

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: P947198

Luminaire Tested: **GALN-SB2C-840-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947198
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-SB2C-840-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14518 lumens
Efficiency: N/A
Efficacy: 143.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

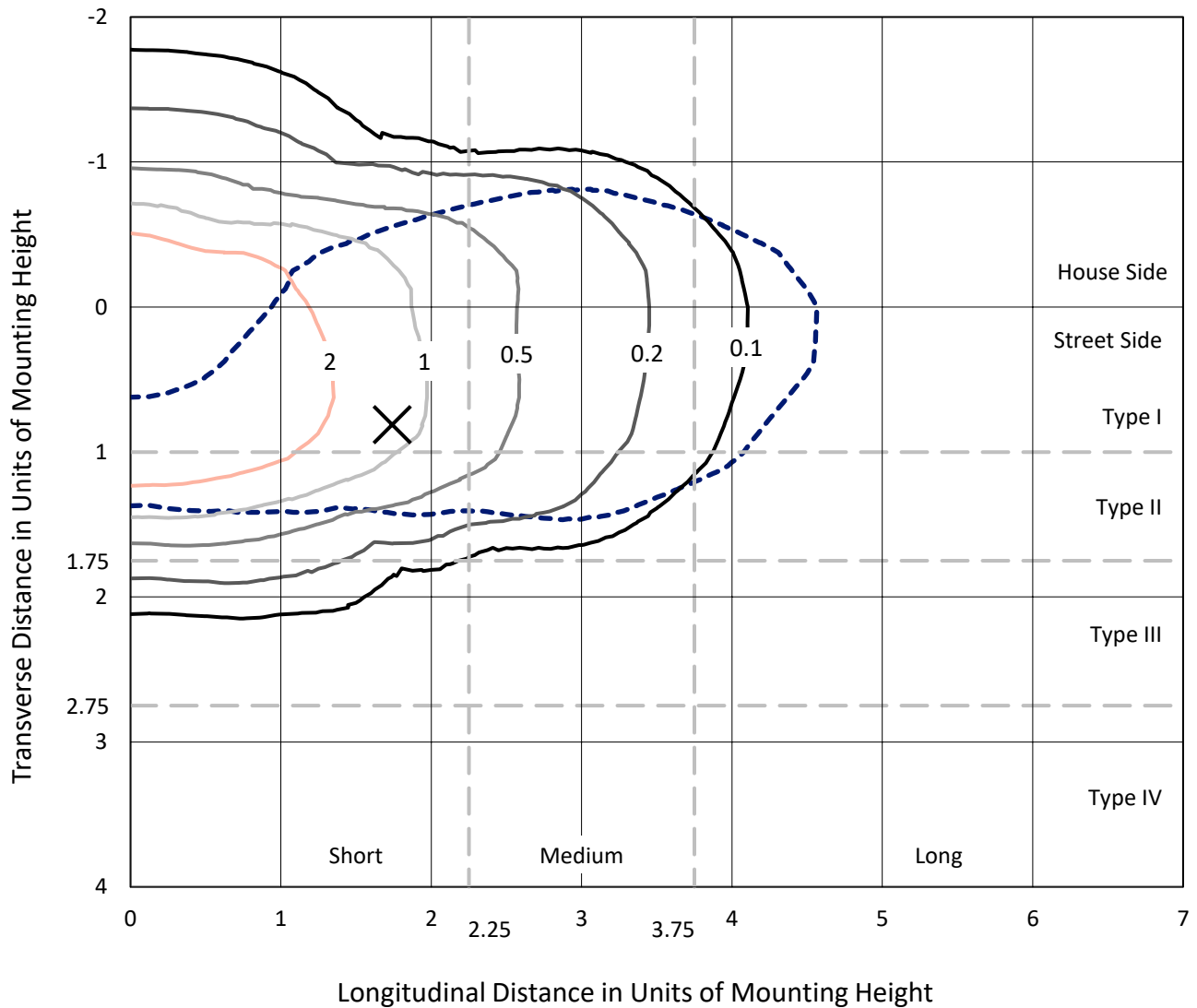
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

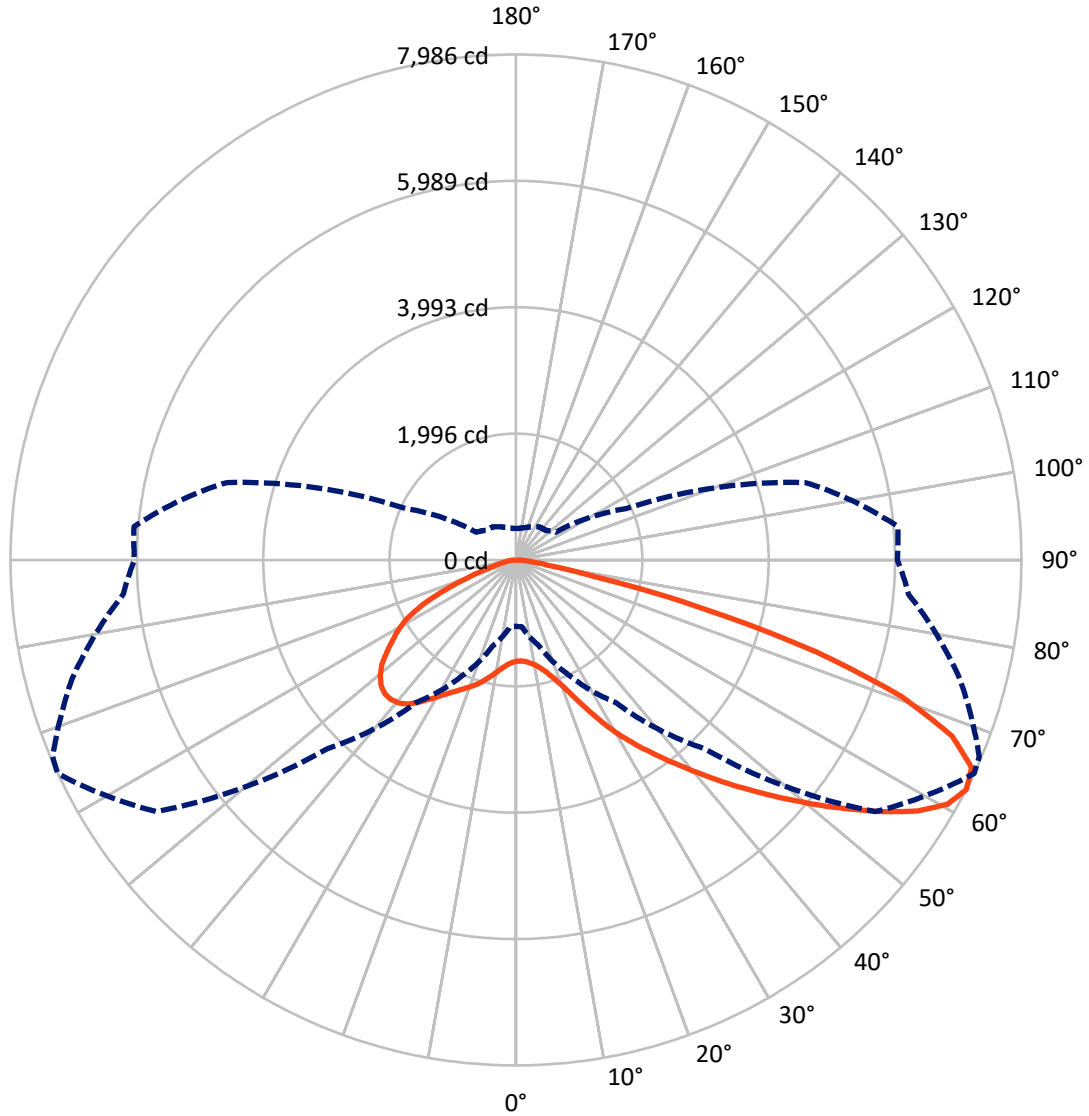
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4581.2	0.0	4581.2
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	9936.8	0.0	9936.8
	% Fixture	68.4	0.0	68.4
Total	Lumens	14518.0	0.0	14518.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.5	1.1
10°-20°	540.9	3.7
20°-30°	1096.7	7.6
30°-40°	1897.8	13.1
40°-50°	2872.0	19.8
50°-60°	3367.2	23.2
60°-70°	2823.0	19.4
70°-80°	1558.5	10.7
80°-90°	202.4	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°	14518.0	100.0
0°-180°	14518.0	100.0



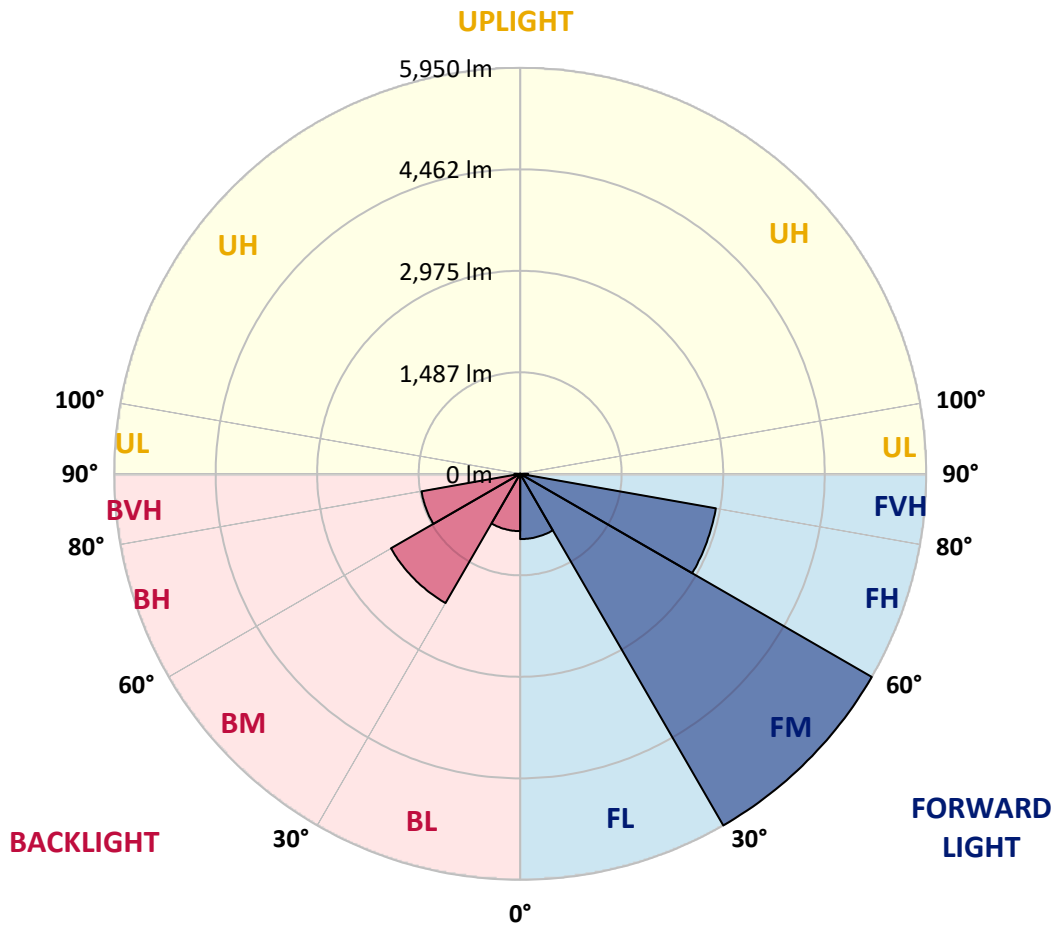
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	956.9	6.6			
FM (30°-60°)	5950.0	41.0			
FH (60°-80°)	2911.9	20.1			G2/5000
FVH (80°-90°)	118.0	0.8			G2/225
BL (0°-30°)	840.1	5.8	B2/1000		
BM (30°-60°)	2187.0	15.1	B2/2500		
BH (60°-80°)	1469.6	10.1	B3/2500		G3/2500
BVH (80°-90°)	84.5	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°	1599.8	1599.8	1599.8	1599.8	1599.8	1599.8	1599.8	1599.8	1599.8	1599.8
2.5°	1589.3	1584.8	1588.5	1588.5	1590.0	1589.3	1594.5	1596.1	1598.3	1602.8
5°	1573.5	1572.7	1579.5	1585.5	1591.5	1596.8	1603.6	1613.4	1614.9	1620.2
7.5°	1568.2	1563.7	1574.2	1581.7	1596.1	1608.9	1626.9	1643.5	1650.3	1652.5
10°	1608.9	1601.3	1611.1	1615.6	1627.7	1640.5	1661.6	1687.9	1695.5	1704.5
12.5°	1678.2	1669.9	1684.2	1691.0	1702.3	1713.6	1727.9	1753.5	1757.2	1773.8
15°	1773.1	1763.3	1772.3	1780.6	1799.4	1810.0	1824.3	1849.1	1849.1	1861.9
17.5°	1901.9	1889.1	1895.8	1898.8	1910.9	1926.7	1950.8	1972.7	1984.0	1979.4
20°	2093.9	2078.1	2078.1	2063.0	2058.5	2071.3	2103.0	2133.1	2145.1	2121.8
22.5°	2382.4	2359.8	2347.0	2295.8	2275.5	2277.0	2308.6	2345.5	2355.3	2313.9
25°	2749.2	2713.8	2696.5	2621.2	2575.2	2535.3	2560.2	2607.6	2621.2	2570.0
27.5°	3116.0	3118.3	3101.7	3011.3	2935.3	2862.2	2849.4	2899.1	2913.4	2855.4
30°	3630.5	3577.0	3545.4	3436.9	3328.4	3226.0	3173.3	3193.6	3197.4	3128.1
32.5°	4074.1	4060.6	3992.8	3897.9	3758.5	3598.1	3510.0	3477.6	3471.6	3372.9
35°	4579.5	4572.0	4500.4	4387.5	4236.8	4013.9	3854.9	3762.3	3754.8	3616.2
37.5°	5093.2	5093.2	5023.2	4899.6	4743.7	4465.0	4223.3	4076.4	4052.3	3871.5
40°	5503.0	5478.1	5490.9	5438.9	5260.4	4964.4	4632.2	4419.1	4386.7	4169.8
42.5°	5735.7	5727.4	5804.2	5862.2	5789.2	5552.7	5082.7	4790.4	4745.2	4498.2
45°	5787.7	5778.6	5915.7	6128.1	6230.6	6133.4	5572.3	5181.3	5126.4	4841.6
47.5°	5667.9	5649.8	5850.9	6186.1	6514.5	6685.5	6102.5	5605.4	5525.6	5176.1
50°	5307.9	5290.6	5594.9	6040.0	6610.2	7060.6	6678.0	6055.1	5933.0	5534.6
52.5°	4525.3	4533.6	5010.4	5622.0	6484.4	7294.1	7173.6	6528.8	6382.0	5901.4
55°	3525.0	3543.1	4129.1	4802.5	5981.3	7258.7	7511.8	7016.9	6870.8	6246.4
57.5°	2524.0	2603.9	3152.9	3819.5	5014.9	6697.6	7585.6	7480.9	7339.3	6623.0
60°	1636.0	1650.3	2215.2	2887.1	3818.8	5700.3	7435.7	7832.6	7721.9	7007.1
62.5°	1048.5	1058.3	1402.5	2019.4	2748.5	4217.2	6931.0	7985.5	7951.7	7261.0
65°	770.5	763.0	942.3	1334.7	1851.4	2600.8	5951.1	7911.7	7978.8	7419.9
67.5°	643.2	632.7	720.8	924.2	1364.1	1477.0	4403.3	7431.9	7677.5	7401.8
70°	586.0	577.0	630.4	686.2	1064.3	989.0	2219.7	6461.0	6839.2	7196.2
72.5°	496.4	480.5	553.6	609.3	827.8	758.5	917.4	4962.9	5423.9	6537.1
75°	384.9	374.3	436.9	536.3	622.2	592.0	580.0	3013.6	3516.7	5055.6
77.5°	305.1	290.7	348.0	418.0	559.6	446.7	422.6	1297.8	1796.4	3227.5
80°	229.7	216.9	264.4	330.7	430.1	336.7	273.4	529.5	677.1	1635.2
82.5°	163.4	152.1	184.5	242.5	289.2	302.0	168.0	296.8	333.7	630.4
85°	104.7	97.9	123.5	152.1	183.8	194.3	102.4	155.2	170.2	259.9
87.5°	57.2	46.7	66.3	70.8	85.1	77.6	49.0	56.5	61.0	94.2
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°
1599.8	0°	1599.8	1599.8	1599.8	1599.8	1599.8	1599.8	1599.8	1599.8	1599.8	1599.8
1602.8	2.5°	1605.8	1608.1	1615.6	1617.9	1623.2	1629.9	1634.5	1639.0	1639.0	1643.5
1626.9	5°	1627.7	1633.0	1648.8	1657.1	1670.6	1684.2	1692.5	1702.3	1708.3	1711.3
1665.4	7.5°	1669.9	1678.2	1700.8	1715.1	1738.4	1757.2	1770.0	1783.6	1786.6	1794.9
1718.8	10°	1727.1	1736.9	1762.5	1789.6	1817.5	1840.8	1852.9	1862.7	1866.5	1868.0
1787.4	12.5°	1792.6	1807.0	1840.1	1873.2	1902.6	1922.9	1926.0	1923.7	1913.2	1904.1
1871.7	15°	1873.2	1886.0	1922.9	1959.1	1987.7	1991.5	1972.7	1960.6	1947.8	1945.5
1965.9	17.5°	1969.6	1976.4	2010.3	2045.7	2048.0	2035.2	2007.3	1996.0	1984.0	1975.7
2088.7	20°	2081.9	2079.6	2103.7	2118.8	2103.0	2063.8	2021.6	2002.8	1990.7	1980.9
2239.3	22.5°	2215.9	2198.6	2195.6	2191.8	2149.7	2067.6	2010.3	1986.2	1967.4	1953.8
2449.4	25°	2411.0	2344.7	2298.8	2273.2	2178.3	2047.2	1974.2	1920.7	1885.3	1861.9
2706.3	27.5°	2655.1	2543.6	2427.6	2365.1	2178.3	2005.8	1886.8	1800.2	1742.2	1718.1
2954.8	30°	2887.8	2771.1	2600.1	2475.8	2173.0	1938.0	1745.9	1625.4	1557.6	1533.5
3167.3	32.5°	3086.7	2959.4	2783.1	2597.1	2160.2	1828.0	1571.2	1437.9	1372.4	1343.7
3377.4	35°	3271.2	3135.6	2966.9	2730.4	2126.3	1666.9	1379.1	1277.4	1204.4	1158.4
3591.3	37.5°	3460.3	3299.1	3140.9	2850.9	2065.3	1478.6	1231.5	1144.9	1059.0	997.3
3818.8	40°	3665.9	3473.1	3326.9	2922.5	1965.1	1299.3	1117.0	1037.9	946.8	881.3
4080.9	42.5°	3906.2	3681.7	3534.1	2959.4	1828.0	1172.0	1042.4	964.9	879.0	825.5
4361.8	45°	4157.0	3911.4	3723.1	2958.6	1675.1	1112.5	1018.3	941.5	846.6	790.9
4650.3	47.5°	4419.8	4151.7	3886.6	2910.4	1542.6	1120.8	1004.8	891.0	786.4	732.1
4941.8	50°	4683.5	4414.6	4044.7	2820.0	1486.1	1102.7	954.3	820.2	696.7	647.8
5215.2	52.5°	4944.8	4694.0	4181.1	2691.2	1428.8	1035.7	889.5	728.4	659.8	625.9
5497.7	55°	5207.7	4970.4	4329.5	2503.7	1285.7	957.3	781.1	693.7	630.4	599.6
5774.1	57.5°	5471.3	5289.8	4470.3	2316.1	1105.7	860.9	721.6	651.5	601.1	574.7
6005.4	60°	5745.5	5655.1	4615.7	2143.6	928.0	737.4	677.9	617.6	566.4	537.0
6227.6	62.5°	6027.9	6057.3	4729.4	1921.4	764.5	662.1	638.7	577.0	527.2	499.4
6411.3	65°	6312.7	6445.2	4804.0	1613.4	619.9	590.5	596.5	532.5	482.1	458.0
6546.2	67.5°	6527.3	6724.7	4782.9	1221.0	508.4	522.7	543.8	485.8	438.4	419.5
6524.3	70°	6551.4	6691.5	4575.0	836.1	425.6	456.4	485.1	439.9	390.9	377.4
6217.0	72.5°	6230.6	6239.6	3995.8	546.1	360.0	400.7	423.3	393.2	345.7	332.2
5438.9	75°	5389.2	5160.3	2933.8	360.0	301.3	344.2	365.3	344.2	298.3	301.3
4069.6	77.5°	4083.2	3654.6	1781.3	256.1	251.6	289.2	317.9	302.8	263.6	296.0
2046.5	80°	2103.7	1977.2	794.6	191.3	198.8	231.2	261.4	241.8	208.6	198.8
457.2	82.5°	482.1	560.4	313.3	137.1	143.9	166.5	199.6	181.5	149.9	126.5
190.6	85°	168.7	184.5	138.6	85.9	84.4	103.9	135.6	121.3	101.7	81.3
80.6	87.5°	53.5	70.0	52.0	34.6	36.2	46.7	62.5	57.2	47.5	30.9
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>
1599.8
1643.5
1712.8
1791.9
1864.2
1904.1
1945.5
1976.4
1981.7
1958.3
1871.0
1730.1
1547.8
1358.0
1173.5
1013.8
894.1
836.1
799.9
739.7
650.8
625.9
596.5
570.2
534.8
498.6
457.2
420.3
378.1
331.4
290.7
260.6
181.5
125.0
85.9
32.4
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