

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: P947139

Luminaire Tested: **GALN-SB2C-827-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947139
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-SB2C-827-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12998 lumens
Efficiency: N/A
Efficacy: 128.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

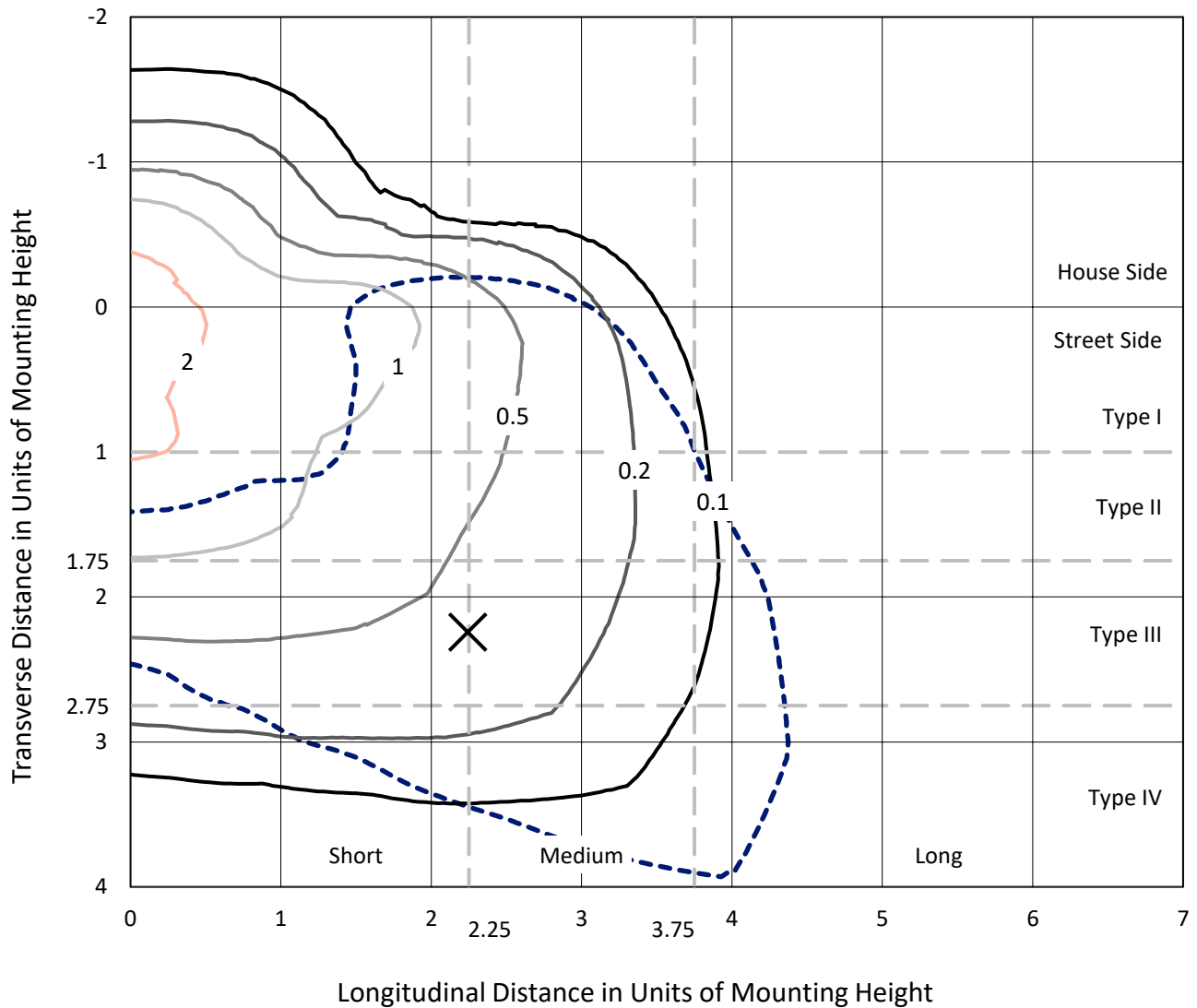
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

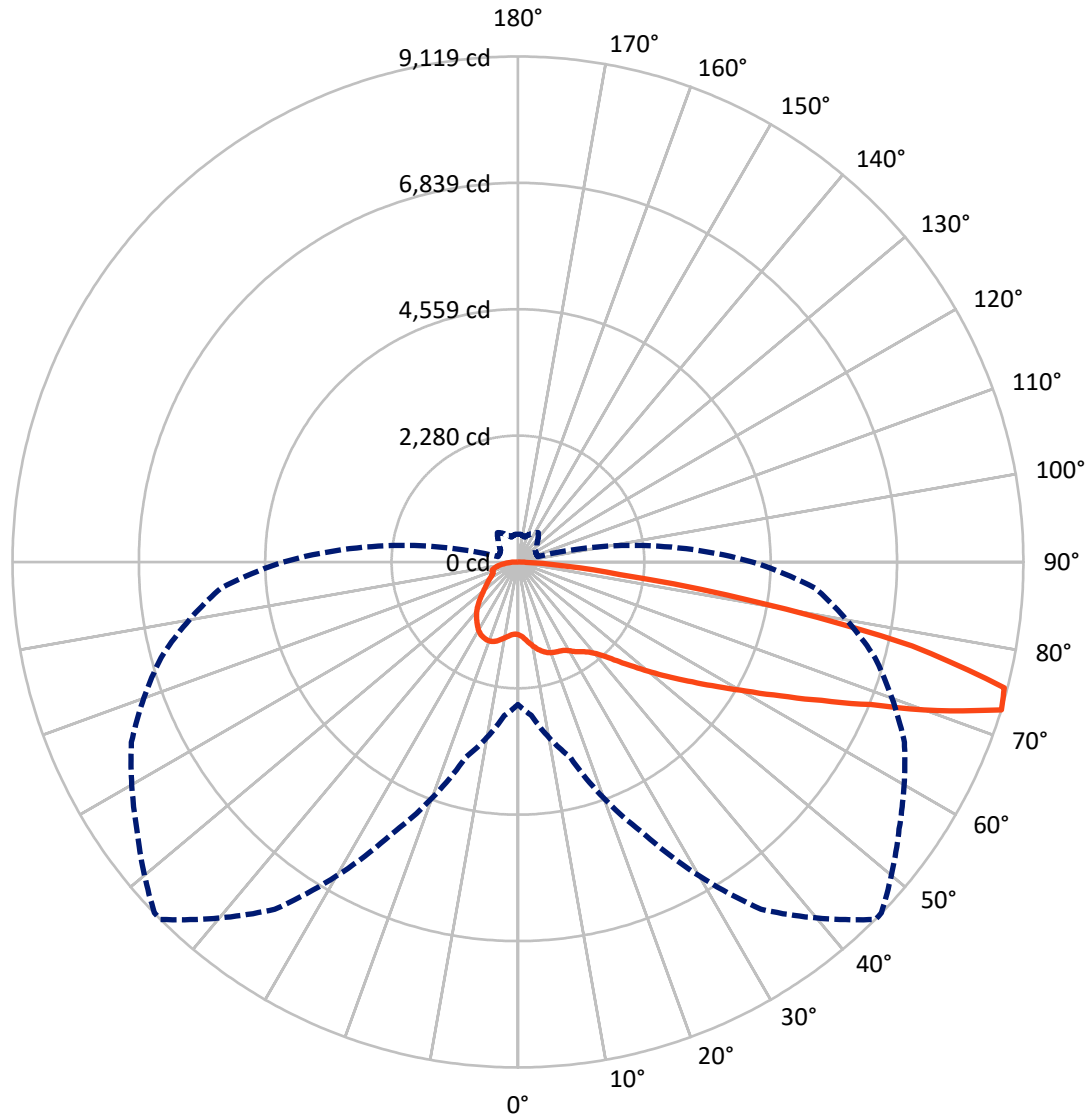
✕ Max cd
 - - - 1/2 Max cd



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



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2938.4	0.0	2938.4
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	10059.6	0.0	10059.6
	% Fixture	77.4	0.0	77.4
Total	Lumens	12998.0	0.0	12998.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.5	1.0
10°-20°	445.0	3.4
20°-30°	774.1	6.0
30°-40°	1109.6	8.5
40°-50°	1562.4	12.0
50°-60°	2393.2	18.4
60°-70°	3466.9	26.7
70°-80°	2768.5	21.3
80°-90°	344.8	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°	12998.0	100.0
0°-180°	12998.0	100.0



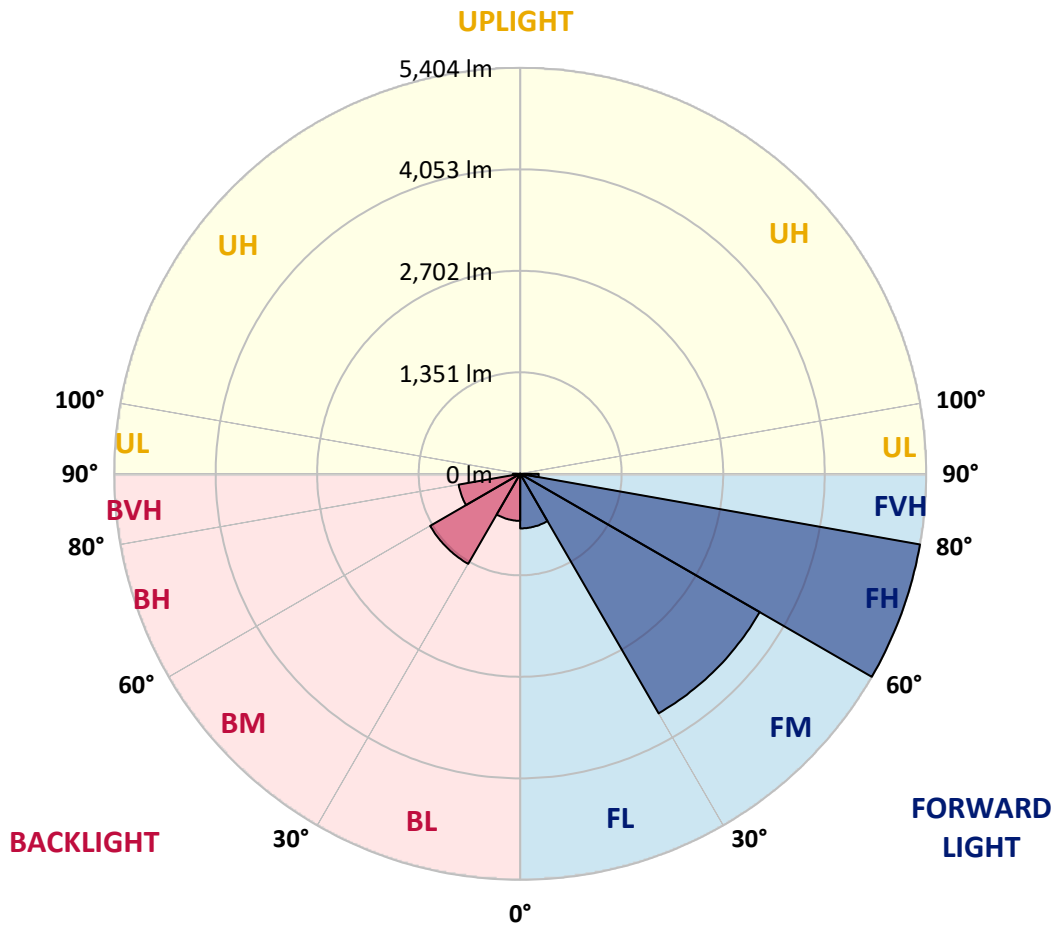
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	726.9	5.6			
FM (30°-60°)	3681.7	28.3			
FH (60°-80°)	5403.7	41.6			G3/7500
FVH (80°-90°)	247.4	1.9			G3/500
BL (0°-30°)	625.6	4.8	B2/1000		
BM (30°-60°)	1383.6	10.6	B2/2500		
BH (60°-80°)	831.8	6.4	B2/1000		G2/1000
BVH (80°-90°)	97.4	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°	1311.2	1311.2	1311.2	1311.2	1311.2	1311.2	1311.2	1311.2	1311.2	1311.2
2.5°	1362.6	1371.5	1363.3	1355.8	1352.3	1343.4	1342.7	1337.3	1333.8	1324.3
5°	1457.8	1469.4	1455.7	1440.7	1427.0	1405.1	1402.3	1386.6	1368.8	1348.2
7.5°	1565.3	1575.5	1559.8	1537.2	1513.2	1476.9	1476.3	1447.5	1419.4	1384.5
10°	1659.1	1672.8	1651.6	1620.7	1590.6	1549.5	1544.7	1511.9	1476.3	1431.1
12.5°	1741.9	1751.5	1731.0	1693.3	1658.4	1617.3	1611.2	1574.9	1535.1	1483.8
15°	1807.7	1820.0	1792.6	1752.2	1715.2	1674.8	1669.4	1636.5	1596.8	1542.7
17.5°	1850.8	1861.1	1833.0	1787.8	1752.2	1718.7	1714.5	1687.2	1652.2	1597.5
20°	1867.2	1878.2	1848.8	1802.9	1770.0	1744.0	1741.9	1722.1	1698.1	1648.1
22.5°	1883.7	1893.9	1855.6	1807.7	1778.9	1762.5	1761.8	1748.8	1739.2	1698.1
25°	1950.1	1952.8	1901.5	1832.3	1791.2	1776.9	1776.2	1775.5	1779.6	1747.4
27.5°	2007.6	2006.9	1963.1	1898.1	1834.4	1804.2	1803.6	1810.4	1823.4	1796.7
30°	2091.8	2084.3	2032.3	1964.5	1906.3	1859.7	1855.6	1849.4	1859.7	1838.5
32.5°	2270.5	2246.6	2162.4	2041.8	1965.8	1930.2	1924.8	1886.4	1890.5	1877.5
35°	2526.6	2495.1	2382.8	2188.4	2039.8	1989.1	1986.4	1937.8	1929.6	1917.9
37.5°	2831.3	2792.3	2661.5	2400.6	2167.1	2057.6	2053.5	2009.7	1976.1	1963.8
40°	3137.4	3088.1	2979.9	2659.5	2354.8	2171.9	2158.9	2092.5	2054.2	2033.6
42.5°	3434.6	3393.5	3301.1	2949.8	2586.2	2339.0	2310.3	2196.6	2167.8	2148.7
45°	3697.5	3660.5	3592.7	3260.0	2857.4	2566.3	2538.3	2352.7	2343.8	2343.8
47.5°	3911.1	3902.9	3831.0	3576.3	3177.1	2825.2	2776.6	2569.8	2593.7	2630.7
50°	4148.1	4125.5	4048.8	3887.9	3553.0	3121.7	3081.9	2836.1	2925.8	3027.2
52.5°	4365.8	4378.1	4292.5	4212.4	3977.6	3452.4	3382.5	3150.4	3344.2	3511.9
55°	4589.7	4590.4	4566.4	4555.5	4422.6	3818.0	3741.3	3528.4	3836.5	4044.7
57.5°	4799.9	4801.3	4836.9	4933.4	4938.9	4239.8	4152.8	3992.6	4383.6	4595.9
60°	4987.5	4997.1	5094.3	5320.3	5392.9	4723.2	4641.1	4541.1	4949.2	5162.8
62.5°	5050.5	5085.4	5301.8	5622.9	5841.4	5316.2	5235.4	5175.8	5543.5	5742.1
65°	4943.7	5023.8	5442.2	5872.9	6302.9	6020.8	5940.7	5875.6	6161.1	6348.1
67.5°	4681.5	4784.8	5434.0	6135.1	6863.0	6868.5	6793.8	6641.1	6823.3	6895.2
70°	3990.6	4145.3	4955.3	6233.0	7505.9	8027.7	7955.8	7562.8	7484.0	7136.2
72.5°	2571.1	2779.3	3648.9	5427.1	7649.0	9118.5	9114.4	8394.7	7692.9	6667.8
75°	938.1	1065.4	1695.4	3406.5	6420.7	9063.0	9089.7	8252.3	7022.5	5150.5
77.5°	341.7	373.9	553.3	1309.2	3948.8	7271.8	7327.2	6597.3	4998.5	2584.8
80°	179.4	197.2	283.5	508.1	1692.0	4318.6	4405.5	3920.7	2349.3	778.5
82.5°	99.3	107.5	158.9	275.9	762.1	1846.7	1898.7	1548.8	826.5	330.0
85°	53.4	56.8	74.6	150.6	372.5	640.2	654.6	462.9	329.4	193.8
87.5°	15.7	19.2	24.7	47.9	145.8	143.8	147.2	91.8	130.1	97.9
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°
1311.2	0°	1311.2	1311.2	1311.2	1311.2	1311.2	1311.2	1311.2	1311.2	1311.2	1311.2
1321.5	2.5°	1317.4	1315.4	1307.8	1304.4	1300.3	1299.6	1303.0	1303.7	1304.4	1305.1
1336.6	5°	1329.7	1322.9	1316.0	1311.9	1313.3	1314.0	1320.8	1325.6	1329.0	1331.8
1364.7	7.5°	1353.7	1348.2	1336.6	1335.9	1337.9	1344.1	1353.0	1364.0	1370.1	1374.9
1400.9	10°	1389.3	1379.0	1365.3	1367.4	1371.5	1380.4	1398.9	1407.8	1418.1	1427.0
1445.5	12.5°	1425.6	1416.7	1400.9	1402.3	1409.2	1424.9	1442.7	1453.7	1460.5	1467.4
1493.4	15°	1472.8	1457.1	1440.0	1440.0	1452.3	1469.4	1477.6	1486.5	1490.6	1498.2
1544.7	17.5°	1521.5	1500.9	1478.3	1476.9	1492.0	1500.2	1505.0	1506.4	1507.8	1516.0
1594.7	20°	1570.1	1547.5	1515.3	1512.6	1516.0	1514.6	1513.9	1512.6	1514.6	1524.9
1646.1	22.5°	1618.0	1592.0	1547.5	1535.1	1525.6	1512.6	1511.9	1511.2	1512.6	1522.8
1701.5	25°	1674.1	1642.7	1583.1	1546.1	1513.9	1496.1	1498.2	1498.9	1500.2	1508.4
1759.1	27.5°	1735.1	1700.2	1615.9	1542.7	1484.5	1472.2	1468.7	1470.8	1475.6	1488.6
1816.6	30°	1796.0	1754.9	1646.1	1529.0	1447.5	1430.4	1419.4	1424.2	1439.3	1452.3
1866.6	32.5°	1851.5	1810.4	1670.0	1498.9	1400.3	1373.6	1359.2	1365.3	1380.4	1385.2
1922.0	35°	1916.5	1870.0	1680.3	1450.9	1348.9	1307.8	1288.6	1279.7	1287.3	1282.5
1987.1	37.5°	1989.1	1940.5	1678.9	1387.9	1288.6	1241.4	1214.7	1181.1	1165.4	1149.0
2082.9	40°	2096.6	2026.8	1662.5	1311.9	1214.0	1170.9	1122.9	1066.1	1030.5	998.3
2237.7	42.5°	2243.2	2146.6	1632.4	1228.4	1129.8	1089.4	1024.3	957.9	901.8	848.4
2472.5	45°	2461.6	2303.4	1594.7	1139.4	1038.7	999.0	928.5	853.9	790.2	721.7
2806.0	47.5°	2776.6	2514.3	1559.1	1038.0	942.9	906.6	842.9	773.7	698.4	632.0
3288.0	50°	3209.3	2817.0	1526.2	939.4	848.4	821.0	770.3	699.8	623.8	570.4
3852.9	52.5°	3759.8	3228.5	1512.6	844.3	760.0	749.8	709.4	643.6	571.7	526.6
4511.6	55°	4391.8	3720.8	1512.6	753.2	682.7	686.1	658.0	597.1	534.8	494.4
5190.9	57.5°	5036.8	4219.3	1485.2	669.0	616.9	631.3	613.5	560.1	504.0	462.2
5905.1	60°	5631.2	4636.9	1374.2	592.3	558.7	581.3	569.7	523.8	455.3	420.4
6502.1	62.5°	6087.9	4872.5	1160.6	531.3	510.8	536.8	530.7	475.9	446.4	432.1
6992.4	65°	6316.6	4834.1	887.4	477.3	470.4	510.8	497.8	495.7	472.5	456.0
7151.9	67.5°	6176.2	4504.1	643.6	437.5	447.1	486.8	536.8	545.0	501.9	469.7
6702.8	70°	5560.6	3907.0	479.3	399.9	417.7	487.5	612.1	570.4	492.3	454.7
5375.8	72.5°	4230.2	2913.5	371.8	360.2	379.3	490.9	645.7	558.7	464.9	502.6
3349.0	75°	2419.1	1599.5	298.5	311.5	331.4	458.8	628.6	528.6	443.7	461.5
1327.0	77.5°	922.3	614.9	246.5	263.6	266.4	400.6	601.2	526.6	422.5	412.2
397.8	80°	319.8	240.3	204.0	209.5	206.1	356.1	576.5	458.1	345.8	309.5
164.3	82.5°	130.8	119.8	161.6	154.7	146.5	276.6	465.6	374.5	282.8	249.9
79.4	85°	56.8	76.0	106.8	93.8	84.9	191.7	373.2	317.0	239.0	206.1
26.0	87.5°	11.6	28.8	45.2	42.5	43.8	128.0	265.0	225.3	169.1	126.7
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>
1311.2
1307.8
1333.2
1376.3
1424.9
1470.1
1500.9
1518.7
1529.0
1529.7
1519.4
1501.6
1466.7
1402.3
1297.6
1159.2
1000.4
843.6
713.5
624.5
567.0
523.1
490.3
455.3
414.9
427.3
450.5
464.2
448.5
498.5
461.5
375.9
299.2
247.2
205.4
99.3
0.0

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