

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: P950894

Luminaire Tested: **GALN-SB5A-950-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950894
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-SB5A-950-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15974 lumens
Efficiency: N/A
Efficacy: 112.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

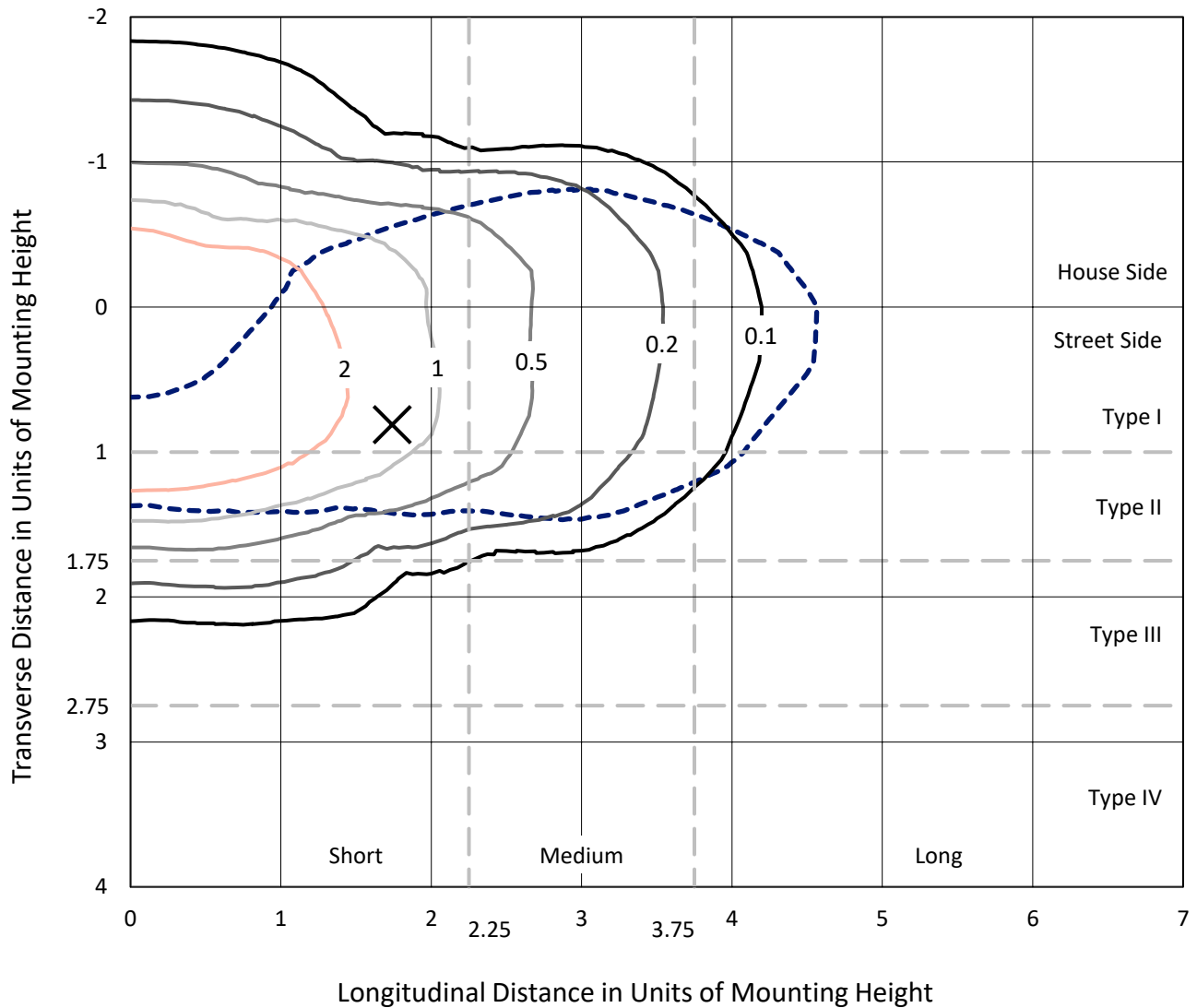
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

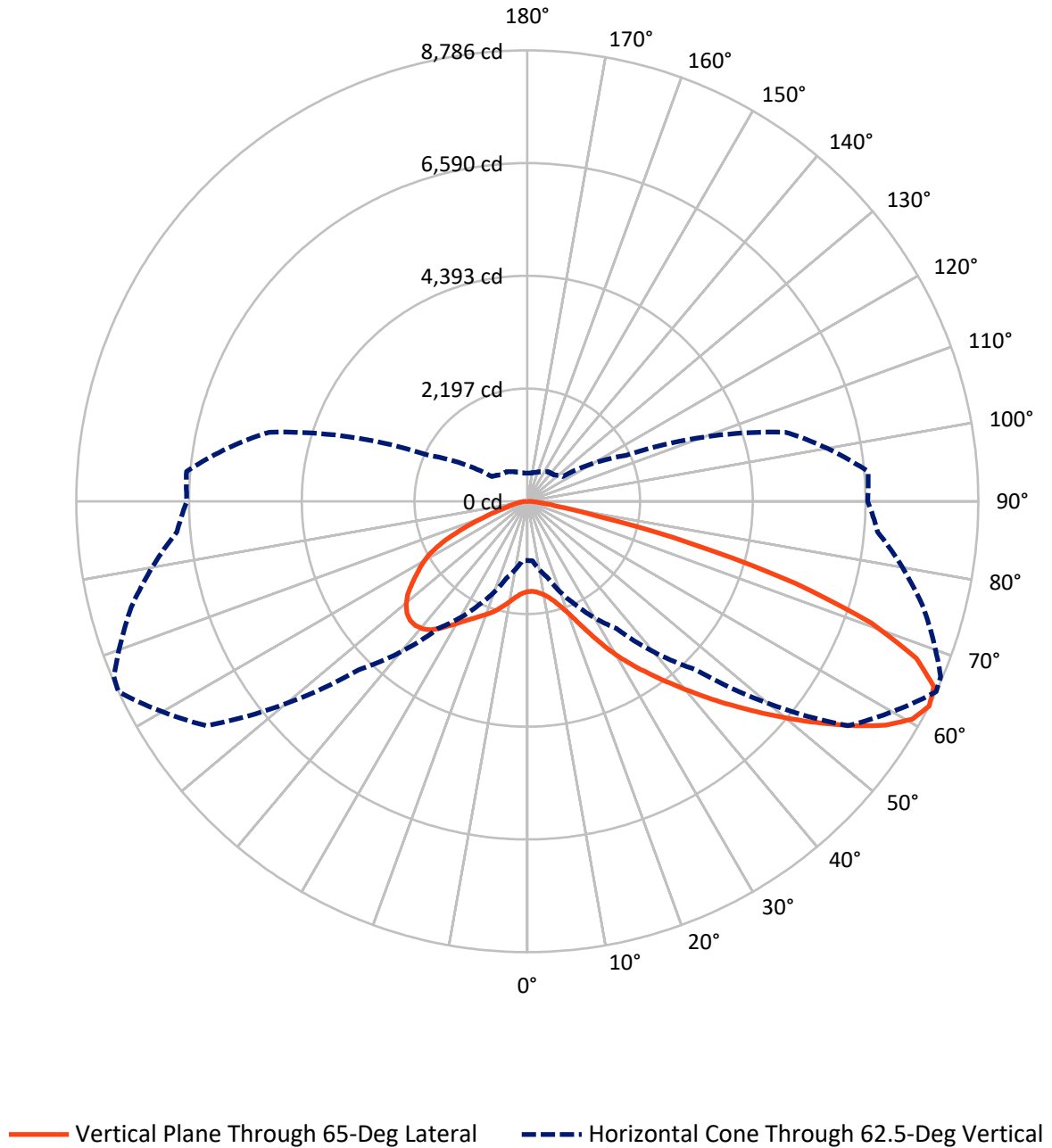
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 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	5040.7	0.0	5040.7
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	10933.3	0.0	10933.3
	% Fixture	68.4	0.0	68.4
Total	Lumens	15974.0	0.0	15974.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.5	1.1
10°-20°	595.1	3.7
20°-30°	1206.7	7.6
30°-40°	2088.1	13.1
40°-50°	3160.0	19.8
50°-60°	3704.9	23.2
60°-70°	3106.1	19.4
70°-80°	1714.8	10.7
80°-90°	222.7	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°	15974.0	100.0
0°-180°	15974.0	100.0



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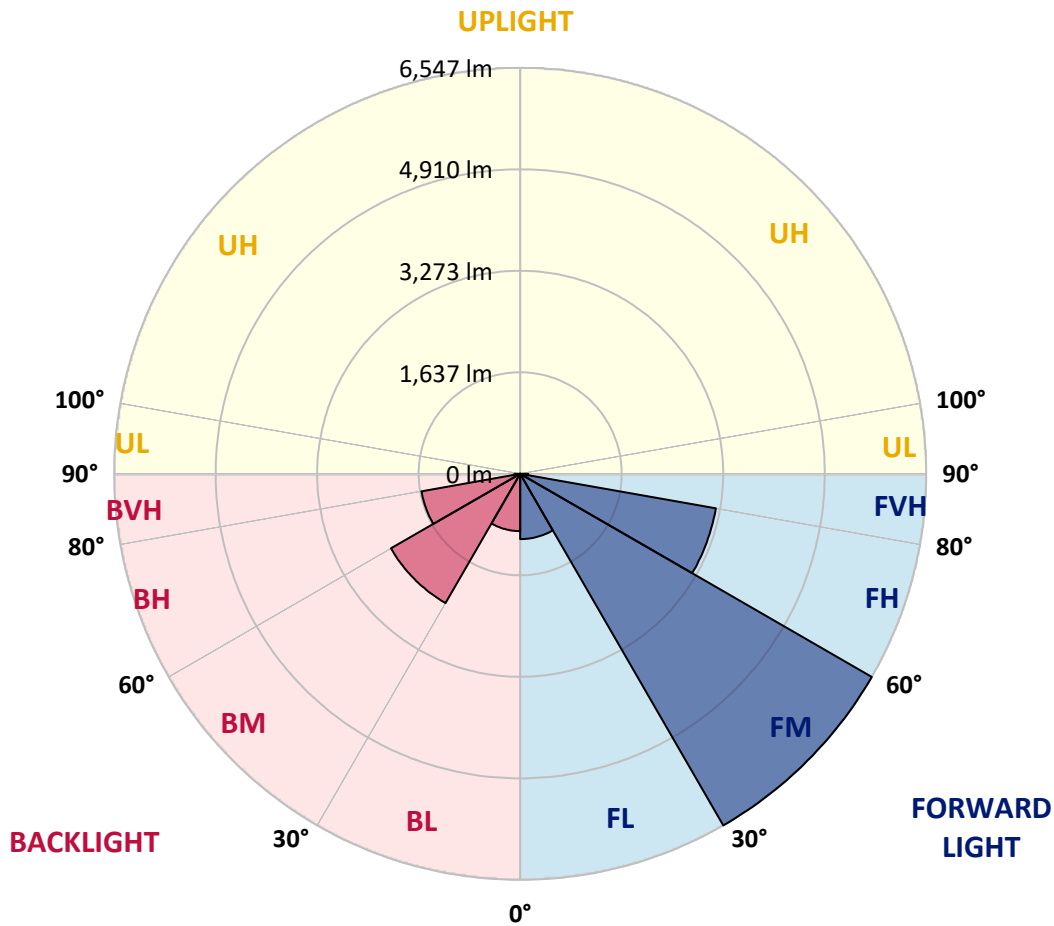
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1052.9	6.6			
FM (30°-60°)	6546.7	41.0			
FH (60°-80°)	3203.9	20.1			G2/5000
FVH (80°-90°)	129.8	0.8			G2/225
BL (0°-30°)	924.4	5.8	B2/1000		
BM (30°-60°)	2406.4	15.1	B2/2500		
BH (60°-80°)	1617.0	10.1	B3/2500		G3/2500
BVH (80°-90°)	92.9	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°	1760.3	1760.3	1760.3	1760.3	1760.3	1760.3	1760.3	1760.3	1760.3	1760.3
2.5°	1748.7	1743.7	1747.8	1747.8	1749.5	1748.7	1754.5	1756.1	1758.6	1763.6
5°	1731.3	1730.4	1737.9	1744.5	1751.1	1757.0	1764.4	1775.2	1776.8	1782.6
7.5°	1725.5	1720.5	1732.1	1740.4	1756.1	1770.2	1790.1	1808.3	1815.8	1818.3
10°	1770.2	1761.9	1772.7	1777.7	1790.9	1805.0	1828.2	1857.2	1865.5	1875.5
12.5°	1846.5	1837.3	1853.1	1860.5	1873.0	1885.4	1901.2	1929.3	1933.5	1951.7
15°	1950.9	1940.1	1950.0	1959.2	1979.9	1991.5	2007.2	2034.6	2034.6	2048.7
17.5°	2092.6	2078.5	2086.0	2089.3	2102.5	2119.9	2146.5	2170.5	2182.9	2178.0
20°	2303.9	2286.5	2286.5	2269.9	2265.0	2279.1	2313.9	2347.0	2360.3	2334.6
22.5°	2621.3	2596.5	2582.4	2526.0	2503.7	2505.3	2540.1	2580.7	2591.5	2545.9
25°	3024.9	2986.0	2966.9	2884.1	2833.5	2789.6	2816.9	2869.1	2884.1	2827.7
27.5°	3428.5	3431.0	3412.8	3313.3	3229.6	3149.3	3135.2	3189.9	3205.6	3141.8
30°	3994.6	3935.7	3900.9	3781.6	3662.2	3549.5	3491.5	3513.9	3518.0	3441.8
32.5°	4482.7	4467.8	4393.2	4288.8	4135.5	3958.9	3862.0	3826.3	3819.7	3711.1
35°	5038.8	5030.5	4951.8	4827.5	4661.7	4416.4	4241.5	4139.6	4131.3	3978.8
37.5°	5604.0	5604.0	5526.9	5391.0	5219.5	4912.8	4646.8	4485.2	4458.7	4259.8
40°	6054.8	6027.5	6041.6	5984.4	5788.0	5462.3	5096.8	4862.3	4826.6	4588.0
42.5°	6310.9	6301.8	6386.3	6450.2	6369.8	6109.5	5592.4	5270.9	5221.1	4949.3
45°	6368.1	6358.2	6509.0	6742.7	6855.4	6748.5	6131.1	5701.0	5640.5	5327.2
47.5°	6236.3	6216.5	6437.7	6806.5	7167.9	7356.0	6714.5	6167.6	6079.7	5695.2
50°	5840.2	5821.1	6156.0	6645.7	7273.1	7768.7	7347.7	6662.3	6528.1	6089.7
52.5°	4979.1	4988.2	5512.8	6185.8	7134.7	8025.6	7893.0	7183.6	7022.0	6493.3
55°	3878.6	3898.4	4543.2	5284.1	6581.1	7986.7	8265.1	7720.6	7559.9	6872.8
57.5°	2777.1	2865.0	3469.1	4202.6	5517.8	7369.2	8346.3	8231.1	8075.3	7287.2
60°	1800.0	1815.8	2437.4	3176.6	4201.8	6272.0	8181.4	8618.2	8496.3	7709.9
62.5°	1153.6	1164.4	1543.1	2221.9	3024.1	4640.2	7626.2	8786.4	8749.1	7989.2
65°	847.8	839.5	1036.8	1468.5	2037.1	2861.7	6548.0	8705.2	8779.0	8164.0
67.5°	707.8	696.2	793.1	1016.9	1500.9	1625.2	4844.9	8177.3	8447.5	8144.1
70°	644.8	634.8	693.7	755.0	1171.0	1088.1	2442.3	7109.0	7525.1	7917.9
72.5°	546.1	528.7	609.1	670.5	910.8	834.6	1009.4	5460.6	5967.8	7192.7
75°	423.5	411.9	480.7	590.1	684.5	651.4	638.1	3315.8	3869.4	5562.6
77.5°	335.6	319.9	382.9	460.0	615.8	491.4	464.9	1427.9	1976.6	3551.2
80°	252.8	238.7	290.9	363.8	473.2	370.5	300.8	582.6	745.0	1799.2
82.5°	179.8	167.4	203.0	266.9	318.2	332.3	184.8	326.5	367.1	693.7
85°	115.2	107.7	135.9	167.4	202.2	213.8	112.7	170.7	187.3	285.9
87.5°	63.0	51.4	72.9	77.9	93.6	85.4	53.9	62.2	67.1	103.6
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°
1760.3	0°	1760.3	1760.3	1760.3	1760.3	1760.3	1760.3	1760.3	1760.3	1760.3	1760.3
1763.6	2.5°	1766.9	1769.4	1777.7	1780.2	1786.0	1793.4	1798.4	1803.4	1803.4	1808.3
1790.1	5°	1790.9	1796.7	1814.1	1823.3	1838.2	1853.1	1862.2	1873.0	1879.6	1882.9
1832.4	7.5°	1837.3	1846.5	1871.3	1887.1	1912.8	1933.5	1947.6	1962.5	1965.8	1974.9
1891.2	10°	1900.3	1911.1	1939.3	1969.1	1999.8	2025.5	2038.7	2049.5	2053.6	2055.3
1966.6	12.5°	1972.4	1988.2	2024.6	2061.1	2093.4	2115.8	2119.1	2116.6	2105.0	2095.1
2059.4	15°	2061.1	2075.2	2115.8	2155.6	2187.1	2191.2	2170.5	2157.2	2143.1	2140.7
2163.0	17.5°	2167.2	2174.6	2211.9	2250.9	2253.4	2239.3	2208.6	2196.2	2182.9	2173.8
2298.1	20°	2290.7	2288.2	2314.7	2331.3	2313.9	2270.8	2224.4	2203.6	2190.4	2179.6
2463.9	22.5°	2438.2	2419.1	2415.8	2411.7	2365.3	2274.9	2211.9	2185.4	2164.7	2149.8
2695.1	25°	2652.8	2579.9	2529.3	2501.2	2396.7	2252.5	2172.2	2113.3	2074.4	2048.7
2977.7	27.5°	2921.3	2798.7	2671.1	2602.3	2396.7	2207.0	2076.0	1980.7	1916.9	1890.4
3251.2	30°	3177.4	3049.0	2860.8	2724.1	2390.9	2132.4	1921.0	1788.4	1713.9	1687.3
3484.9	32.5°	3396.2	3256.2	3062.2	2857.5	2376.9	2011.4	1728.8	1582.1	1510.0	1478.5
3716.1	35°	3599.3	3450.1	3264.4	3004.2	2339.6	1834.0	1517.4	1405.6	1325.2	1274.6
3951.5	37.5°	3807.3	3629.9	3455.9	3136.8	2272.4	1626.8	1355.0	1259.7	1165.2	1097.3
4201.8	40°	4033.5	3821.4	3660.6	3215.6	2162.2	1429.6	1229.0	1142.0	1041.7	969.6
4490.2	42.5°	4297.9	4050.9	3888.5	3256.2	2011.4	1289.5	1147.0	1061.6	967.2	908.3
4799.3	45°	4573.9	4303.7	4096.5	3255.3	1843.1	1224.1	1120.5	1035.9	931.5	870.2
5116.7	47.5°	4863.1	4568.1	4276.4	3202.3	1697.3	1233.2	1105.6	980.4	865.2	805.5
5437.4	50°	5153.2	4857.3	4450.4	3102.8	1635.1	1213.3	1050.0	902.5	766.6	712.7
5738.3	52.5°	5440.7	5164.8	4600.4	2961.1	1572.1	1139.5	978.8	801.4	726.0	688.7
6049.0	55°	5730.0	5468.9	4763.7	2754.8	1414.7	1053.3	859.4	763.3	693.7	659.7
6353.2	57.5°	6020.0	5820.3	4918.6	2548.4	1216.6	947.3	793.9	716.9	661.3	632.3
6607.6	60°	6321.7	6222.3	5078.6	2358.6	1021.0	811.3	745.9	679.6	623.2	590.9
6852.1	62.5°	6632.5	6664.8	5203.7	2114.1	841.2	728.5	702.8	634.8	580.1	549.5
7054.3	65°	6945.8	7091.6	5285.8	1775.2	682.1	649.7	656.4	585.9	530.4	503.9
7202.7	67.5°	7181.9	7399.1	5262.6	1343.4	559.4	575.2	598.4	534.5	482.3	461.6
7178.6	70°	7208.5	7362.6	5033.8	919.9	468.2	502.2	533.7	484.0	430.1	415.2
6840.5	72.5°	6855.4	6865.4	4396.5	600.8	396.1	440.9	465.8	432.6	380.4	365.5
5984.4	75°	5929.7	5677.8	3228.0	396.1	331.5	378.7	401.9	378.7	328.2	331.5
4477.7	77.5°	4492.7	4021.1	1960.0	281.8	276.8	318.2	349.7	333.2	290.1	325.7
2251.7	80°	2314.7	2175.5	874.3	210.5	218.8	254.4	287.6	266.0	229.6	218.8
503.1	82.5°	530.4	616.6	344.8	150.8	158.3	183.2	219.6	199.7	164.9	139.2
209.7	85°	185.6	203.0	152.5	94.5	92.8	114.4	149.2	133.4	111.9	89.5
88.7	87.5°	58.8	77.1	57.2	38.1	39.8	51.4	68.8	63.0	52.2	34.0
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>
1760.3
1808.3
1884.6
1971.6
2051.2
2095.1
2140.7
2174.6
2180.4
2154.8
2058.6
1903.6
1703.1
1494.2
1291.2
1115.5
983.7
919.9
880.1
813.8
716.0
688.7
656.4
627.4
588.4
548.6
503.1
462.4
416.0
364.7
319.9
286.7
199.7
137.6
94.5
35.6
0.0

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