

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: P940899

Luminaire Tested: **GALN-SB4A-935-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940899
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-SB4A-935-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12361 lumens
Efficiency: N/A
Efficacy: 108.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

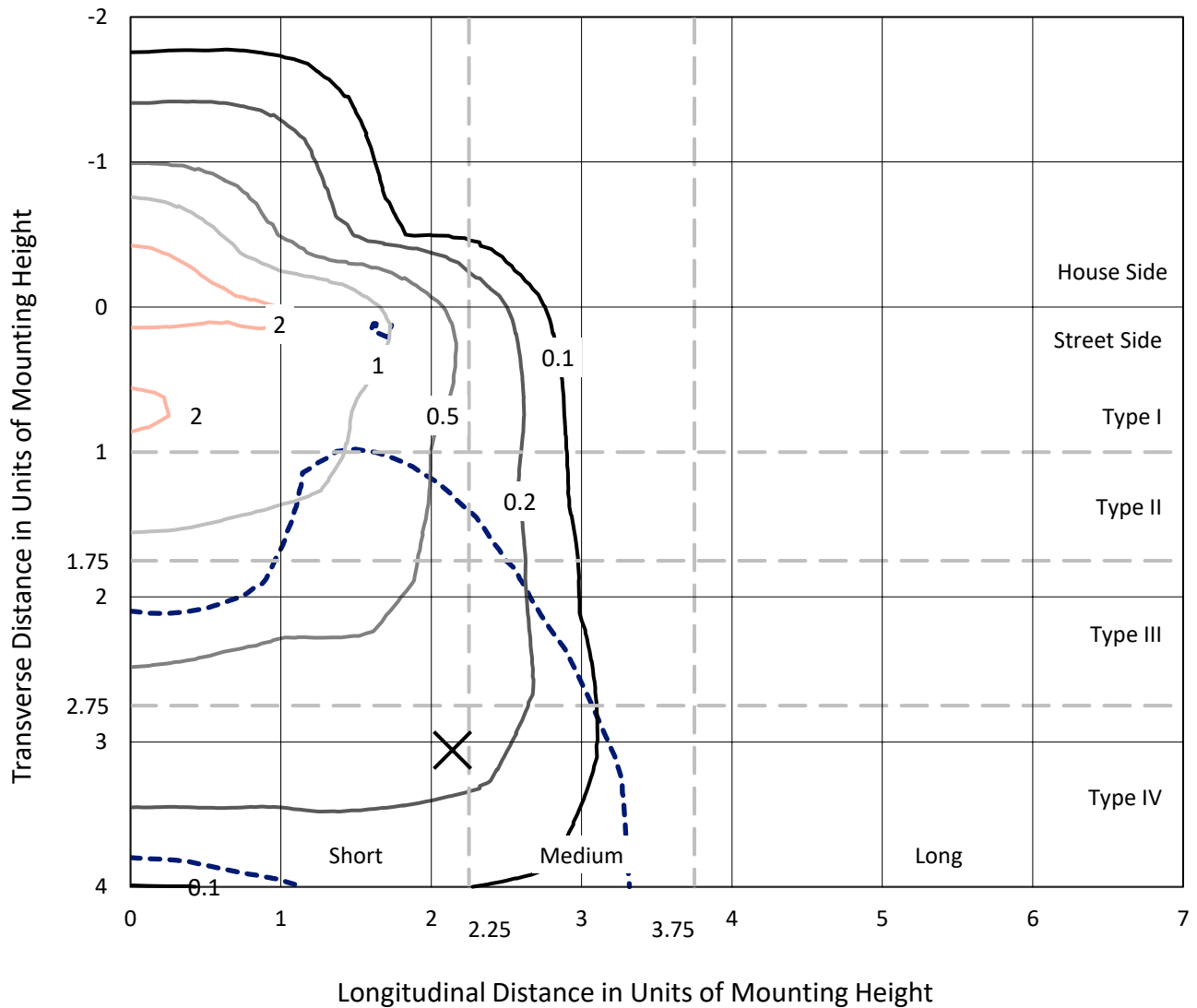
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P940899
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Iso-Footcandle Lines of Horizontal Illumination

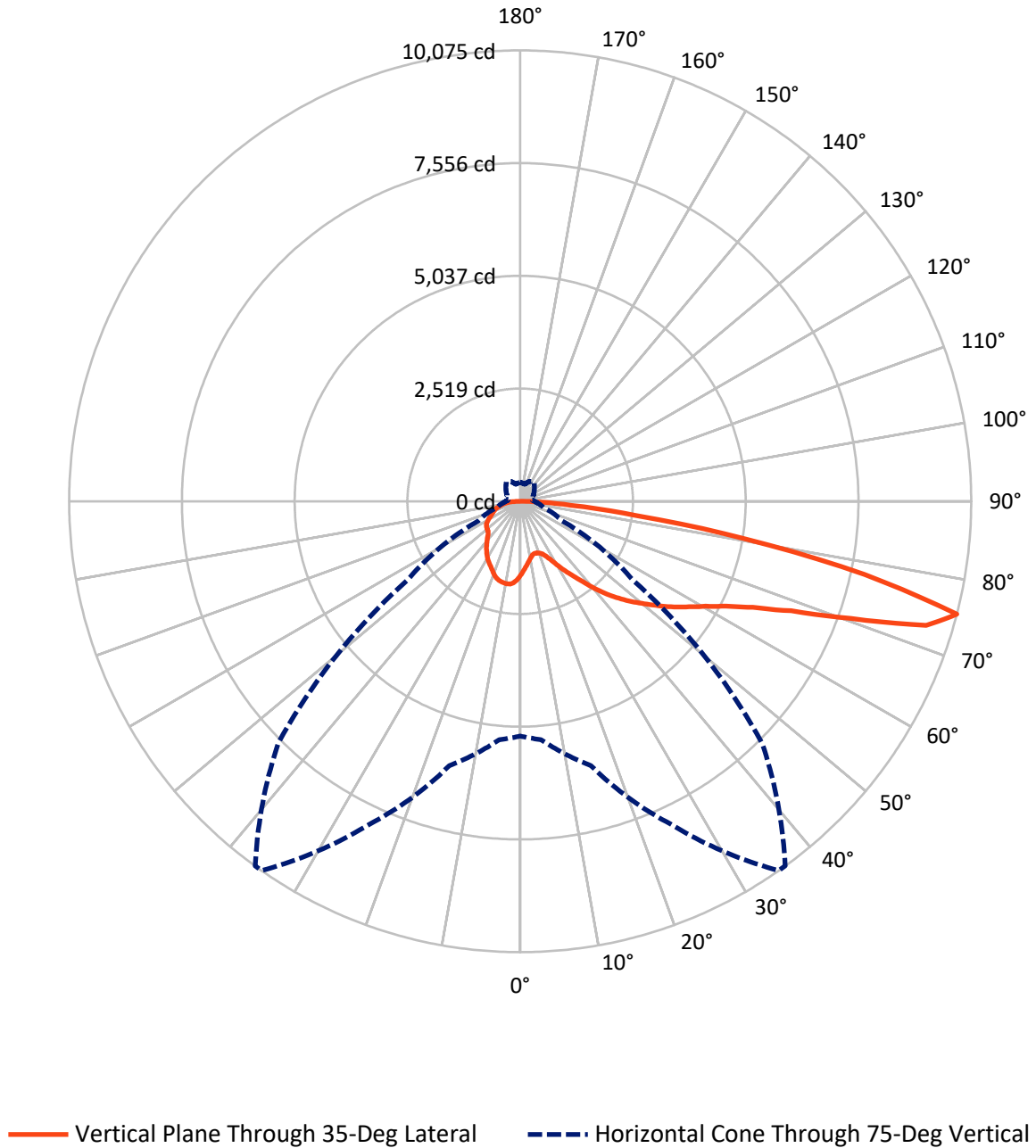
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type IV - Short - N/A

REPORT NUMBER: P940899
CATALOG NUMBER: GALN-SB4A-935-U-T4FT

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2941.6	0.0	2941.6
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	9419.4	0.0	9419.4
	% Fixture	76.2	0.0	76.2
Total	Lumens	12361.0	0.0	12361.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.0	1.3
10°-20°	449.8	3.6
20°-30°	755.4	6.1
30°-40°	1174.0	9.5
40°-50°	1742.5	14.1
50°-60°	2405.7	19.5
60°-70°	2918.6	23.6
70°-80°	2412.0	19.5
80°-90°	346.9	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°	12361.0	100.0
0°-180°	12361.0	100.0



REPORT NUMBER: P940899

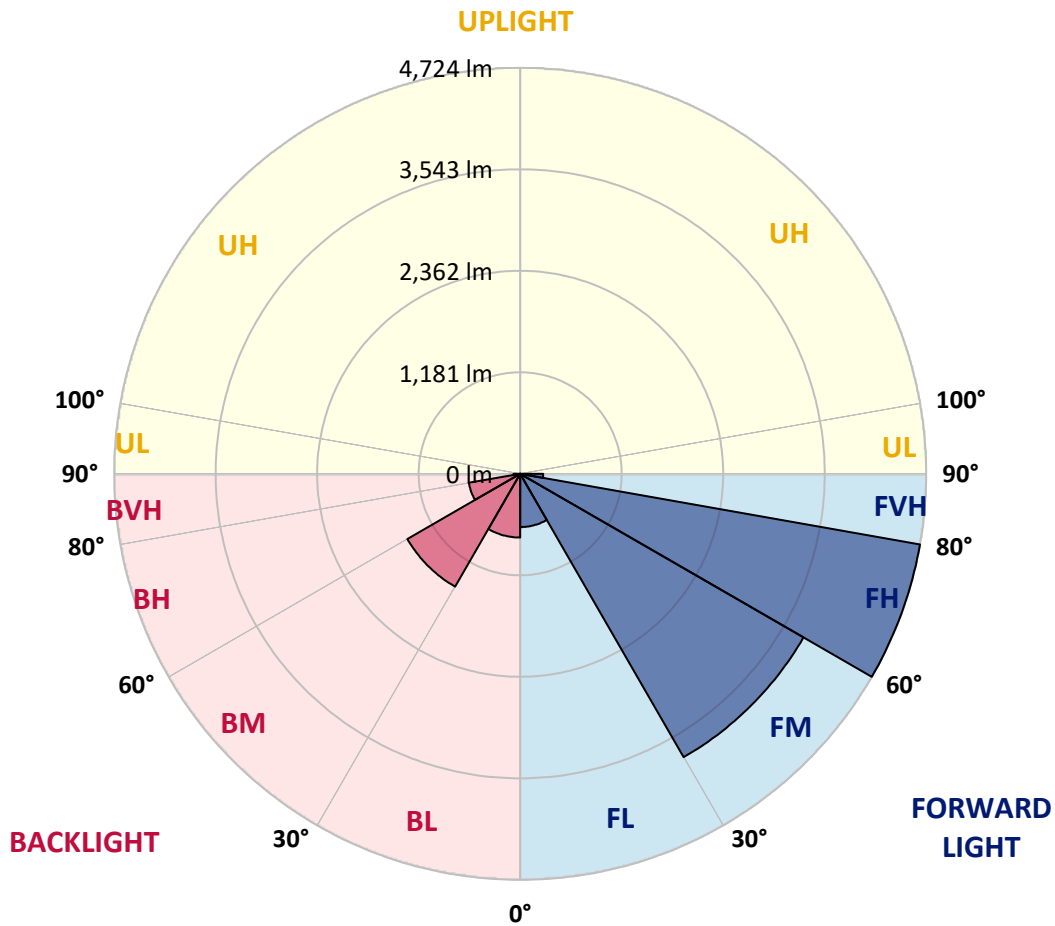
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	619.9	5.0			
FM (30°-60°)	3806.5	30.8			
FH (60°-80°)	4724.2	38.2			G2/5000
FVH (80°-90°)	268.8	2.2			G3/500
BL (0°-30°)	741.3	6.0	B2/1000		
BM (30°-60°)	1515.7	12.3	B2/2500		
BH (60°-80°)	606.5	4.9	B2/1000		G2/1000
BVH (80°-90°)	78.1	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



REPORT NUMBER: P940899

CATALOG NUMBER: GALN-SB4A-935-U-T4FT

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	1647.2	1647.2	1647.2	1647.2	1647.2	1647.2	1647.2	1647.2	1647.2	1647.2
2.5°	1518.9	1528.2	1532.3	1530.2	1540.3	1538.9	1553.0	1570.3	1594.4	1617.8
5°	1401.9	1412.0	1420.7	1428.7	1448.1	1454.1	1476.1	1509.5	1553.6	1598.4
7.5°	1293.0	1301.7	1315.1	1329.8	1362.5	1368.5	1405.3	1457.4	1518.9	1584.4
10°	1204.2	1212.8	1226.9	1243.6	1284.3	1291.7	1338.5	1408.0	1488.1	1571.0
12.5°	1166.1	1168.7	1176.8	1193.5	1228.9	1233.6	1285.0	1364.5	1458.1	1561.0
15°	1164.1	1169.4	1170.1	1178.8	1208.2	1210.2	1257.6	1336.5	1439.4	1559.0
17.5°	1184.1	1188.1	1182.1	1187.4	1212.2	1215.5	1252.9	1323.1	1433.4	1567.7
20°	1237.6	1240.9	1222.9	1215.5	1233.6	1236.2	1273.0	1331.8	1439.4	1585.7
22.5°	1351.2	1353.2	1309.1	1279.0	1280.3	1281.7	1313.7	1367.2	1462.8	1618.5
25°	1528.2	1526.9	1456.7	1398.6	1365.2	1357.8	1379.2	1424.7	1502.2	1661.9
27.5°	1735.4	1725.4	1655.2	1568.3	1495.5	1484.8	1480.1	1499.5	1558.3	1719.4
30°	1969.3	1959.9	1884.4	1770.8	1669.9	1652.5	1608.4	1598.4	1641.8	1797.5
32.5°	2225.9	2219.9	2129.6	1992.0	1857.0	1837.0	1762.8	1736.1	1770.1	1915.8
35°	2441.0	2435.7	2360.9	2219.2	2054.1	2029.4	1953.9	1923.8	1941.2	2067.5
37.5°	2635.5	2632.8	2568.7	2457.1	2286.7	2256.6	2171.7	2161.7	2158.4	2267.3
40°	2815.9	2809.2	2742.4	2683.6	2557.3	2529.9	2455.1	2446.4	2421.0	2513.2
42.5°	3015.7	2998.3	2901.5	2874.1	2840.0	2817.3	2772.5	2773.8	2717.7	2790.5
45°	3178.8	3168.7	3069.2	3053.1	3089.9	3080.5	3119.3	3129.3	3020.4	3081.2
47.5°	3353.8	3344.5	3260.3	3248.9	3348.5	3351.2	3488.2	3491.5	3315.8	3383.2
50°	3569.7	3556.3	3472.8	3486.8	3598.4	3608.4	3859.0	3836.3	3587.7	3690.0
52.5°	3712.0	3720.0	3702.0	3724.7	3877.1	3886.4	4223.9	4165.7	3857.0	3992.7
55°	3816.9	3833.0	3889.1	3941.2	4171.1	4180.4	4568.0	4479.1	4080.2	4273.3
57.5°	3951.9	3929.2	4034.1	4135.7	4450.4	4475.1	4902.8	4781.2	4278.0	4515.2
60°	4145.7	4129.7	4211.2	4361.5	4763.1	4802.6	5257.0	5053.2	4423.0	4707.0
62.5°	4538.6	4498.5	4511.2	4644.2	5157.4	5209.5	5656.6	5290.4	4495.2	4781.9
65°	5126.0	5057.2	4993.0	5085.2	5712.7	5764.2	6107.6	5476.8	4468.5	4636.8
67.5°	5865.7	5797.6	5718.7	5805.6	6530.6	6571.4	6664.3	5581.7	4258.0	4078.2
70°	6475.8	6450.4	6544.6	6902.1	7837.0	7838.3	7377.9	5494.9	3681.3	2891.4
72.5°	6395.0	6379.6	6876.1	7981.3	9483.5	9448.1	8053.5	4837.3	2479.8	1304.4
75°	5246.3	5345.8	6115.0	7962.0	10074.9	10070.2	7639.9	3075.2	1025.7	540.6
77.5°	2813.2	2971.0	3970.0	5878.4	7865.1	7983.3	5371.2	1075.9	440.4	346.1
80°	917.5	1055.1	1582.4	2993.0	5110.6	5088.6	2302.1	422.3	301.4	245.2
82.5°	389.6	405.6	707.0	1413.3	2622.8	2582.0	733.0	242.6	211.8	167.7
85°	152.4	170.4	312.1	653.5	1136.0	1111.3	264.6	120.3	135.7	109.6
87.5°	50.1	60.8	111.6	223.9	353.5	340.8	64.8	41.4	58.8	50.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P940899
 CATALOG NUMBER: GALN-SB4A-935-U-T4FT

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1647.2	0°	1647.2	1647.2	1647.2	1647.2	1647.2	1647.2	1647.2	1647.2	1647.2	1647.2
1651.9	2.5°	1661.2	1671.9	1684.6	1703.3	1719.4	1732.7	1746.8	1755.4	1758.8	1768.8
1654.5	5°	1673.2	1696.6	1728.0	1758.8	1788.9	1806.9	1822.9	1831.0	1838.3	1843.6
1661.9	7.5°	1693.3	1723.4	1772.8	1812.9	1838.3	1853.0	1863.7	1861.0	1863.7	1865.0
1669.9	10°	1710.7	1752.8	1811.6	1849.7	1869.0	1869.7	1867.0	1857.7	1853.0	1853.7
1681.9	12.5°	1731.4	1778.2	1841.6	1873.7	1879.1	1864.4	1853.0	1837.0	1831.0	1828.3
1700.0	15°	1759.4	1812.9	1874.4	1886.4	1873.0	1854.3	1835.0	1808.9	1795.5	1784.8
1730.7	17.5°	1793.5	1852.3	1899.8	1891.1	1862.4	1831.6	1800.2	1760.8	1733.4	1722.0
1772.8	20°	1841.0	1893.8	1919.2	1881.1	1837.6	1790.9	1737.4	1689.3	1663.9	1652.5
1826.3	22.5°	1898.4	1949.2	1937.9	1863.7	1802.2	1727.4	1660.6	1625.1	1612.4	1604.4
1895.1	25°	1967.3	2010.7	1951.2	1838.3	1744.1	1643.2	1591.7	1580.4	1574.3	1568.3
1979.3	27.5°	2056.8	2080.2	1961.3	1800.9	1653.2	1553.6	1534.9	1536.9	1534.9	1524.9
2096.2	30°	2175.1	2170.4	1970.6	1740.1	1549.0	1472.8	1474.1	1482.8	1484.1	1477.5
2259.3	32.5°	2330.8	2283.3	1975.3	1661.2	1449.4	1401.9	1403.3	1412.6	1419.3	1408.0
2472.5	35°	2519.2	2415.0	1967.9	1562.3	1372.5	1334.5	1324.4	1327.1	1329.1	1318.4
2731.1	37.5°	2739.1	2562.7	1935.2	1452.7	1309.1	1268.3	1246.9	1228.9	1218.2	1208.2
3023.7	40°	2980.3	2723.7	1875.1	1345.8	1238.2	1198.1	1166.1	1132.0	1095.9	1082.5
3333.8	42.5°	3232.9	2889.4	1802.2	1243.6	1156.7	1124.0	1089.9	1040.4	986.3	958.9
3655.9	45°	3494.8	3059.2	1730.7	1142.7	1073.2	1059.1	1019.7	960.2	901.4	866.7
3978.6	47.5°	3751.4	3219.5	1625.8	1041.1	995.0	1010.4	979.6	924.8	859.3	804.5
4298.7	50°	3996.7	3369.9	1454.1	938.2	931.5	995.7	966.3	887.4	812.6	742.4
4612.8	52.5°	4239.9	3491.5	1234.2	844.6	897.4	991.7	948.9	862.0	770.5	697.0
4908.1	55°	4446.4	3554.3	1022.4	764.5	848.0	957.6	928.2	831.9	711.0	632.8
5110.6	57.5°	4564.0	3503.5	846.0	685.6	779.8	901.4	892.8	767.8	640.2	580.0
5150.0	60°	4513.2	3297.7	701.6	616.8	715.0	840.6	831.3	704.3	586.0	529.2
4938.9	62.5°	4233.2	2905.5	587.4	556.6	656.2	778.5	769.8	655.5	544.6	489.8
4378.2	65°	3669.3	2363.5	498.5	506.5	596.7	703.6	716.3	614.8	511.9	458.4
3387.3	67.5°	2798.5	1712.0	429.0	463.1	538.6	630.1	666.9	585.4	484.5	433.7
1959.9	70°	1595.1	972.3	370.2	421.0	487.1	562.0	628.8	562.0	455.1	413.0
734.4	72.5°	604.7	446.4	320.1	378.9	437.7	504.5	586.7	525.2	421.0	389.6
379.6	75°	322.8	272.0	269.3	329.4	380.9	448.4	533.9	489.1	395.6	411.6
262.6	77.5°	219.8	192.5	225.2	282.0	318.7	386.2	477.8	434.3	342.8	341.5
181.8	80°	152.4	136.3	183.1	227.2	246.6	324.8	417.0	372.9	279.3	260.6
112.3	82.5°	91.5	88.9	137.0	169.7	174.4	250.6	345.5	312.7	228.5	199.1
66.8	85°	50.1	52.8	87.5	99.6	101.6	175.1	270.6	241.9	175.7	147.7
24.1	87.5°	14.0	18.0	32.1	39.4	48.8	90.9	161.0	143.7	88.2	61.5
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>
1647.2
1768.1
1845.0
1867.0
1855.0
1826.9
1788.2
1722.7
1651.2
1605.8
1568.3
1526.9
1480.8
1413.3
1325.8
1214.8
1088.5
962.3
864.0
798.5
736.4
688.9
626.1
572.0
521.2
481.1
449.7
425.7
407.6
384.2
425.0
314.7
249.2
200.5
149.0
61.5
0.0

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