

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: P939849

Luminaire Tested: **GALN-SB2C-850-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939849
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-850-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14159 lumens
Efficiency: N/A
Efficacy: 140.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

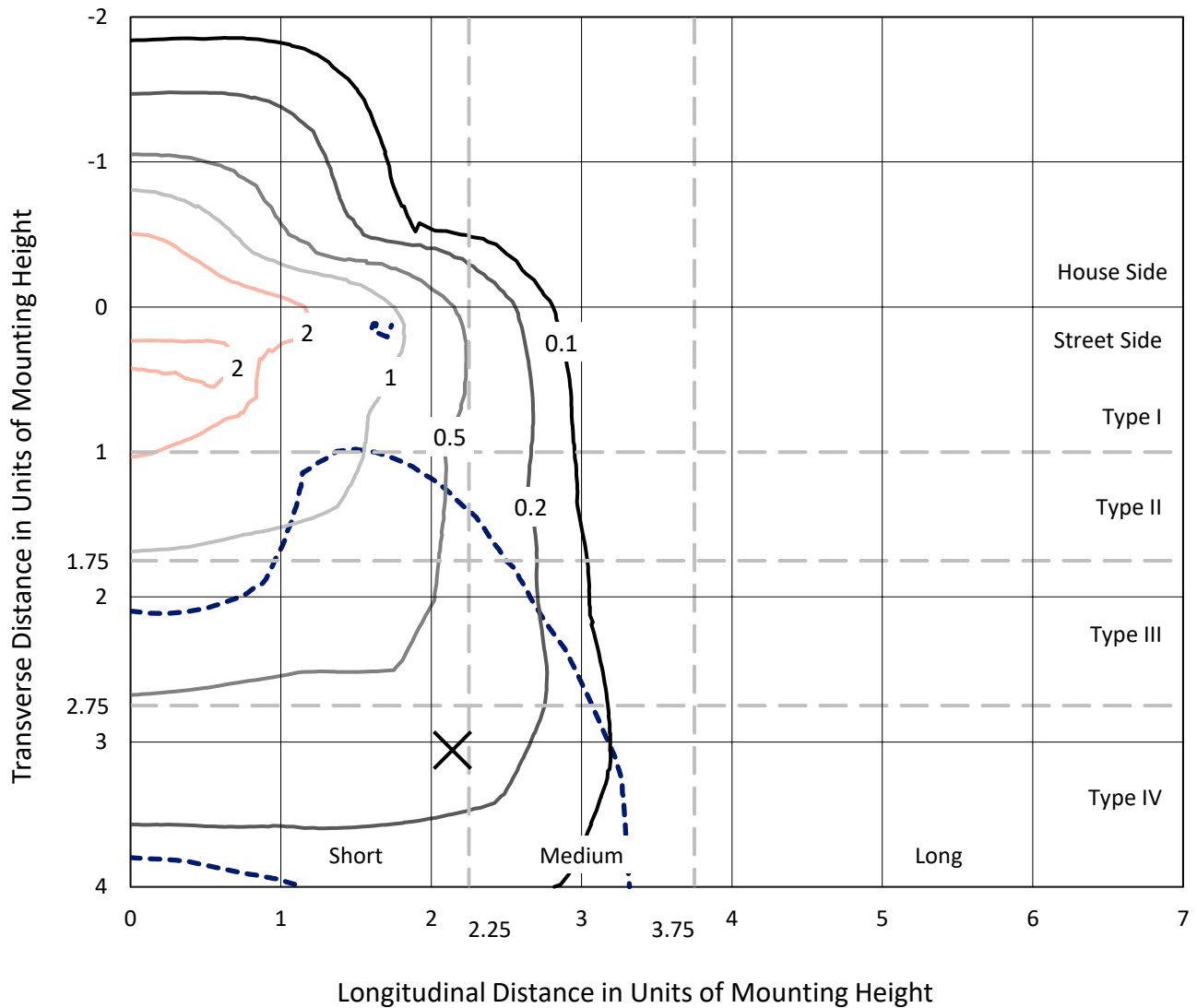
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

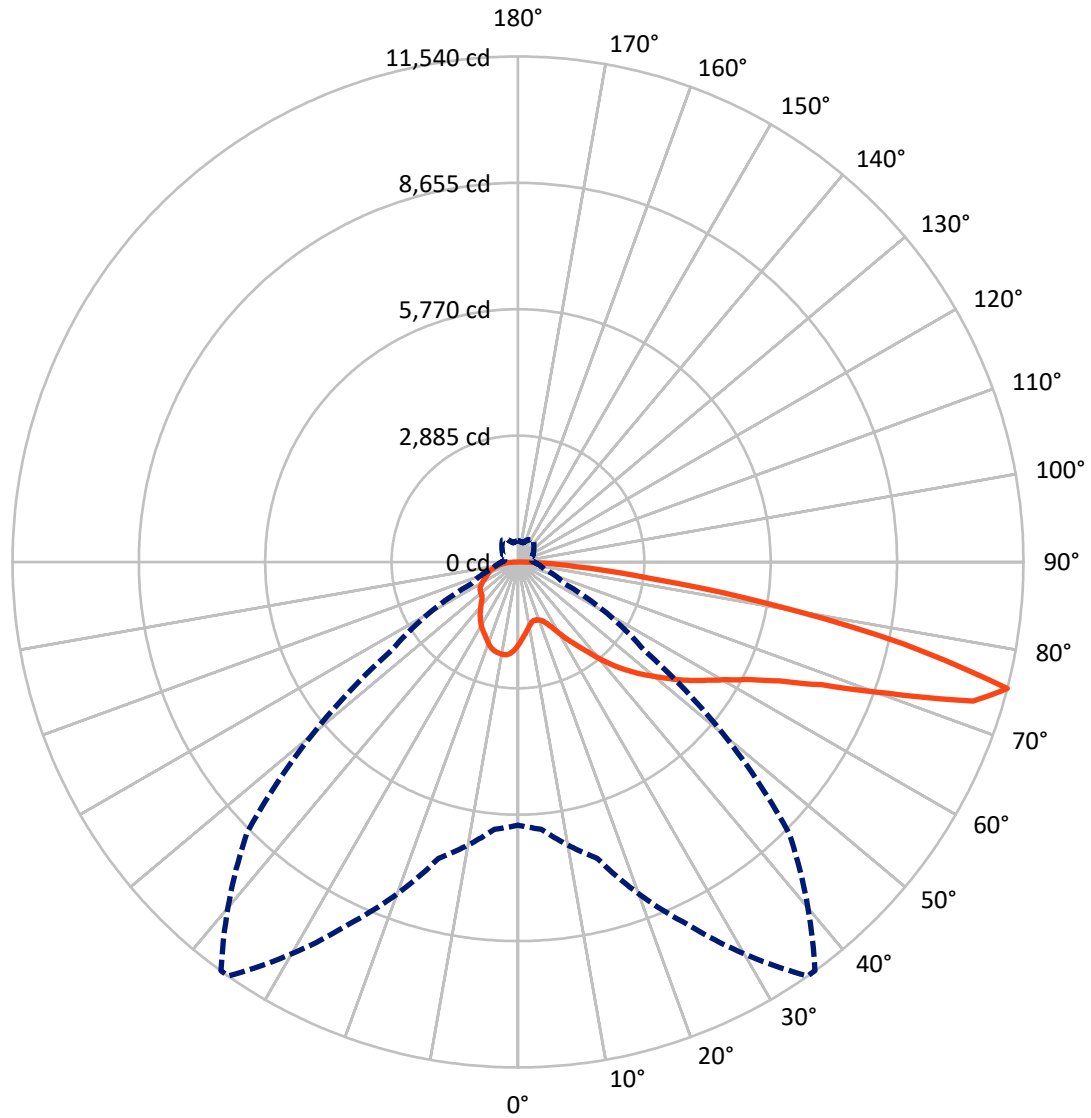
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 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	3369.5	0.0	3369.5
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	10789.5	0.0	10789.5
	% Fixture	76.2	0.0	76.2
Total	Lumens	14159.0	0.0	14159.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.6	1.3
10°-20°	515.3	3.6
20°-30°	865.3	6.1
30°-40°	1344.8	9.5
40°-50°	1996.0	14.1
50°-60°	2755.6	19.5
60°-70°	3343.2	23.6
70°-80°	2762.9	19.5
80°-90°	397.4	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°	14159.0	100.0
0°-180°	14159.0	100.0

Coefficient of Utilization



REPORT NUMBER: P939849

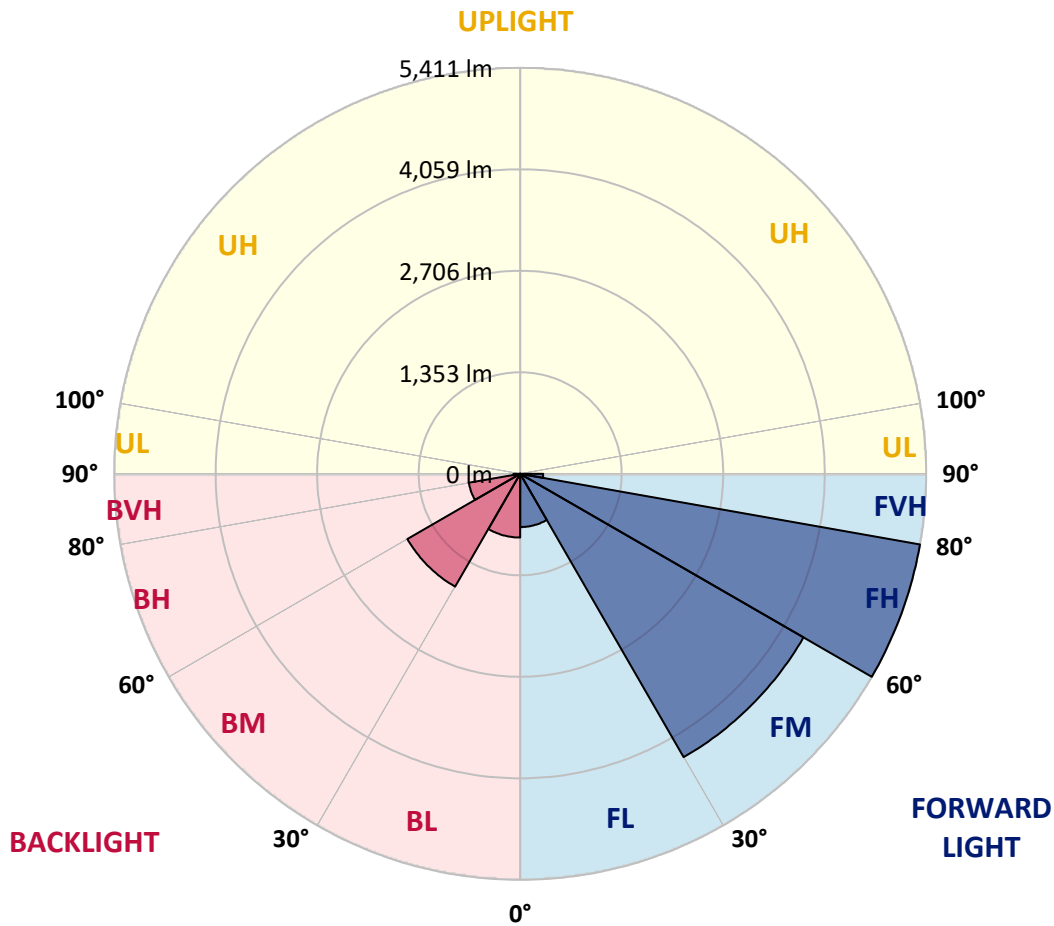
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	710.0	5.0			
FM (30°-60°)	4360.2	30.8			
FH (60°-80°)	5411.4	38.2			G3/7500
FVH (80°-90°)	307.9	2.2			G3/500
BL (0°-30°)	849.2	6.0	B2/1000		
BM (30°-60°)	1736.2	12.3	B2/2500		
BH (60°-80°)	694.7	4.9	B2/1000		G2/1000
BVH (80°-90°)	89.5	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	1886.8	1886.8	1886.8	1886.8	1886.8	1886.8	1886.8	1886.8	1886.8	1886.8
2.5°	1739.8	1750.5	1755.1	1752.8	1764.3	1762.8	1778.9	1798.8	1826.3	1853.1
5°	1605.9	1617.4	1627.3	1636.5	1658.7	1665.6	1690.8	1729.1	1779.6	1830.9
7.5°	1481.1	1491.1	1506.4	1523.2	1560.7	1567.6	1609.7	1669.4	1739.8	1814.8
10°	1379.3	1389.3	1405.3	1424.5	1471.2	1479.6	1533.2	1612.8	1704.6	1799.5
12.5°	1335.7	1338.7	1347.9	1367.1	1407.6	1413.0	1471.9	1563.0	1670.2	1788.0
15°	1333.4	1339.5	1340.3	1350.2	1383.9	1386.2	1440.5	1530.9	1648.7	1785.7
17.5°	1356.3	1360.9	1354.0	1360.2	1388.5	1392.3	1435.2	1515.5	1641.8	1795.7
20°	1417.6	1421.4	1400.7	1392.3	1413.0	1416.0	1458.1	1525.5	1648.7	1816.4
22.5°	1547.7	1550.0	1499.5	1465.0	1466.6	1468.1	1504.8	1566.1	1675.5	1853.9
25°	1750.5	1749.0	1668.6	1602.0	1563.8	1555.4	1579.8	1631.9	1720.7	1903.6
27.5°	1987.8	1976.3	1896.0	1796.5	1713.0	1700.8	1695.4	1717.6	1785.0	1969.4
30°	2255.7	2245.0	2158.5	2028.4	1912.8	1892.9	1842.4	1830.9	1880.7	2059.0
32.5°	2549.6	2542.8	2439.4	2281.7	2127.1	2104.2	2019.2	1988.6	2027.6	2194.5
35°	2796.1	2790.0	2704.3	2542.0	2352.9	2324.6	2238.1	2203.7	2223.6	2368.2
37.5°	3018.9	3015.8	2942.3	2814.5	2619.3	2584.9	2487.6	2476.2	2472.3	2597.1
40°	3225.5	3217.9	3141.3	3074.0	2929.3	2897.9	2812.2	2802.2	2773.1	2878.8
42.5°	3454.4	3434.5	3323.5	3292.1	3253.1	3227.0	3175.8	3177.3	3113.0	3196.4
45°	3641.1	3629.7	3515.6	3497.2	3539.3	3528.6	3573.0	3584.5	3459.7	3529.4
47.5°	3841.7	3831.0	3734.5	3721.5	3835.6	3838.6	3995.5	3999.4	3798.1	3875.4
50°	4088.9	4073.6	3977.9	3994.0	4121.8	4133.3	4420.4	4394.3	4109.6	4226.7
52.5°	4252.0	4261.1	4240.5	4266.5	4441.0	4451.7	4838.3	4771.7	4418.1	4573.4
55°	4372.1	4390.5	4454.8	4514.5	4777.8	4788.5	5232.5	5130.7	4673.7	4894.9
57.5°	4526.7	4500.7	4620.9	4737.2	5097.8	5126.1	5616.0	5476.6	4900.3	5172.0
60°	4748.7	4730.4	4823.7	4996.0	5456.0	5501.1	6021.6	5788.2	5066.4	5391.7
62.5°	5198.8	5152.9	5167.4	5319.7	5907.6	5967.3	6479.4	6059.9	5149.0	5477.4
65°	5871.6	5792.8	5719.3	5824.9	6543.7	6602.6	6996.0	6273.5	5118.4	5311.3
67.5°	6718.9	6640.9	6550.5	6650.0	7480.5	7527.2	7633.6	6393.6	4877.3	4671.4
70°	7417.8	7388.7	7496.6	7906.1	8977.0	8978.5	8451.1	6294.1	4216.7	3312.0
72.5°	7325.2	7307.6	7876.3	9142.3	10863.0	10822.4	9225.0	5540.9	2840.5	1494.1
75°	6009.4	6123.4	7004.4	9120.1	11540.4	11535.0	8751.1	3522.5	1174.9	619.2
77.5°	3222.5	3403.1	4547.4	6733.5	9009.1	9144.6	6152.5	1232.3	504.4	396.5
80°	1050.9	1208.6	1812.5	3428.4	5854.0	5828.7	2636.9	483.8	345.2	280.9
82.5°	446.2	464.6	809.8	1618.9	3004.3	2957.6	839.7	277.9	242.6	192.1
85°	174.5	195.2	357.5	748.6	1301.2	1272.9	303.1	137.8	155.4	125.5
87.5°	57.4	69.7	127.8	256.4	404.9	390.4	74.2	47.5	67.4	57.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P939849
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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1886.8	0°	1886.8	1886.8	1886.8	1886.8	1886.8	1886.8	1886.8	1886.8	1886.8	1886.8
1892.1	2.5°	1902.9	1915.1	1929.6	1951.1	1969.4	1984.8	2000.8	2010.8	2014.6	2026.1
1895.2	5°	1916.6	1943.4	1979.4	2014.6	2049.1	2069.7	2088.1	2097.3	2105.7	2111.8
1903.6	7.5°	1939.6	1974.0	2030.7	2076.6	2105.7	2122.5	2134.8	2131.7	2134.8	2136.3
1912.8	10°	1959.5	2007.7	2075.1	2118.7	2140.9	2141.7	2138.6	2127.9	2122.5	2123.3
1926.6	12.5°	1983.2	2036.8	2109.5	2146.3	2152.4	2135.5	2122.5	2104.2	2097.3	2094.2
1947.3	15°	2015.4	2076.6	2147.0	2160.8	2145.5	2124.1	2101.9	2072.0	2056.7	2044.5
1982.5	17.5°	2054.4	2121.8	2176.1	2166.2	2133.3	2098.0	2062.1	2016.9	1985.5	1972.5
2030.7	20°	2108.8	2169.2	2198.3	2154.7	2104.9	2051.3	1990.1	1935.0	1905.9	1892.9
2091.9	22.5°	2174.6	2232.8	2219.7	2134.8	2064.4	1978.6	1902.1	1861.5	1847.0	1837.8
2170.8	25°	2253.4	2303.2	2235.1	2105.7	1997.8	1882.2	1823.3	1810.2	1803.4	1796.5
2267.2	27.5°	2356.0	2382.8	2246.5	2062.8	1893.7	1779.6	1758.2	1760.5	1758.2	1746.7
2401.2	30°	2491.5	2486.1	2257.3	1993.2	1774.3	1687.0	1688.5	1698.5	1700.0	1692.4
2587.9	32.5°	2669.8	2615.5	2262.6	1902.9	1660.2	1605.9	1607.4	1618.1	1625.8	1612.8
2832.1	35°	2885.7	2766.3	2254.2	1789.6	1572.2	1528.6	1517.1	1520.1	1522.4	1510.2
3128.3	37.5°	3137.5	2935.4	2216.7	1664.0	1499.5	1452.8	1428.3	1407.6	1395.4	1383.9
3463.6	40°	3413.8	3119.9	2147.8	1541.6	1418.3	1372.4	1335.7	1296.6	1255.3	1240.0
3818.7	42.5°	3703.1	3309.7	2064.4	1424.5	1325.0	1287.5	1248.4	1191.8	1129.8	1098.4
4187.7	45°	4003.2	3504.1	1982.5	1308.9	1229.3	1213.2	1168.0	1099.9	1032.6	992.8
4557.4	47.5°	4297.1	3687.8	1862.3	1192.5	1139.7	1157.3	1122.1	1059.4	984.3	921.6
4924.0	50°	4578.0	3860.1	1665.6	1074.7	1067.0	1140.5	1106.8	1016.5	930.8	850.4
5283.8	52.5°	4856.6	3999.4	1413.7	967.5	1028.0	1135.9	1086.9	987.4	882.5	798.3
5622.1	55°	5093.2	4071.3	1171.1	875.7	971.3	1096.9	1063.2	953.0	814.4	724.9
5854.0	57.5°	5227.9	4013.1	969.0	785.3	893.3	1032.6	1022.6	879.5	733.3	664.4
5899.2	60°	5169.7	3777.4	803.7	706.5	819.0	962.9	952.2	806.8	671.3	606.2
5657.3	62.5°	4849.0	3328.1	672.8	637.6	751.7	891.7	881.8	750.9	623.8	561.1
5015.1	65°	4203.0	2707.3	571.0	580.2	683.5	806.0	820.5	704.2	586.3	525.1
3880.0	67.5°	3205.6	1961.0	491.4	530.4	616.9	721.8	763.9	670.5	554.9	496.8
2245.0	70°	1827.1	1113.7	424.0	482.2	558.0	643.7	720.3	643.7	521.3	473.0
841.2	72.5°	692.7	511.3	366.6	434.0	501.4	577.9	672.0	601.6	482.2	446.2
434.8	75°	369.7	311.5	308.5	377.4	436.3	513.6	611.6	560.3	453.1	471.5
300.8	77.5°	251.8	220.4	257.9	323.0	365.1	442.4	547.3	497.5	392.7	391.1
208.2	80°	174.5	156.1	209.7	260.2	282.4	372.0	477.6	427.1	319.9	298.5
128.6	82.5°	104.9	101.8	156.9	194.4	199.8	287.0	395.7	358.2	261.8	228.1
76.5	85°	57.4	60.5	100.3	114.0	116.3	200.5	310.0	277.1	201.3	169.2
27.6	87.5°	16.1	20.7	36.7	45.2	55.9	104.1	184.5	164.6	101.0	70.4
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>
1886.8
2025.3
2113.3
2138.6
2124.8
2092.7
2048.3
1973.3
1891.4
1839.3
1796.5
1749.0
1696.2
1618.9
1518.6
1391.5
1246.9
1102.2
989.7
914.7
843.5
789.2
717.2
655.2
597.0
551.1
515.1
487.6
466.9
440.1
486.8
360.5
285.5
229.6
170.7
70.4
0.0

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