

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: P939809

Luminaire Tested: **GALN-SB2C-827-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939809
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-SB2C-827-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12872 lumens
Efficiency: N/A
Efficacy: 127.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

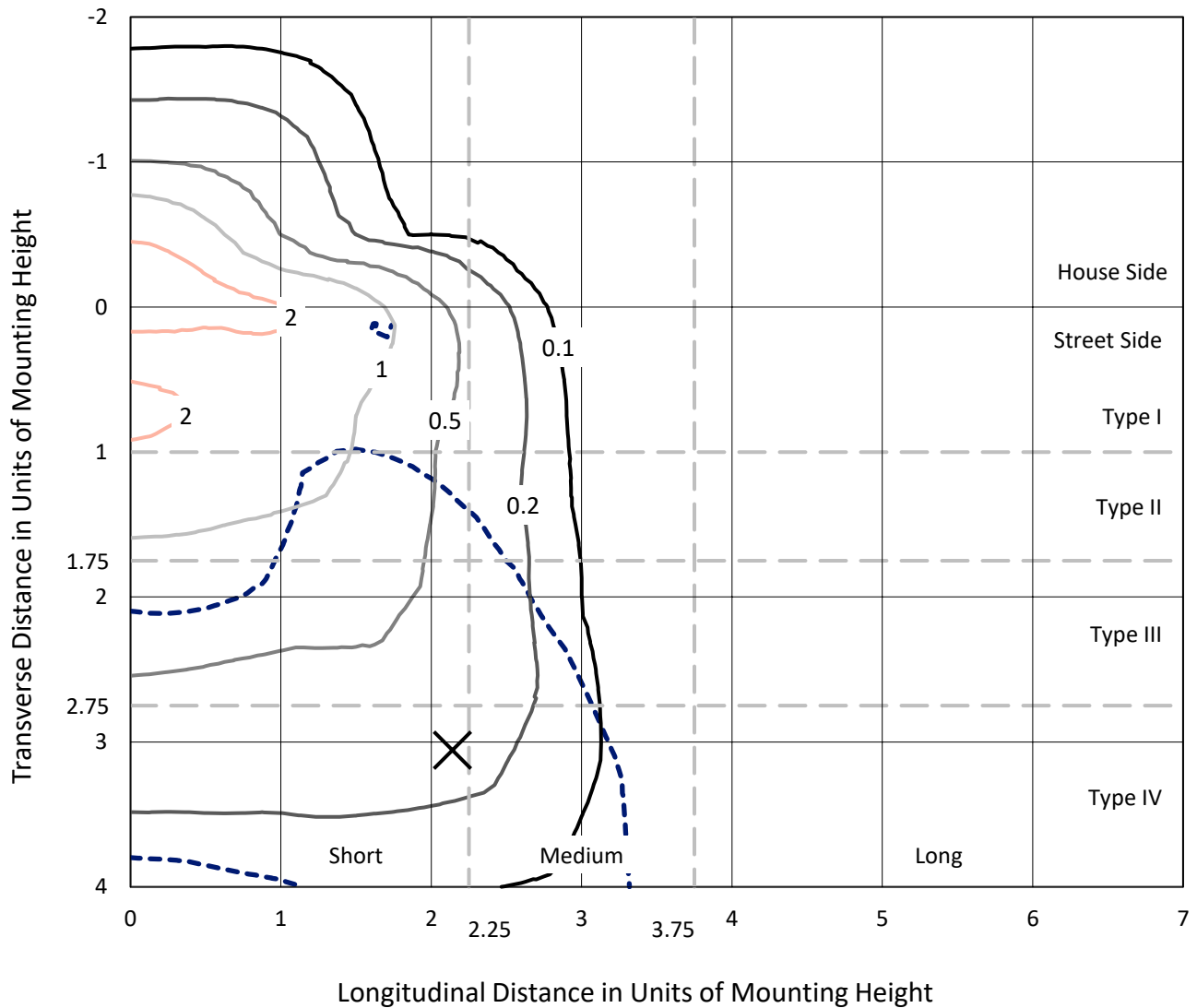
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

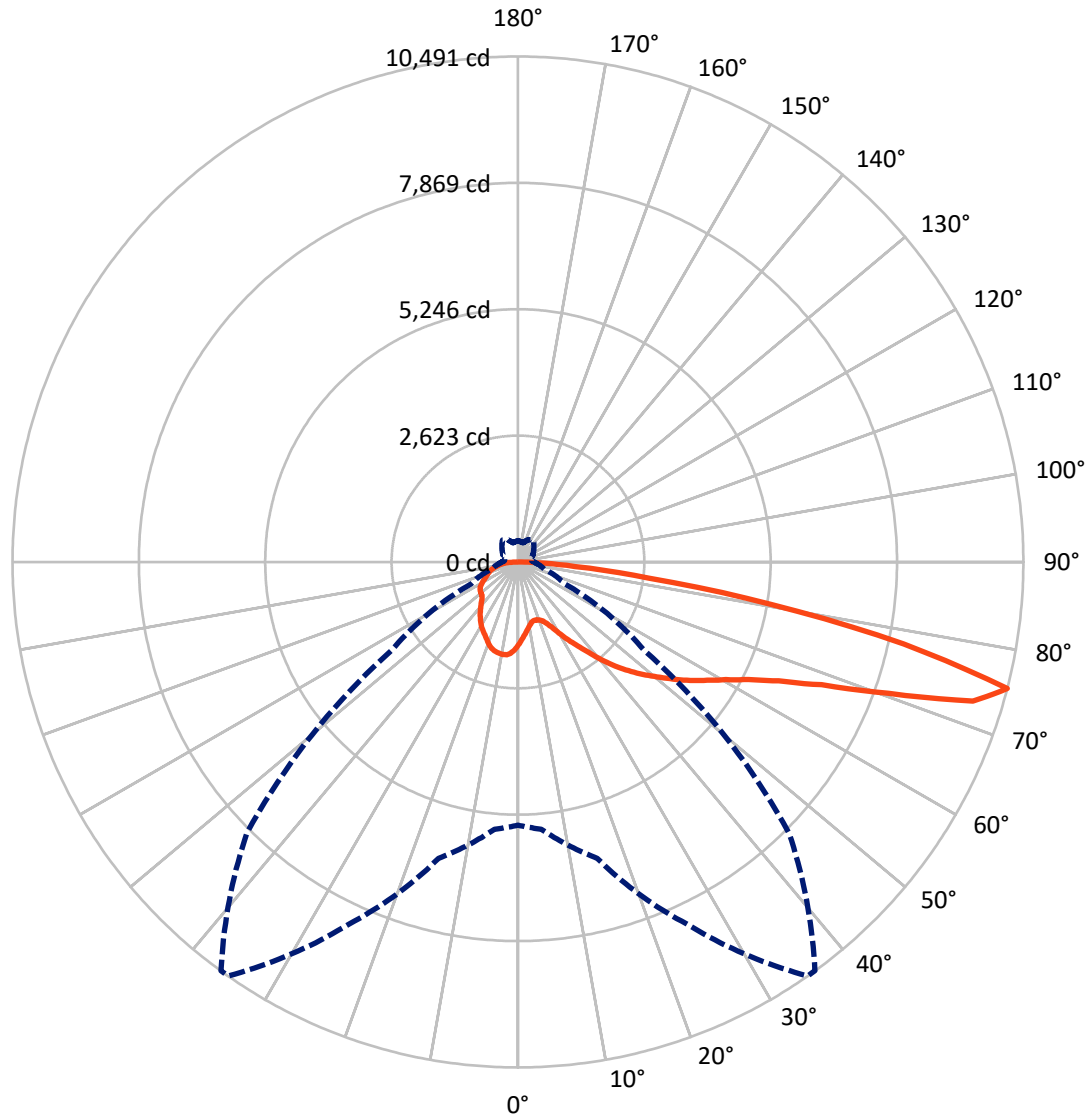
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3063.2	0.0	3063.2
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	9808.8	0.0	9808.8
	% Fixture	76.2	0.0	76.2
Total	Lumens	12872.0	0.0	12872.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.4	1.3
10°-20°	468.4	3.6
20°-30°	786.6	6.1
30°-40°	1222.5	9.5
40°-50°	1814.6	14.1
50°-60°	2505.1	19.5
60°-70°	3039.3	23.6
70°-80°	2511.7	19.5
80°-90°	361.3	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°	12872.0	100.0
0°-180°	12872.0	100.0

Coefficient of Utilization



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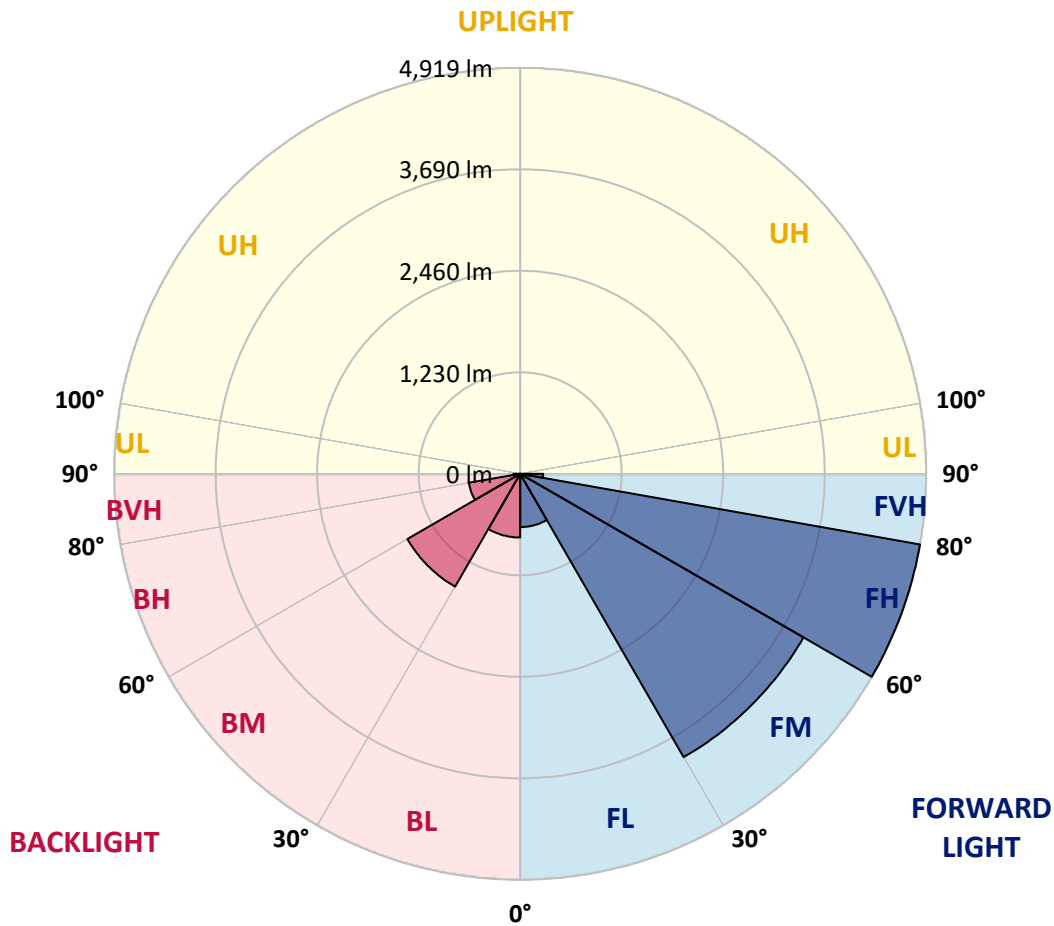
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	645.5	5.0			
FM (30°-60°)	3963.9	30.8			
FH (60°-80°)	4919.5	38.2			G2/5000
FVH (80°-90°)	279.9	2.2			G3/500
BL (0°-30°)	772.0	6.0	B2/1000		
BM (30°-60°)	1578.4	12.3	B2/2500		
BH (60°-80°)	631.5	4.9	B2/1000		G2/1000
BVH (80°-90°)	81.4	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°	1715.3	1715.3	1715.3	1715.3	1715.3	1715.3	1715.3	1715.3	1715.3	1715.3
2.5°	1581.7	1591.4	1595.6	1593.5	1603.9	1602.6	1617.2	1635.3	1660.3	1684.7
5°	1459.9	1470.3	1479.4	1487.7	1507.9	1514.2	1537.1	1571.9	1617.9	1664.5
7.5°	1346.5	1355.5	1369.4	1384.8	1418.8	1425.1	1463.4	1517.7	1581.7	1649.9
10°	1253.9	1263.0	1277.6	1295.0	1337.4	1345.1	1393.8	1466.2	1549.7	1636.0
12.5°	1214.3	1217.0	1225.4	1242.8	1279.7	1284.5	1338.1	1420.9	1518.4	1625.5
15°	1212.2	1217.7	1218.4	1227.5	1258.1	1260.2	1309.6	1391.7	1498.9	1623.4
17.5°	1233.1	1237.2	1231.0	1236.5	1262.3	1265.8	1304.7	1377.8	1492.6	1632.5
20°	1288.7	1292.2	1273.4	1265.8	1284.5	1287.3	1325.6	1386.8	1498.9	1651.3
22.5°	1407.0	1409.1	1363.2	1331.9	1333.3	1334.6	1368.0	1423.7	1523.2	1685.4
25°	1591.4	1590.0	1517.0	1456.4	1421.6	1414.0	1436.2	1483.6	1564.3	1730.6
27.5°	1807.1	1796.7	1723.6	1633.2	1557.3	1546.2	1541.3	1561.5	1622.7	1790.4
30°	2050.7	2040.9	1962.3	1844.0	1738.9	1720.8	1674.9	1664.5	1709.7	1871.8
32.5°	2317.9	2311.6	2217.7	2074.3	1933.8	1912.9	1835.7	1807.8	1843.3	1995.0
35°	2542.0	2536.4	2458.5	2310.9	2139.1	2113.3	2034.7	2003.4	2021.5	2153.0
37.5°	2744.4	2741.7	2674.9	2558.7	2381.2	2349.9	2261.5	2251.1	2247.6	2361.0
40°	2932.3	2925.4	2855.8	2794.6	2663.0	2634.5	2556.6	2547.5	2521.1	2617.1
42.5°	3140.4	3122.3	3021.4	2992.9	2957.4	2933.7	2887.1	2888.5	2830.0	2905.9
45°	3310.2	3299.7	3196.1	3179.4	3217.6	3207.9	3248.2	3258.7	3145.3	3208.6
47.5°	3492.5	3482.8	3395.1	3383.2	3486.9	3489.7	3632.4	3635.8	3452.8	3523.1
50°	3717.3	3703.3	3616.4	3631.0	3747.2	3757.6	4018.6	3994.9	3736.0	3842.5
52.5°	3865.5	3873.8	3855.0	3878.7	4037.3	4047.1	4398.5	4338.0	4016.5	4157.7
55°	3974.7	3991.4	4049.9	4104.1	4343.5	4353.3	4756.9	4664.3	4248.9	4450.0
57.5°	4115.3	4091.6	4200.9	4306.6	4634.4	4660.1	5105.5	4978.8	4454.9	4701.9
60°	4317.1	4300.4	4385.3	4541.8	4960.1	5001.1	5474.3	5262.1	4605.9	4901.6
62.5°	4726.2	4684.5	4697.7	4836.2	5370.6	5424.9	5890.4	5509.1	4681.0	4979.5
65°	5337.9	5266.2	5199.4	5295.5	5948.9	6002.4	6360.1	5703.2	4653.2	4828.5
67.5°	6108.2	6037.2	5955.1	6045.6	6800.6	6843.0	6939.8	5812.5	4434.0	4246.8
70°	6743.5	6717.1	6815.2	7187.5	8161.0	8162.4	7682.9	5722.0	3833.5	3011.0
72.5°	6659.3	6643.3	7160.3	8311.3	9875.6	9838.7	8386.4	5037.3	2582.3	1358.3
75°	5463.2	5566.8	6367.8	8291.1	10491.4	10486.5	7955.7	3202.3	1068.1	562.9
77.5°	2929.5	3093.8	4134.1	6121.4	8190.2	8313.4	5593.3	1120.3	458.6	360.5
80°	955.4	1098.8	1647.8	3116.7	5321.9	5298.9	2397.2	439.8	313.8	255.4
82.5°	405.7	422.4	736.2	1471.7	2731.2	2688.8	763.4	252.6	220.6	174.7
85°	158.7	177.4	325.0	680.5	1183.0	1157.2	275.6	125.3	141.3	114.1
87.5°	52.2	63.3	116.2	233.1	368.1	354.9	67.5	43.1	61.2	52.2
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°
1715.3	0°	1715.3	1715.3	1715.3	1715.3	1715.3	1715.3	1715.3	1715.3	1715.3	1715.3
1720.2	2.5°	1729.9	1741.0	1754.2	1773.7	1790.4	1804.4	1819.0	1828.0	1831.5	1841.9
1722.9	5°	1742.4	1766.8	1799.5	1831.5	1862.8	1881.6	1898.3	1906.6	1914.3	1919.9
1730.6	7.5°	1763.3	1794.6	1846.1	1887.9	1914.3	1929.6	1940.7	1938.0	1940.7	1942.1
1738.9	10°	1781.4	1825.2	1886.5	1926.1	1946.3	1947.0	1944.2	1934.5	1929.6	1930.3
1751.5	12.5°	1803.0	1851.7	1917.8	1951.2	1956.7	1941.4	1929.6	1912.9	1906.6	1903.9
1770.3	15°	1832.2	1887.9	1951.9	1964.4	1950.5	1931.0	1910.8	1883.7	1869.8	1858.6
1802.3	17.5°	1867.7	1928.9	1978.3	1969.3	1939.3	1907.3	1874.6	1833.6	1805.0	1793.2
1846.1	20°	1917.1	1972.1	1998.5	1958.8	1913.6	1864.9	1809.2	1759.1	1732.7	1720.8
1901.8	22.5°	1976.9	2029.8	2018.0	1940.7	1876.7	1798.8	1729.2	1692.3	1679.1	1670.7
1973.4	25°	2048.6	2093.8	2031.9	1914.3	1816.2	1711.1	1657.5	1645.7	1639.4	1633.2
2061.1	27.5°	2141.8	2166.2	2042.3	1875.3	1721.5	1617.9	1598.4	1600.5	1598.4	1587.9
2182.9	30°	2265.0	2260.1	2052.1	1812.0	1613.0	1533.7	1535.1	1544.1	1545.5	1538.5
2352.7	32.5°	2427.1	2377.7	2056.9	1729.9	1509.3	1459.9	1461.3	1471.0	1478.0	1466.2
2574.7	35°	2623.4	2514.8	2049.3	1626.9	1429.3	1389.6	1379.2	1382.0	1384.1	1372.9
2844.0	37.5°	2852.3	2668.6	2015.2	1512.8	1363.2	1320.7	1298.5	1279.7	1268.5	1258.1
3148.7	40°	3103.5	2836.3	1952.6	1401.5	1289.4	1247.7	1214.3	1178.8	1141.2	1127.3
3471.6	42.5°	3366.5	3008.9	1876.7	1295.0	1204.5	1170.4	1134.9	1083.4	1027.1	998.6
3807.0	45°	3639.3	3185.6	1802.3	1189.9	1117.5	1102.9	1061.9	999.9	938.7	902.5
4143.1	47.5°	3906.5	3352.6	1693.0	1084.1	1036.1	1052.1	1020.1	963.1	894.9	837.8
4476.4	50°	4161.9	3509.2	1514.2	977.0	970.0	1036.8	1006.2	924.1	846.2	773.1
4803.5	52.5°	4415.2	3635.8	1285.2	879.6	934.5	1032.6	988.1	897.7	802.3	725.8
5111.1	55°	4630.2	3701.2	1064.7	796.1	883.0	997.2	966.5	866.3	740.4	659.0
5321.9	57.5°	4752.7	3648.4	881.0	713.9	812.1	938.7	929.7	799.5	666.6	604.0
5362.9	60°	4699.8	3434.0	730.6	642.3	744.6	875.4	865.6	733.4	610.3	551.1
5143.1	62.5°	4408.2	3025.6	611.7	579.6	683.3	810.7	801.6	682.6	567.1	510.1
4559.2	65°	3820.9	2461.2	519.1	527.5	621.4	732.7	746.0	640.2	533.0	477.4
3527.3	67.5°	2914.2	1782.8	446.7	482.2	560.9	656.2	694.5	609.6	504.5	451.6
2040.9	70°	1661.0	1012.5	385.5	438.4	507.3	585.2	654.8	585.2	473.9	430.0
764.7	72.5°	629.7	464.8	333.3	394.5	455.8	525.4	611.0	546.9	438.4	405.7
395.2	75°	336.1	283.2	280.4	343.1	396.6	466.9	556.0	509.4	411.9	428.6
273.5	77.5°	228.9	200.4	234.5	293.7	331.9	402.2	497.5	452.3	357.0	355.6
189.3	80°	158.7	142.0	190.7	236.6	256.8	338.2	434.2	388.3	290.9	271.4
116.9	82.5°	95.3	92.5	142.7	176.7	181.6	260.9	359.8	325.7	238.0	207.4
69.6	85°	52.2	55.0	91.2	103.7	105.8	182.3	281.8	251.9	183.0	153.8
25.1	87.5°	14.6	18.8	33.4	41.1	50.8	94.6	167.7	149.6	91.9	64.0
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>
1715.3
1841.2
1921.3
1944.2
1931.7
1902.5
1862.1
1793.9
1719.5
1672.1
1633.2
1590.0
1542.0
1471.7
1380.6
1265.1
1133.5
1002.0
899.7
831.5
766.8
717.4
652.0
595.7
542.8
501.0
468.3
443.3
424.5
400.1
442.6
327.7
259.6
208.8
155.2
64.0
0.0

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