

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: P949277

Luminaire Tested: **GALN-SB4A-827-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949277
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-SB4A-827-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15842 lumens
Efficiency: N/A
Efficacy: 139.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

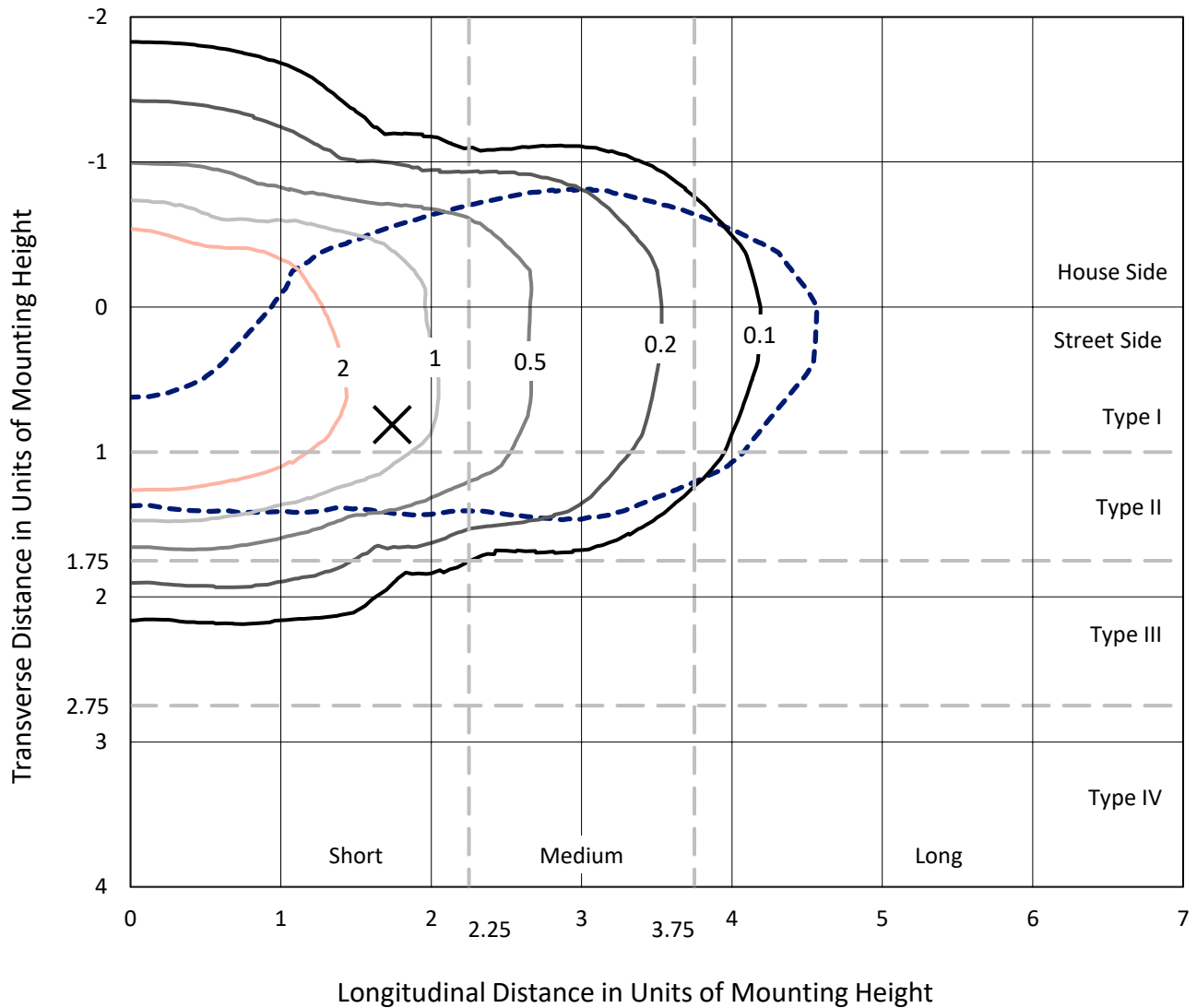
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

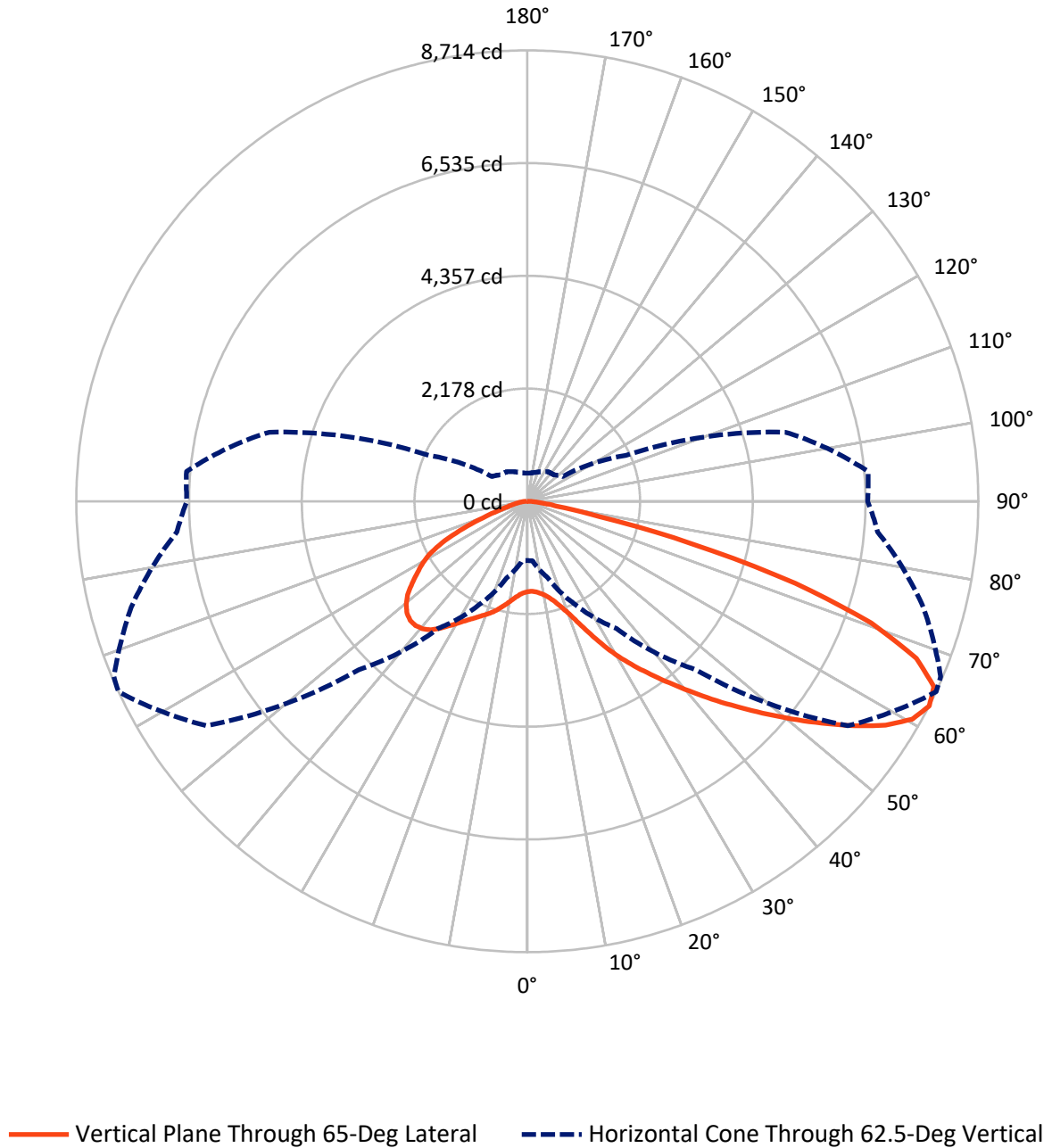
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 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	4999.1	0.0	4999.1
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	10843.0	0.0	10843.0
	% Fixture	68.4	0.0	68.4
Total	Lumens	15842.0	0.0	15842.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.0	1.1
10°-20°	590.2	3.7
20°-30°	1196.7	7.6
30°-40°	2070.9	13.1
40°-50°	3133.9	19.8
50°-60°	3674.3	23.2
60°-70°	3080.4	19.4
70°-80°	1700.7	10.7
80°-90°	220.9	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°	15842.0	100.0
0°-180°	15842.0	100.0



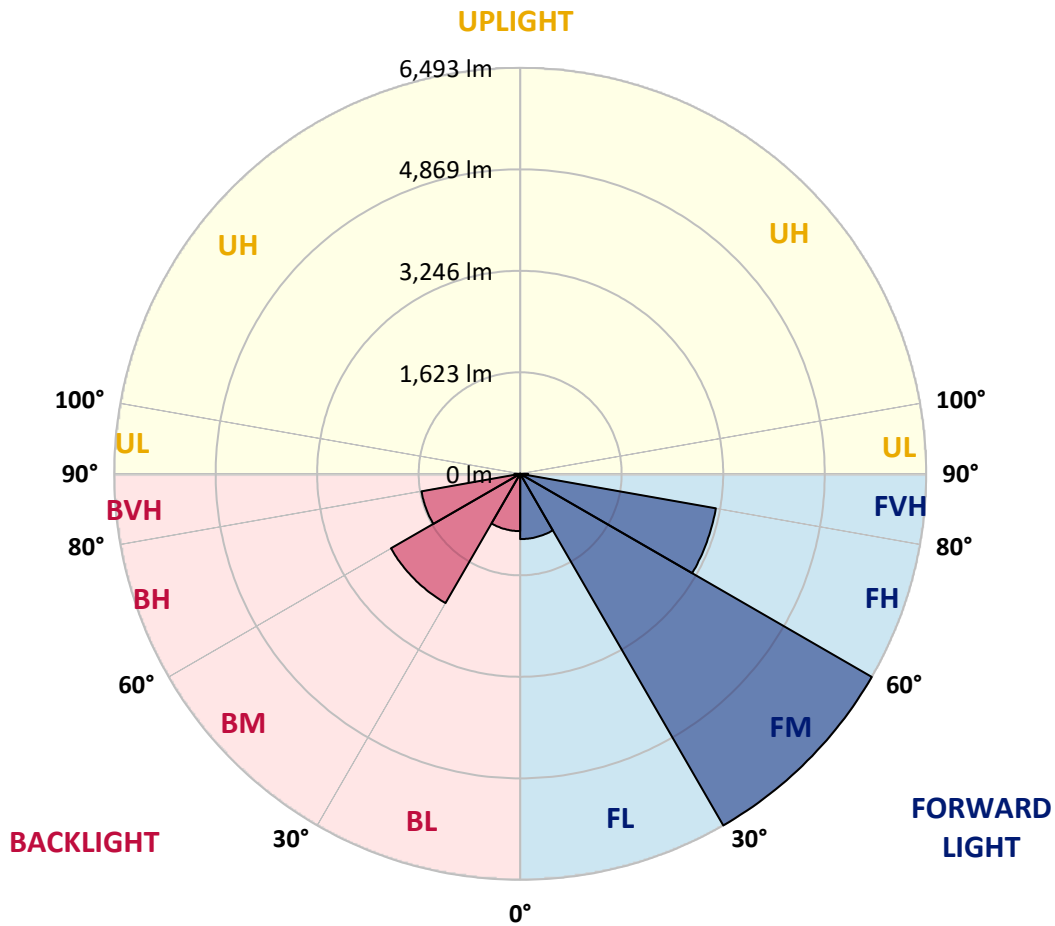
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1044.2	6.6			
FM (30°-60°)	6492.6	41.0			
FH (60°-80°)	3177.4	20.1			G2/5000
FVH (80°-90°)	128.8	0.8			G2/225
BL (0°-30°)	916.8	5.8	B2/1000		
BM (30°-60°)	2386.5	15.1	B2/2500		
BH (60°-80°)	1603.7	10.1	B3/2500		G3/2500
BVH (80°-90°)	92.2	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°	1745.7	1745.7	1745.7	1745.7	1745.7	1745.7	1745.7	1745.7	1745.7	1745.7
2.5°	1734.2	1729.3	1733.4	1733.4	1735.0	1734.2	1740.0	1741.6	1744.1	1749.0
5°	1717.0	1716.1	1723.5	1730.1	1736.7	1742.4	1749.8	1760.5	1762.2	1767.9
7.5°	1711.2	1706.3	1717.8	1726.0	1741.6	1755.6	1775.3	1793.4	1800.8	1803.3
10°	1755.6	1747.4	1758.0	1763.0	1776.1	1790.1	1813.1	1841.9	1850.1	1860.0
12.5°	1831.2	1822.2	1837.8	1845.2	1857.5	1869.8	1885.4	1913.4	1917.5	1935.6
15°	1934.8	1924.1	1933.9	1943.0	1963.5	1975.0	1990.6	2017.8	2017.8	2031.7
17.5°	2075.3	2061.3	2068.7	2072.0	2085.2	2102.4	2128.7	2152.6	2164.9	2160.0
20°	2284.9	2267.6	2267.6	2251.2	2246.3	2260.2	2294.8	2327.6	2340.8	2315.3
22.5°	2599.7	2575.0	2561.0	2505.2	2483.0	2484.6	2519.1	2559.4	2570.1	2524.9
25°	2999.9	2961.3	2942.4	2860.2	2810.1	2766.5	2793.6	2845.4	2860.2	2804.3
27.5°	3400.2	3402.7	3384.6	3286.0	3203.0	3123.2	3109.3	3163.5	3179.1	3115.8
30°	3961.6	3903.2	3868.7	3750.3	3632.0	3520.2	3462.7	3484.9	3489.0	3413.4
32.5°	4445.7	4430.9	4356.9	4253.3	4101.3	3926.2	3830.1	3794.7	3788.1	3680.5
35°	4997.2	4988.9	4910.9	4787.6	4623.2	4379.9	4206.5	4105.4	4097.2	3946.0
37.5°	5557.7	5557.7	5481.3	5346.5	5176.3	4872.2	4608.4	4448.1	4421.8	4224.6
40°	6004.8	5977.7	5991.7	5935.0	5740.2	5417.2	5054.7	4822.1	4786.8	4550.0
42.5°	6258.8	6249.7	6333.6	6396.9	6317.1	6059.1	5546.2	5227.3	5178.0	4908.4
45°	6315.5	6305.6	6455.2	6687.0	6798.8	6692.7	6080.4	5653.9	5593.9	5283.2
47.5°	6184.8	6165.1	6384.5	6750.3	7108.6	7295.2	6659.0	6116.6	6029.5	5648.1
50°	5791.9	5773.0	6105.1	6590.8	7213.0	7704.5	7287.0	6607.3	6474.1	6039.3
52.5°	4938.0	4947.0	5467.3	6134.7	7075.8	7959.3	7827.8	7124.2	6964.0	6439.6
55°	3846.5	3866.2	4505.7	5240.4	6526.7	7920.7	8196.8	7656.8	7497.4	6816.0
57.5°	2754.2	2841.3	3440.5	4167.9	5472.2	7308.4	8277.4	8163.1	8008.6	7227.0
60°	1785.2	1800.8	2417.2	3150.4	4167.0	6220.2	8113.8	8547.0	8426.1	7646.2
62.5°	1144.1	1154.8	1530.4	2203.5	2999.1	4601.8	7563.1	8713.8	8676.8	7923.1
65°	840.8	832.6	1028.2	1456.4	2020.2	2838.0	6493.8	8633.3	8706.4	8096.6
67.5°	701.9	690.4	786.6	1008.5	1488.5	1611.7	4804.8	8109.7	8377.6	8076.8
70°	639.4	629.6	687.9	748.8	1161.3	1079.2	2422.1	7050.3	7462.9	7852.5
72.5°	541.6	524.4	604.1	664.9	903.3	827.7	1001.1	5415.5	5918.5	7133.3
75°	420.0	408.5	476.7	585.2	678.9	646.0	632.9	3288.4	3837.5	5516.6
77.5°	332.9	317.3	379.7	456.2	610.7	487.4	461.1	1416.1	1960.2	3521.8
80°	250.7	236.7	288.5	360.8	469.3	367.4	298.4	577.8	738.9	1784.3
82.5°	178.4	166.0	201.4	264.7	315.6	329.6	183.3	323.8	364.1	687.9
85°	114.2	106.8	134.8	166.0	200.5	212.1	111.8	169.3	185.7	283.6
87.5°	62.5	51.0	72.3	77.3	92.9	84.7	53.4	61.6	66.6	102.7
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°
1745.7	0°	1745.7	1745.7	1745.7	1745.7	1745.7	1745.7	1745.7	1745.7	1745.7	1745.7
1749.0	2.5°	1752.3	1754.8	1763.0	1765.4	1771.2	1778.6	1783.5	1788.5	1788.5	1793.4
1775.3	5°	1776.1	1781.9	1799.1	1808.2	1823.0	1837.8	1846.8	1857.5	1864.1	1867.4
1817.2	7.5°	1822.2	1831.2	1855.9	1871.5	1896.9	1917.5	1931.5	1946.3	1949.6	1958.6
1875.6	10°	1884.6	1895.3	1923.3	1952.8	1983.2	2008.7	2021.9	2032.6	2036.7	2038.3
1950.4	12.5°	1956.1	1971.7	2007.9	2044.1	2076.1	2098.3	2101.6	2099.1	2087.6	2077.8
2042.4	15°	2044.1	2058.0	2098.3	2137.8	2169.0	2173.1	2152.6	2139.4	2125.4	2123.0
2145.2	17.5°	2149.3	2156.7	2193.7	2232.3	2234.8	2220.8	2190.4	2178.0	2164.9	2155.8
2279.1	20°	2271.7	2269.3	2295.6	2312.0	2294.8	2252.0	2206.0	2185.4	2172.3	2161.6
2443.5	22.5°	2418.0	2399.1	2395.8	2391.7	2345.7	2256.1	2193.7	2167.4	2146.8	2132.0
2672.8	25°	2630.9	2558.6	2508.4	2480.5	2376.9	2233.9	2154.2	2095.8	2057.2	2031.7
2953.1	27.5°	2897.2	2775.6	2649.0	2580.8	2376.9	2188.7	2058.9	1964.3	1901.1	1874.8
3224.3	30°	3151.2	3023.8	2837.2	2701.6	2371.2	2114.8	1905.2	1773.7	1699.7	1673.4
3456.1	32.5°	3368.2	3229.3	3036.9	2833.9	2357.2	1994.8	1714.5	1569.0	1497.5	1466.3
3685.4	35°	3569.5	3421.6	3237.5	2979.4	2320.2	1818.9	1504.9	1393.9	1314.2	1264.1
3918.8	37.5°	3775.8	3599.9	3427.3	3110.9	2253.7	1613.4	1343.8	1249.3	1155.6	1088.2
4167.0	40°	4000.2	3789.8	3630.3	3189.0	2144.3	1417.8	1218.9	1132.6	1033.1	961.6
4453.1	42.5°	4262.4	4017.5	3856.4	3229.3	1994.8	1278.9	1137.5	1052.9	959.2	900.8
4759.6	45°	4536.1	4268.1	4062.7	3228.4	1827.9	1213.9	1111.2	1027.4	923.8	863.0
5074.4	47.5°	4822.9	4530.3	4241.0	3175.8	1683.3	1223.0	1096.4	972.3	858.1	798.9
5392.5	50°	5110.6	4817.2	4413.6	3077.2	1621.6	1203.3	1041.3	895.1	760.3	706.8
5690.8	52.5°	5395.8	5122.1	4562.4	2936.7	1559.1	1130.1	970.7	794.8	720.0	683.0
5999.1	55°	5682.6	5423.7	4724.3	2732.0	1403.0	1044.6	852.3	757.0	687.9	654.2
6300.7	57.5°	5970.3	5772.2	4878.0	2527.3	1206.6	939.4	787.4	710.9	655.9	627.1
6553.0	60°	6269.5	6170.8	5036.6	2339.1	1012.6	804.6	739.7	674.0	618.1	586.0
6795.5	62.5°	6577.7	6609.7	5160.7	2096.7	834.2	722.5	697.0	629.6	575.3	544.9
6996.0	65°	6888.4	7033.0	5242.1	1760.5	676.4	644.4	650.9	581.1	526.0	499.7
7143.1	67.5°	7122.6	7337.9	5219.1	1332.3	554.8	570.4	593.4	530.1	478.3	457.8
7119.3	70°	7148.9	7301.8	4992.2	912.3	464.4	498.1	529.3	480.0	426.6	411.8
6784.0	72.5°	6798.8	6808.6	4360.2	595.9	392.9	437.3	461.9	429.0	377.3	362.5
5935.0	75°	5880.7	5630.9	3201.3	392.9	328.8	375.6	398.6	375.6	325.5	328.8
4440.7	77.5°	4455.5	3987.9	1943.8	279.4	274.5	315.6	346.8	330.4	287.7	323.0
2233.1	80°	2295.6	2157.5	867.1	208.8	217.0	252.3	285.2	263.8	227.7	217.0
498.9	82.5°	526.0	611.5	341.9	149.6	157.0	181.6	217.8	198.1	163.6	138.1
207.9	85°	184.1	201.4	151.2	93.7	92.1	113.4	147.9	132.3	111.0	88.8
87.9	87.5°	58.4	76.4	56.7	37.8	39.5	51.0	68.2	62.5	51.8	33.7
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

180°
1745.7
1793.4
1869.0
1955.3
2034.2
2077.8
2123.0
2156.7
2162.4
2136.9
2041.6
1887.9
1689.0
1481.9
1280.5
1106.3
975.6
912.3
872.9
807.1
710.1
683.0
650.9
622.2
583.6
544.1
498.9
458.6
412.6
361.6
317.3
284.4
198.1
136.4
93.7
35.3
0.0

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