.7	6406.7	6513.8	6412.2	5825.6	5416.9	5359.4	5061.7
47.5°	5925.6	5906.7	6116.9	6467.3	6810.7	6989.4	6379.9	5860.2	5776.8	5411.4
50°	5549.2	5531.1	5849.2	6314.6	6910.7	7381.6	6981.6	6330.3	6202.8	5786.2
52.5°	4731.0	4739.7	5238.1	5877.5	6779.2	7625.7	7499.7	6825.6	6672.1	6169.7
55°	3685.3	3704.2	4316.8	5020.8	6253.2	7588.7	7853.3	7335.9	7183.1	6530.3
57.5°	2638.8	2722.2	3296.3	3993.2	5242.9	7002.0	7930.4	7821.0	7672.9	6924.1
60°	1710.3	1725.3	2315.9	3018.3	3992.4	5959.4	7773.7	8188.7	8073.0	7325.7
62.5°	1096.1	1106.4	1466.2	2111.2	2873.4	4408.9	7246.1	8348.6	8313.1	7591.0
65°	805.6	797.7	985.1	1395.4	1935.6	2719.1	6221.7	8271.4	8341.5	7757.2
67.5°	672.5	661.5	753.6	966.2	1426.1	1544.2	4603.4	7769.8	8026.5	7738.3
70°	612.6	603.2	659.1	717.4	1112.7	1033.9	2320.6	6754.8	7150.1	7523.3
72.5°	518.9	502.4	578.8	637.0	865.4	793.0	959.1	5188.5	5670.4	6834.3
75°	402.4	391.4	456.7	560.7	650.4	618.9	606.3	3150.6	3676.6	5285.4
77.5°	318.9	304.0	363.8	437.0	585.1	467.0	441.8	1356.8	1878.1	3374.2
80°	240.2	226.8	276.4	345.7	449.6	352.0	285.8	553.6	707.9	1709.6
82.5°	170.9	159.1	192.9	253.6	302.4	315.8	175.6	310.3	348.8	659.1
85°	109.5	102.4	129.1	159.1	192.1	203.2	107.1	162.2	178.0	271.7
87.5°	59.8	48.8	69.3	74.0	89.0	81.1	51.2	59.1	63.8	98.4
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°
1672.5	0°	1672.5	1672.5	1672.5	1672.5	1672.5	1672.5	1672.5	1672.5	1672.5	1672.5
1675.7	2.5°	1678.8	1681.2	1689.1	1691.4	1697.0	1704.0	1708.8	1713.5	1713.5	1718.2
1700.9	5°	1701.7	1707.2	1723.7	1732.4	1746.6	1760.7	1769.4	1779.6	1785.9	1789.1
1741.1	7.5°	1745.8	1754.4	1778.1	1793.0	1817.4	1837.1	1850.5	1864.7	1867.8	1876.5
1797.0	10°	1805.6	1815.9	1842.6	1871.0	1900.1	1924.5	1937.1	1947.4	1951.3	1952.9
1868.6	12.5°	1874.1	1889.1	1923.7	1958.4	1989.1	2010.4	2013.5	2011.2	2000.1	1990.7
1956.8	15°	1958.4	1971.8	2010.4	2048.2	2078.1	2082.0	2062.3	2049.7	2036.4	2034.0
2055.3	17.5°	2059.2	2066.3	2101.7	2138.7	2141.1	2127.7	2098.6	2086.7	2074.2	2065.5
2183.6	20°	2176.5	2174.2	2199.4	2215.1	2198.6	2157.6	2113.5	2093.8	2081.2	2071.0
2341.1	22.5°	2316.7	2298.6	2295.4	2291.5	2247.4	2161.6	2101.7	2076.5	2056.8	2042.7
2560.8	25°	2520.6	2451.3	2403.3	2376.5	2277.3	2140.3	2063.9	2008.0	1971.0	1946.6
2829.3	27.5°	2775.8	2659.2	2538.0	2472.6	2277.3	2097.0	1972.6	1882.0	1821.4	1796.2
3089.2	30°	3019.1	2897.0	2718.3	2588.4	2271.8	2026.1	1825.3	1699.3	1628.5	1603.3
3311.2	32.5°	3227.0	3093.9	2909.6	2715.1	2258.4	1911.1	1642.6	1503.2	1434.7	1404.8
3530.9	35°	3419.9	3278.2	3101.8	2854.5	2223.0	1742.6	1441.8	1335.5	1259.1	1211.1
3754.6	37.5°	3617.6	3449.0	3283.7	2980.5	2159.2	1545.8	1287.5	1196.9	1107.2	1042.6
3992.4	40°	3832.5	3630.9	3478.2	3055.3	2054.5	1358.4	1167.8	1085.1	989.8	921.3
4266.4	42.5°	4083.7	3849.1	3694.7	3093.9	1911.1	1225.3	1089.8	1008.7	919.0	863.0
4560.1	45°	4346.0	4089.2	3892.4	3093.1	1751.3	1163.1	1064.6	984.3	885.1	826.8
4861.7	47.5°	4620.8	4340.4	4063.3	3042.7	1612.7	1171.7	1050.5	931.6	822.1	765.4
5166.5	50°	4896.4	4615.3	4228.6	2948.2	1553.6	1152.8	997.7	857.5	728.4	677.2
5452.3	52.5°	5169.6	4907.4	4371.2	2813.6	1493.8	1082.7	930.0	761.5	689.8	654.4
5747.6	55°	5444.4	5196.4	4526.3	2617.5	1344.2	1000.9	816.6	725.2	659.1	626.8
6036.6	57.5°	5720.1	5530.3	4673.5	2421.4	1156.0	900.1	754.4	681.1	628.4	600.8
6278.4	60°	6006.7	5912.2	4825.5	2241.1	970.1	770.9	708.7	645.7	592.2	561.5
6510.7	62.5°	6302.0	6332.7	4944.4	2008.8	799.3	692.2	667.8	603.2	551.2	522.1
6702.8	65°	6599.6	6738.2	5022.4	1686.7	648.1	617.4	623.7	556.7	504.0	478.8
6843.8	67.5°	6824.1	7030.4	5000.3	1276.5	531.5	546.5	568.5	507.9	458.3	438.6
6820.9	70°	6849.3	6995.7	4783.0	874.1	444.9	477.2	507.1	459.9	408.7	394.5
6499.6	72.5°	6513.8	6523.3	4177.4	570.9	376.4	418.9	442.5	411.1	361.4	347.3
5686.2	75°	5634.2	5394.8	3067.1	376.4	315.0	359.9	381.9	359.9	311.8	315.0
4254.6	77.5°	4268.8	3820.7	1862.3	267.7	263.0	302.4	332.3	316.6	275.6	309.5
2139.5	80°	2199.4	2067.1	830.8	200.0	207.9	241.7	273.2	252.8	218.1	207.9
478.0	82.5°	504.0	585.9	327.6	143.3	150.4	174.0	208.7	189.8	156.7	132.3
199.2	85°	176.4	192.9	144.9	89.8	88.2	108.7	141.7	126.8	106.3	85.0
84.3	87.5°	55.9	73.2	54.3	36.2	37.8	48.8	65.4	59.8	49.6	32.3
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>
1672.5
1718.2
1790.7
1873.4
1948.9
1990.7
2034.0
2066.3
2071.8
2047.4
1956.0
1808.8
1618.2
1419.8
1226.9
1059.9
934.7
874.1
836.3
773.3
680.4
654.4
623.7
596.1
559.1
521.3
478.0
439.4
395.3
346.5
304.0
272.5
189.8
130.7
89.8
33.9
0.0

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