

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: P949739

Luminaire Tested: **GALN-SB4B-927-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949739
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-SB4B-927-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13921 lumens
Efficiency: N/A
Efficacy: 94.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

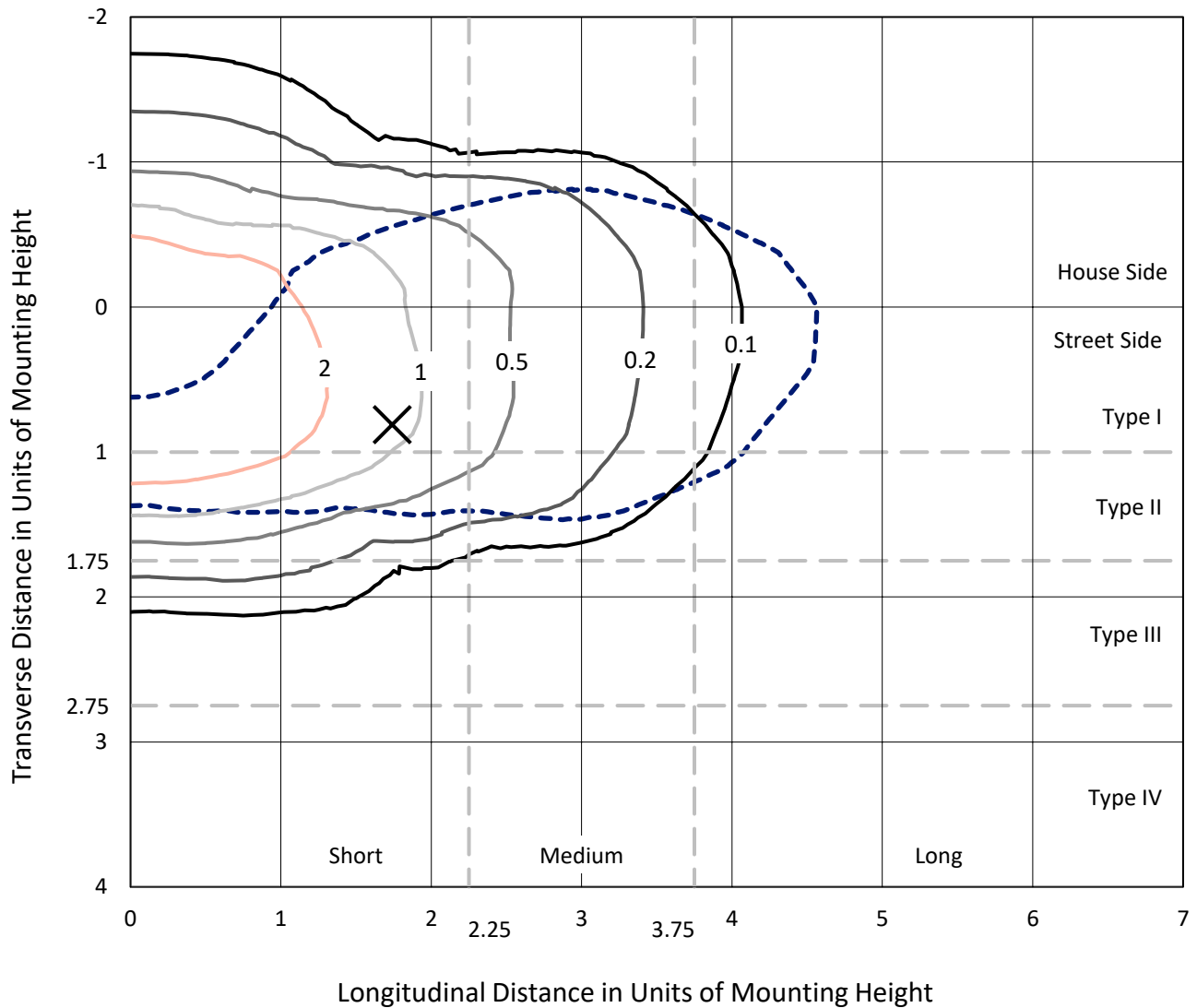
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

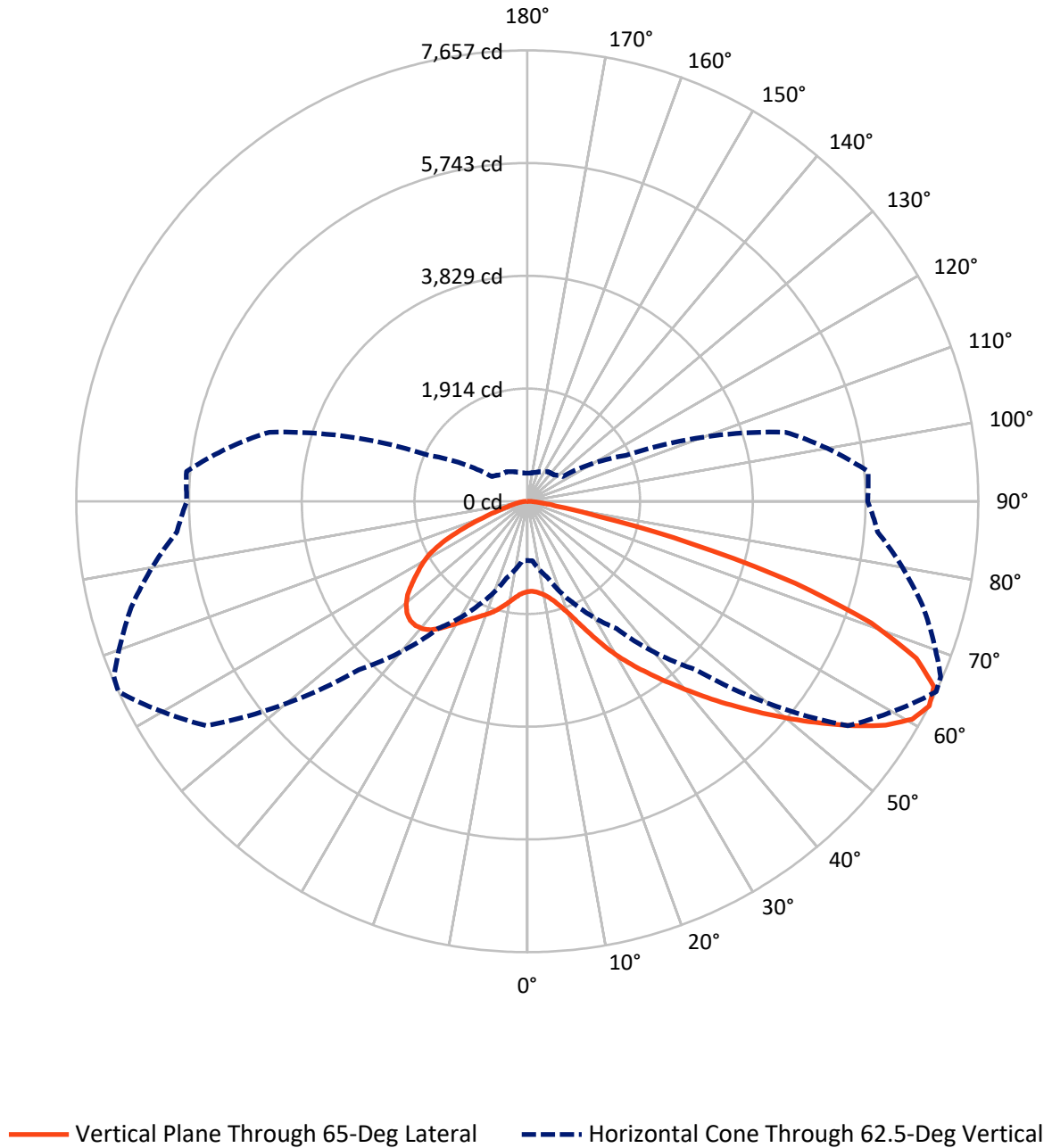
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4392.9	0.0	4392.9
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	9528.1	0.0	9528.1
	% Fixture	68.4	0.0	68.4
Total	Lumens	13921.0	0.0	13921.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.9	1.1
10°-20°	518.6	3.7
20°-30°	1051.6	7.6
30°-40°	1819.8	13.1
40°-50°	2753.9	19.8
50°-60°	3228.7	23.2
60°-70°	2706.9	19.4
70°-80°	1494.4	10.7
80°-90°	194.1	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°	13921.0	100.0
0°-180°	13921.0	100.0



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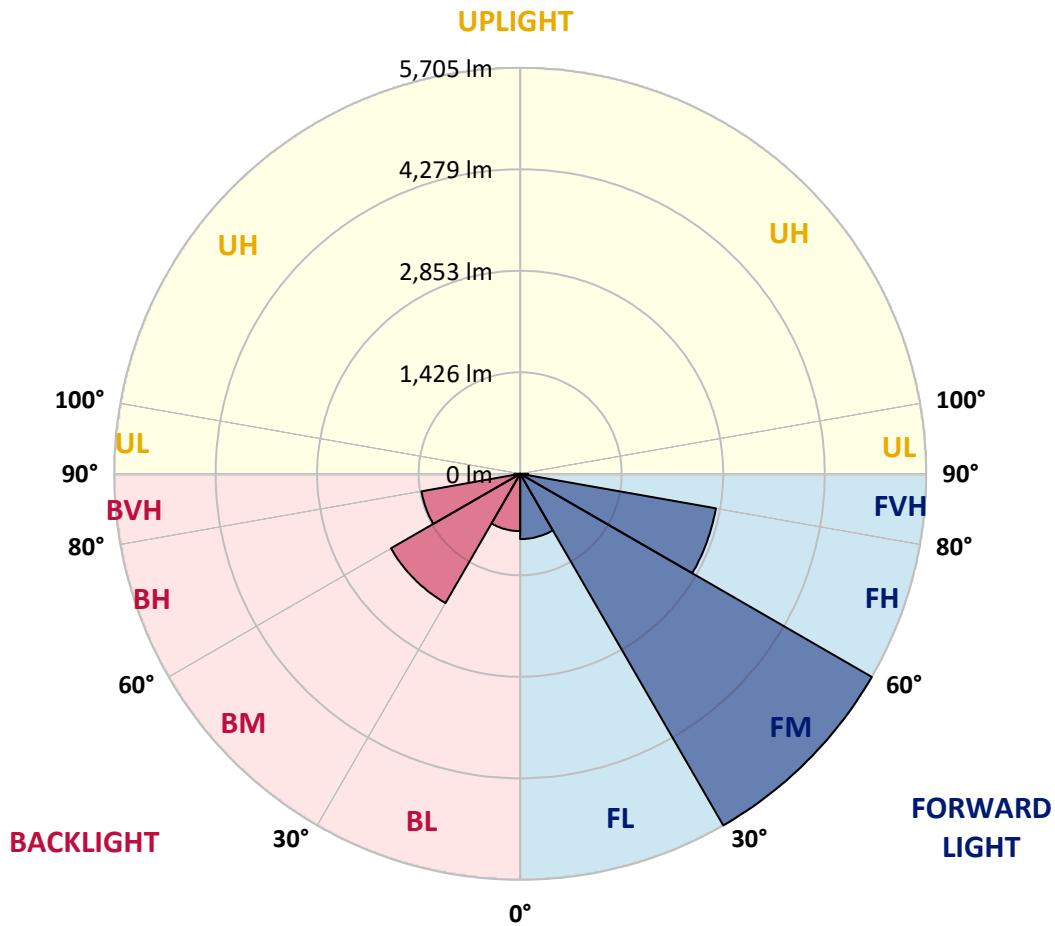
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	917.6	6.6			
FM (30°-60°)	5705.3	41.0			
FH (60°-80°)	2792.1	20.1			G2/5000
FVH (80°-90°)	113.1	0.8			G2/225
BL (0°-30°)	805.6	5.8	B2/1000		
BM (30°-60°)	2097.1	15.1	B2/2500		
BH (60°-80°)	1409.2	10.1	B3/2500		G3/2500
BVH (80°-90°)	81.0	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°	1534.0	1534.0	1534.0	1534.0	1534.0	1534.0	1534.0	1534.0	1534.0	1534.0
2.5°	1523.9	1519.6	1523.2	1523.2	1524.6	1523.9	1529.0	1530.4	1532.6	1536.9
5°	1508.8	1508.0	1514.5	1520.3	1526.1	1531.1	1537.6	1547.0	1548.5	1553.5
7.5°	1503.7	1499.4	1509.5	1516.7	1530.4	1542.7	1560.0	1575.9	1582.4	1584.6
10°	1542.7	1535.5	1544.9	1549.2	1560.8	1573.0	1593.3	1618.5	1625.8	1634.4
12.5°	1609.1	1601.2	1614.9	1621.4	1632.3	1643.1	1656.8	1681.4	1685.0	1700.9
15°	1700.1	1690.8	1699.4	1707.4	1725.4	1735.5	1749.3	1773.1	1773.1	1785.4
17.5°	1823.7	1811.4	1817.9	1820.8	1832.3	1847.5	1870.6	1891.5	1902.4	1898.0
20°	2007.8	1992.7	1992.7	1978.2	1973.9	1986.2	2016.5	2045.4	2056.9	2034.5
22.5°	2284.4	2262.8	2250.5	2201.4	2181.9	2183.3	2213.7	2249.0	2258.4	2218.7
25°	2636.2	2602.2	2585.6	2513.4	2469.3	2431.1	2454.9	2500.4	2513.4	2464.3
27.5°	2987.9	2990.1	2974.2	2887.5	2814.6	2744.5	2732.2	2779.9	2793.6	2738.0
30°	3481.2	3429.9	3399.6	3295.6	3191.6	3093.3	3042.8	3062.3	3065.9	2999.5
32.5°	3906.6	3893.6	3828.6	3737.6	3604.0	3450.1	3365.6	3334.6	3328.8	3234.2
35°	4391.2	4384.0	4315.4	4207.0	4062.6	3848.8	3696.4	3607.6	3600.4	3467.5
37.5°	4883.8	4883.8	4816.6	4698.2	4548.7	4281.4	4049.6	3908.8	3885.6	3712.3
40°	5276.7	5252.8	5265.1	5215.3	5044.1	4760.3	4441.8	4237.4	4206.3	3998.3
42.5°	5499.8	5491.9	5565.6	5621.2	5551.1	5324.3	4873.7	4593.4	4550.1	4313.2
45°	5549.7	5541.0	5672.5	5876.1	5974.4	5881.2	5343.1	4968.3	4915.6	4642.5
47.5°	5434.8	5417.5	5610.3	5931.7	6246.6	6410.6	5851.6	5374.9	5298.3	4963.2
50°	5089.6	5073.0	5364.8	5791.6	6338.4	6770.3	6403.4	5806.1	5689.1	5307.0
52.5°	4339.2	4347.2	4804.3	5390.8	6217.7	6994.2	6878.6	6260.4	6119.5	5658.7
55°	3380.1	3397.4	3959.3	4605.0	5735.3	6960.2	7202.9	6728.4	6588.3	5989.5
57.5°	2420.2	2496.8	3023.3	3662.5	4808.7	6422.1	7273.7	7173.3	7037.5	6350.6
60°	1568.7	1582.4	2124.1	2768.3	3661.7	5465.9	7129.9	7510.6	7404.4	6719.0
62.5°	1005.4	1014.7	1344.8	1936.3	2635.4	4043.8	6646.0	7657.2	7624.7	6962.4
65°	738.8	731.6	903.5	1279.8	1775.3	2493.9	5706.4	7586.4	7650.7	7114.8
67.5°	616.8	606.7	691.2	886.2	1308.0	1416.3	4222.2	7126.3	7361.8	7097.4
70°	561.9	553.2	604.5	658.0	1020.5	948.3	2128.4	6195.4	6557.9	6900.3
72.5°	476.0	460.8	530.8	584.3	793.7	727.3	879.7	4758.8	5200.8	6268.3
75°	369.1	359.0	418.9	514.2	596.6	567.7	556.1	2889.7	3372.1	4847.7
77.5°	292.5	278.8	333.7	400.8	536.6	428.3	405.2	1244.4	1722.5	3094.8
80°	220.3	208.0	253.5	317.1	412.4	322.8	262.2	507.7	649.3	1568.0
82.5°	156.7	145.9	176.9	232.6	277.3	289.6	161.1	284.6	320.0	604.5
85°	100.4	93.9	118.4	145.9	176.2	186.3	98.2	148.8	163.2	249.2
87.5°	54.9	44.8	63.6	67.9	81.6	74.4	46.9	54.2	58.5	90.3
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°
1534.0	0°	1534.0	1534.0	1534.0	1534.0	1534.0	1534.0	1534.0	1534.0	1534.0	1534.0
1536.9	2.5°	1539.8	1542.0	1549.2	1551.4	1556.4	1562.9	1567.3	1571.6	1571.6	1575.9
1560.0	5°	1560.8	1565.8	1581.0	1588.9	1601.9	1614.9	1622.9	1632.3	1638.0	1640.9
1596.9	7.5°	1601.2	1609.1	1630.8	1644.5	1666.9	1685.0	1697.3	1710.3	1713.1	1721.1
1648.1	10°	1656.1	1665.5	1690.0	1716.0	1742.8	1765.2	1776.7	1786.1	1789.7	1791.2
1713.9	12.5°	1718.9	1732.6	1764.4	1796.2	1824.4	1843.9	1846.8	1844.6	1834.5	1825.8
1794.8	15°	1796.2	1808.5	1843.9	1878.5	1906.0	1909.6	1891.5	1880.0	1867.7	1865.5
1885.0	17.5°	1888.7	1895.2	1927.7	1961.6	1963.8	1951.5	1924.8	1913.9	1902.4	1894.4
2002.8	20°	1996.3	1994.1	2017.2	2031.7	2016.5	1978.9	1938.5	1920.4	1908.9	1899.5
2147.2	22.5°	2124.8	2108.2	2105.3	2101.7	2061.3	1982.5	1927.7	1904.5	1886.5	1873.5
2348.7	25°	2311.9	2248.3	2204.3	2179.7	2088.7	1963.0	1893.0	1841.7	1807.8	1785.4
2595.0	27.5°	2545.9	2439.0	2327.8	2267.8	2088.7	1923.3	1809.2	1726.1	1670.5	1647.4
2833.3	30°	2769.1	2657.1	2493.2	2374.0	2083.7	1858.3	1674.1	1558.6	1493.6	1470.5
3037.0	32.5°	2959.7	2837.7	2668.7	2490.3	2071.4	1752.9	1506.6	1378.8	1315.9	1288.5
3238.5	35°	3136.7	3006.7	2844.9	2618.1	2038.9	1598.3	1322.4	1224.9	1154.9	1110.8
3443.6	37.5°	3318.0	3163.4	3011.7	2733.7	1980.4	1417.8	1180.9	1097.8	1015.5	956.2
3661.7	40°	3515.1	3330.2	3190.1	2802.3	1884.3	1245.9	1071.1	995.2	907.9	845.0
3913.1	42.5°	3745.5	3530.3	3388.7	2837.7	1752.9	1123.8	999.6	925.2	842.9	791.6
4182.5	45°	3986.0	3750.6	3570.0	2837.0	1606.3	1066.7	976.5	902.8	811.8	758.4
4459.1	47.5°	4238.1	3981.0	3726.7	2790.7	1479.1	1074.7	963.5	854.4	754.0	702.0
4738.6	50°	4490.9	4233.0	3878.4	2704.1	1425.0	1057.4	915.1	786.5	668.1	621.1
5000.8	52.5°	4741.5	4501.0	4009.1	2580.6	1370.1	993.1	853.0	698.4	632.7	600.2
5271.6	55°	4993.6	4766.0	4151.4	2400.7	1232.9	918.0	749.0	665.2	604.5	574.9
5536.7	57.5°	5246.3	5072.3	4286.5	2220.9	1060.2	825.5	691.9	624.7	576.3	551.1
5758.4	60°	5509.2	5422.6	4425.9	2055.5	889.8	707.1	650.0	592.2	543.1	515.0
5971.5	62.5°	5780.1	5808.2	4534.9	1842.4	733.1	634.8	612.5	553.2	505.6	478.8
6147.7	65°	6053.1	6180.2	4606.4	1547.0	594.4	566.2	572.0	510.6	462.2	439.1
6277.0	67.5°	6258.9	6448.1	4586.2	1170.7	487.5	501.2	521.5	465.8	420.3	402.3
6256.0	70°	6282.0	6416.4	4386.9	801.7	408.1	437.7	465.1	421.8	374.8	361.8
5961.4	72.5°	5974.4	5983.0	3831.5	523.6	345.2	384.2	405.9	377.0	331.5	318.5
5215.3	75°	5167.6	4948.1	2813.1	345.2	288.9	330.1	350.3	330.1	286.0	288.9
3902.3	77.5°	3915.3	3504.3	1708.1	245.6	241.2	277.3	304.8	290.3	252.8	283.8
1962.3	80°	2017.2	1895.9	762.0	183.4	190.7	221.7	250.6	231.8	200.1	190.7
438.4	82.5°	462.2	537.3	300.5	131.4	137.9	159.6	191.4	174.1	143.7	121.3
182.7	85°	161.8	176.9	132.9	82.3	80.9	99.7	130.0	116.3	97.5	78.0
77.3	87.5°	51.3	67.2	49.8	33.2	34.7	44.8	59.9	54.9	45.5	29.6
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>
1534.0
1575.9
1642.4
1718.2
1787.5
1825.8
1865.5
1895.2
1900.2
1877.8
1794.0
1659.0
1484.2
1302.2
1125.2
972.1
857.3
801.7
767.0
709.2
624.0
600.2
572.0
546.7
512.8
478.1
438.4
403.0
362.6
317.8
278.8
249.9
174.1
119.9
82.3
31.1
0.0

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