

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: P947135

Luminaire Tested: **GALN-SB2C-827-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947135
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
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-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13198 lumens
Efficiency: N/A
Efficacy: 130.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

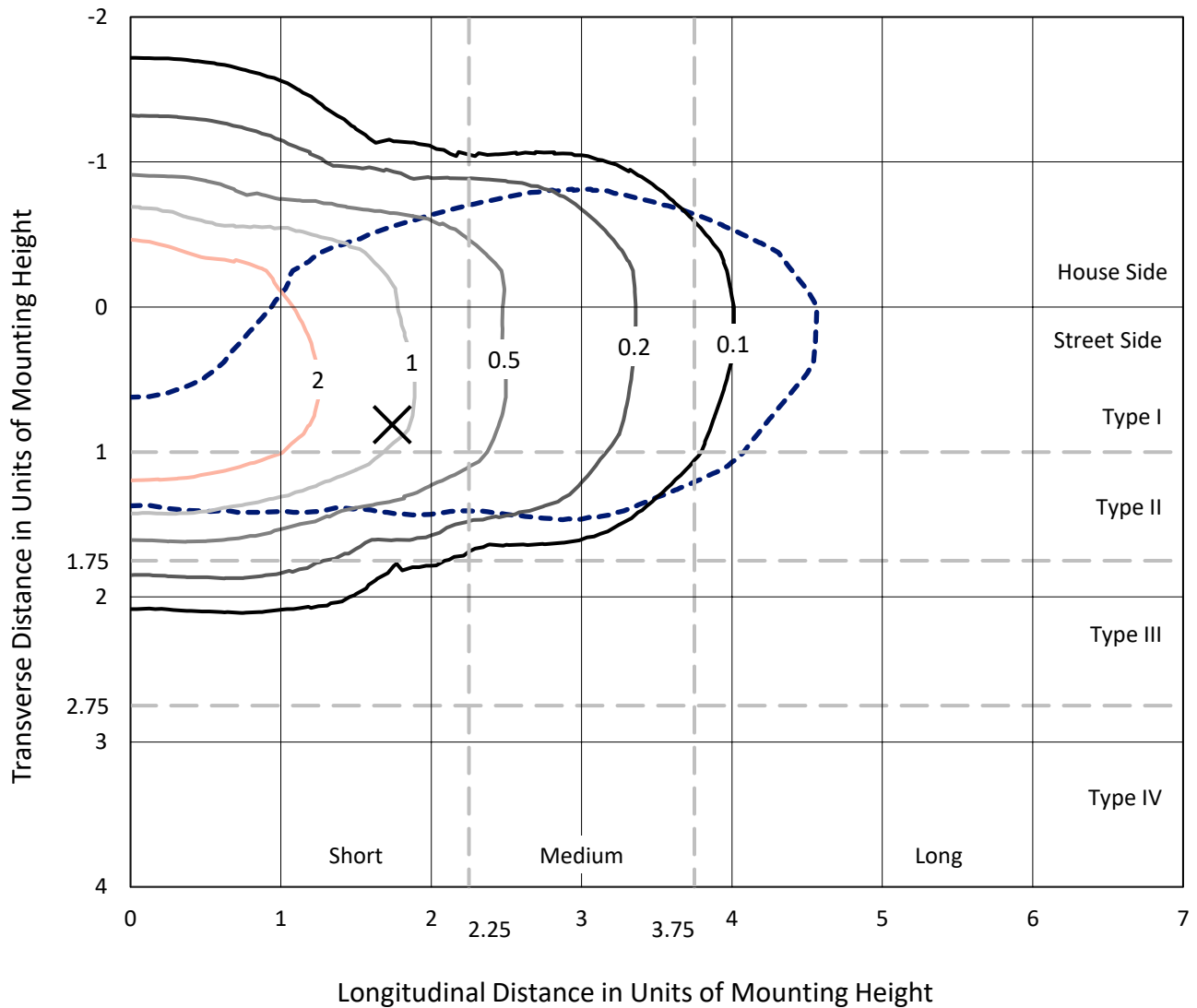
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

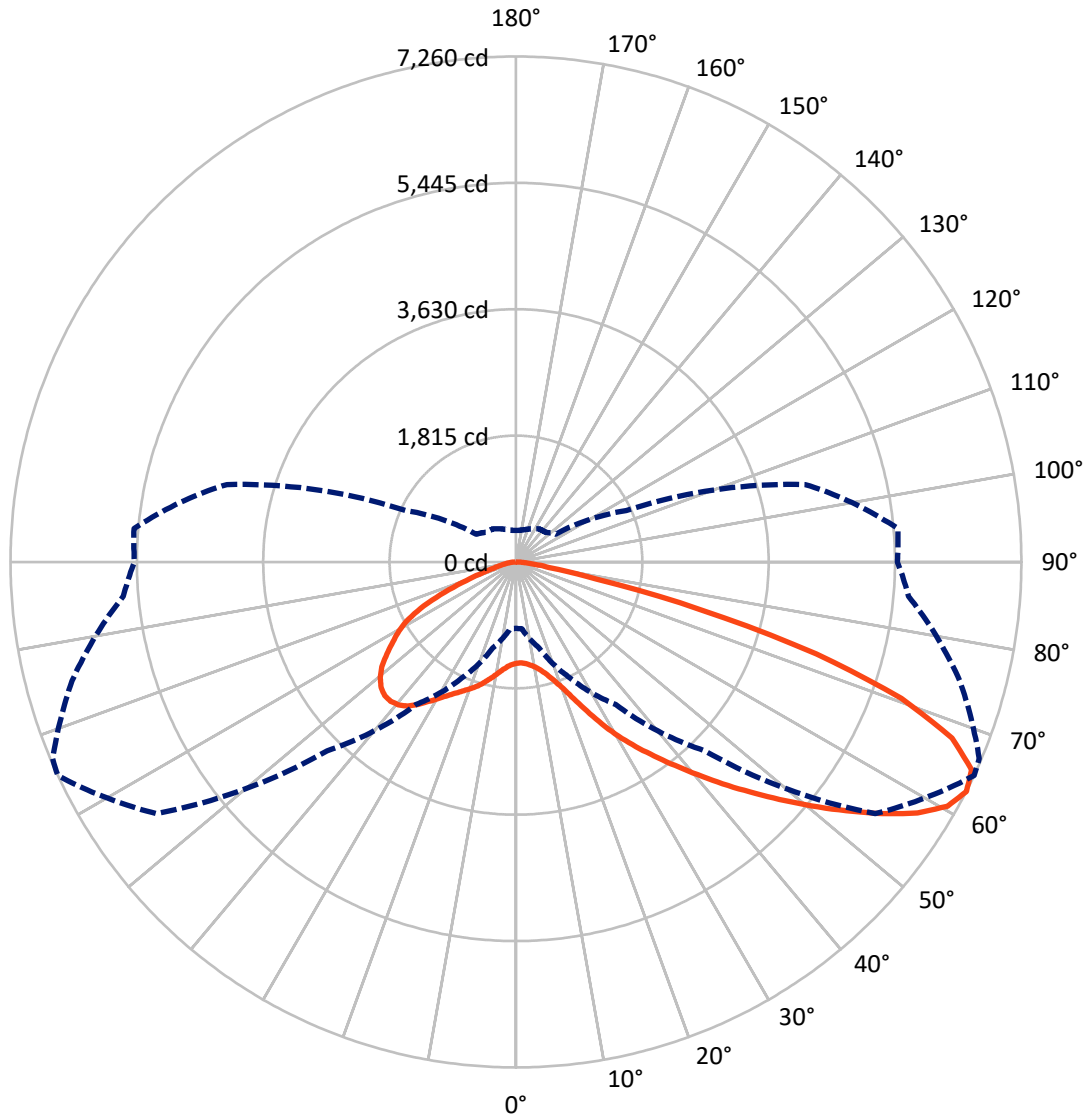
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4164.7	0.0	4164.7
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	9033.3	0.0	9033.3
	% Fixture	68.4	0.0	68.4
Total	Lumens	13198.0	0.0	13198.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.0	1.1
10°-20°	491.7	3.7
20°-30°	997.0	7.6
30°-40°	1725.3	13.1
40°-50°	2610.8	19.8
50°-60°	3061.0	23.2
60°-70°	2566.3	19.4
70°-80°	1416.8	10.7
80°-90°	184.0	1.4
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°	13198.0	100.0
0°-180°	13198.0	100.0



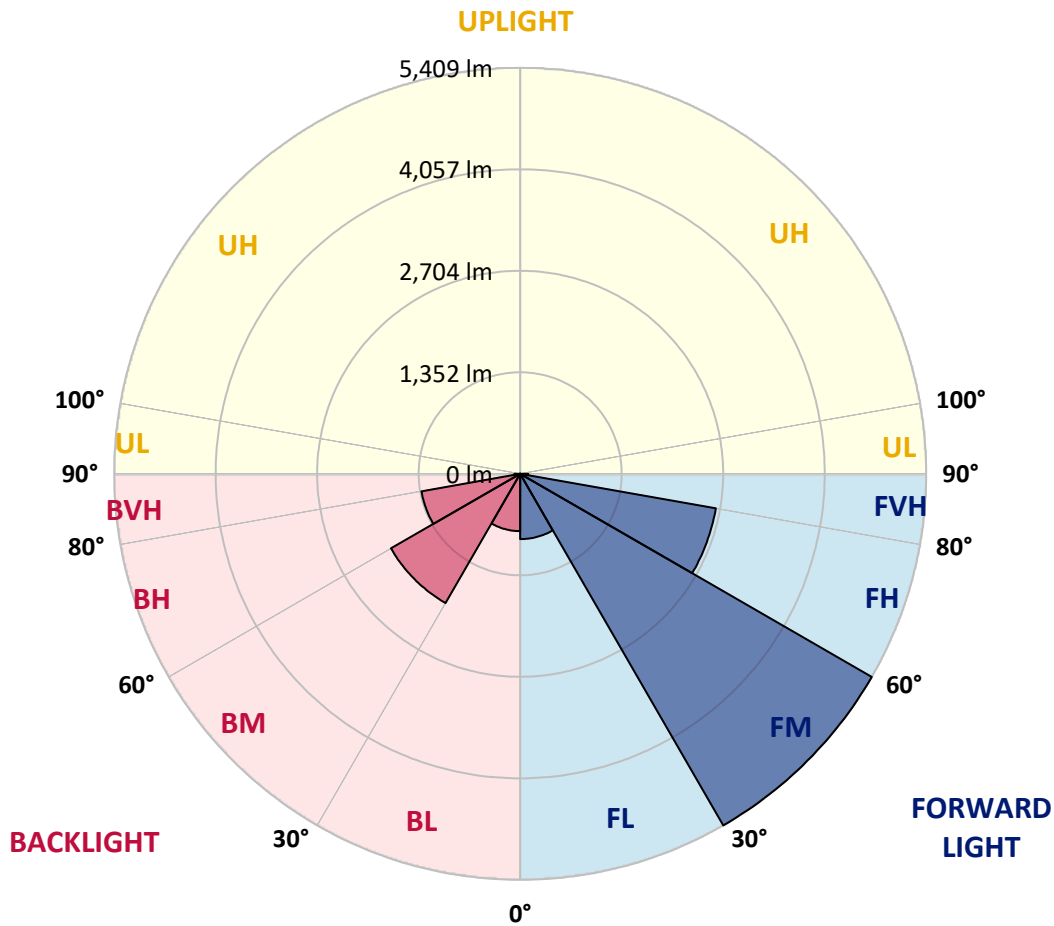
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	869.9	6.6			
FM (30°-60°)	5409.0	41.0			
FH (60°-80°)	2647.1	20.1			G2/5000
FVH (80°-90°)	107.3	0.8			G2/225
BL (0°-30°)	763.8	5.8	B2/1000		
BM (30°-60°)	1988.2	15.1	B2/2500		
BH (60°-80°)	1336.0	10.1	B3/2500		G3/2500
BVH (80°-90°)	76.8	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4
2.5°	1444.8	1440.7	1444.1	1444.1	1445.5	1444.8	1449.6	1450.9	1453.0	1457.1
5°	1430.4	1429.7	1435.9	1441.4	1446.8	1451.6	1457.8	1466.7	1468.1	1472.9
7.5°	1425.6	1421.5	1431.1	1437.9	1450.9	1462.6	1479.0	1494.1	1500.2	1502.3
10°	1462.6	1455.7	1464.6	1468.7	1479.7	1491.3	1510.5	1534.5	1541.3	1549.5
12.5°	1525.6	1518.0	1531.1	1537.2	1547.5	1557.8	1570.8	1594.0	1597.5	1612.5
15°	1611.8	1602.9	1611.2	1618.7	1635.8	1645.4	1658.4	1681.0	1681.0	1692.6
17.5°	1728.9	1717.3	1723.5	1726.2	1737.2	1751.5	1773.4	1793.3	1803.6	1799.5
20°	1903.5	1889.2	1889.2	1875.5	1871.4	1883.0	1911.8	1939.1	1950.1	1928.9
22.5°	2165.8	2145.3	2133.6	2087.1	2068.6	2069.9	2098.7	2132.2	2141.1	2103.5
25°	2499.3	2467.1	2451.3	2382.9	2341.1	2304.8	2327.4	2370.5	2382.9	2336.3
27.5°	2832.7	2834.8	2819.7	2737.5	2668.4	2602.0	2590.3	2635.5	2648.5	2595.8
30°	3300.4	3251.8	3223.0	3124.4	3025.8	2932.7	2884.8	2903.2	2906.7	2843.7
32.5°	3703.7	3691.4	3629.7	3543.5	3416.8	3270.9	3190.8	3161.4	3155.9	3066.2
35°	4163.1	4156.3	4091.3	3988.5	3851.6	3648.9	3504.4	3420.2	3413.4	3287.4
37.5°	4630.1	4630.1	4566.5	4454.2	4312.4	4059.1	3839.3	3705.7	3683.8	3519.5
40°	5002.6	4980.0	4991.7	4944.4	4782.1	4513.0	4211.1	4017.3	3987.9	3790.7
42.5°	5214.2	5206.7	5276.5	5329.2	5262.8	5047.8	4620.5	4354.9	4313.8	4089.2
45°	5261.5	5253.2	5377.9	5570.9	5664.1	5575.7	5065.6	4710.2	4660.3	4401.4
47.5°	5152.6	5136.1	5319.0	5623.7	5922.2	6077.6	5547.7	5095.7	5023.2	4705.5
50°	4825.3	4809.5	5086.2	5490.8	6009.2	6418.6	6070.8	5504.5	5393.6	5031.4
52.5°	4113.8	4121.4	4554.8	5110.8	5894.8	6630.9	6521.3	5935.2	5801.7	5364.8
55°	3204.5	3221.0	3753.7	4365.8	5437.4	6598.7	6828.8	6378.9	6246.1	5678.4
57.5°	2294.5	2367.1	2866.3	3472.3	4558.9	6088.6	6895.9	6800.7	6672.0	6020.8
60°	1487.2	1500.2	2013.8	2624.6	3471.6	5182.0	6759.6	7120.5	7019.8	6370.0
62.5°	953.1	962.0	1275.0	1835.8	2498.6	3833.8	6300.9	7259.5	7228.7	6600.8
65°	700.5	693.6	856.6	1213.3	1683.1	2364.4	5410.0	7192.4	7253.3	6745.3
67.5°	584.8	575.2	655.3	840.2	1240.0	1342.8	4002.9	6756.2	6979.4	6728.8
70°	532.7	524.5	573.1	623.8	967.5	899.0	2017.9	5873.6	6217.3	6541.9
72.5°	451.2	436.9	503.3	553.9	752.5	689.5	834.0	4511.7	4930.7	5942.8
75°	349.9	340.3	397.1	487.5	565.6	538.2	527.2	2739.6	3197.0	4595.9
77.5°	277.3	264.3	316.3	380.0	508.8	406.0	384.1	1179.8	1633.1	2934.1
80°	208.8	197.2	240.3	300.6	391.0	306.1	248.6	481.4	615.6	1486.5
82.5°	148.6	138.3	167.8	220.5	262.9	274.6	152.7	269.8	303.3	573.1
85°	95.2	89.0	112.3	138.3	167.1	176.7	93.1	141.1	154.7	236.2
87.5°	52.0	42.5	60.3	64.4	77.4	70.5	44.5	51.4	55.5	85.6
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°
1454.4	0°	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4
1457.1	2.5°	1459.8	1461.9	1468.7	1470.8	1475.6	1481.8	1485.9	1490.0	1490.0	1494.1
1479.0	5°	1479.7	1484.5	1498.9	1506.4	1518.7	1531.1	1538.6	1547.5	1553.0	1555.7
1513.9	7.5°	1518.0	1525.6	1546.1	1559.1	1580.4	1597.5	1609.1	1621.4	1624.2	1631.7
1562.5	10°	1570.1	1579.0	1602.3	1626.9	1652.2	1673.5	1684.4	1693.3	1696.8	1698.1
1624.9	12.5°	1629.7	1642.7	1672.8	1702.9	1729.6	1748.1	1750.8	1748.8	1739.2	1731.0
1701.5	15°	1702.9	1714.6	1748.1	1781.0	1807.0	1810.4	1793.3	1782.3	1770.7	1768.7
1787.1	17.5°	1790.6	1796.7	1827.5	1859.7	1861.8	1850.1	1824.8	1814.5	1803.6	1796.0
1898.8	20°	1892.6	1890.5	1912.4	1926.1	1911.8	1876.2	1837.8	1820.7	1809.7	1800.8
2035.7	22.5°	2014.5	1998.7	1996.0	1992.6	1954.2	1879.6	1827.5	1805.6	1788.5	1776.2
2226.7	25°	2191.8	2131.6	2089.8	2066.5	1980.2	1861.1	1794.7	1746.1	1713.9	1692.6
2460.2	27.5°	2413.7	2312.3	2206.9	2150.0	1980.2	1823.4	1715.2	1636.5	1583.8	1561.9
2686.2	30°	2625.2	2519.1	2363.7	2250.7	1975.4	1761.8	1587.2	1477.6	1416.0	1394.1
2879.3	32.5°	2806.0	2690.3	2530.1	2360.9	1963.8	1661.8	1428.3	1307.1	1247.6	1221.6
3070.3	35°	2973.8	2850.5	2697.1	2482.1	1933.0	1515.3	1253.7	1161.3	1094.9	1053.1
3264.8	37.5°	3145.6	2999.1	2855.3	2591.7	1877.5	1344.1	1119.5	1040.8	962.7	906.6
3471.6	40°	3332.6	3157.3	3024.4	2656.7	1786.5	1181.2	1015.5	943.6	860.7	801.1
3709.9	42.5°	3551.0	3347.0	3212.7	2690.3	1661.8	1065.4	947.7	877.1	799.1	750.5
3965.3	45°	3779.0	3555.8	3384.6	2689.6	1522.8	1011.3	925.8	855.9	769.6	719.0
4227.5	47.5°	4018.0	3774.2	3533.2	2645.8	1402.3	1018.9	913.4	810.0	714.9	665.6
4492.5	50°	4257.6	4013.2	3677.0	2563.6	1351.0	1002.4	867.6	745.7	633.4	588.9
4741.1	52.5°	4495.2	4267.2	3800.9	2446.5	1298.9	941.5	808.7	662.1	599.8	569.0
4997.8	55°	4734.2	4518.5	3935.8	2276.0	1168.8	870.3	710.1	630.6	573.1	545.0
5249.1	57.5°	4973.9	4808.8	4063.9	2105.5	1005.2	782.6	656.0	592.3	546.4	522.4
5459.3	60°	5223.1	5140.9	4196.0	1948.7	843.6	670.3	616.3	561.5	514.9	488.2
5661.3	62.5°	5479.9	5506.6	4299.4	1746.7	695.0	601.9	580.6	524.5	479.3	454.0
5828.4	65°	5738.7	5859.2	4367.2	1466.7	563.5	536.8	542.3	484.1	438.2	416.3
5951.0	67.5°	5933.9	6113.3	4348.0	1109.9	462.2	475.2	494.4	441.6	398.5	381.4
5931.1	70°	5955.8	6083.1	4159.0	760.0	386.9	414.9	441.0	399.9	355.4	343.0
5651.7	72.5°	5664.1	5672.3	3632.5	496.4	327.3	364.3	384.8	357.4	314.3	302.0
4944.4	75°	4899.2	4691.1	2667.0	327.3	273.9	312.9	332.1	312.9	271.2	273.9
3699.6	77.5°	3711.9	3322.3	1619.4	232.8	228.7	262.9	289.0	275.3	239.7	269.1
1860.4	80°	1912.4	1797.4	722.4	173.9	180.8	210.2	237.6	219.8	189.7	180.8
415.6	82.5°	438.2	509.4	284.8	124.6	130.8	151.3	181.5	165.0	136.3	115.0
173.2	85°	153.4	167.8	126.0	78.1	76.7	94.5	123.3	110.2	92.4	74.0
73.3	87.5°	48.6	63.7	47.2	31.5	32.9	42.5	56.8	52.0	43.1	28.1
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>
1454.4
1494.1
1557.1
1629.0
1694.7
1731.0
1768.7
1796.7
1801.5
1780.3
1700.9
1572.8
1407.1
1234.6
1066.8
921.6
812.8
760.0
727.2
672.4
591.6
569.0
542.3
518.3
486.2
453.3
415.6
382.1
343.7
301.3
264.3
236.9
165.0
113.7
78.1
29.4
0.0

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