

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: P947177

Luminaire Tested: **GALN-SB2C-835-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947177
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-835-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14078 lumens
Efficiency: N/A
Efficacy: 139.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

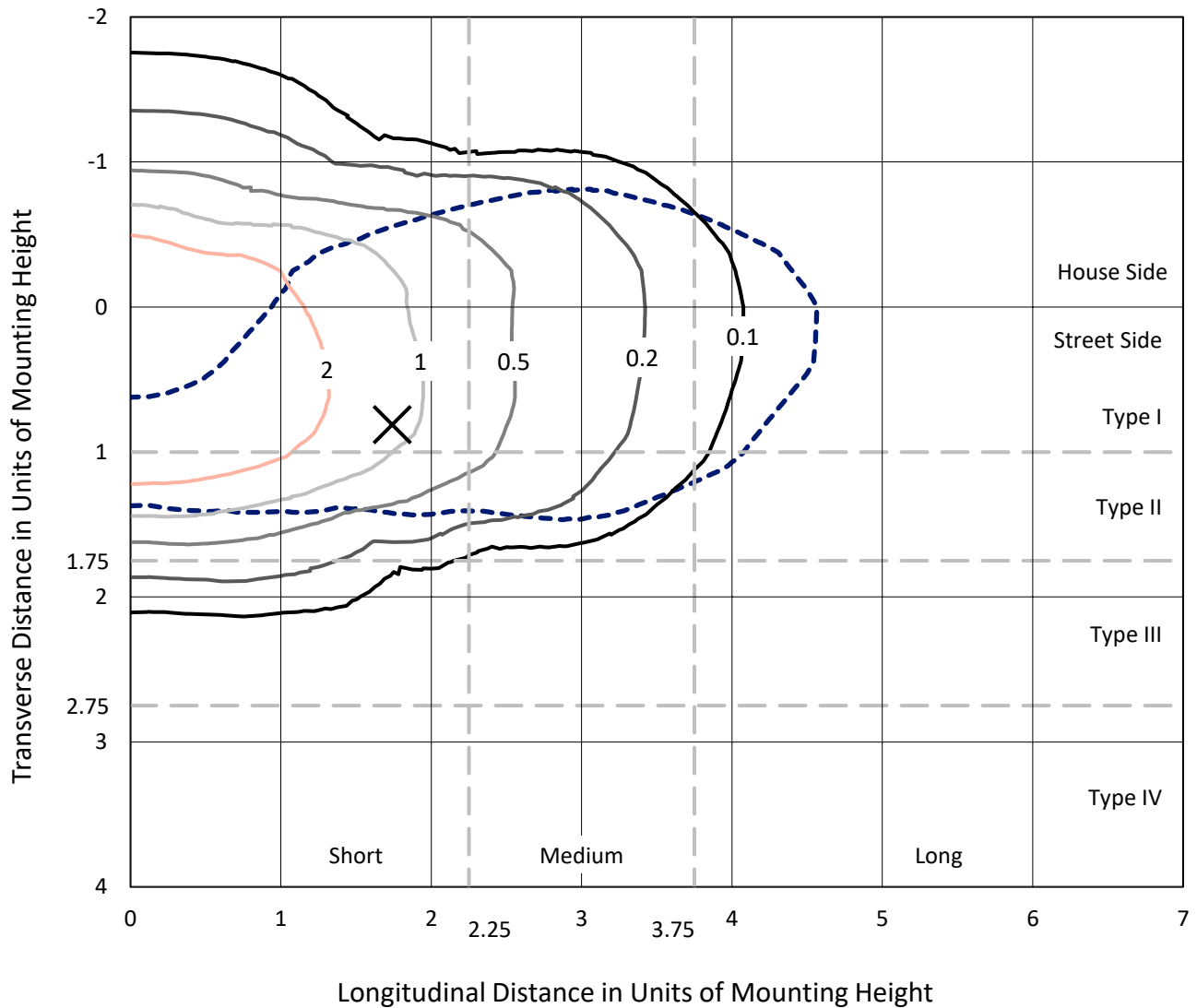
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

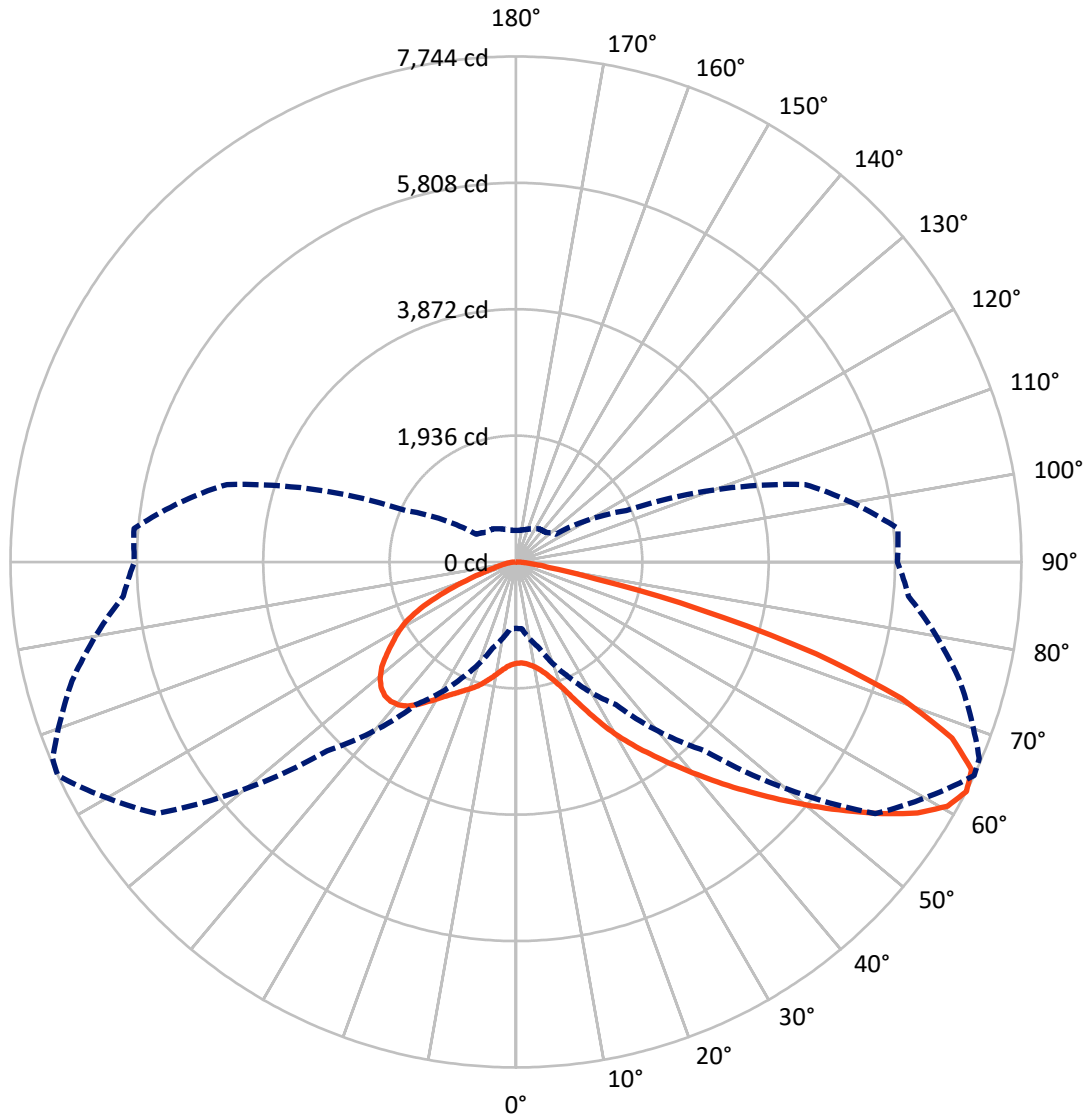
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 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	4442.4	0.0	4442.4
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	9635.6	0.0	9635.6
	% Fixture	68.4	0.0	68.4
Total	Lumens	14078.0	0.0	14078.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.7	1.1
10°-20°	524.5	3.7
20°-30°	1063.5	7.6
30°-40°	1840.3	13.1
40°-50°	2784.9	19.8
50°-60°	3265.1	23.2
60°-70°	2737.4	19.4
70°-80°	1511.3	10.7
80°-90°	196.3	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°	14078.0	100.0
0°-180°	14078.0	100.0



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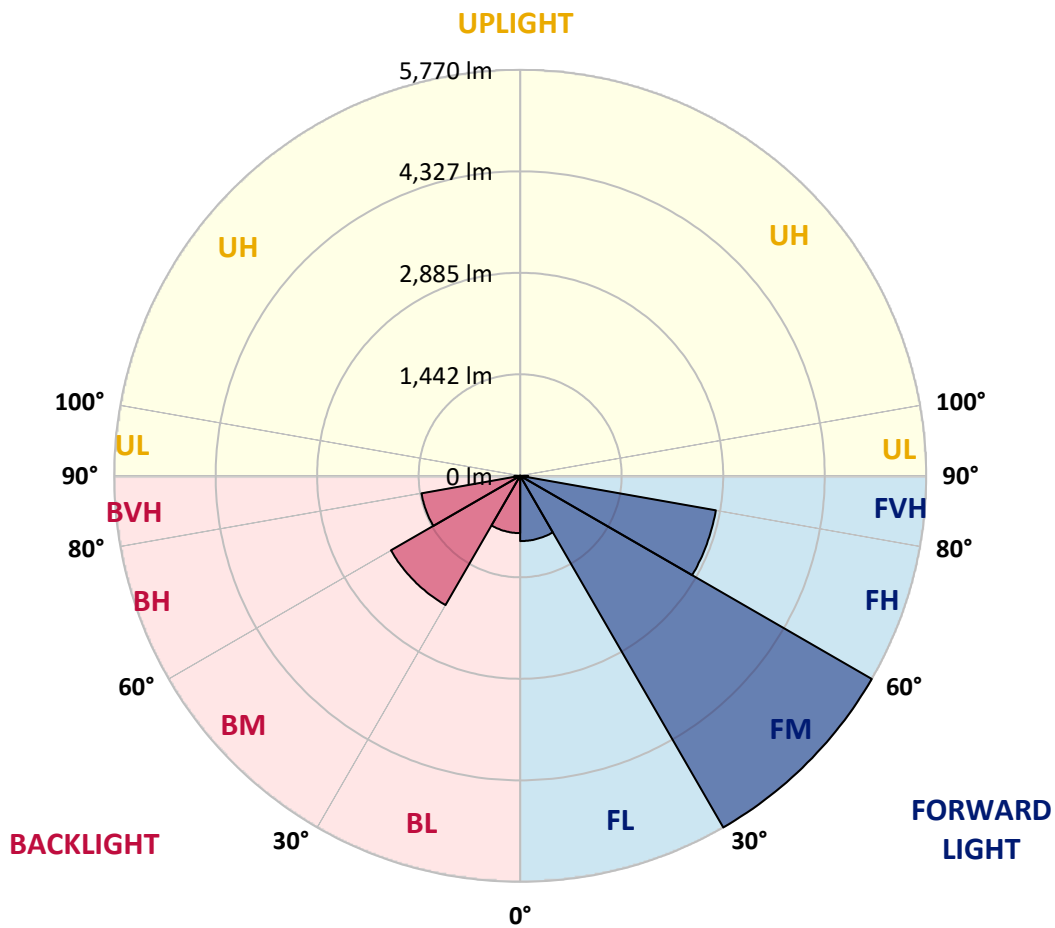
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	927.9	6.6			
FM (30°-60°)	5769.6	41.0			
FH (60°-80°)	2823.6	20.1			G2/5000
FVH (80°-90°)	114.4	0.8			G2/225
BL (0°-30°)	814.7	5.8	B2/1000		
BM (30°-60°)	2120.7	15.1	B2/2500		
BH (60°-80°)	1425.1	10.1	B3/2500		G3/2500
BVH (80°-90°)	81.9	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°	1551.3	1551.3	1551.3	1551.3	1551.3	1551.3	1551.3	1551.3	1551.3	1551.3
2.5°	1541.1	1536.7	1540.4	1540.4	1541.8	1541.1	1546.2	1547.7	1549.9	1554.3
5°	1525.8	1525.0	1531.6	1537.5	1543.3	1548.4	1555.0	1564.5	1565.9	1571.1
7.5°	1520.7	1516.3	1526.5	1533.8	1547.7	1560.1	1577.6	1593.7	1600.3	1602.5
10°	1560.1	1552.8	1562.3	1566.7	1578.4	1590.8	1611.2	1636.8	1644.1	1652.9
12.5°	1627.3	1619.3	1633.1	1639.7	1650.7	1661.6	1675.5	1700.3	1704.0	1720.1
15°	1719.3	1709.8	1718.6	1726.6	1744.9	1755.1	1769.0	1793.1	1793.1	1805.5
17.5°	1844.2	1831.8	1838.4	1841.3	1853.0	1868.3	1891.7	1912.9	1923.8	1919.4
20°	2030.5	2015.1	2015.1	2000.5	1996.1	2008.6	2039.2	2068.4	2080.1	2057.5
22.5°	2310.2	2288.3	2275.9	2226.2	2206.5	2207.9	2238.6	2274.4	2283.9	2243.7
25°	2665.9	2631.6	2614.8	2541.7	2497.2	2458.5	2482.6	2528.6	2541.7	2492.1
27.5°	3021.6	3023.8	3007.7	2920.1	2846.3	2775.5	2763.0	2811.2	2825.1	2768.9
30°	3520.4	3468.6	3437.9	3332.7	3227.6	3128.2	3077.1	3096.8	3100.5	3033.3
32.5°	3950.6	3937.5	3871.8	3779.7	3644.6	3489.0	3403.6	3372.2	3366.3	3270.7
35°	4440.7	4433.4	4364.0	4254.5	4108.4	3892.2	3738.1	3648.3	3641.0	3506.6
37.5°	4938.9	4938.9	4870.9	4751.1	4600.0	4329.7	4095.3	3952.8	3929.5	3754.2
40°	5336.2	5312.1	5324.5	5274.1	5101.0	4814.0	4491.9	4285.2	4253.8	4043.4
42.5°	5561.9	5553.8	5628.3	5684.6	5613.7	5384.4	4928.6	4645.2	4601.4	4361.9
45°	5612.3	5603.5	5736.4	5942.4	6041.7	5947.5	5403.4	5024.3	4971.0	4694.9
47.5°	5496.1	5478.6	5673.6	5998.6	6317.1	6482.9	5917.6	5435.5	5358.1	5019.2
50°	5147.0	5130.2	5425.3	5856.9	6409.8	6846.6	6475.6	5871.6	5753.2	5366.9
52.5°	4388.1	4396.2	4858.5	5451.6	6287.9	7073.0	6956.2	6331.0	6188.5	5722.6
55°	3418.2	3435.7	4004.0	4656.9	5800.0	7038.7	7284.1	6804.3	6662.6	6057.1
57.5°	2447.5	2524.9	3057.4	3703.8	4862.9	6494.6	7355.7	7254.2	7116.9	6422.3
60°	1586.4	1600.3	2148.1	2799.6	3703.0	5527.5	7210.3	7595.3	7487.9	6794.8
62.5°	1016.7	1026.2	1360.0	1958.2	2665.2	4089.4	6721.0	7743.5	7710.7	7040.9
65°	747.2	739.9	913.7	1294.2	1795.3	2522.0	5770.8	7671.9	7737.0	7195.0
67.5°	623.7	613.5	699.0	896.2	1322.7	1432.3	4269.8	7206.7	7444.8	7177.5
70°	568.2	559.5	611.3	665.4	1032.0	959.0	2152.4	6265.2	6631.9	6978.1
72.5°	481.3	466.0	536.8	590.9	802.7	735.5	889.6	4812.5	5259.5	6339.0
75°	373.2	363.0	423.6	520.0	603.3	574.1	562.4	2922.3	3410.2	4902.3
77.5°	295.8	281.9	337.4	405.4	542.7	433.1	409.7	1258.5	1742.0	3129.7
80°	222.8	210.4	256.4	320.6	417.0	326.5	265.1	513.5	656.6	1585.7
82.5°	158.5	147.5	178.9	235.2	280.5	292.9	162.9	287.8	323.6	611.3
85°	101.5	94.9	119.8	147.5	178.2	188.4	99.3	150.5	165.1	252.0
87.5°	55.5	45.3	64.3	68.7	82.5	75.2	47.5	54.8	59.2	91.3
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°
1551.3	0°	1551.3	1551.3	1551.3	1551.3	1551.3	1551.3	1551.3	1551.3	1551.3	1551.3
1554.3	2.5°	1557.2	1559.4	1566.7	1568.9	1574.0	1580.5	1584.9	1589.3	1589.3	1593.7
1577.6	5°	1578.4	1583.5	1598.8	1606.8	1620.0	1633.1	1641.2	1650.7	1656.5	1659.4
1614.9	7.5°	1619.3	1627.3	1649.2	1663.1	1685.7	1704.0	1716.4	1729.5	1732.5	1740.5
1666.7	10°	1674.8	1684.3	1709.1	1735.4	1762.4	1785.1	1796.7	1806.2	1809.9	1811.4
1733.2	12.5°	1738.3	1752.2	1784.3	1816.5	1844.9	1864.7	1867.6	1865.4	1855.2	1846.4
1815.0	15°	1816.5	1828.9	1864.7	1899.7	1927.5	1931.1	1912.9	1901.2	1888.8	1886.6
1906.3	17.5°	1910.0	1916.5	1949.4	1983.7	1985.9	1973.5	1946.5	1935.5	1923.8	1915.8
2025.4	20°	2018.8	2016.6	2040.0	2054.6	2039.2	2001.3	1960.3	1942.1	1930.4	1920.9
2171.4	22.5°	2148.8	2132.0	2129.1	2125.4	2084.5	2004.9	1949.4	1926.0	1907.8	1894.6
2375.2	25°	2338.0	2273.7	2229.1	2204.3	2112.3	1985.2	1914.3	1862.5	1828.1	1805.5
2624.3	27.5°	2574.6	2466.5	2354.0	2293.4	2112.3	1945.0	1829.6	1745.6	1689.4	1666.0
2865.3	30°	2800.3	2687.1	2521.3	2400.8	2107.2	1879.3	1693.0	1576.2	1510.4	1487.1
3071.3	32.5°	2993.1	2869.7	2698.8	2518.4	2094.7	1772.6	1523.6	1394.3	1330.8	1303.0
3275.0	35°	3172.1	3040.6	2877.0	2647.6	2061.9	1616.3	1337.3	1238.7	1167.9	1123.3
3482.5	37.5°	3355.4	3199.1	3045.7	2764.5	2002.7	1433.7	1194.2	1110.2	1026.9	967.0
3703.0	40°	3554.8	3367.8	3226.1	2833.9	1905.6	1259.9	1083.2	1006.5	918.1	854.5
3957.2	42.5°	3787.8	3570.1	3427.0	2869.7	1772.6	1136.5	1010.9	935.6	852.4	800.5
4229.7	45°	4031.0	3792.9	3610.3	2868.9	1624.4	1078.8	987.5	913.0	821.0	766.9
4509.4	47.5°	4285.9	4025.9	3768.8	2822.2	1495.8	1086.8	974.3	864.0	762.5	709.9
4792.0	50°	4541.5	4280.8	3922.2	2734.6	1441.0	1069.3	925.4	795.4	675.6	628.1
5057.2	52.5°	4795.0	4551.7	4054.4	2609.7	1385.5	1004.3	862.6	706.3	639.8	606.9
5331.1	55°	5049.9	4819.8	4198.2	2427.8	1246.8	928.3	757.4	672.7	611.3	581.4
5599.1	57.5°	5305.5	5129.5	4334.8	2245.9	1072.2	834.8	699.7	631.8	582.8	557.3
5823.3	60°	5571.4	5483.7	4475.8	2078.7	899.8	715.0	657.3	598.9	549.2	520.8
6038.8	62.5°	5845.3	5873.7	4586.1	1863.2	741.3	642.0	619.4	559.5	511.3	484.2
6217.0	65°	6121.3	6249.9	4658.4	1564.5	601.1	572.6	578.5	516.4	467.4	444.1
6347.8	67.5°	6329.5	6520.9	4637.9	1184.0	493.0	506.9	527.3	471.1	425.1	406.8
6326.6	70°	6352.9	6488.7	4436.3	810.7	412.7	442.6	470.4	426.5	379.1	365.9
6028.6	72.5°	6041.7	6050.5	3874.7	529.5	349.1	388.6	410.5	381.3	335.2	322.1
5274.1	75°	5225.9	5003.9	2844.8	349.1	292.2	333.8	354.2	333.8	289.2	292.2
3946.3	77.5°	3959.4	3543.8	1727.4	248.3	243.9	280.5	308.2	293.6	255.6	287.0
1984.5	80°	2040.0	1917.3	770.6	185.5	192.8	224.2	253.4	234.5	202.3	192.8
443.3	82.5°	467.4	543.4	303.8	132.9	139.5	161.4	193.6	176.0	145.3	122.7
184.8	85°	163.6	178.9	134.4	83.3	81.8	100.8	131.5	117.6	98.6	78.9
78.2	87.5°	51.9	67.9	50.4	33.6	35.1	45.3	60.6	55.5	46.0	29.9
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>
1551.3
1593.7
1660.9
1737.6
1807.7
1846.4
1886.6
1916.5
1921.6
1899.0
1814.3
1677.7
1500.9
1316.9
1137.9
983.1
867.0
810.7
775.7
717.2
631.1
606.9
578.5
552.9
518.6
483.5
443.3
407.6
366.7
321.4
281.9
252.7
176.0
121.2
83.3
31.4
0.0

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