

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: P947769

Luminaire Tested: **GALN-SB3A-735-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947769
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-735-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13433 lumens
Efficiency: N/A
Efficacy: 158.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

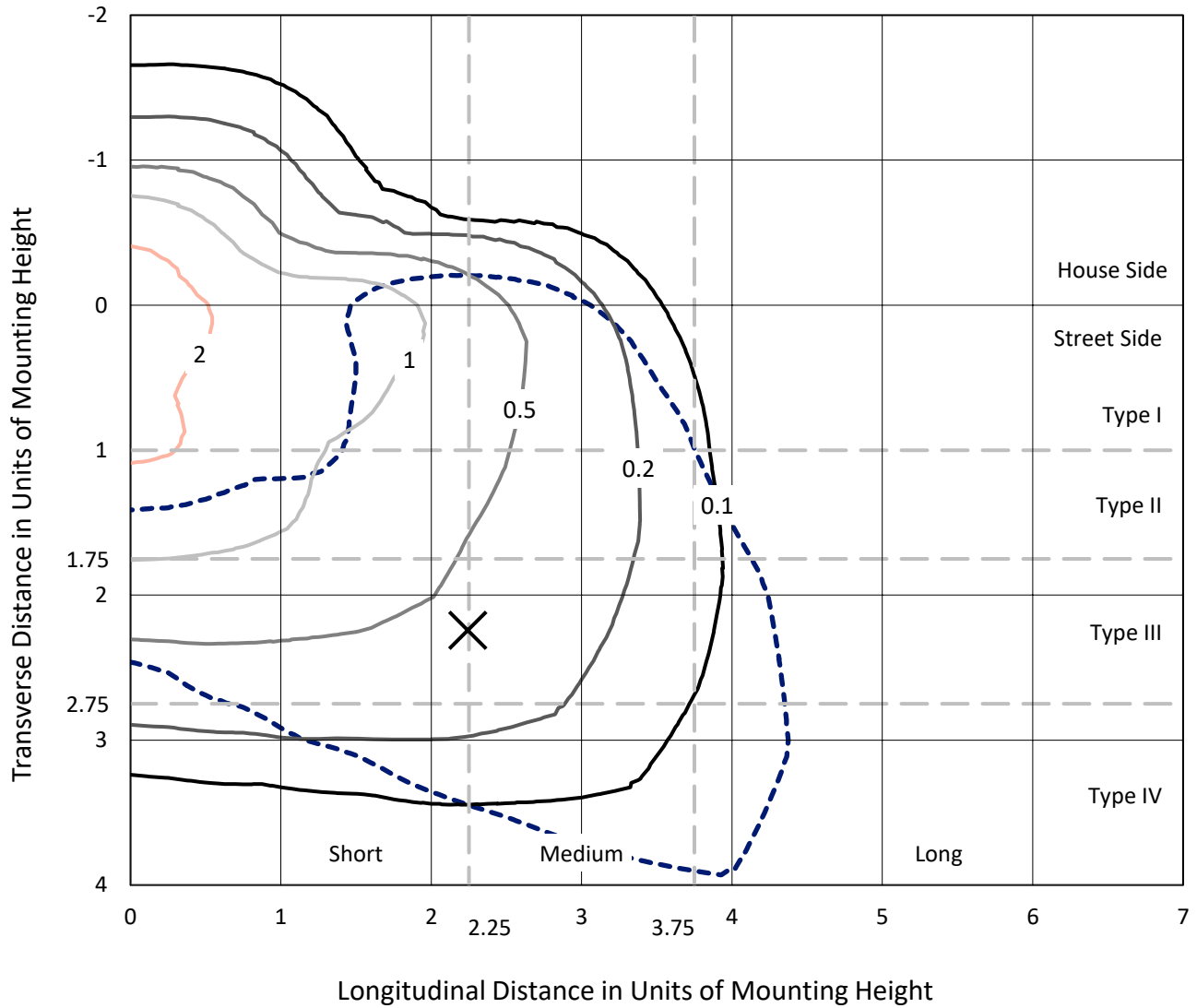
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P947769
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Iso-Footcandle Lines of Horizontal Illumination

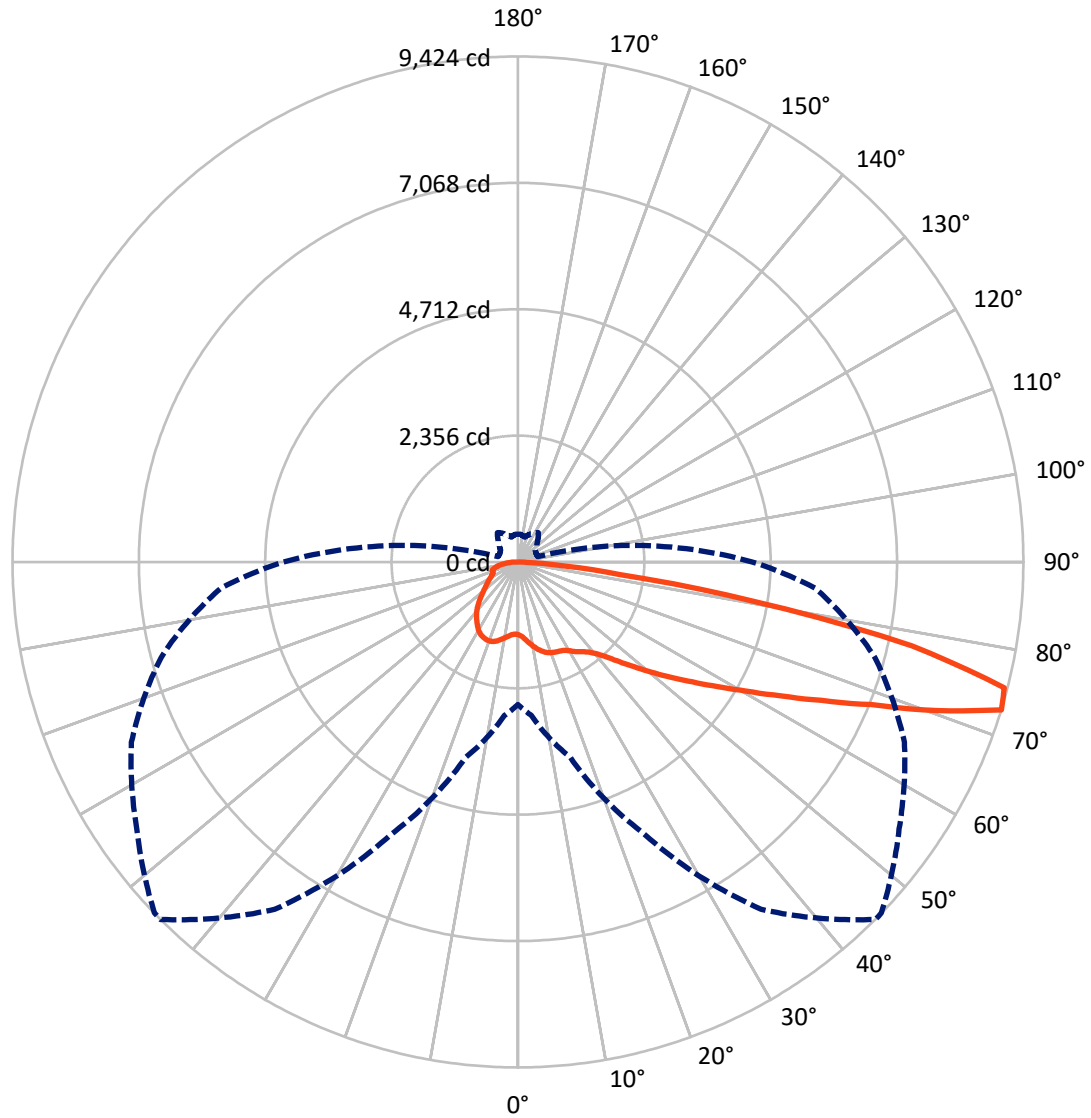
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type IV - Short - N/A

REPORT NUMBER: P947769
CATALOG NUMBER: GALN-SB3A-735-U-T4W

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P947769

CATALOG NUMBER: GALN-SB3A-735-U-T4W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3036.7	0.0	3036.7
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	10396.3	0.0	10396.3
	% Fixture	77.4	0.0	77.4
Total	Lumens	13433.0	0.0	13433.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.9	1.0
10°-20°	459.9	3.4
20°-30°	800.0	6.0
30°-40°	1146.8	8.5
40°-50°	1614.7	12.0
50°-60°	2473.3	18.4
60°-70°	3582.9	26.7
70°-80°	2861.2	21.3
80°-90°	356.3	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°	13433.0	100.0
0°-180°	13433.0	100.0

Coefficient of Utilization



REPORT NUMBER: P947769

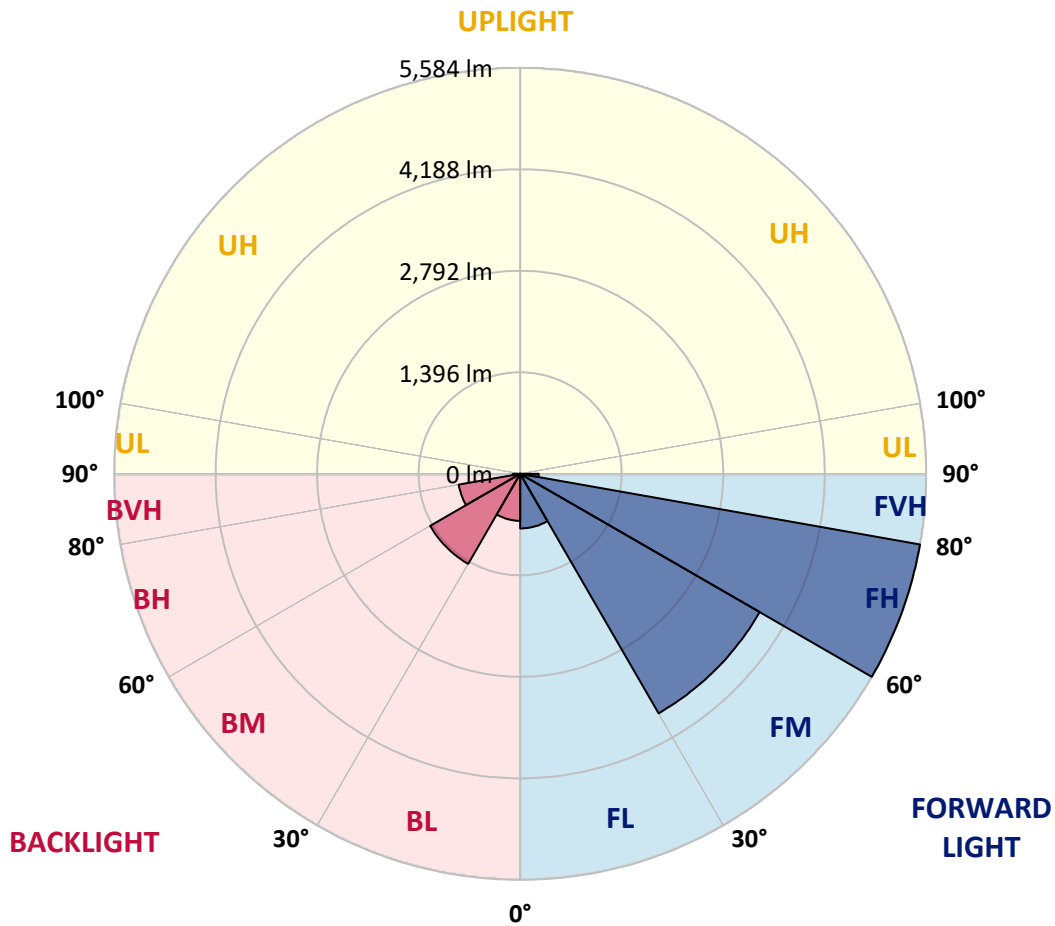
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	751.2	5.6			
FM (30°-60°)	3804.9	28.3			
FH (60°-80°)	5584.5	41.6			G3/7500
FVH (80°-90°)	255.7	1.9			G3/500
BL (0°-30°)	646.5	4.8	B2/1000		
BM (30°-60°)	1429.9	10.6	B2/2500		
BH (60°-80°)	859.6	6.4	B2/1000		G2/1000
BVH (80°-90°)	100.7	0.7			G2/225
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: P947769

CATALOG NUMBER: GALN-SB3A-735-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	1355.1	1355.1	1355.1	1355.1	1355.1	1355.1	1355.1	1355.1	1355.1	1355.1
2.5°	1408.2	1417.4	1408.9	1401.1	1397.6	1388.4	1387.7	1382.0	1378.5	1368.6
5°	1506.6	1518.6	1504.4	1488.9	1474.7	1452.1	1449.2	1433.0	1414.6	1393.3
7.5°	1617.7	1628.3	1612.0	1588.6	1563.9	1526.4	1525.7	1495.9	1466.9	1430.8
10°	1714.6	1728.8	1706.8	1675.0	1643.8	1601.4	1596.4	1562.5	1525.7	1479.0
12.5°	1800.2	1810.1	1788.9	1750.0	1713.9	1671.4	1665.1	1627.6	1586.5	1533.5
15°	1868.2	1880.9	1852.6	1810.8	1772.6	1730.9	1725.2	1691.3	1650.2	1594.3
17.5°	1912.7	1923.4	1894.3	1847.6	1810.8	1776.2	1771.9	1743.6	1707.5	1650.9
20°	1929.7	1941.1	1910.6	1863.2	1829.2	1802.4	1800.2	1779.7	1754.9	1703.3
22.5°	1946.7	1957.3	1917.7	1868.2	1838.4	1821.5	1820.8	1807.3	1797.4	1754.9
25°	2015.4	2018.2	1965.1	1893.6	1851.2	1836.3	1835.6	1834.9	1839.2	1805.9
27.5°	2074.8	2074.1	2028.8	1961.6	1895.8	1864.6	1863.9	1871.0	1884.4	1856.8
30°	2161.8	2154.1	2100.3	2030.2	1970.1	1921.9	1917.7	1911.3	1921.9	1900.0
32.5°	2346.5	2321.8	2234.7	2110.2	2031.6	1994.8	1989.2	1949.5	1953.8	1940.3
35°	2611.2	2578.6	2462.6	2261.6	2108.1	2055.7	2052.9	2002.6	1994.1	1982.1
37.5°	2926.1	2885.8	2750.6	2481.0	2239.7	2126.5	2122.2	2076.9	2042.2	2029.5
40°	3242.4	3191.5	3079.6	2748.5	2433.6	2244.6	2231.2	2162.5	2122.9	2101.7
42.5°	3549.5	3507.1	3411.5	3048.5	2672.8	2417.3	2387.6	2270.1	2240.4	2220.6
45°	3821.2	3783.0	3713.0	3369.1	2953.0	2652.2	2623.2	2431.4	2422.2	2422.2
47.5°	4042.0	4033.5	3959.2	3696.0	3283.4	2919.7	2869.5	2655.8	2680.5	2718.7
50°	4286.9	4263.5	4184.3	4018.0	3671.9	3226.1	3185.1	2931.0	3023.7	3128.5
52.5°	4511.9	4524.6	4436.2	4353.4	4110.7	3567.9	3495.7	3255.8	3456.1	3629.5
55°	4743.3	4744.0	4719.2	4707.9	4570.6	3945.8	3866.5	3646.5	3964.9	4180.0
57.5°	4960.5	4962.0	4998.8	5098.5	5104.2	4381.7	4291.8	4126.2	4530.3	4749.7
60°	5154.4	5164.3	5264.8	5498.4	5573.4	4881.3	4796.4	4693.1	5114.8	5335.6
62.5°	5219.5	5255.6	5479.2	5811.1	6036.9	5494.1	5410.6	5349.0	5729.0	5934.3
65°	5109.2	5191.9	5624.3	6069.4	6513.8	6222.3	6139.5	6072.2	6367.3	6560.5
67.5°	4838.1	4945.0	5615.8	6340.4	7092.7	7098.3	7021.2	6863.4	7051.6	7125.9
70°	4124.1	4284.0	5121.2	6441.6	7757.1	8296.4	8222.1	7815.9	7734.5	7375.0
72.5°	2657.2	2872.3	3771.0	5608.7	7905.0	9423.6	9419.4	8675.7	7950.3	6891.0
75°	969.5	1101.1	1752.1	3520.5	6635.5	9366.3	9393.9	8528.5	7257.5	5322.9
77.5°	353.1	386.4	571.8	1353.0	4081.0	7515.1	7572.4	6818.1	5165.8	2671.3
80°	185.4	203.8	293.0	525.1	1748.6	4463.1	4552.9	4051.9	2427.9	804.6
82.5°	102.6	111.1	164.2	285.2	787.6	1908.5	1962.3	1600.7	854.1	341.1
85°	55.2	58.7	77.1	155.7	385.0	661.6	676.5	478.4	340.4	200.3
87.5°	16.3	19.8	25.5	49.5	150.7	148.6	152.1	94.8	134.5	101.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P947769
 CATALOG NUMBER: GALN-SB3A-735-U-T4W

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1355.1	0°	1355.1	1355.1	1355.1	1355.1	1355.1	1355.1	1355.1	1355.1	1355.1	1355.1
1365.7	2.5°	1361.5	1359.4	1351.6	1348.1	1343.8	1343.1	1346.6	1347.3	1348.1	1348.8
1381.3	5°	1374.2	1367.2	1360.1	1355.8	1357.3	1358.0	1365.0	1370.0	1373.5	1376.4
1410.3	7.5°	1399.0	1393.3	1381.3	1380.6	1382.7	1389.1	1398.3	1409.6	1416.0	1420.9
1447.8	10°	1435.8	1425.2	1411.0	1413.2	1417.4	1426.6	1445.7	1454.9	1465.5	1474.7
1493.8	12.5°	1473.3	1464.1	1447.8	1449.2	1456.3	1472.6	1491.0	1502.3	1509.4	1516.5
1543.4	15°	1522.1	1505.9	1488.2	1488.2	1500.9	1518.6	1527.1	1536.3	1540.5	1548.3
1596.4	17.5°	1572.4	1551.1	1527.8	1526.4	1541.9	1550.4	1555.4	1556.8	1558.2	1566.7
1648.1	20°	1622.6	1599.3	1566.0	1563.2	1566.7	1565.3	1564.6	1563.2	1565.3	1575.9
1701.2	22.5°	1672.2	1645.3	1599.3	1586.5	1576.6	1563.2	1562.5	1561.8	1563.2	1573.8
1758.5	25°	1730.2	1697.6	1636.1	1597.8	1564.6	1546.2	1548.3	1549.0	1550.4	1558.9
1817.9	27.5°	1793.2	1757.1	1670.0	1594.3	1534.2	1521.4	1517.9	1520.0	1525.0	1538.4
1877.4	30°	1856.1	1813.7	1701.2	1580.2	1495.9	1478.3	1466.9	1471.9	1487.5	1500.9
1929.0	32.5°	1913.5	1871.0	1725.9	1549.0	1447.1	1419.5	1404.7	1411.0	1426.6	1431.6
1986.3	35°	1980.7	1932.6	1736.5	1499.5	1394.0	1351.6	1331.8	1322.6	1330.4	1325.4
2053.6	37.5°	2055.7	2005.4	1735.1	1434.4	1331.8	1282.9	1255.4	1220.7	1204.4	1187.4
2152.6	40°	2166.8	2094.6	1718.1	1355.8	1254.6	1210.1	1160.5	1101.8	1065.0	1031.7
2312.6	42.5°	2318.2	2218.4	1687.0	1269.5	1167.6	1125.9	1058.6	990.0	932.0	876.8
2555.3	45°	2544.0	2380.5	1648.1	1177.5	1073.5	1032.4	959.6	882.4	816.6	745.9
2899.9	47.5°	2869.5	2598.4	1611.3	1072.8	974.4	936.9	871.1	799.6	721.8	653.2
3398.1	50°	3316.7	2911.2	1577.3	970.9	876.8	848.5	796.1	723.2	644.7	589.5
3981.9	52.5°	3885.6	3336.5	1563.2	872.5	785.5	774.9	733.1	665.2	590.9	544.2
4662.6	55°	4538.8	3845.3	1563.2	778.4	705.5	709.1	680.0	617.1	552.7	510.9
5364.6	57.5°	5205.4	4360.5	1534.9	691.4	637.6	652.4	634.0	578.8	520.8	477.7
6102.7	60°	5819.6	4792.1	1420.2	612.1	577.4	600.8	588.8	541.3	470.6	434.5
6719.7	62.5°	6291.6	5035.6	1199.4	549.1	527.9	554.8	548.4	491.8	461.4	446.5
7226.4	65°	6528.0	4995.9	917.1	493.2	486.1	527.9	514.5	512.3	488.3	471.3
7391.3	67.5°	6382.9	4654.8	665.2	452.2	462.1	503.1	554.8	563.3	518.7	485.4
6927.1	70°	5746.7	4037.8	495.3	413.3	431.7	503.8	632.6	589.5	508.8	469.9
5555.7	72.5°	4371.8	3011.0	384.2	372.2	392.0	507.4	667.3	577.4	480.5	519.4
3461.1	75°	2500.1	1653.0	308.5	322.0	342.5	474.1	649.6	546.3	458.5	476.9
1371.4	77.5°	953.2	635.5	254.7	272.4	275.3	414.0	621.3	544.2	436.6	426.0
411.1	80°	330.5	248.4	210.9	216.5	213.0	368.0	595.8	473.4	357.4	319.9
169.8	82.5°	135.2	123.8	167.0	159.9	151.4	285.9	481.2	387.1	292.3	258.3
82.1	85°	58.7	78.5	110.4	96.9	87.7	198.1	385.7	327.6	247.0	213.0
26.9	87.5°	12.0	29.7	46.7	43.9	45.3	132.3	273.9	232.8	174.8	130.9
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>
1355.1
1351.6
1377.8
1422.4
1472.6
1519.3
1551.1
1569.5
1580.2
1580.9
1570.3
1551.9
1515.8
1449.2
1341.0
1198.0
1033.9
871.8
737.4
645.4
585.9
540.6
506.7
470.6
428.8
441.6
465.6
479.8
463.5
515.2
476.9
388.5
309.2
255.5
212.3
102.6
0.0

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