

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: P947937

Luminaire Tested: **GALN-SB3A-850-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947937
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3A-850-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12849 lumens
Efficiency: N/A
Efficacy: 151.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

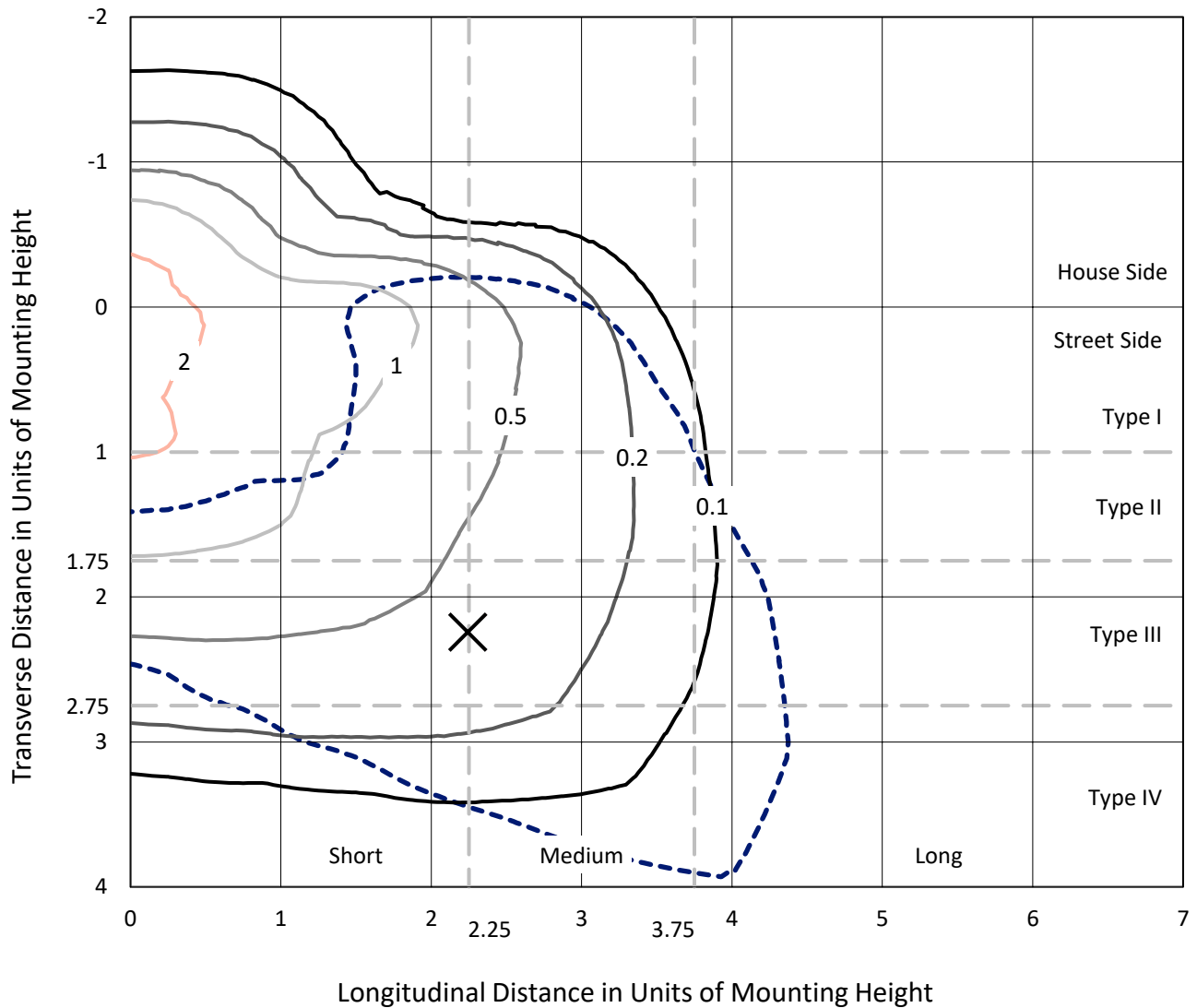
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

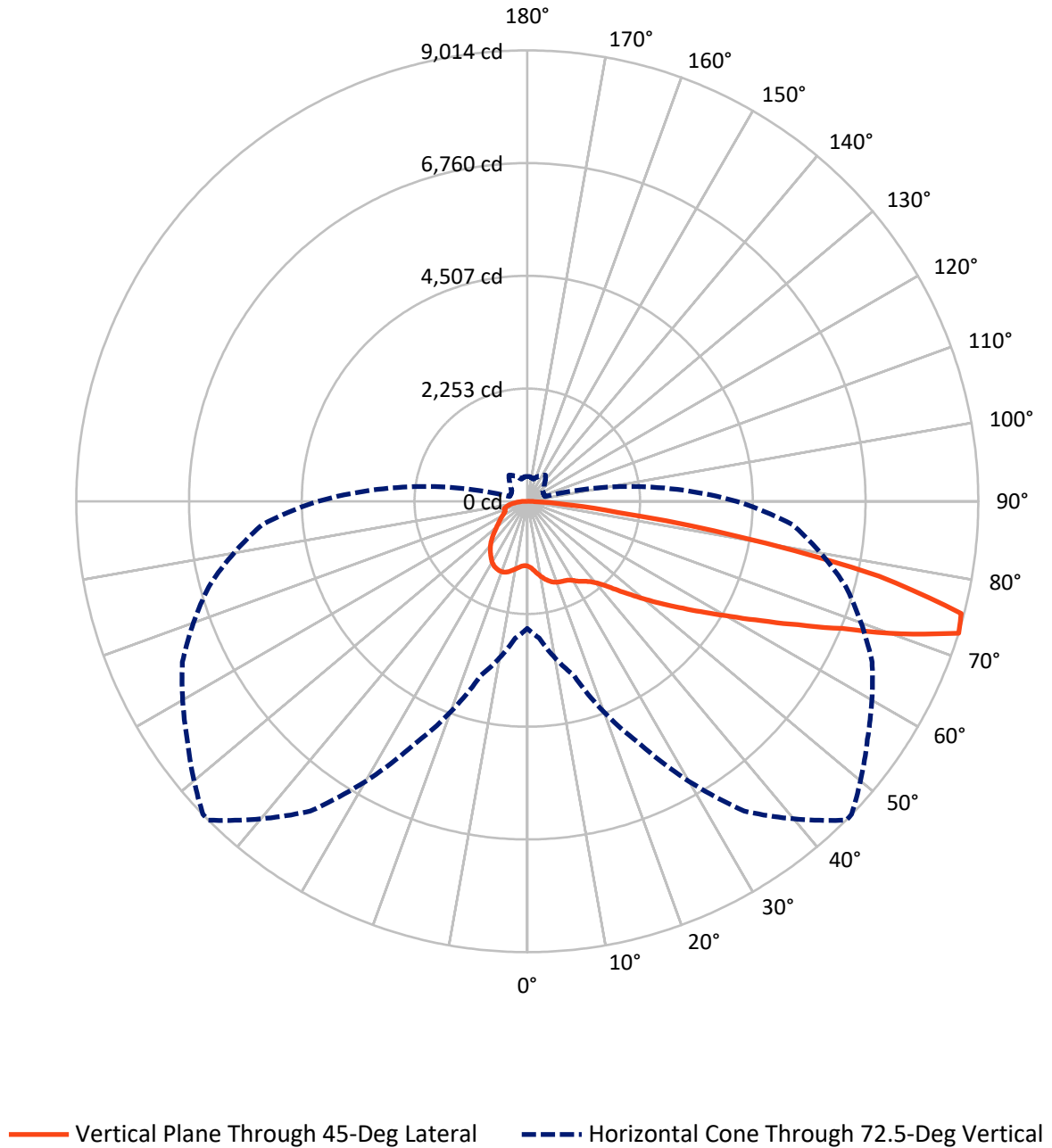
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 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	2904.7	0.0	2904.7
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	9944.3	0.0	9944.3
	% Fixture	77.4	0.0	77.4
Total	Lumens	12849.0	0.0	12849.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.9	1.0
10°-20°	439.9	3.4
20°-30°	765.2	6.0
30°-40°	1096.9	8.5
40°-50°	1544.5	12.0
50°-60°	2365.8	18.4
60°-70°	3427.2	26.7
70°-80°	2736.8	21.3
80°-90°	340.9	2.7
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°	12849.0	100.0
0°-180°	12849.0	100.0

Coefficient of Utilization



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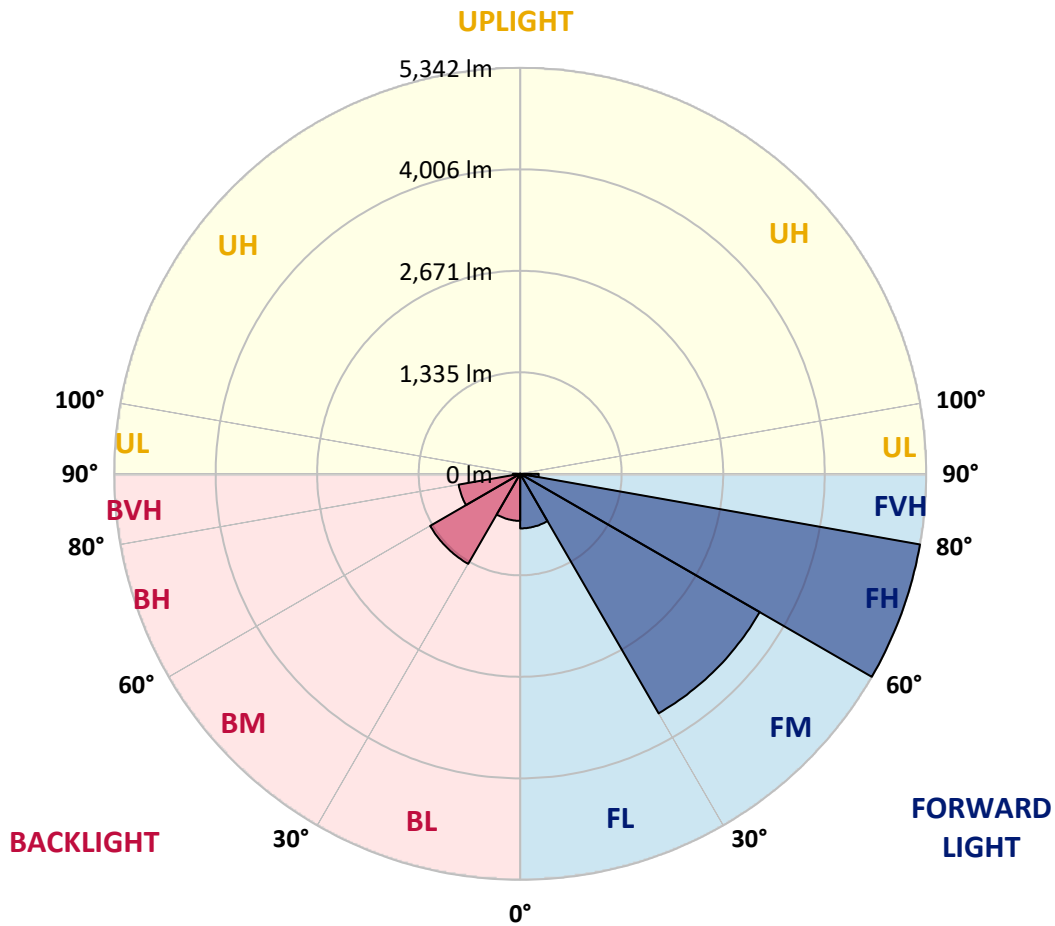
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	718.5	5.6			
FM (30°-60°)	3639.5	28.3			
FH (60°-80°)	5341.7	41.6			G3/7500
FVH (80°-90°)	244.5	1.9			G3/500
BL (0°-30°)	618.4	4.8	B2/1000		
BM (30°-60°)	1367.7	10.6	B2/2500		
BH (60°-80°)	822.2	6.4	B2/1000		G2/1000
BVH (80°-90°)	96.3	0.7			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°	45°	46°	55°	65°	75°
0°	1296.2	1296.2	1296.2	1296.2	1296.2	1296.2	1296.2	1296.2	1296.2	1296.2
2.5°	1347.0	1355.8	1347.7	1340.2	1336.8	1328.0	1327.4	1321.9	1318.6	1309.1
5°	1441.1	1452.6	1439.0	1424.1	1410.6	1388.9	1386.2	1370.7	1353.1	1332.8
7.5°	1547.3	1557.5	1541.9	1519.6	1495.9	1460.0	1459.3	1430.9	1403.2	1368.6
10°	1640.1	1653.6	1632.6	1602.2	1572.4	1531.8	1527.0	1494.5	1459.3	1414.7
12.5°	1722.0	1731.4	1711.1	1673.9	1639.4	1598.8	1592.7	1556.8	1517.6	1466.8
15°	1786.9	1799.1	1772.1	1732.1	1695.6	1655.6	1650.2	1617.7	1578.5	1525.0
17.5°	1829.6	1839.7	1812.0	1767.3	1732.1	1699.0	1694.9	1667.8	1633.3	1579.1
20°	1845.8	1856.7	1827.6	1782.2	1749.7	1724.0	1722.0	1702.3	1678.6	1629.2
22.5°	1862.1	1872.2	1834.3	1786.9	1758.5	1742.3	1741.6	1728.7	1719.3	1678.6
25°	1927.7	1930.4	1879.7	1811.3	1770.7	1756.5	1755.8	1755.1	1759.2	1727.4
27.5°	1984.6	1983.9	1940.6	1876.3	1813.3	1783.6	1782.9	1789.7	1802.5	1776.1
30°	2067.9	2060.4	2009.0	1942.0	1884.4	1838.4	1834.3	1828.2	1838.4	1817.4
32.5°	2244.5	2220.8	2137.6	2018.4	1943.3	1908.1	1902.7	1864.8	1868.8	1856.0
35°	2497.7	2466.5	2355.5	2163.3	2016.4	1966.3	1963.6	1915.6	1907.4	1895.9
37.5°	2798.9	2760.3	2631.0	2373.1	2142.3	2034.0	2029.9	1986.6	1953.5	1941.3
40°	3101.4	3052.7	2945.8	2629.0	2327.8	2147.0	2134.2	2068.5	2030.6	2010.3
42.5°	3395.2	3354.6	3263.2	2916.0	2556.6	2312.2	2283.8	2171.4	2143.0	2124.0
45°	3655.1	3618.6	3551.6	3222.6	2824.6	2536.9	2509.2	2325.7	2316.9	2316.9
47.5°	3866.3	3858.2	3787.1	3535.3	3140.7	2792.8	2744.7	2540.3	2564.0	2600.6
50°	4100.5	4078.2	4002.4	3843.3	3512.3	3085.9	3046.6	2803.6	2892.3	2992.5
52.5°	4315.7	4327.9	4243.3	4164.1	3932.0	3412.8	3343.8	3114.3	3305.9	3471.7
55°	4537.1	4537.8	4514.1	4503.2	4371.9	3774.3	3698.4	3487.9	3792.5	3998.3
57.5°	4744.9	4746.2	4781.4	4876.9	4882.3	4191.2	4105.2	3946.9	4333.3	4543.2
60°	4930.4	4939.8	5035.9	5259.3	5331.1	4669.1	4587.9	4489.0	4892.4	5103.6
62.5°	4992.6	5027.1	5241.0	5558.5	5774.4	5255.3	5175.4	5116.5	5480.0	5676.3
65°	4887.0	4966.2	5379.8	5805.5	6230.6	5951.8	5872.6	5808.3	6090.5	6275.3
67.5°	4627.8	4730.0	5371.7	6064.8	6784.3	6789.7	6715.9	6565.0	6745.1	6816.1
70°	3944.8	4097.8	4898.5	6161.6	7419.9	7935.7	7864.6	7476.1	7398.2	7054.4
72.5°	2541.7	2747.4	3607.1	5364.9	7561.4	9013.9	9009.9	8298.5	7604.7	6591.4
75°	927.3	1053.2	1675.9	3367.4	6347.0	8959.1	8985.5	8157.7	6942.0	5091.4
77.5°	337.8	369.6	546.9	1294.2	3903.5	7188.4	7243.2	6521.7	4941.2	2555.2
80°	177.3	194.9	280.2	502.2	1672.6	4269.0	4355.0	3875.8	2322.4	769.6
82.5°	98.1	106.3	157.0	272.8	753.4	1825.5	1877.0	1531.1	817.0	326.3
85°	52.8	56.2	73.8	148.9	368.2	632.9	647.1	457.6	325.6	191.6
87.5°	15.6	19.0	24.4	47.4	144.2	142.1	145.5	90.7	128.6	96.8
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°
1296.2	0°	1296.2	1296.2	1296.2	1296.2	1296.2	1296.2	1296.2	1296.2	1296.2	1296.2
1306.4	2.5°	1302.3	1300.3	1292.8	1289.4	1285.4	1284.7	1288.1	1288.8	1289.4	1290.1
1321.3	5°	1314.5	1307.7	1301.0	1296.9	1298.2	1298.9	1305.7	1310.4	1313.8	1316.5
1349.0	7.5°	1338.2	1332.8	1321.3	1320.6	1322.6	1328.7	1337.5	1348.3	1354.4	1359.2
1384.9	10°	1373.4	1363.2	1349.7	1351.7	1355.8	1364.6	1382.9	1391.7	1401.8	1410.6
1428.9	12.5°	1409.3	1400.5	1384.9	1386.2	1393.0	1408.6	1426.2	1437.0	1443.8	1450.5
1476.3	15°	1456.0	1440.4	1423.5	1423.5	1435.7	1452.6	1460.7	1469.5	1473.6	1481.0
1527.0	17.5°	1504.0	1483.7	1461.4	1460.0	1474.9	1483.0	1487.8	1489.1	1490.5	1498.6
1576.4	20°	1552.1	1529.7	1497.9	1495.2	1498.6	1497.2	1496.6	1495.2	1497.2	1507.4
1627.2	22.5°	1599.5	1573.7	1529.7	1517.6	1508.1	1495.2	1494.5	1493.9	1495.2	1505.4
1682.0	25°	1655.0	1623.8	1564.9	1528.4	1496.6	1479.0	1481.0	1481.7	1483.0	1491.2
1738.9	27.5°	1715.2	1680.7	1597.4	1525.0	1467.5	1455.3	1451.9	1453.9	1458.7	1471.5
1795.7	30°	1775.4	1734.8	1627.2	1511.5	1430.9	1414.0	1403.2	1407.9	1422.8	1435.7
1845.2	32.5°	1830.3	1789.7	1650.9	1481.7	1384.2	1357.8	1343.6	1349.7	1364.6	1369.3
1900.0	35°	1894.6	1848.5	1661.0	1434.3	1333.4	1292.8	1273.9	1265.1	1272.5	1267.8
1964.3	37.5°	1966.3	1918.3	1659.7	1372.0	1273.9	1227.2	1200.8	1167.6	1152.0	1135.8
2059.1	40°	2072.6	2003.5	1643.5	1296.9	1200.1	1157.5	1110.1	1053.9	1018.7	986.9
2212.0	42.5°	2217.4	2122.0	1613.7	1214.3	1116.8	1076.9	1012.6	946.9	891.4	838.6
2444.2	45°	2433.4	2277.0	1576.4	1126.3	1026.8	987.6	917.8	844.1	781.1	713.4
2773.8	47.5°	2744.7	2485.5	1541.2	1026.1	932.1	896.2	833.2	764.9	690.4	624.8
3250.3	50°	3172.5	2784.7	1508.8	928.7	838.6	811.6	761.5	691.8	616.6	563.8
3808.8	52.5°	3716.7	3191.5	1495.2	834.6	751.3	741.2	701.2	636.3	565.2	520.5
4459.9	55°	4341.5	3678.1	1495.2	744.6	674.8	678.2	650.5	590.2	528.6	488.7
5131.4	57.5°	4979.1	4170.9	1468.1	661.3	609.9	624.1	606.5	553.7	498.2	456.9
5837.4	60°	5566.6	4583.8	1358.5	585.5	552.3	574.7	563.2	517.8	450.1	415.6
6427.6	62.5°	6018.1	4816.6	1147.3	525.3	504.9	530.7	524.6	470.4	441.3	427.1
6912.2	65°	6244.2	4778.7	877.2	471.8	465.0	504.9	492.1	490.1	467.0	450.8
7070.0	67.5°	6105.4	4452.5	636.3	432.5	442.0	481.3	530.7	538.8	496.1	464.3
6625.9	70°	5496.9	3862.2	473.8	395.3	412.9	481.9	605.1	563.8	486.7	449.4
5314.1	72.5°	4181.7	2880.1	367.5	356.0	375.0	485.3	638.3	552.3	459.6	496.8
3310.6	75°	2391.4	1581.2	295.1	308.0	327.6	453.5	621.4	522.5	438.6	456.2
1311.8	77.5°	911.7	607.8	243.7	260.6	263.3	396.0	594.3	520.5	417.6	407.5
393.3	80°	316.1	237.6	201.7	207.1	203.7	352.0	569.9	452.8	341.8	305.9
162.4	82.5°	129.3	118.5	159.7	153.0	144.9	273.5	460.3	370.3	279.5	247.1
78.5	85°	56.2	75.1	105.6	92.7	83.9	189.5	368.9	313.4	236.2	203.7
25.7	87.5°	11.5	28.4	44.7	42.0	43.3	126.6	262.0	222.7	167.2	125.2
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>
1296.2
1292.8
1317.9
1360.5
1408.6
1453.2
1483.7
1501.3
1511.5
1512.1
1502.0
1484.4
1449.9
1386.2
1282.7
1145.9
988.9
833.9
705.3
617.3
560.5
517.1
484.6
450.1
410.2
422.4
445.4
458.9
443.4
492.8
456.2
371.6
295.8
244.4
203.1
98.1
0.0

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