

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: P940129

Luminaire Tested: **GALN-SB3A-750-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940129
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-SB3A-750-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14074 lumens
Efficiency: N/A
Efficacy: 166.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

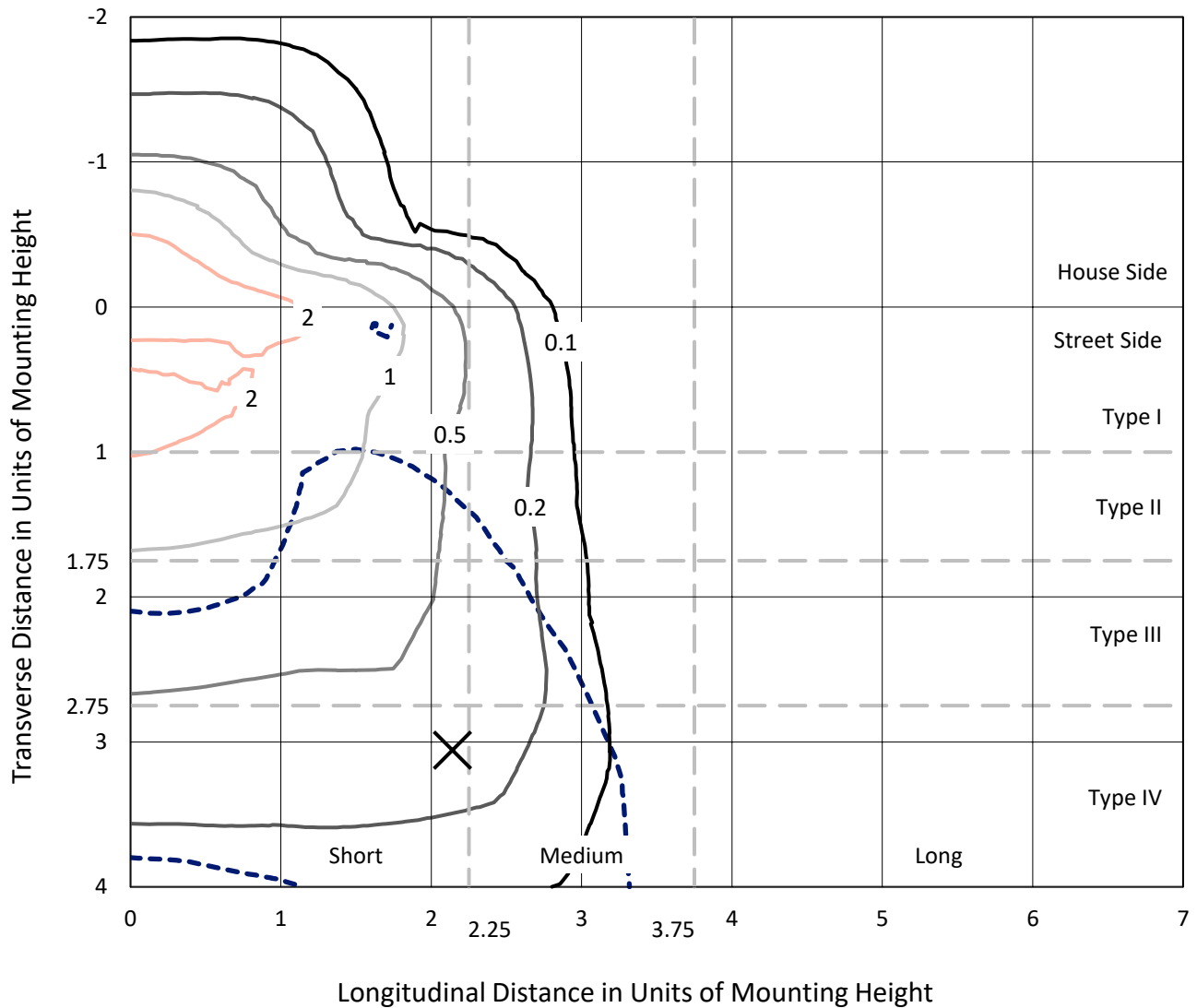
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

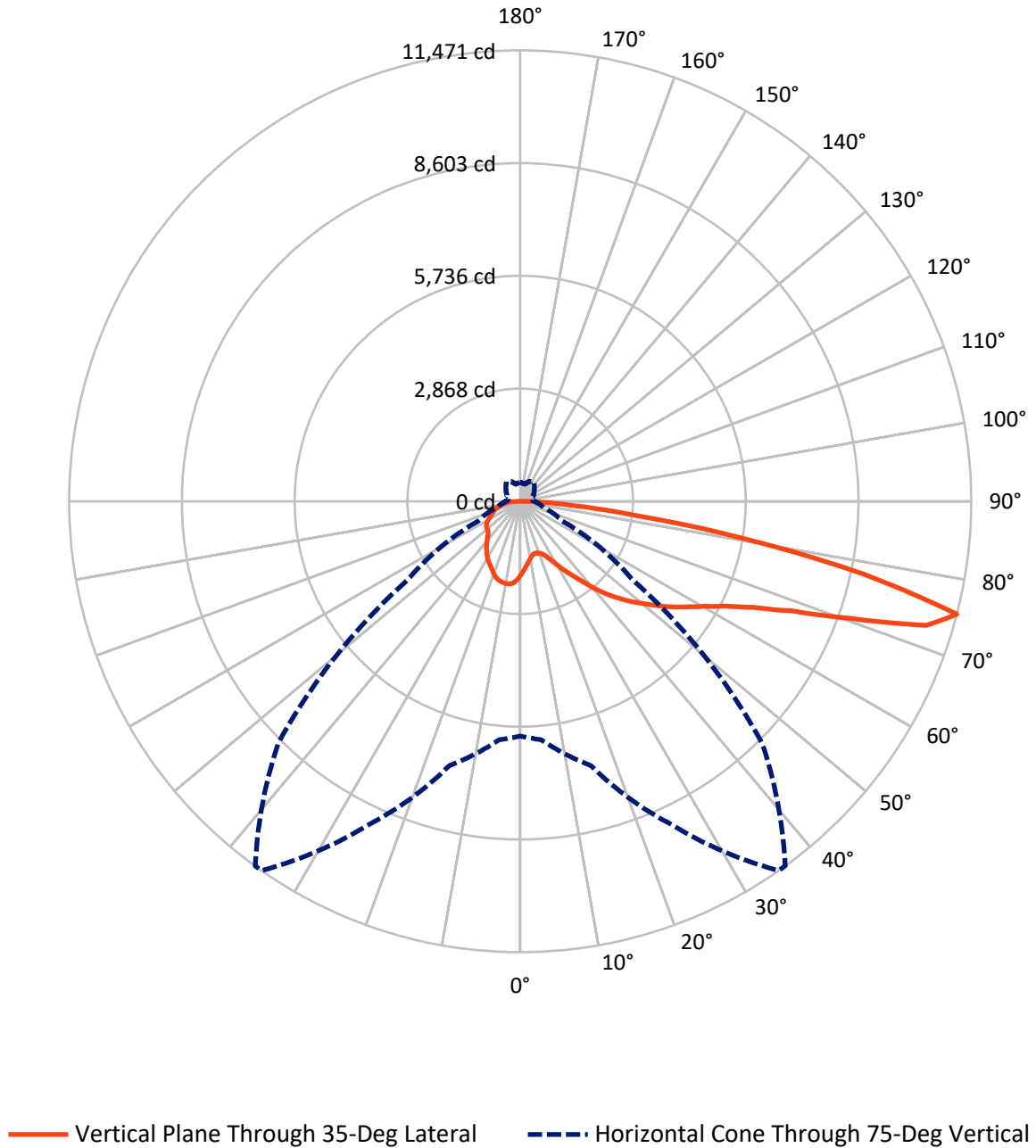
× Max cd
 - - - 1/2 Max cd



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	3349.3	0.0	3349.3
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	10724.7	0.0	10724.7
	% Fixture	76.2	0.0	76.2
Total	Lumens	14074.0	0.0	14074.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.6	1.3
10°-20°	512.2	3.6
20°-30°	860.1	6.1
30°-40°	1336.7	9.5
40°-50°	1984.0	14.1
50°-60°	2739.1	19.5
60°-70°	3323.1	23.6
70°-80°	2746.3	19.5
80°-90°	395.0	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°	14074.0	100.0
0°-180°	14074.0	100.0

Coefficient of Utilization



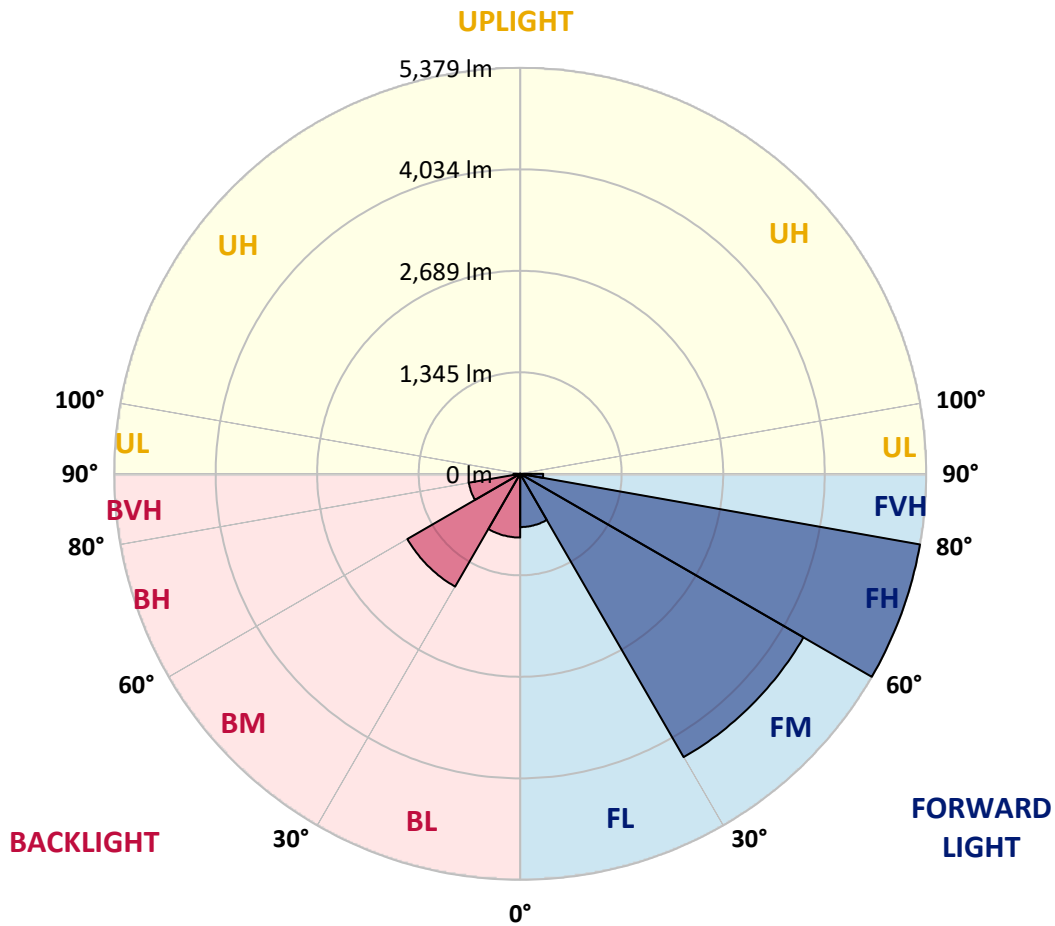
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	705.8	5.0			
FM (30°-60°)	4334.0	30.8			
FH (60°-80°)	5378.9	38.2			G3/7500
FVH (80°-90°)	306.1	2.2			G3/500
BL (0°-30°)	844.1	6.0	B2/1000		
BM (30°-60°)	1725.7	12.3	B2/2500		
BH (60°-80°)	690.5	4.9	B2/1000		G2/1000
BVH (80°-90°)	88.9	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°	1875.5	1875.5	1875.5	1875.5	1875.5	1875.5	1875.5	1875.5	1875.5	1875.5
2.5°	1729.4	1740.0	1744.6	1742.3	1753.7	1752.2	1768.2	1788.0	1815.3	1842.0
5°	1596.2	1607.6	1617.5	1626.7	1648.7	1655.6	1680.7	1718.7	1768.9	1819.9
7.5°	1472.2	1482.1	1497.3	1514.1	1551.3	1558.2	1600.0	1659.4	1729.4	1803.9
10°	1371.0	1380.9	1396.9	1415.9	1462.3	1470.7	1524.0	1603.1	1694.4	1788.7
12.5°	1327.7	1330.7	1339.8	1358.8	1399.2	1404.5	1463.1	1553.6	1660.1	1777.3
15°	1325.4	1331.5	1332.2	1342.1	1375.6	1377.9	1431.9	1521.7	1638.8	1775.0
17.5°	1348.2	1352.8	1345.9	1352.0	1380.2	1384.0	1426.6	1506.5	1632.0	1784.9
20°	1409.1	1412.9	1392.3	1384.0	1404.5	1407.5	1449.4	1516.3	1638.8	1805.5
22.5°	1538.4	1540.7	1490.5	1456.2	1457.8	1459.3	1495.8	1556.7	1665.5	1842.7
25°	1740.0	1738.5	1658.6	1592.4	1554.4	1546.0	1570.4	1622.1	1710.4	1892.2
27.5°	1975.9	1964.5	1884.6	1785.7	1702.7	1690.6	1685.2	1707.3	1774.3	1957.6
30°	2242.2	2231.5	2145.6	2016.2	1901.3	1881.5	1831.3	1819.9	1869.4	2046.6
32.5°	2534.3	2527.5	2424.8	2268.0	2114.4	2091.5	2007.1	1976.6	2015.4	2181.3
35°	2779.3	2773.2	2688.0	2526.7	2338.8	2310.7	2224.7	2190.4	2210.2	2354.0
37.5°	3000.7	2997.7	2924.6	2797.6	2603.6	2569.3	2472.7	2461.3	2457.5	2581.5
40°	3206.2	3198.5	3122.5	3055.5	2911.7	2880.5	2795.3	2785.4	2756.5	2861.5
42.5°	3433.6	3413.9	3303.5	3272.3	3233.5	3207.7	3156.7	3158.2	3094.3	3177.2
45°	3619.3	3607.9	3494.5	3476.3	3518.1	3507.4	3551.6	3563.0	3439.0	3508.2
47.5°	3818.6	3808.0	3712.1	3699.2	3812.5	3815.6	3971.6	3975.4	3775.3	3852.1
50°	4064.4	4049.2	3954.1	3970.0	4097.1	4108.5	4393.8	4367.9	4084.9	4201.3
52.5°	4226.4	4235.6	4215.0	4240.9	4414.4	4425.0	4809.2	4743.0	4391.5	4546.0
55°	4345.9	4364.1	4428.1	4487.4	4749.1	4759.8	5201.1	5099.9	4645.7	4865.5
57.5°	4499.6	4473.7	4593.2	4708.8	5067.2	5095.3	5582.2	5443.8	4870.9	5141.0
60°	4720.2	4702.0	4794.8	4966.0	5423.2	5468.1	5985.5	5753.4	5036.0	5359.3
62.5°	5167.6	5121.9	5136.4	5287.8	5872.1	5931.5	6440.5	6023.5	5118.1	5444.5
65°	5836.4	5758.0	5685.0	5789.9	6504.4	6563.0	6954.0	6235.8	5087.7	5279.4
67.5°	6678.6	6601.0	6511.2	6610.1	7435.6	7482.0	7587.8	6355.2	4848.0	4643.4
70°	7373.2	7344.3	7451.6	7858.7	8923.1	8924.6	8400.4	6256.3	4191.4	3292.1
72.5°	7281.2	7263.7	7829.0	9087.4	10797.8	10757.4	9169.6	5507.7	2823.5	1485.1
75°	5973.3	6086.7	6962.4	9065.3	11471.1	11465.8	8698.6	3501.4	1167.9	615.5
77.5°	3203.1	3382.7	4520.1	6693.1	8955.0	9089.7	6115.6	1224.9	501.4	394.1
80°	1044.6	1201.4	1801.7	3407.8	5818.9	5793.8	2621.1	480.8	343.1	279.2
82.5°	443.6	461.8	805.0	1609.2	2986.3	2939.9	834.6	276.2	241.2	191.0
85°	173.5	194.0	355.3	744.1	1293.4	1265.3	301.3	137.0	154.4	124.8
87.5°	57.1	69.2	127.1	254.9	402.5	388.0	73.8	47.2	67.0	57.1
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°
1875.5	0°	1875.5	1875.5	1875.5	1875.5	1875.5	1875.5	1875.5	1875.5	1875.5	1875.5
1880.8	2.5°	1891.4	1903.6	1918.1	1939.4	1957.6	1972.8	1988.8	1998.7	2002.5	2013.9
1883.8	5°	1905.1	1931.8	1967.5	2002.5	2036.8	2057.3	2075.6	2084.7	2093.1	2099.1
1892.2	7.5°	1928.0	1962.2	2018.5	2064.1	2093.1	2109.8	2122.0	2118.9	2122.0	2123.5
1901.3	10°	1947.7	1995.7	2062.6	2106.0	2128.1	2128.8	2125.8	2115.1	2109.8	2110.6
1915.0	12.5°	1971.3	2024.6	2096.9	2133.4	2139.5	2122.7	2109.8	2091.5	2084.7	2081.6
1935.6	15°	2003.3	2064.1	2134.1	2147.8	2132.6	2111.3	2089.3	2059.6	2044.4	2032.2
1970.6	17.5°	2042.1	2109.0	2163.1	2153.2	2120.4	2085.4	2049.7	2004.8	1973.6	1960.7
2018.5	20°	2096.1	2156.2	2185.1	2141.7	2092.3	2039.0	1978.2	1923.4	1894.5	1881.5
2079.4	22.5°	2161.5	2219.4	2206.4	2122.0	2052.0	1966.8	1890.7	1850.3	1835.9	1826.8
2157.7	25°	2239.9	2289.3	2221.6	2093.1	1985.8	1870.9	1812.3	1799.4	1792.5	1785.7
2253.6	27.5°	2341.8	2368.5	2233.0	2050.4	1882.3	1768.9	1747.6	1749.9	1747.6	1736.2
2386.7	30°	2476.5	2471.2	2243.7	1981.2	1763.6	1676.9	1678.4	1688.3	1689.8	1682.2
2572.4	32.5°	2653.8	2599.8	2249.0	1891.4	1650.2	1596.2	1597.8	1608.4	1616.0	1603.1
2815.1	35°	2868.3	2749.7	2240.7	1778.8	1562.8	1519.4	1508.0	1511.0	1513.3	1501.1
3109.5	37.5°	3118.7	2917.8	2203.4	1654.1	1490.5	1444.1	1419.7	1399.2	1387.0	1375.6
3442.8	40°	3393.3	3101.2	2134.9	1532.3	1409.8	1364.2	1327.7	1288.9	1247.8	1232.6
3795.8	42.5°	3680.9	3289.8	2052.0	1415.9	1317.0	1279.7	1240.9	1184.6	1123.0	1091.8
4162.5	45°	3979.2	3483.1	1970.6	1301.0	1221.9	1205.9	1161.0	1093.3	1026.4	986.8
4530.0	47.5°	4271.3	3665.7	1851.1	1185.4	1132.9	1150.4	1115.4	1053.0	978.4	916.0
4894.4	50°	4550.5	3836.9	1655.6	1068.2	1060.6	1133.6	1100.2	1010.4	925.2	845.3
5252.0	52.5°	4827.5	3975.4	1405.3	961.7	1021.8	1129.1	1080.4	981.5	877.2	793.5
5588.3	55°	5062.6	4046.9	1164.1	870.4	965.5	1090.3	1056.8	947.2	809.5	720.5
5818.9	57.5°	5196.5	3989.1	963.2	780.6	887.9	1026.4	1016.5	874.2	728.9	660.4
5863.7	60°	5138.7	3754.7	798.9	702.2	814.1	957.1	946.5	801.9	667.3	602.6
5623.3	62.5°	4819.9	3308.1	668.8	633.8	747.1	886.4	876.5	746.4	620.1	557.7
4985.0	65°	4177.7	2691.1	567.6	576.7	679.4	801.2	815.6	700.0	582.8	521.9
3856.7	67.5°	3186.4	1949.3	488.5	527.3	613.2	717.5	759.3	666.5	551.6	493.8
2231.5	70°	1816.1	1107.0	421.5	479.3	554.6	639.9	715.9	639.9	518.1	470.2
836.2	72.5°	688.6	508.2	364.4	431.4	498.3	574.4	668.0	598.0	479.3	443.6
432.2	75°	367.5	309.7	306.6	375.1	433.7	510.5	607.9	556.9	450.4	468.7
299.0	77.5°	250.3	219.1	256.4	321.1	362.9	439.8	544.0	494.5	390.3	388.8
206.9	80°	173.5	155.2	208.5	258.7	280.7	369.8	474.8	424.5	318.0	296.7
127.8	82.5°	104.2	101.2	156.0	193.3	198.6	285.3	393.4	356.1	260.2	226.7
76.1	85°	57.1	60.1	99.7	113.4	115.6	199.3	308.1	275.4	200.1	168.1
27.4	87.5°	16.0	20.5	36.5	44.9	55.5	103.5	183.4	163.6	100.4	70.0
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>
1875.5
2013.2
2100.7
2125.8
2112.1
2080.1
2036.0
1961.4
1880.0
1828.3
1785.7
1738.5
1686.0
1609.2
1509.5
1383.2
1239.4
1095.6
983.8
909.2
838.4
784.4
712.9
651.3
593.5
547.8
512.0
484.7
464.1
437.5
483.9
358.4
283.8
228.3
169.7
70.0
0.0

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