

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: P941597

Luminaire Tested: **GALN-SB5A-950-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941597
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB5A-950-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15774 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

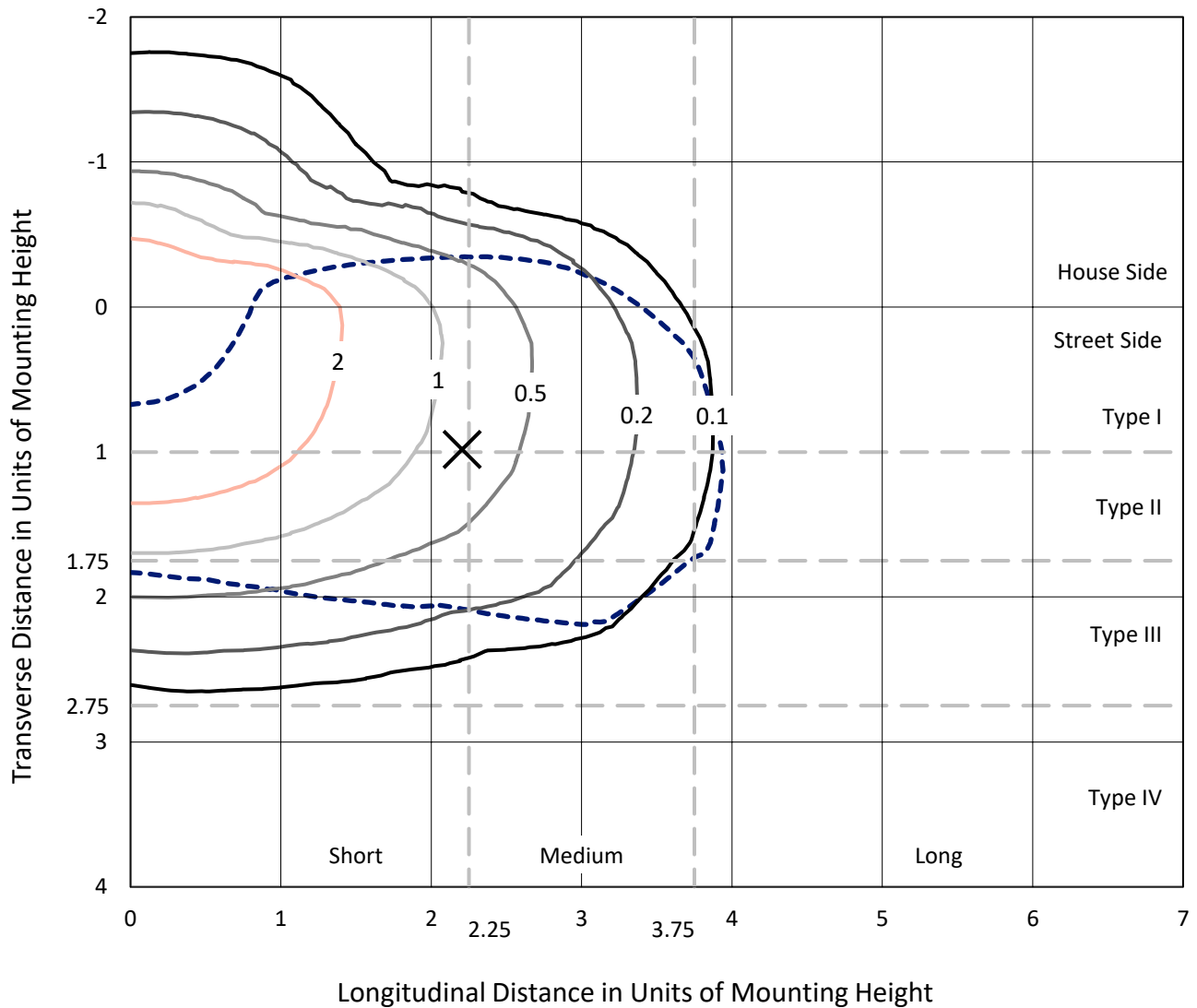
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

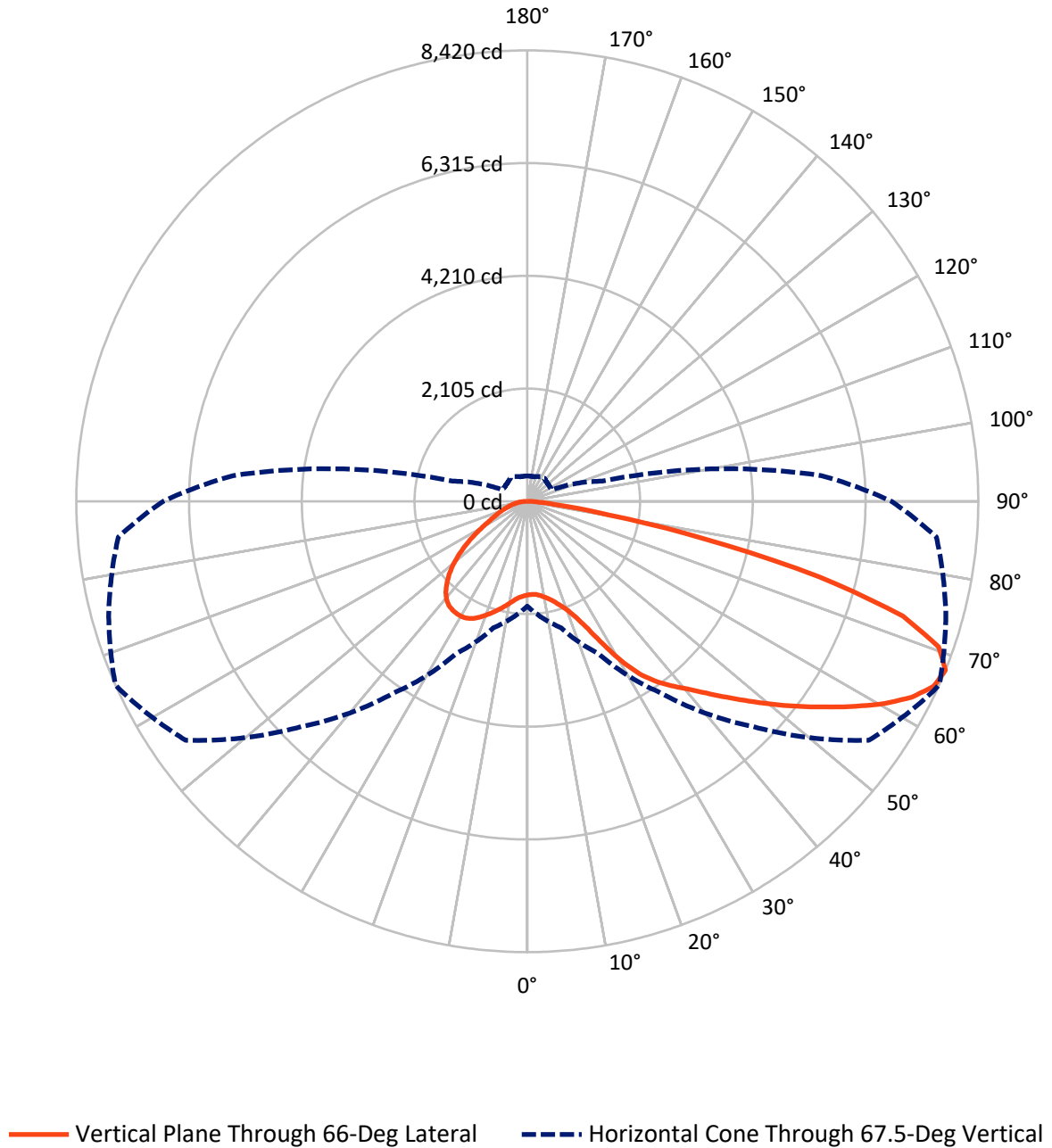
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3922.2	0.0	3922.2
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	11851.8	0.0	11851.8
	% Fixture	75.1	0.0	75.1
Total	Lumens	15774.0	0.0	15774.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.5	1.1
10°-20°	573.1	3.6
20°-30°	1104.6	7.0
30°-40°	1936.8	12.3
40°-50°	2879.3	18.3
50°-60°	3649.8	23.1
60°-70°	3571.3	22.6
70°-80°	1703.5	10.8
80°-90°	182.1	1.2
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°	15774.0	100.0
0°-180°	15774.0	100.0

Coefficient of Utilization



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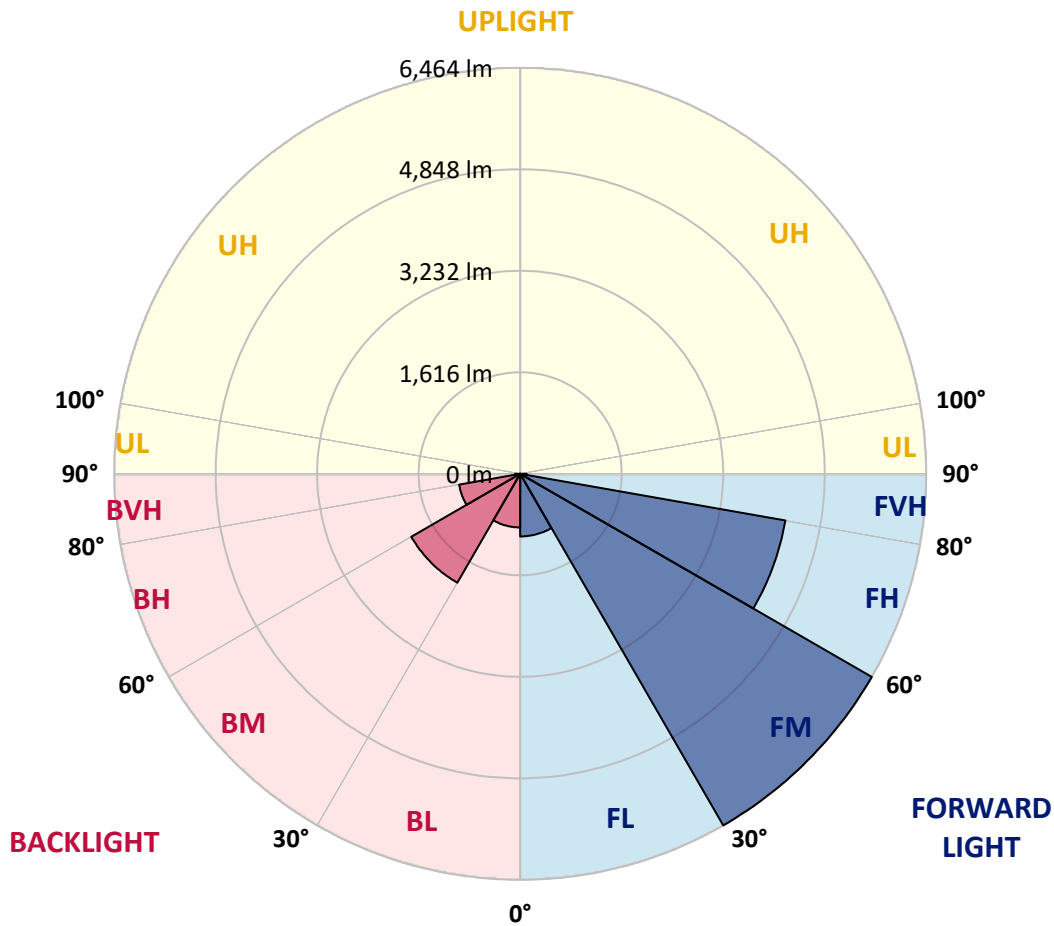
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	996.8	6.3			
FM (30°-60°)	6464.0	41.0			
FH (60°-80°)	4287.8	27.2			G2/5000
FVH (80°-90°)	103.2	0.7			G2/225
BL (0°-30°)	854.4	5.4	B2/1000		
BM (30°-60°)	2001.9	12.7	B2/2500		
BH (60°-80°)	987.0	6.3	B2/1000		G2/1000
BVH (80°-90°)	78.8	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	1749.5	1749.5	1749.5	1749.5	1749.5	1749.5	1749.5	1749.5	1749.5	1749.5
2.5°	1731.3	1741.3	1738.8	1734.6	1733.8	1735.5	1737.9	1740.4	1739.6	1743.7
5°	1726.3	1736.3	1735.5	1735.5	1738.8	1745.4	1749.5	1753.7	1749.5	1754.5
7.5°	1729.7	1737.1	1740.4	1743.7	1752.0	1764.5	1774.4	1783.5	1778.6	1784.4
10°	1771.9	1777.7	1781.0	1781.0	1786.8	1800.9	1810.9	1827.4	1823.3	1832.4
12.5°	1849.0	1854.8	1854.8	1851.5	1855.6	1864.7	1868.1	1886.3	1878.8	1893.8
15°	1943.5	1955.1	1946.0	1940.2	1941.8	1950.9	1950.1	1964.2	1956.7	1969.2
17.5°	2047.9	2062.8	2047.9	2047.1	2043.8	2053.7	2054.5	2067.0	2053.7	2062.8
20°	2171.4	2192.1	2179.7	2183.8	2176.4	2180.5	2184.7	2202.9	2182.2	2188.8
22.5°	2345.4	2370.3	2357.0	2372.8	2367.8	2364.5	2363.7	2396.0	2363.7	2366.2
25°	2599.0	2628.9	2605.7	2627.2	2627.2	2638.0	2650.4	2691.9	2638.0	2622.2
27.5°	2973.6	3003.5	2957.9	2971.2	2967.0	2993.5	2980.3	3083.0	3025.0	2999.3
30°	3424.5	3477.5	3391.3	3388.0	3383.9	3426.2	3445.2	3513.2	3454.3	3428.6
32.5°	3911.8	3967.3	3864.6	3834.7	3819.0	3844.7	3828.9	3883.6	3843.0	3803.3
35°	4427.3	4482.0	4384.2	4326.2	4263.2	4209.4	4153.0	4167.1	4129.0	4068.5
37.5°	4914.6	5014.9	4911.3	4849.2	4733.1	4627.9	4470.4	4404.9	4369.3	4313.8
40°	5411.1	5468.3	5389.5	5336.5	5210.5	5045.6	4793.6	4655.2	4607.2	4553.3
42.5°	5776.6	5831.3	5789.0	5752.5	5653.9	5462.5	5136.8	4963.5	4893.9	4833.4
45°	6066.6	6107.2	6080.7	6094.0	6051.7	5866.1	5492.3	5294.2	5222.1	5148.4
47.5°	6183.5	6226.6	6268.9	6347.6	6419.7	6282.9	5874.4	5652.2	5576.0	5500.6
50°	6170.2	6214.2	6336.8	6504.2	6728.0	6682.4	6277.1	6033.5	5963.0	5876.8
52.5°	6064.2	6113.9	6271.3	6549.8	6906.2	6981.6	6687.4	6427.2	6360.9	6258.1
55°	5785.7	5815.5	6051.7	6446.2	6948.5	7190.5	7089.3	6846.5	6780.2	6636.8
57.5°	5269.4	5312.5	5656.4	6166.9	6842.4	7332.2	7442.4	7287.4	7223.6	7017.2
60°	4595.6	4664.3	5058.0	5697.8	6572.2	7331.3	7763.1	7720.9	7667.8	7391.8
62.5°	3833.1	3912.6	4291.4	5034.8	6099.8	7123.3	7963.7	8083.9	8056.5	7737.4
65°	2943.8	2998.5	3375.6	4177.0	5364.7	6676.6	7986.9	8331.7	8336.7	8000.2
67.5°	1960.1	2117.5	2444.9	3134.4	4380.1	5946.5	7783.0	8372.3	8420.4	8090.5
70°	956.4	1163.6	1484.3	2037.1	3134.4	4826.8	7250.1	8039.1	8146.0	7827.0
72.5°	397.0	464.1	639.0	1005.3	1799.3	3257.1	6179.4	7135.8	7333.8	6935.2
75°	267.7	290.1	365.5	515.5	819.7	1606.2	4456.3	5320.7	5639.8	5237.9
77.5°	206.4	220.5	266.0	360.5	487.3	607.5	2385.2	3206.5	3371.5	3121.2
80°	162.4	173.2	198.9	262.7	345.6	324.9	813.0	1452.8	1548.2	1298.7
82.5°	140.9	145.0	142.5	178.2	229.6	189.8	266.9	536.2	591.7	429.3
85°	101.9	113.5	118.5	110.2	121.8	96.1	109.4	189.8	208.9	186.5
87.5°	41.4	61.3	75.4	71.3	44.8	27.3	34.0	55.5	63.8	69.6
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°
1749.5	0°	1749.5	1749.5	1749.5	1749.5	1749.5	1749.5	1749.5	1749.5	1749.5	1749.5
1750.4	2.5°	1751.2	1757.0	1761.1	1766.1	1769.4	1774.4	1784.4	1790.2	1791.0	1795.1
1763.6	5°	1766.9	1775.2	1784.4	1797.6	1812.5	1825.0	1844.0	1857.3	1862.3	1866.4
1796.0	7.5°	1800.9	1812.5	1829.1	1852.3	1873.9	1890.4	1913.6	1929.4	1945.1	1950.9
1847.3	10°	1851.5	1868.1	1892.1	1923.6	1946.8	1968.3	1992.4	2005.6	2021.4	2028.0
1908.7	12.5°	1914.5	1931.9	1963.4	2007.3	2028.8	2043.8	2052.0	2048.7	2052.0	2057.8
1982.4	15°	1986.6	2005.6	2041.3	2088.5	2103.4	2090.2	2071.9	2055.4	2052.9	2054.5
2071.9	17.5°	2071.9	2086.0	2127.5	2167.2	2156.5	2101.8	2062.0	2035.5	2022.2	2018.1
2186.3	20°	2191.3	2191.3	2225.3	2250.1	2178.0	2085.2	2023.0	1979.9	1952.6	1941.0
2342.1	22.5°	2336.3	2323.1	2344.6	2327.2	2173.9	2038.8	1952.6	1878.0	1836.6	1820.0
2560.1	25°	2520.3	2504.6	2498.8	2391.0	2144.0	1965.0	1825.0	1734.6	1698.2	1689.0
2874.2	27.5°	2797.9	2758.2	2682.7	2425.8	2089.3	1849.0	1675.8	1592.1	1571.4	1572.2
3277.8	30°	3167.6	3088.0	2903.2	2431.6	1999.8	1684.9	1523.3	1463.6	1453.7	1457.8
3616.8	32.5°	3509.9	3434.4	3128.6	2405.1	1862.3	1524.1	1386.5	1346.8	1331.8	1336.8
3875.4	35°	3778.4	3757.7	3337.5	2367.8	1693.2	1373.3	1263.9	1229.9	1200.9	1194.3
4119.0	37.5°	4032.0	4023.7	3494.1	2315.6	1525.8	1266.4	1165.3	1120.5	1078.2	1055.0
4388.4	40°	4310.5	4302.2	3596.9	2235.2	1377.4	1173.5	1076.6	1017.7	965.5	923.3
4693.4	42.5°	4623.7	4574.8	3645.8	2120.0	1251.5	1094.8	1004.5	924.9	856.1	817.2
5038.1	45°	4966.0	4855.8	3645.0	1973.3	1145.4	1022.7	927.4	814.7	750.9	714.4
5392.0	47.5°	5329.0	5124.3	3600.2	1810.9	1042.6	943.1	808.1	721.9	679.6	657.2
5776.6	50°	5703.6	5375.4	3524.0	1624.4	937.3	852.8	733.5	674.6	642.3	621.6
6157.8	52.5°	6055.9	5603.4	3432.0	1413.1	830.4	765.0	700.3	654.7	620.8	597.5
6527.4	55°	6383.2	5799.8	3301.8	1196.8	743.4	706.1	684.6	646.4	607.5	580.1
6902.9	57.5°	6674.1	5927.4	3077.2	993.7	681.3	665.5	668.0	632.4	587.6	564.4
7272.5	60°	6916.1	6021.1	2744.9	805.6	630.7	625.7	642.3	605.8	553.6	527.1
7585.0	62.5°	7061.2	6019.4	2337.1	659.7	587.6	589.3	608.3	572.7	519.6	494.8
7748.2	65°	7048.7	5871.9	1889.6	564.4	546.2	547.8	572.7	536.2	491.5	476.5
7666.2	67.5°	6799.3	5512.2	1449.5	502.2	500.6	508.0	537.0	511.4	474.1	472.4
7177.2	70°	6123.8	4765.5	1044.3	452.5	453.3	464.1	502.2	495.6	464.9	468.3
6034.3	72.5°	4910.5	3633.4	701.1	400.3	401.1	418.5	469.1	483.2	455.8	499.8
4281.5	75°	3270.3	2265.9	450.9	344.8	345.6	368.0	440.1	459.1	431.0	498.1
2227.7	77.5°	1571.4	1018.6	326.5	290.1	290.1	310.8	380.4	411.1	367.1	387.0
716.1	80°	542.8	382.9	256.9	233.7	228.7	242.8	320.7	356.4	316.6	291.7
233.7	82.5°	213.8	198.9	206.4	181.5	164.9	174.0	249.5	294.2	232.9	210.5
131.8	85°	122.7	129.3	145.9	120.2	95.3	106.9	183.2	211.3	175.7	155.0
43.1	87.5°	33.2	45.6	67.1	62.2	43.1	45.6	87.0	116.9	101.1	77.9
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>
1749.5
1794.3
1865.6
1951.8
2031.3
2059.5
2060.3
2023.9
1938.5
1817.5
1690.7
1574.7
1471.9
1343.4
1199.2
1055.9
927.4
819.7
712.7
652.2
614.1
587.6
569.4
549.5
515.5
487.3
475.7
474.9
467.4
506.4
502.2
354.7
273.5
209.7
158.3
80.4
0.0

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