

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: P940827

Luminaire Tested: **GALN-SB4A-827-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940827
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
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-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15644 lumens
Efficiency: N/A
Efficacy: 137.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

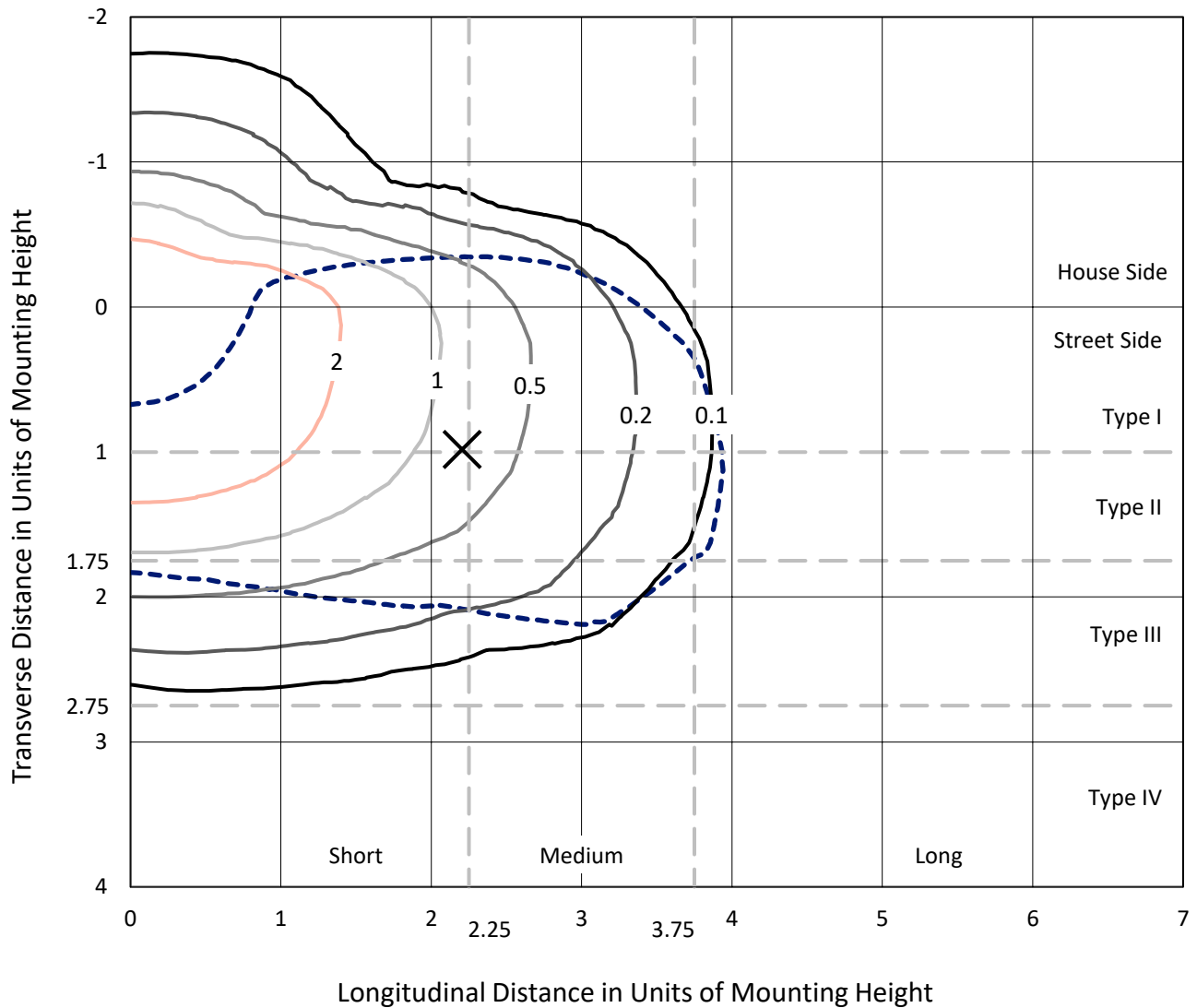
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

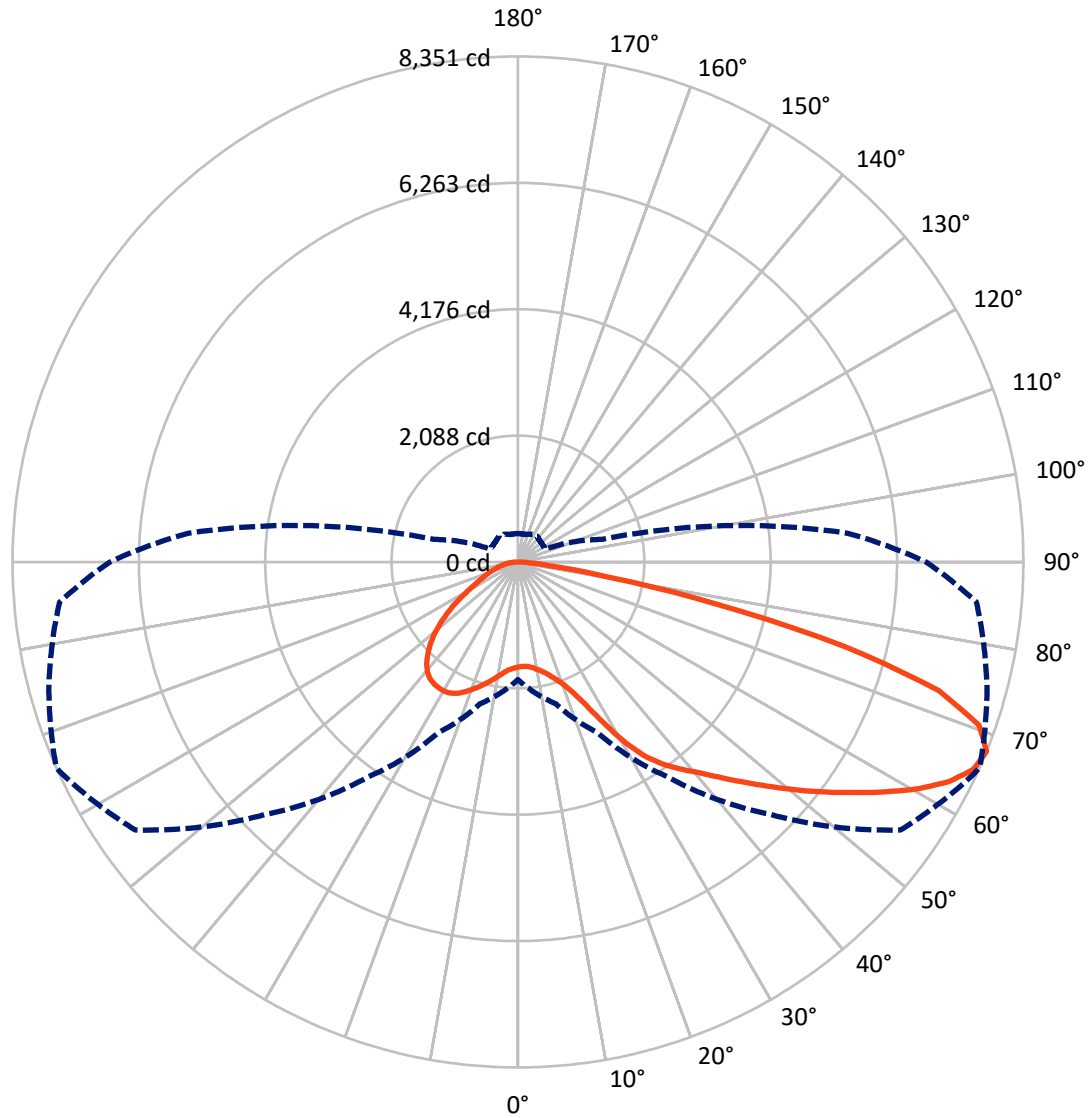
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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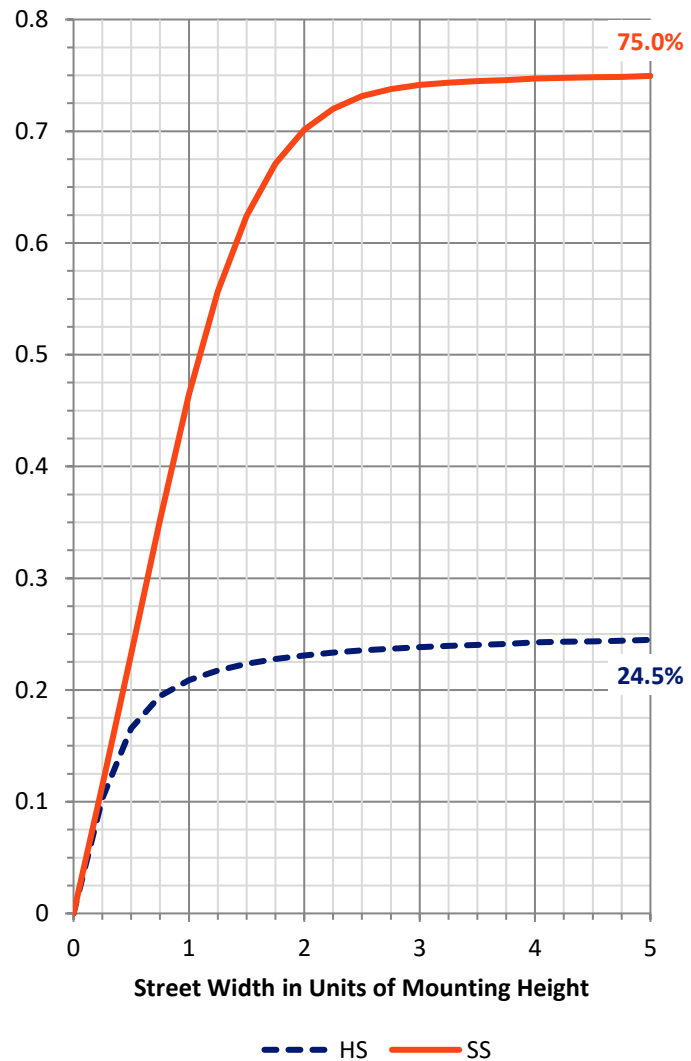
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3889.8	0.0	3889.8
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	11754.2	0.0	11754.2
	% Fixture	75.1	0.0	75.1
Total	Lumens	15644.0	0.0	15644.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.0	1.1
10°-20°	568.4	3.6
20°-30°	1095.5	7.0
30°-40°	1920.8	12.3
40°-50°	2855.6	18.3
50°-60°	3619.8	23.1
60°-70°	3541.9	22.6
70°-80°	1689.5	10.8
80°-90°	180.6	1.2
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°	15644.0	100.0
0°-180°	15644.0	100.0

Coefficient of Utilization



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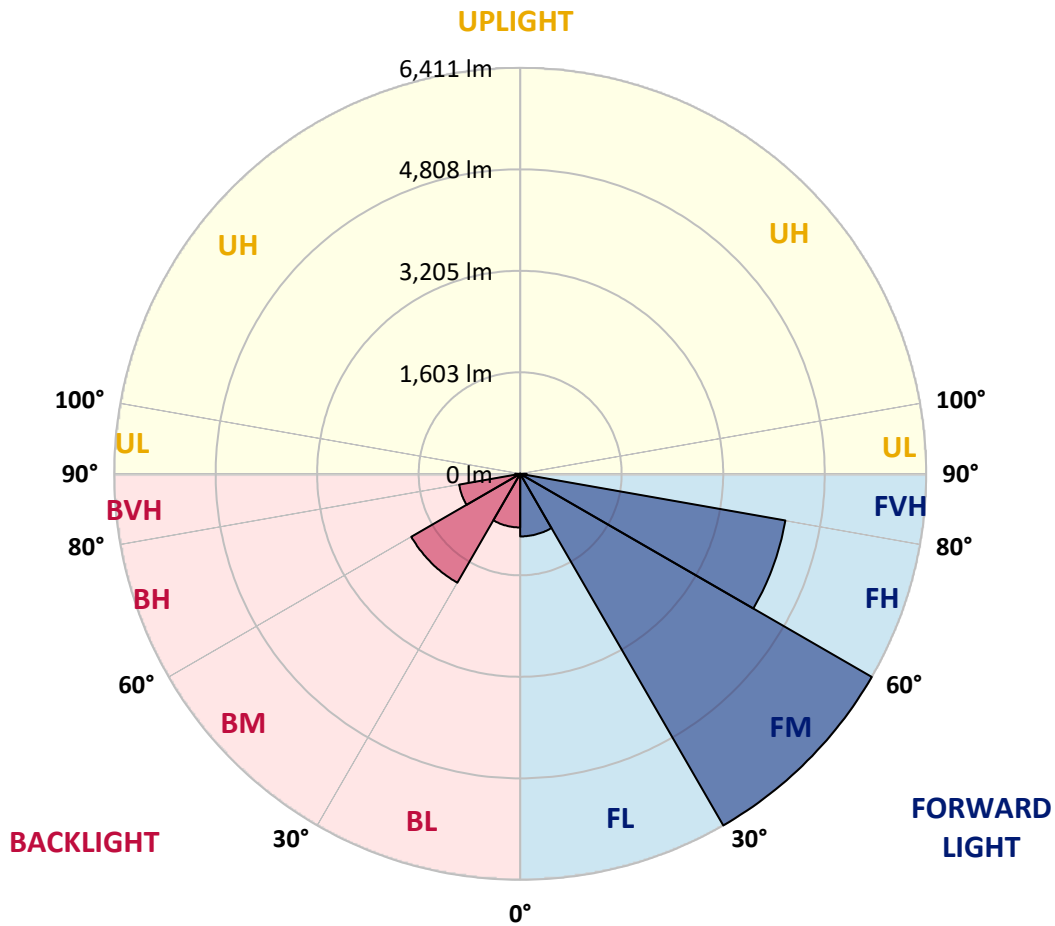
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	988.5	6.3			
FM (30°-60°)	6410.8	41.0			
FH (60°-80°)	4252.5	27.2			G2/5000
FVH (80°-90°)	102.4	0.7			G2/225
BL (0°-30°)	847.3	5.4	B2/1000		
BM (30°-60°)	1985.4	12.7	B2/2500		
BH (60°-80°)	978.9	6.3	B2/1000		G2/1000
BVH (80°-90°)	78.2	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	1735.1	1735.1	1735.1	1735.1	1735.1	1735.1	1735.1	1735.1	1735.1	1735.1
2.5°	1717.0	1726.9	1724.4	1720.3	1719.5	1721.2	1723.6	1726.1	1725.3	1729.4
5°	1712.1	1722.0	1721.2	1721.2	1724.4	1731.0	1735.1	1739.2	1735.1	1740.1
7.5°	1715.4	1722.8	1726.1	1729.4	1737.6	1749.9	1759.8	1768.8	1763.9	1769.6
10°	1757.3	1763.1	1766.4	1766.4	1772.1	1786.1	1796.0	1812.4	1808.3	1817.3
12.5°	1833.8	1839.5	1839.5	1836.2	1840.3	1849.4	1852.7	1870.7	1863.3	1878.1
15°	1927.5	1939.0	1929.9	1924.2	1925.8	1934.9	1934.0	1948.0	1940.6	1952.9
17.5°	2031.0	2045.8	2031.0	2030.2	2026.9	2036.8	2037.6	2049.9	2036.8	2045.8
20°	2153.5	2174.0	2161.7	2165.8	2158.4	2162.5	2166.6	2184.7	2164.2	2170.8
22.5°	2326.1	2350.8	2337.6	2353.2	2348.3	2345.0	2344.2	2376.2	2344.2	2346.7
25°	2577.6	2607.2	2584.2	2605.6	2605.6	2616.3	2628.6	2669.7	2616.3	2600.6
27.5°	2949.1	2978.7	2933.5	2946.7	2942.6	2968.9	2955.7	3057.6	3000.1	2974.6
30°	3396.3	3448.9	3363.4	3360.1	3356.0	3397.9	3416.8	3484.2	3425.9	3400.4
32.5°	3879.6	3934.7	3832.7	3803.1	3787.5	3813.0	3797.4	3851.6	3811.4	3771.9
35°	4390.8	4445.1	4348.1	4290.6	4228.1	4174.7	4118.8	4132.7	4094.9	4034.9
37.5°	4874.1	4973.6	4870.8	4809.2	4694.1	4589.7	4433.6	4368.6	4333.3	4278.2
40°	5366.5	5423.2	5345.1	5292.5	5167.6	5004.0	4754.1	4616.9	4569.2	4515.8
42.5°	5729.0	5783.2	5741.3	5705.1	5607.3	5417.4	5094.4	4922.6	4853.6	4793.6
45°	6016.6	6056.9	6030.6	6043.8	6001.8	5817.7	5447.0	5250.6	5179.1	5105.9
47.5°	6132.5	6175.3	6217.2	6295.3	6366.8	6231.2	5825.9	5605.7	5530.0	5455.3
50°	6119.4	6162.9	6284.6	6450.6	6672.6	6627.3	6225.4	5983.8	5913.9	5828.4
52.5°	6014.2	6063.5	6219.7	6495.8	6849.3	6924.1	6632.3	6374.2	6308.4	6206.5
55°	5738.0	5767.6	6001.8	6393.1	6891.2	7131.2	7030.9	6790.1	6724.3	6582.1
57.5°	5225.9	5268.7	5609.8	6116.1	6786.0	7271.7	7381.1	7227.4	7164.1	6959.4
60°	4557.7	4625.9	5016.3	5650.9	6518.0	7270.9	7699.2	7657.2	7604.6	7330.9
62.5°	3801.5	3880.4	4256.0	4993.3	6049.5	7064.6	7898.1	8017.3	7990.1	7673.7
65°	2919.5	2973.8	3347.8	4142.6	5320.5	6621.6	7921.1	8263.0	8267.9	7934.2
67.5°	1943.9	2100.1	2424.7	3108.6	4344.0	5897.5	7718.9	8303.3	8351.0	8023.8
70°	948.5	1154.0	1472.1	2020.3	3108.6	4787.0	7190.4	7972.9	8078.9	7762.5
72.5°	393.7	460.3	633.7	997.0	1784.4	3230.2	6128.4	7076.9	7273.4	6878.0
75°	265.5	287.7	362.5	511.2	812.9	1592.9	4419.6	5276.9	5593.3	5194.7
77.5°	204.7	218.6	263.8	357.5	483.3	602.5	2365.6	3180.1	3343.7	3095.4
80°	161.1	171.8	197.3	260.6	342.8	322.2	806.3	1440.9	1535.4	1288.0
82.5°	139.7	143.8	141.4	176.7	227.7	188.2	264.7	531.8	586.9	425.8
85°	101.1	112.6	117.5	109.3	120.8	95.3	108.5	188.2	207.1	184.9
87.5°	41.1	60.8	74.8	70.7	44.4	27.1	33.7	55.1	63.3	69.0
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°
1735.1	0°	1735.1	1735.1	1735.1	1735.1	1735.1	1735.1	1735.1	1735.1	1735.1	1735.1
1735.9	2.5°	1736.8	1742.5	1746.6	1751.6	1754.9	1759.8	1769.6	1775.4	1776.2	1780.3
1749.1	5°	1752.4	1760.6	1769.6	1782.8	1797.6	1809.9	1828.8	1842.0	1846.9	1851.0
1781.2	7.5°	1786.1	1797.6	1814.0	1837.0	1858.4	1874.9	1897.9	1913.5	1929.1	1934.9
1832.1	10°	1836.2	1852.7	1876.5	1907.7	1930.7	1952.1	1976.0	1989.1	2004.7	2011.3
1892.9	12.5°	1898.7	1916.0	1947.2	1990.8	2012.1	2026.9	2035.1	2031.8	2035.1	2040.9
1966.1	15°	1970.2	1989.1	2024.5	2071.3	2086.1	2072.9	2054.9	2038.4	2036.0	2037.6
2054.9	17.5°	2054.9	2068.8	2109.9	2149.4	2138.7	2084.5	2045.0	2018.7	2005.5	2001.4
2168.3	20°	2173.2	2173.2	2206.9	2231.6	2160.1	2068.0	2006.4	1963.6	1936.5	1925.0
2322.8	22.5°	2317.1	2303.9	2325.3	2308.0	2156.0	2022.0	1936.5	1862.5	1821.4	1805.0
2539.0	25°	2499.5	2483.9	2478.2	2371.3	2126.4	1948.8	1809.9	1720.3	1684.2	1675.1
2850.5	27.5°	2774.9	2735.4	2660.6	2405.8	2072.1	1833.8	1662.0	1579.0	1558.4	1559.2
3250.8	30°	3141.5	3062.6	2879.3	2411.6	1983.4	1671.0	1510.7	1451.6	1441.7	1445.8
3587.0	32.5°	3480.9	3406.1	3102.8	2385.3	1846.9	1511.6	1375.1	1335.7	1320.9	1325.8
3843.4	35°	3747.2	3726.7	3310.0	2348.3	1679.2	1362.0	1253.5	1219.8	1191.0	1184.4
4085.1	37.5°	3998.8	3990.5	3465.3	2296.5	1513.2	1255.9	1155.7	1111.3	1069.4	1046.3
4352.2	40°	4274.9	4266.7	3567.2	2216.8	1366.1	1163.9	1067.7	1009.3	957.6	915.6
4654.7	42.5°	4585.6	4537.1	3615.7	2102.5	1241.1	1085.8	996.2	917.3	849.1	810.4
4996.6	45°	4925.1	4815.8	3614.9	1957.1	1135.9	1014.3	919.8	808.0	744.7	708.5
5347.6	47.5°	5285.1	5082.1	3570.5	1796.0	1034.0	935.4	801.4	715.9	674.0	651.8
5729.0	50°	5656.6	5331.1	3494.9	1611.0	929.6	845.8	727.4	669.1	637.0	616.5
6107.1	52.5°	6006.0	5557.2	3403.7	1401.4	823.6	758.7	694.5	649.3	615.6	592.6
6473.6	55°	6330.6	5752.0	3274.6	1186.9	737.3	700.3	678.9	641.1	602.5	575.4
6846.0	57.5°	6619.1	5878.6	3051.9	985.5	675.6	660.0	662.5	627.1	582.8	559.7
7212.6	60°	6859.1	5971.4	2722.3	798.9	625.5	620.6	637.0	600.8	549.1	522.8
7522.4	62.5°	7003.0	5969.8	2317.9	654.3	582.8	584.4	603.3	568.0	515.4	490.7
7684.4	65°	6990.6	5823.5	1874.0	559.7	541.7	543.3	568.0	531.8	487.4	472.6
7603.0	67.5°	6743.2	5466.8	1437.6	498.1	496.5	503.9	532.6	507.1	470.2	468.5
7118.0	70°	6073.4	4726.2	1035.7	448.8	449.6	460.3	498.1	491.5	461.1	464.4
5984.6	72.5°	4870.0	3603.4	695.4	397.0	397.8	415.1	465.2	479.2	452.1	495.6
4246.2	75°	3243.4	2247.2	447.1	341.9	342.8	364.9	436.5	455.4	427.4	494.0
2209.4	77.5°	1558.4	1010.2	323.8	287.7	287.7	308.2	377.3	407.7	364.1	383.8
710.2	80°	538.4	379.7	254.8	231.8	226.9	240.8	318.1	353.4	314.0	289.3
231.8	82.5°	212.1	197.3	204.7	180.0	163.6	172.6	247.4	291.8	231.0	208.8
130.7	85°	121.6	128.2	144.7	119.2	94.5	106.0	181.6	209.6	174.3	153.7
42.7	87.5°	32.9	45.2	66.6	61.6	42.7	45.2	86.3	115.9	100.3	77.3
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>
1735.1
1779.5
1850.2
1935.7
2014.6
2042.5
2043.4
2007.2
1922.5
1802.5
1676.8
1561.7
1459.8
1332.4
1189.4
1047.2
919.8
812.9
706.9
646.9
609.1
582.8
564.7
544.9
511.2
483.3
471.8
471.0
463.6
502.2
498.1
351.8
271.2
208.0
157.0
79.7
0.0

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