

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: P947765

Luminaire Tested: **GALN-SB3A-735-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947765
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-SB3A-735-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13639 lumens
Efficiency: N/A
Efficacy: 161.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

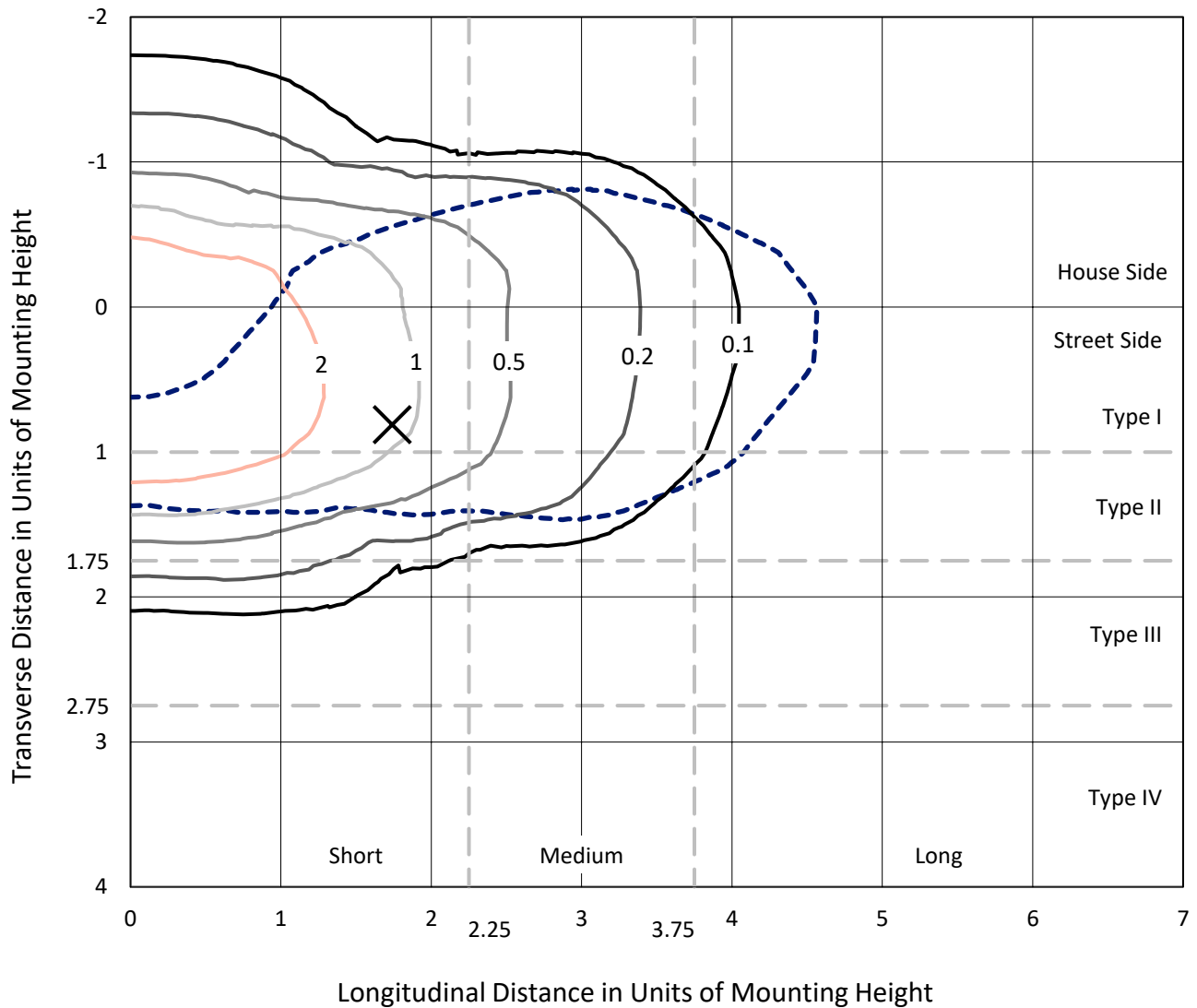
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

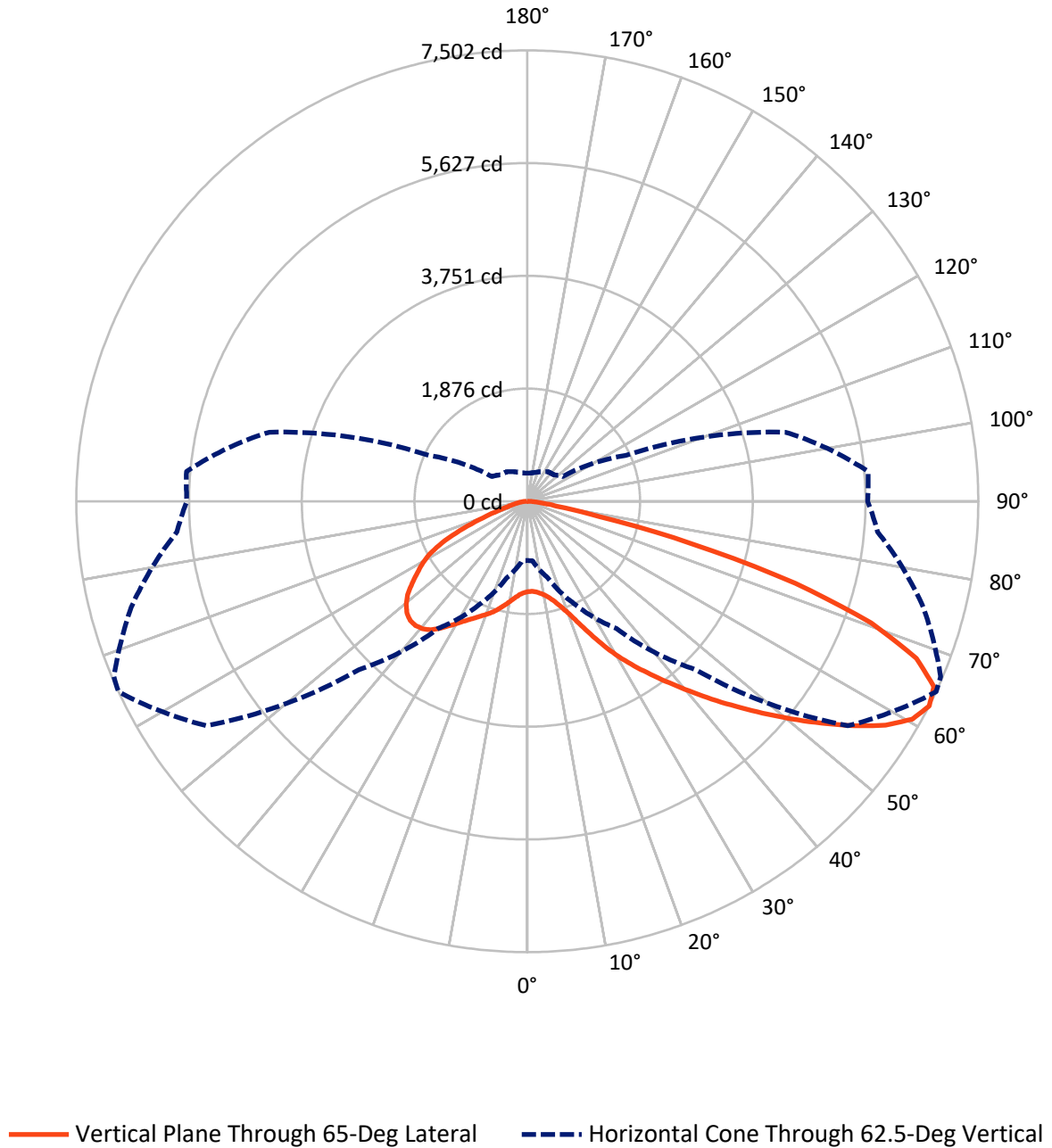
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 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	4303.9	0.0	4303.9
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	9335.1	0.0	9335.1
	% Fixture	68.4	0.0	68.4
Total	Lumens	13639.0	0.0	13639.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.8	1.1
10°-20°	508.1	3.7
20°-30°	1030.3	7.6
30°-40°	1782.9	13.1
40°-50°	2698.1	19.8
50°-60°	3163.3	23.2
60°-70°	2652.1	19.4
70°-80°	1464.2	10.7
80°-90°	190.2	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°	13639.0	100.0
0°-180°	13639.0	100.0



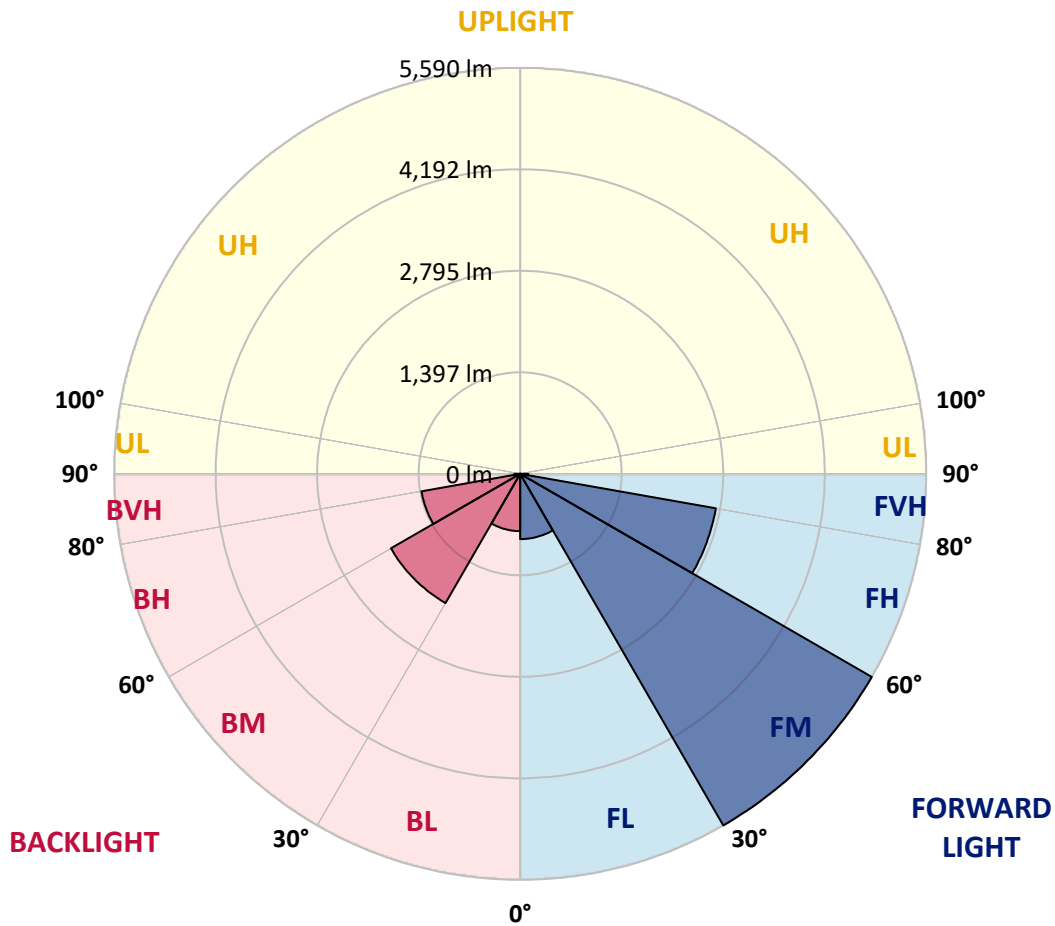
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	899.0	6.6			
FM (30°-60°)	5589.7	41.0			
FH (60°-80°)	2735.6	20.1			G2/5000
FVH (80°-90°)	110.8	0.8			G2/225
BL (0°-30°)	789.3	5.8	B2/1000		
BM (30°-60°)	2054.6	15.1	B2/2500		
BH (60°-80°)	1380.6	10.1	B3/2500		G3/2500
BVH (80°-90°)	79.3	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°	1503.0	1503.0	1503.0	1503.0	1503.0	1503.0	1503.0	1503.0	1503.0	1503.0
2.5°	1493.1	1488.8	1492.3	1492.3	1493.8	1493.1	1498.0	1499.4	1501.5	1505.8
5°	1478.2	1477.5	1483.9	1489.5	1495.2	1500.1	1506.5	1515.7	1517.1	1522.1
7.5°	1473.2	1469.0	1478.9	1486.0	1499.4	1511.4	1528.4	1544.0	1550.4	1552.5
10°	1511.4	1504.4	1513.6	1517.8	1529.1	1541.2	1561.0	1585.7	1592.8	1601.3
12.5°	1576.5	1568.8	1582.2	1588.6	1599.2	1609.8	1623.3	1647.3	1650.8	1666.4
15°	1665.7	1656.5	1665.0	1672.8	1690.5	1700.4	1713.8	1737.2	1737.2	1749.2
17.5°	1786.7	1774.7	1781.0	1783.9	1795.2	1810.1	1832.7	1853.2	1863.8	1859.6
20°	1967.1	1952.3	1952.3	1938.1	1933.9	1945.9	1975.6	2003.9	2015.3	1993.3
22.5°	2238.2	2216.9	2204.9	2156.8	2137.7	2139.1	2168.8	2203.5	2212.7	2173.8
25°	2582.8	2549.5	2533.2	2462.5	2419.3	2381.8	2405.2	2449.7	2462.5	2414.4
27.5°	2927.4	2929.5	2913.9	2829.0	2757.5	2688.9	2676.9	2723.6	2737.0	2682.5
30°	3410.7	3360.4	3330.7	3228.8	3126.9	3030.7	2981.2	3000.3	3003.8	2938.7
32.5°	3827.4	3814.7	3751.0	3661.9	3531.0	3380.2	3297.5	3267.0	3261.4	3168.7
35°	4302.3	4295.2	4228.0	4121.8	3980.3	3770.8	3621.5	3534.5	3527.4	3397.2
37.5°	4784.8	4784.8	4719.0	4603.0	4456.5	4194.7	3967.6	3829.6	3806.9	3637.1
40°	5169.8	5146.4	5158.5	5109.6	4941.9	4663.8	4351.8	4151.5	4121.1	3917.3
42.5°	5388.4	5380.6	5452.8	5507.3	5438.7	5216.5	4774.9	4500.4	4457.9	4225.8
45°	5437.3	5428.8	5557.6	5757.1	5853.3	5762.0	5234.9	4867.6	4816.0	4548.5
47.5°	5324.7	5307.8	5496.7	5811.6	6120.1	6280.7	5733.0	5266.0	5191.0	4862.7
50°	4986.5	4970.2	5256.1	5674.3	6210.0	6633.1	6273.6	5688.5	5573.8	5199.5
52.5°	4251.3	4259.1	4707.0	5281.6	6091.8	6852.5	6739.3	6133.5	5995.6	5544.1
55°	3311.6	3328.6	3879.1	4511.7	5619.1	6819.2	7057.0	6592.1	6454.8	5868.2
57.5°	2371.2	2446.2	2962.0	3588.3	4711.3	6292.0	7126.3	7028.0	6894.9	6222.0
60°	1536.9	1550.4	2081.1	2712.3	3587.6	5355.2	6985.5	7358.4	7254.4	6582.9
62.5°	985.0	994.2	1317.6	1897.1	2582.1	3961.9	6511.4	7502.1	7470.2	6821.3
65°	723.9	716.8	885.2	1253.9	1739.3	2443.4	5590.8	7432.7	7495.7	6970.6
67.5°	604.3	594.4	677.2	868.2	1281.5	1387.6	4136.7	6982.0	7212.6	6953.7
70°	550.5	542.0	592.3	644.6	999.8	929.1	2085.3	6069.9	6425.1	6760.5
72.5°	466.3	451.5	520.1	572.5	777.7	712.6	861.9	4662.4	5095.5	6141.3
75°	361.6	351.7	410.4	503.8	584.5	556.2	544.9	2831.1	3303.8	4749.5
77.5°	286.6	273.1	326.9	392.7	525.8	419.6	397.0	1219.2	1687.6	3032.1
80°	215.8	203.8	248.4	310.6	404.0	316.3	256.9	497.4	636.1	1536.2
82.5°	153.6	142.9	173.4	227.8	271.7	283.8	157.8	278.8	313.5	592.3
85°	98.4	92.0	116.0	142.9	172.7	182.6	96.2	145.8	159.9	244.1
87.5°	53.8	43.9	62.3	66.5	80.0	72.9	46.0	53.1	57.3	88.5
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°
1503.0	0°	1503.0	1503.0	1503.0	1503.0	1503.0	1503.0	1503.0	1503.0	1503.0	1503.0
1505.8	2.5°	1508.6	1510.7	1517.8	1519.9	1524.9	1531.3	1535.5	1539.8	1539.8	1544.0
1528.4	5°	1529.1	1534.1	1549.0	1556.7	1569.5	1582.2	1590.0	1599.2	1604.9	1607.7
1564.5	7.5°	1568.8	1576.5	1597.8	1611.2	1633.2	1650.8	1662.9	1675.6	1678.4	1686.2
1614.8	10°	1622.5	1631.7	1655.8	1681.3	1707.5	1729.4	1740.7	1749.9	1753.5	1754.9
1679.2	12.5°	1684.1	1697.6	1728.7	1759.8	1787.4	1806.5	1809.4	1807.2	1797.3	1788.8
1758.4	15°	1759.8	1771.8	1806.5	1840.5	1867.4	1870.9	1853.2	1841.9	1829.9	1827.8
1846.9	17.5°	1850.4	1856.8	1888.6	1921.9	1924.0	1912.0	1885.8	1875.2	1863.8	1856.1
1962.2	20°	1955.8	1953.7	1976.3	1990.5	1975.6	1938.8	1899.2	1881.5	1870.2	1861.0
2103.7	22.5°	2081.8	2065.5	2062.7	2059.1	2019.5	1942.4	1888.6	1866.0	1848.3	1835.5
2301.1	25°	2265.1	2202.8	2159.6	2135.6	2046.4	1923.3	1854.6	1804.4	1771.1	1749.2
2542.4	27.5°	2494.3	2389.6	2280.6	2221.9	2046.4	1884.4	1772.6	1691.2	1636.7	1614.1
2775.9	30°	2713.0	2603.3	2442.7	2325.9	2041.4	1820.7	1640.2	1527.0	1463.3	1440.7
2975.5	32.5°	2899.8	2780.2	2614.6	2439.8	2029.4	1717.4	1476.1	1350.8	1289.3	1262.4
3172.9	35°	3073.1	2945.8	2787.3	2565.1	1997.6	1565.9	1295.6	1200.1	1131.5	1088.3
3373.9	37.5°	3250.7	3099.3	2950.7	2678.3	1940.3	1389.0	1156.9	1075.6	994.9	936.9
3587.6	40°	3443.9	3262.8	3125.5	2745.5	1846.1	1220.6	1049.4	975.1	889.5	827.9
3833.8	42.5°	3669.7	3458.8	3320.1	2780.2	1717.4	1101.0	979.3	906.4	825.8	775.5
4097.8	45°	3905.3	3674.6	3497.7	2779.5	1573.7	1045.1	956.7	884.5	795.4	743.0
4368.8	47.5°	4152.2	3900.3	3651.3	2734.2	1449.2	1052.9	943.9	837.1	738.7	687.8
4642.6	50°	4399.9	4147.3	3799.9	2649.3	1396.1	1035.9	896.5	770.6	654.5	608.5
4899.5	52.5°	4645.4	4409.8	3927.9	2528.3	1342.3	973.0	835.7	684.3	619.9	588.0
5164.8	55°	4892.4	4669.5	4067.3	2352.1	1207.9	899.4	733.8	651.7	592.3	563.3
5424.5	57.5°	5140.1	4969.5	4199.7	2175.9	1038.8	808.8	677.9	612.1	564.7	539.9
5641.8	60°	5397.6	5312.7	4336.2	2013.9	871.8	692.7	636.8	580.2	532.1	504.5
5850.5	62.5°	5663.0	5690.6	4443.1	1805.1	718.2	622.0	600.1	542.0	495.3	469.1
6023.2	65°	5930.5	6055.0	4513.1	1515.7	582.4	554.8	560.4	500.3	452.9	430.2
6149.8	67.5°	6132.1	6317.5	4493.3	1147.0	477.6	491.1	510.9	456.4	411.8	394.1
6129.3	70°	6154.8	6286.4	4298.0	785.4	399.8	428.8	455.7	413.2	367.2	354.5
5840.6	72.5°	5853.3	5861.8	3753.9	513.0	338.2	376.4	397.7	369.4	324.8	312.1
5109.6	75°	5062.9	4847.8	2756.1	338.2	283.0	323.4	343.2	323.4	280.2	283.0
3823.2	77.5°	3835.9	3433.3	1673.5	240.6	236.3	271.7	298.6	284.5	247.7	278.1
1922.6	80°	1976.3	1857.5	746.5	179.7	186.8	217.2	245.5	227.1	196.0	186.8
429.5	82.5°	452.9	526.5	294.4	128.8	135.2	156.4	187.5	170.5	140.8	118.9
179.0	85°	158.5	173.4	130.2	80.7	79.3	97.6	127.4	113.9	95.5	76.4
75.7	87.5°	50.2	65.8	48.8	32.5	34.0	43.9	58.7	53.8	44.6	29.0
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>
1503.0
1544.0
1609.1
1683.4
1751.3
1788.8
1827.8
1856.8
1861.7
1839.8
1757.7
1625.4
1454.1
1275.8
1102.5
952.4
839.9
785.4
751.5
694.9
611.4
588.0
560.4
535.7
502.4
468.4
429.5
394.8
355.2
311.3
273.1
244.8
170.5
117.5
80.7
30.4
0.0

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