

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: P939819

Luminaire Tested: **GALN-SB2C-830-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939819
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2C-830-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13301 lumens
Efficiency: N/A
Efficacy: 131.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

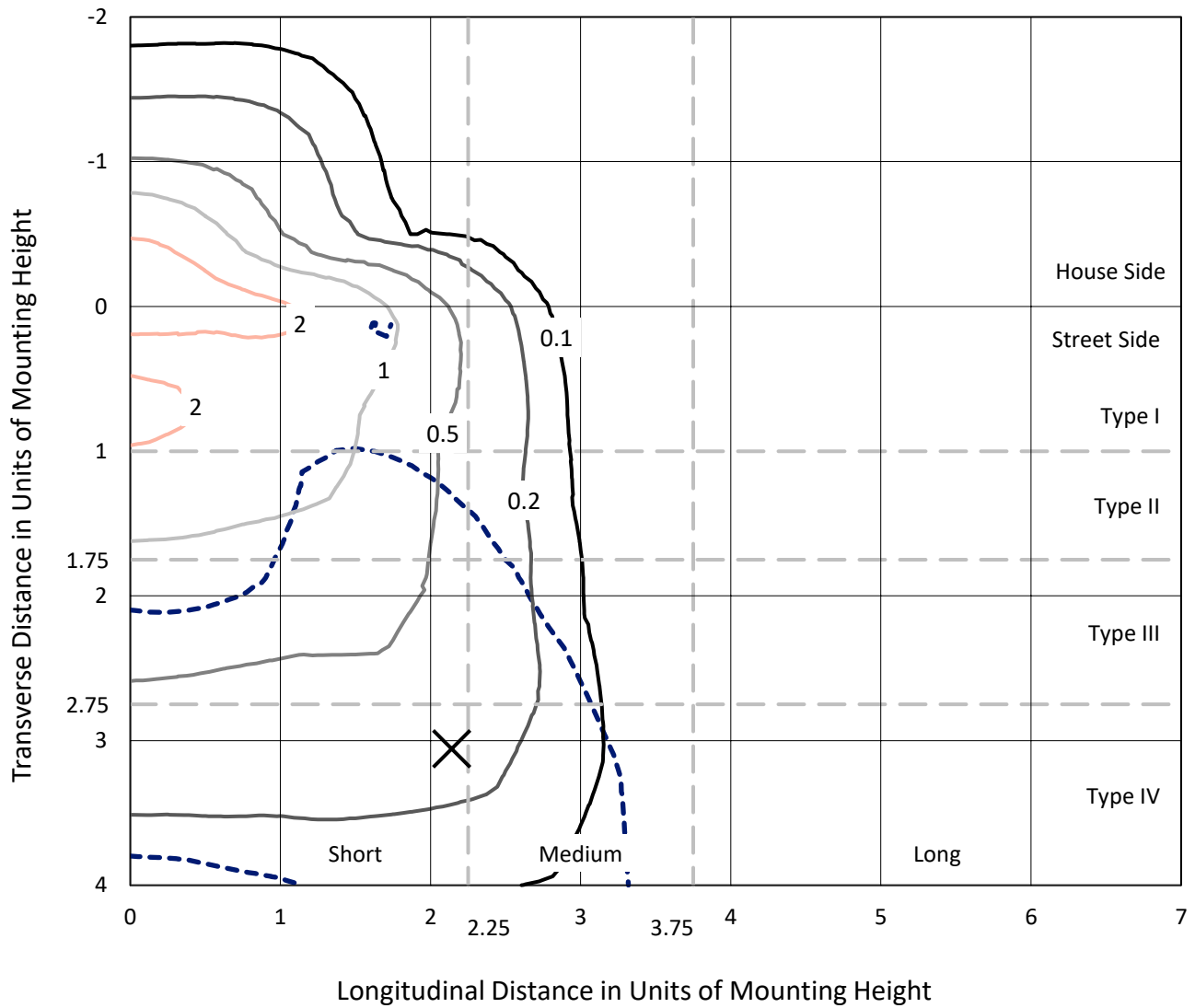
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

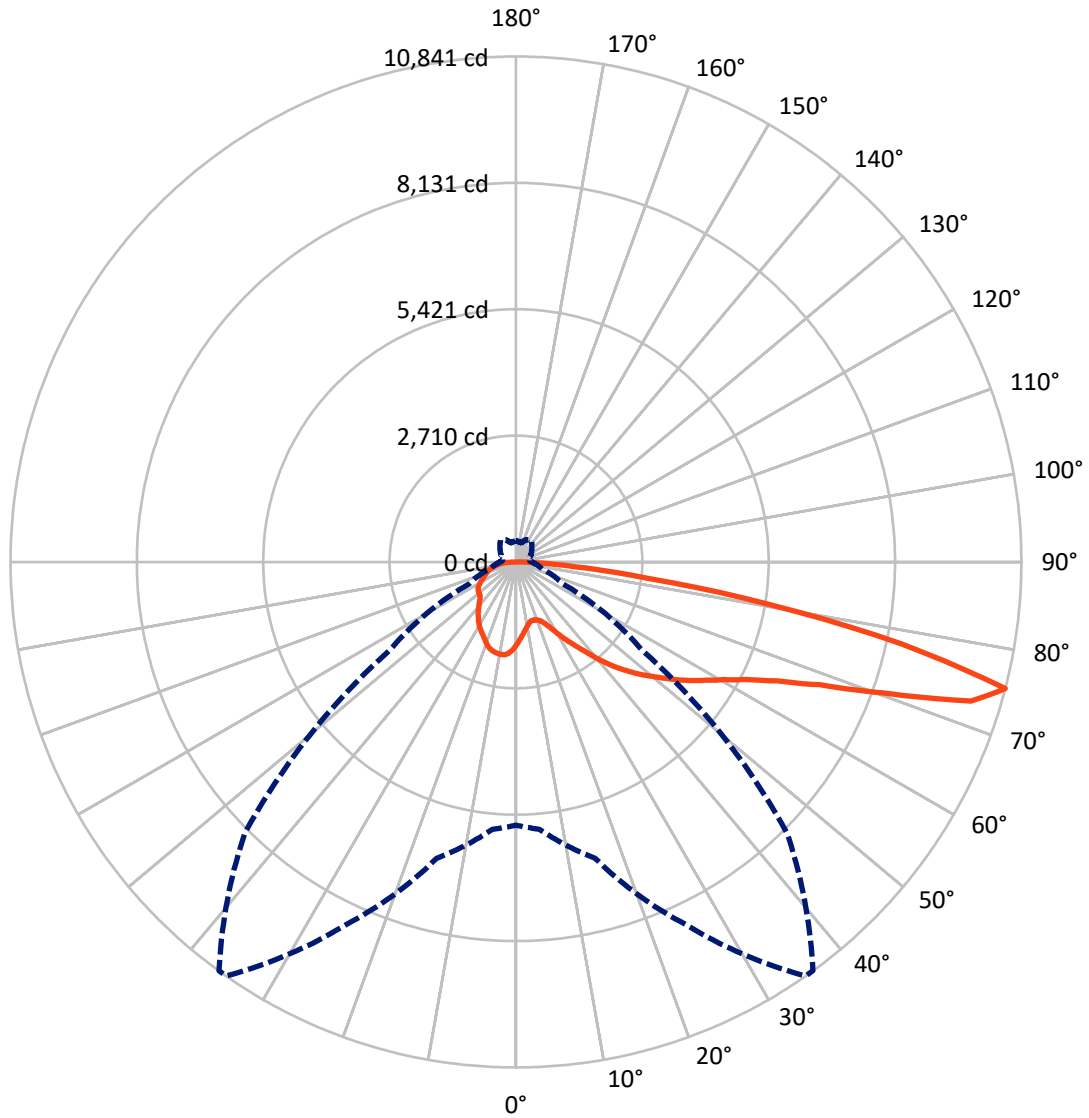
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3165.3	0.0	3165.3
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	10135.7	0.0	10135.7
	% Fixture	76.2	0.0	76.2
Total	Lumens	13301.0	0.0	13301.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.8	1.3
10°-20°	484.1	3.6
20°-30°	812.8	6.1
30°-40°	1263.3	9.5
40°-50°	1875.0	14.1
50°-60°	2588.6	19.5
60°-70°	3140.6	23.6
70°-80°	2595.5	19.5
80°-90°	373.3	2.8
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°	13301.0	100.0
0°-180°	13301.0	100.0

Coefficient of Utilization



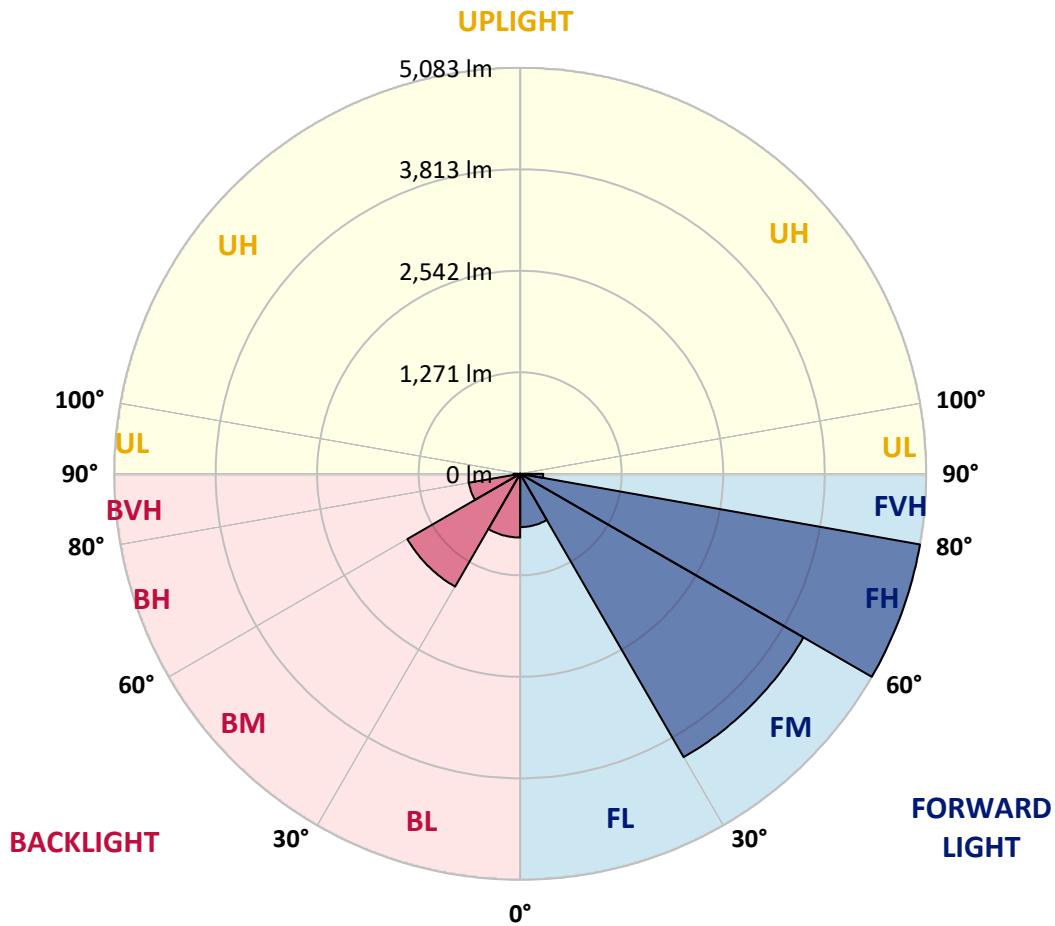
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	667.0	5.0			
FM (30°-60°)	4096.0	30.8			
FH (60°-80°)	5083.4	38.2			G3/7500
FVH (80°-90°)	289.2	2.2			G3/500
BL (0°-30°)	797.7	6.0	B2/1000		
BM (30°-60°)	1631.0	12.3	B2/2500		
BH (60°-80°)	652.6	4.9	B2/1000		G2/1000
BVH (80°-90°)	84.1	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	1772.4	1772.4	1772.4	1772.4	1772.4	1772.4	1772.4	1772.4	1772.4	1772.4
2.5°	1634.4	1644.5	1648.8	1646.6	1657.4	1656.0	1671.1	1689.8	1715.6	1740.8
5°	1508.6	1519.3	1528.7	1537.3	1558.2	1564.6	1588.4	1624.3	1671.8	1720.0
7.5°	1391.4	1400.7	1415.1	1430.9	1466.1	1472.6	1512.2	1568.2	1634.4	1704.9
10°	1295.7	1305.1	1320.2	1338.1	1382.0	1389.9	1440.2	1515.0	1601.3	1690.5
12.5°	1254.7	1257.6	1266.2	1284.2	1322.3	1327.4	1382.7	1468.3	1569.0	1679.7
15°	1252.6	1258.3	1259.0	1268.4	1300.0	1302.2	1353.2	1438.1	1548.8	1677.5
17.5°	1274.1	1278.5	1272.0	1277.7	1304.3	1307.9	1348.2	1423.7	1542.4	1686.9
20°	1331.7	1335.3	1315.9	1307.9	1327.4	1330.2	1369.8	1433.1	1548.8	1706.3
22.5°	1453.9	1456.1	1408.6	1376.3	1377.7	1379.1	1413.6	1471.2	1574.0	1741.5
25°	1644.5	1643.0	1567.5	1505.0	1469.0	1461.1	1484.1	1533.0	1616.4	1788.3
27.5°	1867.4	1856.6	1781.1	1687.6	1609.2	1597.7	1592.7	1613.5	1676.8	1850.1
30°	2119.0	2109.0	2027.7	1905.5	1796.9	1778.2	1730.7	1720.0	1766.7	1934.2
32.5°	2395.1	2388.7	2291.6	2143.5	1998.2	1976.7	1896.8	1868.1	1904.8	2061.5
35°	2626.7	2620.9	2540.4	2388.0	2210.3	2183.7	2102.5	2070.1	2088.8	2224.7
37.5°	2835.9	2833.0	2764.0	2643.9	2460.6	2428.2	2336.9	2326.1	2322.5	2439.7
40°	3030.1	3022.9	2951.0	2887.7	2751.8	2722.3	2641.8	2632.4	2605.1	2704.3
42.5°	3245.1	3226.4	3122.1	3092.6	3055.9	3031.5	2983.3	2984.8	2924.4	3002.7
45°	3420.5	3409.7	3302.6	3285.3	3324.9	3314.8	3356.5	3367.3	3250.1	3315.5
47.5°	3608.9	3598.8	3508.2	3496.0	3603.1	3606.0	3753.4	3757.0	3567.9	3640.5
50°	3841.1	3826.8	3736.9	3752.0	3872.1	3882.8	4152.5	4128.0	3860.6	3970.6
52.5°	3994.3	4002.9	3983.5	4008.0	4171.9	4182.0	4545.1	4482.5	4150.3	4296.3
55°	4107.2	4124.4	4184.8	4240.9	4488.3	4498.4	4915.4	4819.8	4390.5	4598.3
57.5°	4252.4	4228.0	4340.9	4450.2	4788.8	4815.5	5275.6	5144.8	4603.3	4858.6
60°	4461.0	4443.7	4531.4	4693.2	5125.4	5167.8	5656.7	5437.4	4759.4	5065.0
62.5°	4883.8	4840.6	4854.3	4997.4	5549.6	5605.7	6086.7	5692.7	4837.0	5145.5
65°	5515.8	5441.7	5372.7	5471.9	6147.1	6202.5	6572.1	5893.3	4808.3	4989.5
67.5°	6311.8	6238.4	6153.6	6247.1	7027.2	7071.1	7171.0	6006.2	4581.8	4388.3
70°	6968.3	6941.0	7042.3	7427.0	8433.0	8434.4	7939.0	5912.7	3961.2	3111.3
72.5°	6881.3	6864.7	7399.0	8588.3	10204.7	10166.6	8665.9	5205.2	2668.4	1403.6
75°	5645.2	5752.4	6580.0	8567.4	10841.1	10836.0	8220.9	3309.0	1103.7	581.7
77.5°	3027.2	3196.9	4271.9	6325.4	8463.2	8590.4	5779.7	1157.7	473.9	372.5
80°	987.3	1135.4	1702.7	3220.6	5499.3	5475.5	2477.1	454.4	324.3	263.9
82.5°	419.2	436.5	760.8	1520.8	2822.3	2778.4	788.8	261.0	227.9	180.5
85°	163.9	183.4	335.8	703.2	1222.4	1195.8	284.7	129.4	146.0	117.9
87.5°	53.9	65.4	120.1	240.9	380.4	366.7	69.7	44.6	63.3	53.9
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°
1772.4	0°	1772.4	1772.4	1772.4	1772.4	1772.4	1772.4	1772.4	1772.4	1772.4	1772.4
1777.5	2.5°	1787.5	1799.1	1812.7	1832.8	1850.1	1864.5	1879.6	1888.9	1892.5	1903.3
1780.4	5°	1800.5	1825.7	1859.5	1892.5	1924.9	1944.3	1961.6	1970.2	1978.1	1983.8
1788.3	7.5°	1822.1	1854.4	1907.6	1950.8	1978.1	1993.9	2005.4	2002.5	2005.4	2006.9
1796.9	10°	1840.8	1886.1	1949.3	1990.3	2011.2	2011.9	2009.0	1998.9	1993.9	1994.6
1809.8	12.5°	1863.0	1913.4	1981.7	2016.2	2022.0	2006.1	1993.9	1976.7	1970.2	1967.3
1829.3	15°	1893.2	1950.8	2016.9	2029.9	2015.5	1995.4	1974.5	1946.5	1932.1	1920.6
1862.3	17.5°	1929.9	1993.2	2044.2	2034.9	2004.0	1970.9	1937.1	1894.7	1865.2	1853.0
1907.6	20°	1981.0	2037.8	2065.1	2024.1	1977.4	1927.0	1869.5	1817.7	1790.4	1778.2
1965.2	22.5°	2042.8	2097.5	2085.2	2005.4	1939.3	1858.7	1786.8	1748.7	1735.1	1726.4
2039.2	25°	2116.9	2163.6	2099.6	1978.1	1876.7	1768.1	1712.8	1700.5	1694.1	1687.6
2129.8	27.5°	2213.2	2238.4	2110.4	1937.8	1778.9	1671.8	1651.6	1653.8	1651.6	1640.9
2255.6	30°	2340.5	2335.5	2120.5	1872.4	1666.7	1584.8	1586.2	1595.6	1597.0	1589.8
2431.1	32.5°	2508.0	2457.0	2125.5	1787.5	1559.6	1508.6	1510.0	1520.1	1527.3	1515.0
2660.5	35°	2710.8	2598.6	2117.6	1681.1	1476.9	1435.9	1425.1	1428.0	1430.2	1418.7
2938.7	37.5°	2947.4	2757.5	2082.4	1563.2	1408.6	1364.7	1341.7	1322.3	1310.8	1300.0
3253.7	40°	3206.9	2930.8	2017.6	1448.2	1332.4	1289.2	1254.7	1218.1	1179.2	1164.9
3587.3	42.5°	3478.7	3109.2	1939.3	1338.1	1244.7	1209.4	1172.8	1119.6	1061.3	1031.8
3933.9	45°	3760.6	3291.8	1862.3	1229.6	1154.8	1139.7	1097.3	1033.3	970.0	932.6
4281.2	47.5°	4036.7	3464.4	1749.4	1120.3	1070.7	1087.2	1054.1	995.2	924.7	865.7
4625.6	50°	4300.6	3626.1	1564.6	1009.5	1002.4	1071.4	1039.7	954.9	874.4	798.9
4963.6	52.5°	4562.3	3757.0	1328.1	908.9	965.7	1067.1	1021.0	927.6	829.1	750.0
5281.4	55°	4784.5	3824.6	1100.1	822.6	912.5	1030.4	998.8	895.2	765.1	680.9
5499.3	57.5°	4911.1	3770.0	910.3	737.7	839.1	970.0	960.6	826.2	688.8	624.1
5541.7	60°	4856.4	3548.5	755.0	663.7	769.4	904.6	894.5	757.9	630.6	569.5
5314.5	62.5°	4555.2	3126.4	632.0	599.0	706.1	837.7	828.3	705.4	586.0	527.1
4711.2	65°	3948.3	2543.3	536.4	545.0	642.1	757.2	770.8	661.5	550.8	493.3
3644.8	67.5°	3011.4	1842.2	461.6	498.3	579.6	678.1	717.6	629.9	521.3	466.7
2109.0	70°	1716.4	1046.2	398.4	453.0	524.2	604.7	676.6	604.7	489.7	444.4
790.2	72.5°	650.7	480.3	344.4	407.7	471.0	542.9	631.3	565.2	453.0	419.2
408.4	75°	347.3	292.7	289.8	354.5	409.9	482.5	574.5	526.3	425.7	442.9
282.6	77.5°	236.6	207.1	242.3	303.4	343.0	415.6	514.1	467.4	368.9	367.4
195.6	80°	163.9	146.7	197.0	244.5	265.3	349.5	448.7	401.2	300.6	280.4
120.8	82.5°	98.5	95.6	147.4	182.6	187.7	269.6	371.7	336.5	245.9	214.3
71.9	85°	53.9	56.8	94.2	107.1	109.3	188.4	291.2	260.3	189.1	158.9
25.9	87.5°	15.1	19.4	34.5	42.4	52.5	97.8	173.3	154.6	94.9	66.2
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>
1772.4
1902.6
1985.3
2009.0
1996.1
1965.9
1924.2
1853.7
1776.8
1727.9
1687.6
1643.0
1593.4
1520.8
1426.6
1307.2
1171.3
1035.4
929.7
859.3
792.4
741.3
673.7
615.5
560.9
517.7
483.9
458.0
438.6
413.5
457.3
338.7
268.2
215.7
160.3
66.2
0.0

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