

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: P940069

Luminaire Tested: **GALN-SB2D-950-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940069
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-SB2D-950-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13992 lumens
Efficiency: N/A
Efficacy: 94.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

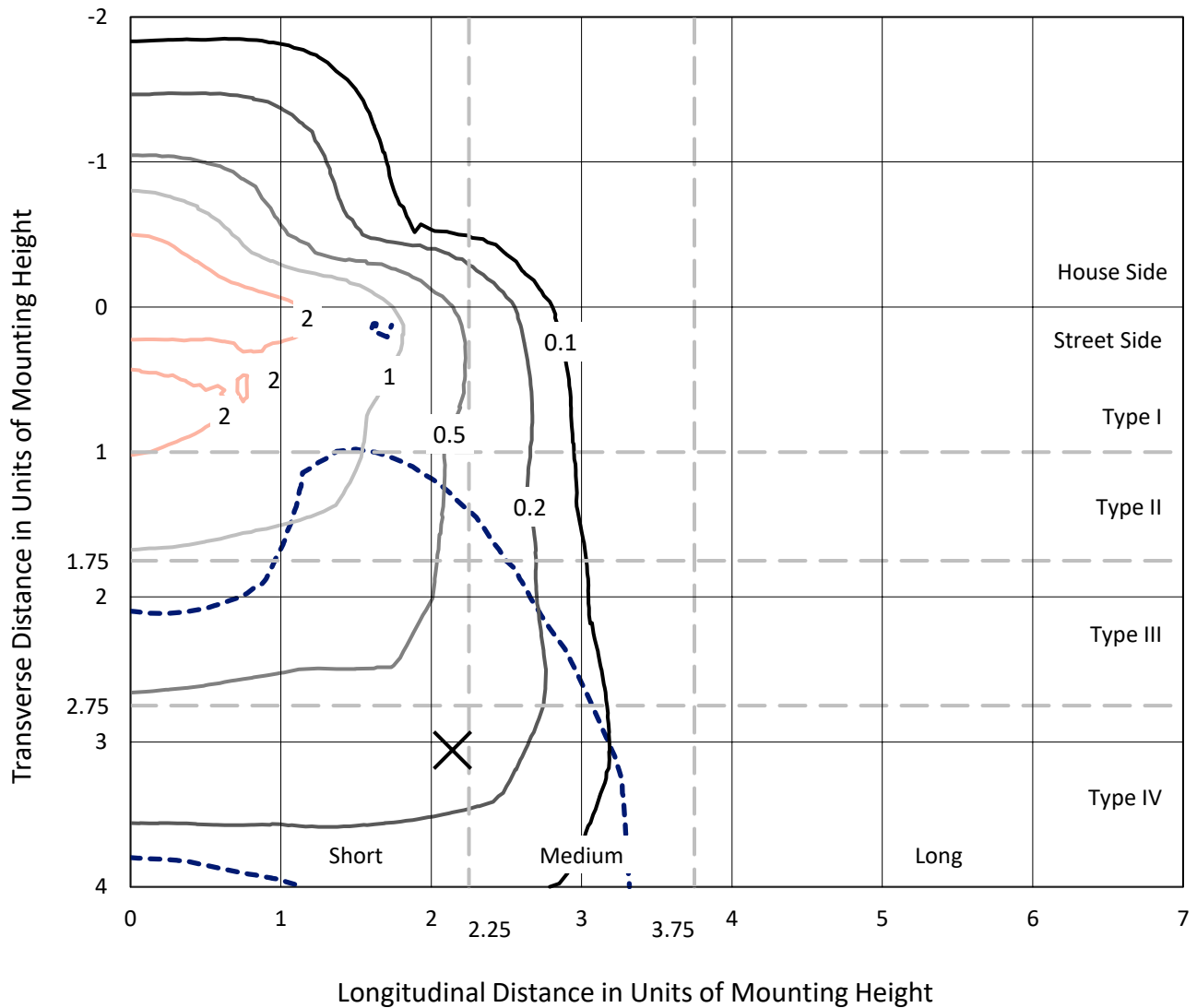
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

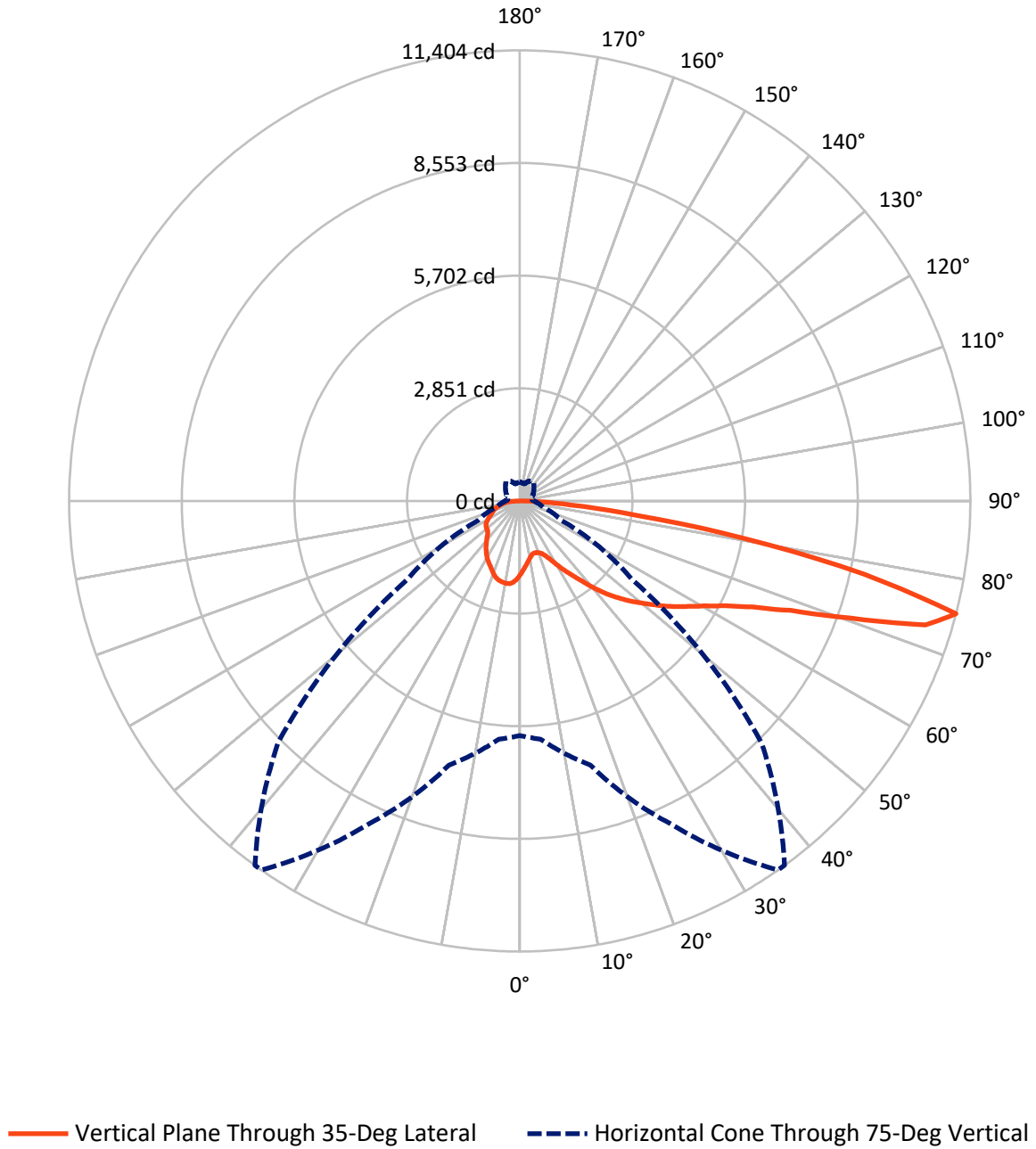
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3329.7	0.0	3329.7
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	10662.3	0.0	10662.3
	% Fixture	76.2	0.0	76.2
Total	Lumens	13992.0	0.0	13992.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.5	1.3
10°-20°	509.2	3.6
20°-30°	855.1	6.1
30°-40°	1328.9	9.5
40°-50°	1972.5	14.1
50°-60°	2723.1	19.5
60°-70°	3303.7	23.6
70°-80°	2730.3	19.5
80°-90°	392.7	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°	13992.0	100.0
0°-180°	13992.0	100.0

Coefficient of Utilization



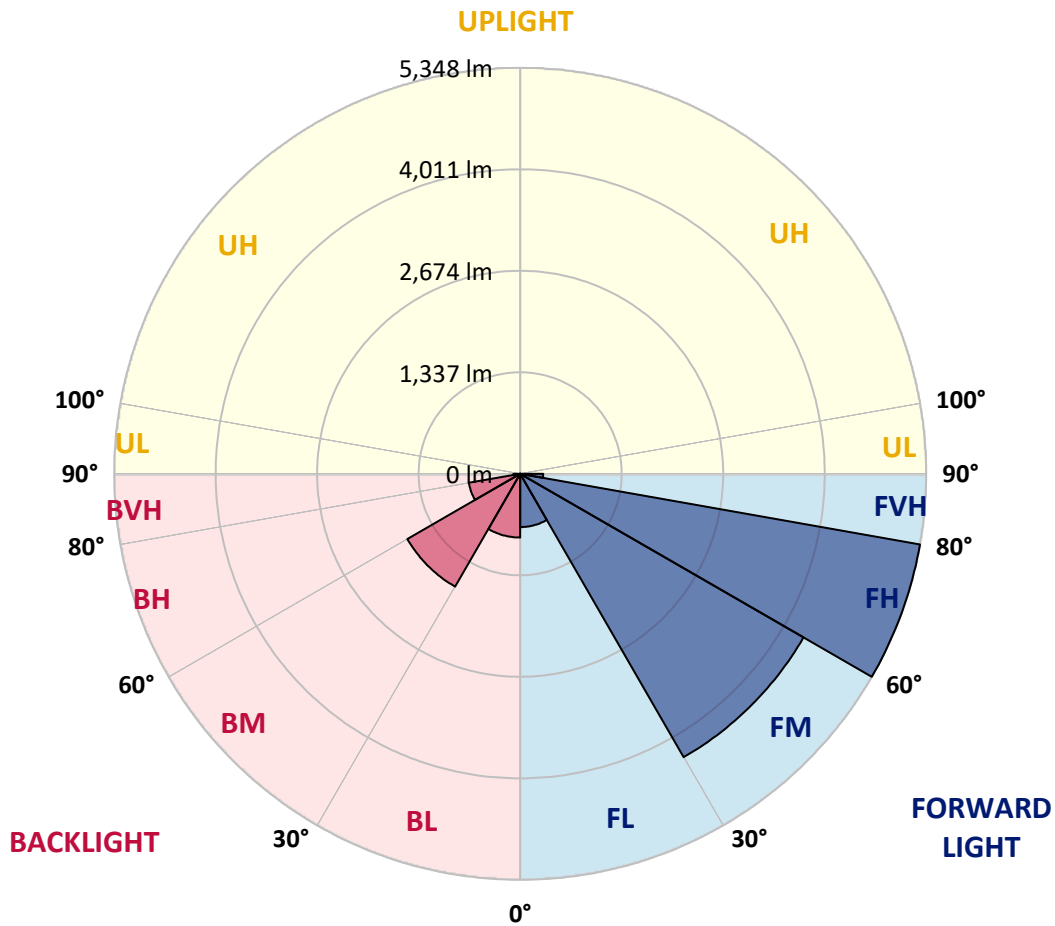
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	701.7	5.0			
FM (30°-60°)	4308.8	30.8			
FH (60°-80°)	5347.5	38.2			G3/7500
FVH (80°-90°)	304.3	2.2			G3/500
BL (0°-30°)	839.1	6.0	B2/1000		
BM (30°-60°)	1715.7	12.3	B2/2500		
BH (60°-80°)	686.5	4.9	B2/1000		G2/1000
BVH (80°-90°)	88.4	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°	1864.5	1864.5	1864.5	1864.5	1864.5	1864.5	1864.5	1864.5	1864.5	1864.5
2.5°	1719.3	1729.9	1734.4	1732.2	1743.5	1742.0	1757.9	1777.5	1804.8	1831.2
5°	1586.9	1598.3	1608.1	1617.2	1639.1	1645.9	1670.9	1708.7	1758.6	1809.3
7.5°	1463.6	1473.5	1488.6	1505.2	1542.3	1549.1	1590.7	1649.7	1719.3	1793.4
10°	1363.0	1372.9	1388.8	1407.7	1453.8	1462.1	1515.1	1593.7	1684.5	1778.3
12.5°	1319.9	1322.9	1332.0	1350.9	1391.0	1396.3	1454.6	1544.6	1650.5	1767.0
15°	1317.7	1323.7	1324.5	1334.3	1367.6	1369.8	1423.5	1512.8	1629.3	1764.7
17.5°	1340.3	1344.9	1338.1	1344.1	1372.1	1375.9	1418.3	1497.7	1622.5	1774.5
20°	1400.9	1404.6	1384.2	1375.9	1396.3	1399.3	1440.9	1507.5	1629.3	1794.9
22.5°	1529.4	1531.7	1481.8	1447.8	1449.3	1450.8	1487.1	1547.6	1655.8	1832.0
25°	1729.9	1728.4	1649.0	1583.1	1545.3	1537.0	1561.2	1612.6	1700.4	1881.2
27.5°	1964.4	1953.0	1873.6	1775.3	1692.8	1680.7	1675.4	1697.4	1763.9	1946.2
30°	2229.1	2218.5	2133.1	2004.5	1890.2	1870.6	1820.7	1809.3	1858.5	2034.7
32.5°	2519.6	2512.8	2410.7	2254.8	2102.0	2079.3	1995.4	1965.1	2003.7	2168.6
35°	2763.1	2757.1	2672.4	2512.0	2325.2	2297.2	2211.7	2177.7	2197.3	2340.3
37.5°	2983.2	2980.2	2907.6	2781.3	2588.4	2554.4	2458.3	2447.0	2443.2	2566.5
40°	3187.5	3179.9	3104.3	3037.7	2894.7	2863.7	2779.0	2769.2	2740.4	2844.8
42.5°	3413.6	3394.0	3284.3	3253.3	3214.7	3189.0	3138.3	3139.8	3076.3	3158.7
45°	3598.2	3586.9	3474.2	3456.0	3497.6	3487.0	3530.9	3542.2	3418.9	3487.8
47.5°	3796.4	3785.8	3690.5	3677.6	3790.3	3793.4	3948.4	3952.2	3753.3	3829.7
50°	4040.7	4025.6	3931.0	3946.9	4073.2	4084.6	4368.2	4342.5	4061.1	4176.8
52.5°	4201.8	4210.9	4190.5	4216.2	4388.6	4399.2	4781.2	4715.4	4365.9	4519.5
55°	4320.6	4338.7	4402.3	4461.3	4721.5	4732.0	5170.8	5070.2	4618.6	4837.2
57.5°	4473.4	4447.6	4566.4	4681.4	5037.6	5065.6	5549.7	5412.0	4842.5	5111.0
60°	4692.7	4674.6	4766.8	4937.0	5391.6	5436.3	5950.6	5719.9	5006.6	5328.1
62.5°	5137.5	5092.1	5106.5	5257.0	5837.9	5896.9	6402.9	5988.4	5088.3	5412.8
65°	5802.4	5724.4	5651.8	5756.2	6466.5	6524.7	6913.5	6199.5	5058.1	5248.7
67.5°	6639.7	6562.5	6473.3	6571.6	7392.3	7438.4	7543.6	6318.2	4819.8	4616.3
70°	7330.3	7301.5	7408.2	7812.9	8871.1	8872.6	8351.4	6219.9	4167.0	3272.9
72.5°	7238.8	7221.4	7783.4	9034.5	10734.8	10694.8	9116.1	5475.6	2807.0	1476.5
75°	5938.5	6051.2	6921.8	9012.5	11404.3	11399.0	8647.9	3481.0	1161.1	611.9
77.5°	3184.4	3363.0	4493.8	6654.1	8902.8	9036.7	6080.0	1217.8	498.5	391.8
80°	1038.5	1194.4	1791.2	3387.9	5785.0	5760.0	2605.8	478.0	341.1	277.6
82.5°	441.0	459.1	800.3	1599.8	2968.9	2922.7	829.8	274.6	239.8	189.9
85°	172.5	192.9	353.2	739.8	1285.9	1257.9	299.5	136.2	153.5	124.0
87.5°	56.7	68.8	126.3	253.4	400.1	385.8	73.4	46.9	66.6	56.7
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°
1864.5	0°	1864.5	1864.5	1864.5	1864.5	1864.5	1864.5	1864.5	1864.5	1864.5	1864.5
1869.8	2.5°	1880.4	1892.5	1906.9	1928.1	1946.2	1961.3	1977.2	1987.1	1990.8	2002.2
1872.8	5°	1894.0	1920.5	1956.1	1990.8	2024.9	2045.3	2063.5	2072.5	2080.9	2086.9
1881.2	7.5°	1916.7	1950.8	2006.7	2052.1	2080.9	2097.5	2109.6	2106.6	2109.6	2111.1
1890.2	10°	1936.4	1984.0	2050.6	2093.7	2115.7	2116.4	2113.4	2102.8	2097.5	2098.3
1903.9	12.5°	1959.8	2012.8	2084.6	2120.9	2127.0	2110.4	2097.5	2079.3	2072.5	2069.5
1924.3	15°	1991.6	2052.1	2121.7	2135.3	2120.2	2099.0	2077.1	2047.6	2032.4	2020.3
1959.1	17.5°	2030.2	2096.7	2150.4	2140.6	2108.1	2073.3	2037.7	1993.1	1962.1	1949.2
2006.7	20°	2083.9	2143.6	2172.4	2129.3	2080.1	2027.2	1966.6	1912.2	1883.4	1870.6
2067.2	22.5°	2148.9	2206.4	2193.6	2109.6	2040.0	1955.3	1879.7	1839.6	1825.2	1816.1
2145.2	25°	2226.8	2276.0	2208.7	2080.9	1974.2	1860.0	1801.7	1788.9	1782.1	1775.3
2240.5	27.5°	2328.2	2354.7	2220.0	2038.5	1871.3	1758.6	1737.5	1739.7	1737.5	1726.1
2372.8	30°	2462.1	2456.8	2230.6	1969.7	1753.3	1667.1	1668.6	1678.5	1680.0	1672.4
2557.4	32.5°	2638.3	2584.6	2235.9	1880.4	1640.6	1586.9	1588.4	1599.0	1606.6	1593.7
2798.7	35°	2851.6	2733.6	2227.6	1768.5	1553.6	1510.5	1499.2	1502.2	1504.5	1492.4
3091.4	37.5°	3100.5	2900.8	2190.5	1644.4	1481.8	1435.6	1411.4	1391.0	1378.9	1367.6
3422.7	40°	3373.5	3083.1	2122.5	1523.4	1401.6	1356.2	1319.9	1281.3	1240.5	1225.4
3773.7	42.5°	3659.5	3270.7	2040.0	1407.7	1309.3	1272.3	1233.7	1177.7	1116.4	1085.4
4138.3	45°	3956.0	3462.8	1959.1	1293.4	1214.8	1198.9	1154.3	1086.9	1020.4	981.1
4503.6	47.5°	4246.4	3644.3	1840.3	1178.5	1126.3	1143.7	1108.9	1046.9	972.7	910.7
4865.9	50°	4524.0	3814.5	1645.9	1062.0	1054.4	1127.0	1093.8	1004.5	919.8	840.4
5221.4	52.5°	4799.4	3952.2	1397.1	956.1	1015.8	1122.5	1074.1	975.8	872.1	788.9
5555.8	55°	5033.1	4023.3	1157.3	865.3	959.9	1083.9	1050.6	941.7	804.8	716.3
5785.0	57.5°	5166.2	3965.8	957.6	776.1	882.7	1020.4	1010.6	869.1	724.6	656.6
5829.6	60°	5108.7	3732.8	794.2	698.2	809.3	951.6	941.0	797.2	663.4	599.1
5590.6	62.5°	4791.8	3288.8	664.9	630.1	742.8	881.2	871.4	742.0	616.5	554.4
4955.9	65°	4153.4	2675.4	564.3	573.4	675.5	796.5	810.9	695.9	579.4	518.9
3834.2	67.5°	3167.8	1937.9	485.6	524.2	609.7	713.3	754.9	662.6	548.4	490.9
2218.5	70°	1805.5	1100.6	419.0	476.5	551.4	636.1	711.8	636.1	515.1	467.5
831.3	72.5°	684.5	505.3	362.3	428.9	495.4	571.1	664.1	594.5	476.5	441.0
429.6	75°	365.3	307.9	304.8	372.9	431.1	507.5	604.4	553.7	447.8	465.9
297.3	77.5°	248.9	217.8	254.9	319.2	360.8	437.2	540.8	491.7	388.0	386.5
205.7	80°	172.5	154.3	207.3	257.2	279.1	367.6	472.0	422.1	316.2	295.0
127.1	82.5°	103.6	100.6	155.1	192.1	197.4	283.7	391.1	354.0	258.7	225.4
75.6	85°	56.7	59.8	99.1	112.7	115.0	198.2	306.3	273.8	198.9	167.2
27.2	87.5°	15.9	20.4	36.3	44.6	55.2	102.9	182.3	162.6	99.8	69.6
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>
1864.5
2001.4
2088.4
2113.4
2099.8
2068.0
2024.1
1950.0
1869.1
1817.6
1775.3
1728.4
1676.2
1599.8
1500.7
1375.1
1232.2
1089.2
978.0
903.9
833.6
779.8
708.7
647.5
590.0
544.6
509.1
481.8
461.4
434.9
<i>481.1</i>
356.3
282.1
226.9
168.7
69.6
0.0

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