

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: P940319

Luminaire Tested: **GALN-SB3B-827-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940319
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB3B-827-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14521 lumens
Efficiency: N/A
Efficacy: 133.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

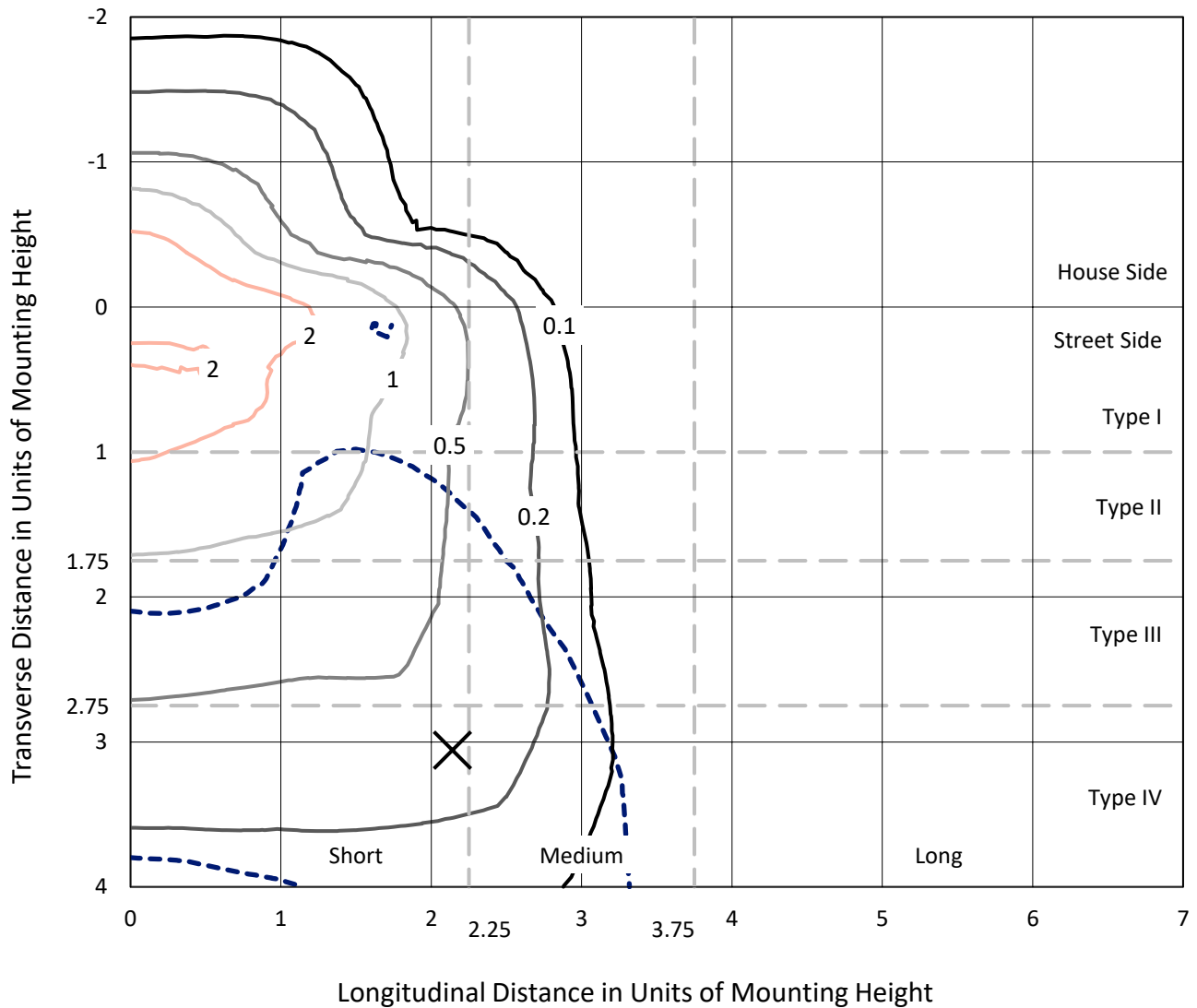
Input Watts (W): 109.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

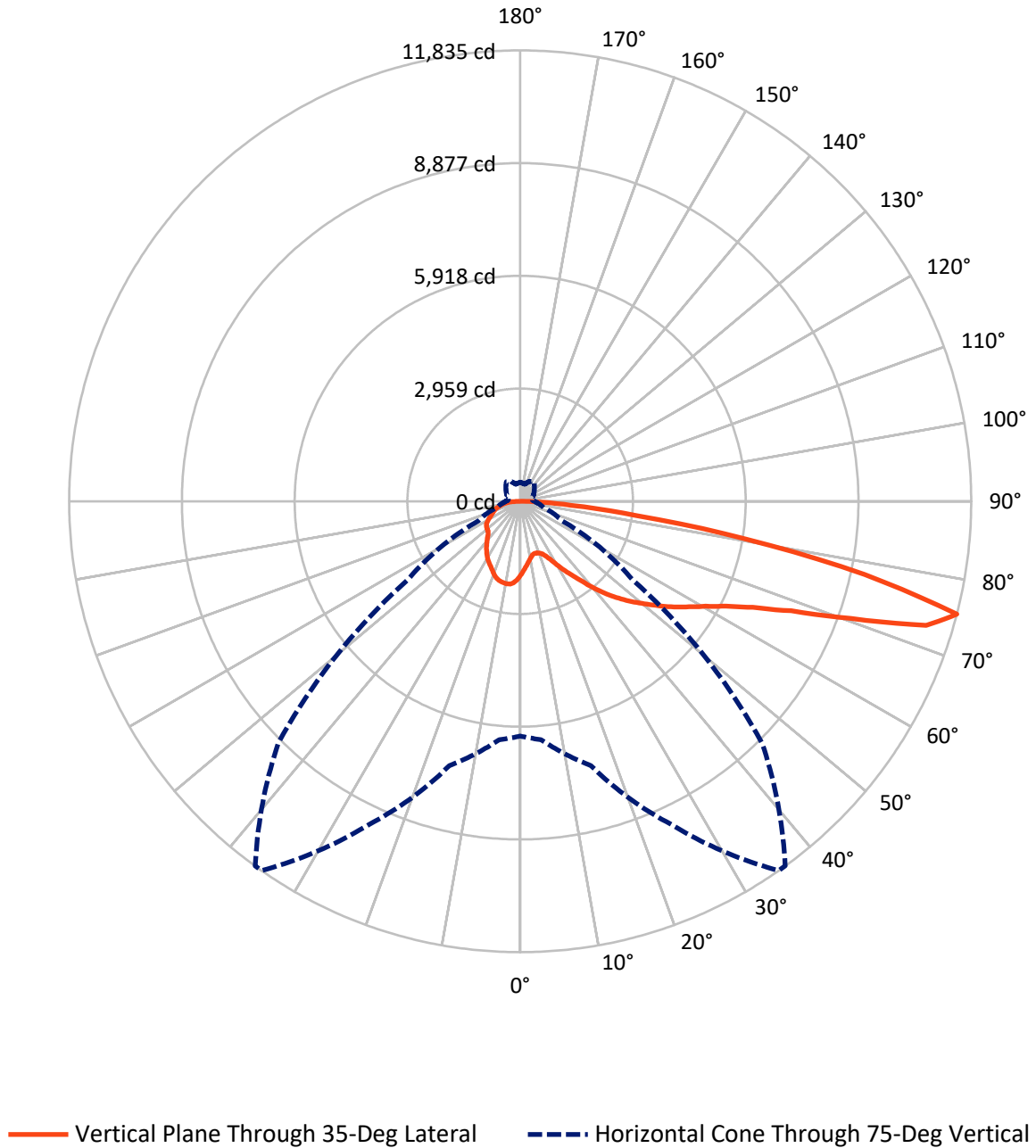
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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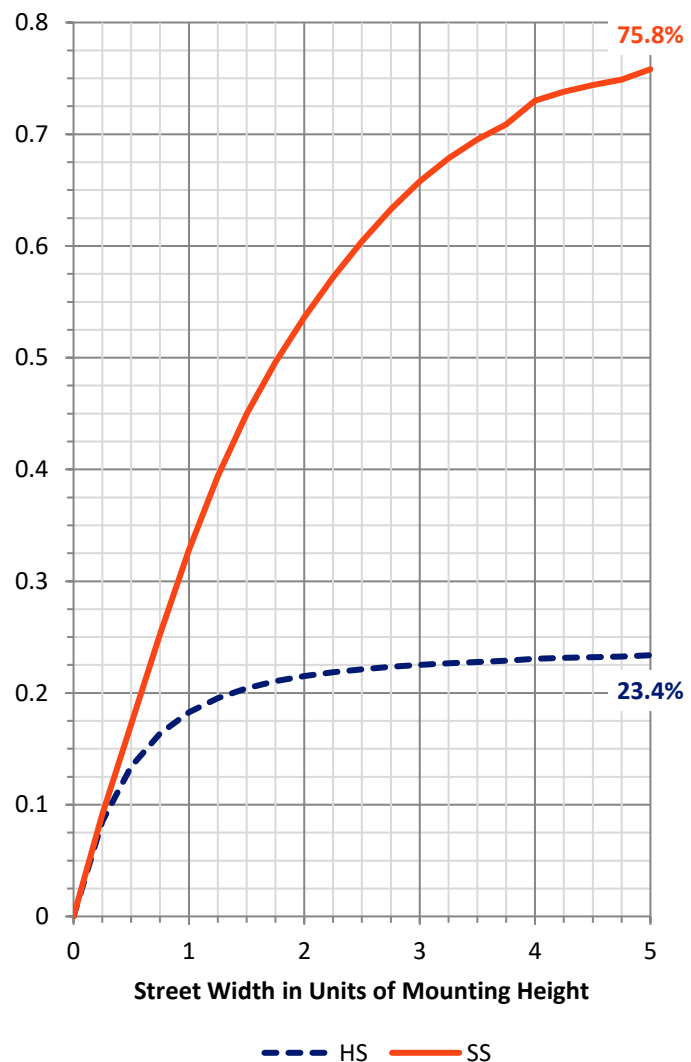
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3455.6	0.0	3455.6
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	11065.4	0.0	11065.4
	% Fixture	76.2	0.0	76.2
Total	Lumens	14521.0	0.0	14521.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.2	1.3
10°-20°	528.5	3.6
20°-30°	887.4	6.1
30°-40°	1379.2	9.5
40°-50°	2047.0	14.1
50°-60°	2826.1	19.5
60°-70°	3428.6	23.6
70°-80°	2833.5	19.5
80°-90°	407.5	2.8
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°	14521.0	100.0
0°-180°	14521.0	100.0

Coefficient of Utilization



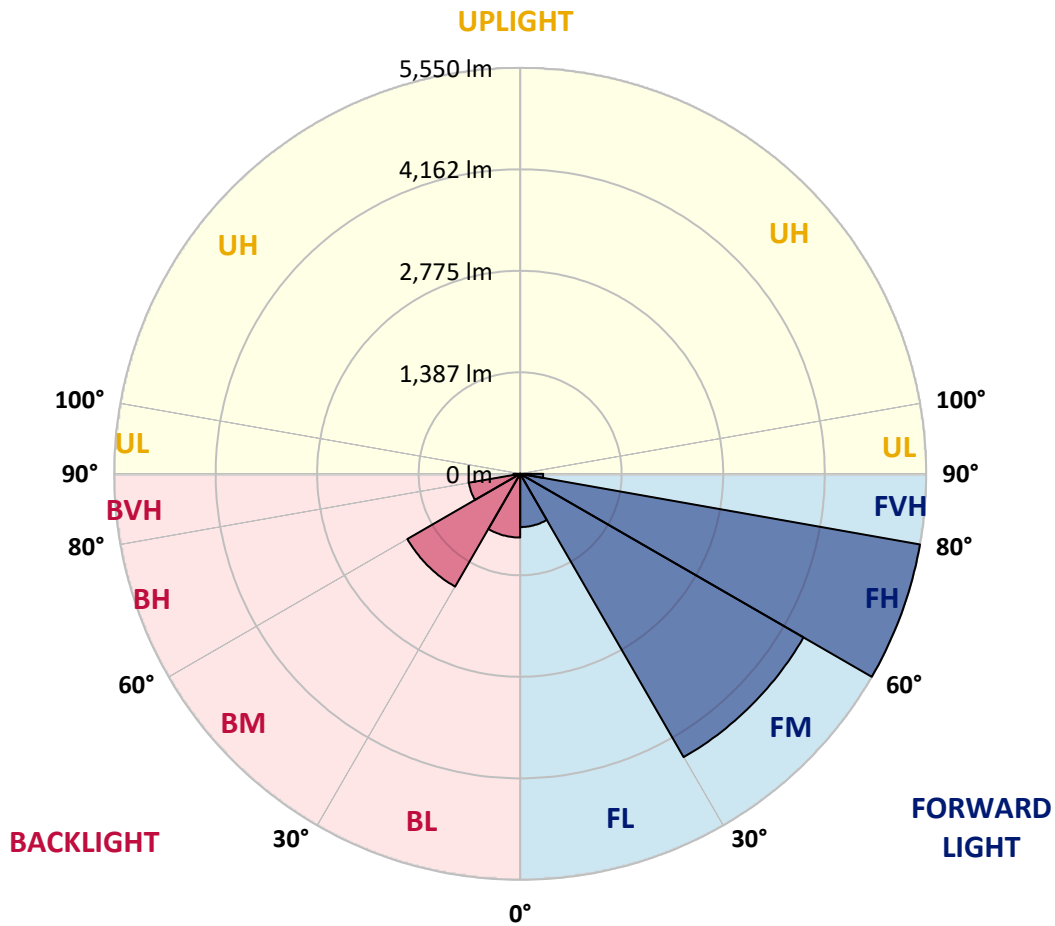
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	728.2	5.0			
FM (30°-60°)	4471.7	30.8			
FH (60°-80°)	5549.7	38.2			G3/7500
FVH (80°-90°)	315.8	2.2			G3/500
BL (0°-30°)	870.9	6.0	B2/1000		
BM (30°-60°)	1780.5	12.3	B2/2500		
BH (60°-80°)	712.4	4.9	B2/1000		G2/1000
BVH (80°-90°)	91.8	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	1935.0	1935.0	1935.0	1935.0	1935.0	1935.0	1935.0	1935.0	1935.0	1935.0
2.5°	1784.3	1795.3	1800.0	1797.6	1809.4	1807.9	1824.3	1844.7	1873.0	1900.5
5°	1646.9	1658.7	1668.9	1678.3	1701.1	1708.2	1734.1	1773.3	1825.1	1877.7
7.5°	1519.0	1529.2	1544.9	1562.1	1600.6	1607.7	1650.9	1712.1	1784.3	1861.2
10°	1414.6	1424.8	1441.3	1460.9	1508.8	1517.4	1572.4	1654.0	1748.2	1845.5
12.5°	1369.8	1373.0	1382.4	1402.0	1443.6	1449.1	1509.6	1603.0	1712.9	1833.8
15°	1367.5	1373.7	1374.5	1384.7	1419.3	1421.6	1477.4	1570.0	1690.9	1831.4
17.5°	1391.0	1395.7	1388.7	1394.9	1424.0	1427.9	1471.9	1554.3	1683.8	1841.6
20°	1453.8	1457.7	1436.5	1427.9	1449.1	1452.2	1495.4	1564.5	1690.9	1862.8
22.5°	1587.3	1589.6	1537.8	1502.5	1504.1	1505.6	1543.3	1606.1	1718.4	1901.3
25°	1795.3	1793.7	1711.3	1643.0	1603.8	1595.1	1620.2	1673.6	1764.7	1952.3
27.5°	2038.6	2026.9	1944.4	1842.4	1756.8	1744.3	1738.8	1761.5	1830.6	2019.8
30°	2313.4	2302.4	2213.7	2080.2	1961.7	1941.3	1889.5	1877.7	1928.7	2111.6
32.5°	2614.8	2607.8	2501.8	2340.1	2181.5	2158.0	2070.8	2039.4	2079.5	2250.6
35°	2867.6	2861.3	2773.4	2607.0	2413.1	2384.0	2295.3	2260.0	2280.4	2428.8
37.5°	3096.0	3092.9	3017.5	2886.4	2686.3	2650.9	2551.2	2539.5	2535.5	2663.5
40°	3308.0	3300.1	3221.6	3152.6	3004.2	2972.0	2884.1	2873.9	2844.0	2952.4
42.5°	3542.7	3522.3	3408.5	3376.3	3336.2	3309.6	3257.0	3258.5	3192.6	3278.2
45°	3734.2	3722.5	3605.5	3586.7	3629.8	3618.8	3664.4	3676.1	3548.2	3619.6
47.5°	3939.9	3928.9	3830.0	3816.7	3933.6	3936.8	4097.7	4101.6	3895.2	3974.4
50°	4193.5	4177.8	4079.6	4096.1	4227.2	4239.0	4533.4	4506.7	4214.7	4334.8
52.5°	4360.7	4370.1	4348.9	4375.6	4554.6	4565.6	4962.0	4893.7	4531.0	4690.4
55°	4483.9	4502.8	4568.7	4629.9	4900.0	4911.0	5366.3	5261.8	4793.2	5020.1
57.5°	4642.5	4615.8	4739.0	4858.4	5228.1	5257.1	5759.5	5616.7	5025.6	5304.2
60°	4870.1	4851.3	4947.1	5123.7	5595.5	5641.8	6175.6	5936.2	5195.9	5529.5
62.5°	5331.7	5284.6	5299.5	5455.7	6058.6	6119.8	6645.0	6214.8	5280.7	5617.4
65°	6021.7	5940.9	5865.5	5973.8	6711.0	6771.4	7174.9	6433.8	5249.3	5447.1
67.5°	6890.7	6810.6	6718.0	6820.1	7671.8	7719.7	7828.8	6557.1	5002.0	4790.8
70°	7607.4	7577.6	7688.3	8108.3	9206.5	9208.0	8667.2	6455.0	4324.6	3396.7
72.5°	7512.4	7494.4	8077.6	9376.0	11140.7	11099.1	9460.8	5682.6	2913.1	1532.3
75°	6163.0	6280.0	7183.5	9353.3	11835.4	11829.9	8974.9	3612.6	1205.0	635.1
77.5°	3304.8	3490.1	4663.7	6905.6	9239.4	9378.4	6309.8	1263.8	517.3	406.6
80°	1077.8	1239.5	1858.9	3516.0	6003.7	5977.8	2704.3	496.1	354.0	288.1
82.5°	457.7	476.5	830.5	1660.3	3081.1	3033.2	861.1	285.0	248.8	197.0
85°	179.0	200.2	366.6	767.7	1334.5	1305.5	310.9	141.3	159.4	128.7
87.5°	58.9	71.4	131.1	263.0	415.3	400.3	76.1	48.7	69.1	58.9
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°
1935.0	0°	1935.0	1935.0	1935.0	1935.0	1935.0	1935.0	1935.0	1935.0	1935.0	1935.0
1940.5	2.5°	1951.5	1964.1	1979.0	2001.0	2019.8	2035.5	2052.0	2062.2	2066.1	2077.9
1943.7	5°	1965.6	1993.1	2030.0	2066.1	2101.4	2122.6	2141.5	2150.9	2159.5	2165.8
1952.3	7.5°	1989.2	2024.5	2082.6	2129.7	2159.5	2176.8	2189.4	2186.2	2189.4	2190.9
1961.7	10°	2009.6	2059.1	2128.1	2172.9	2195.6	2196.4	2193.3	2182.3	2176.8	2177.6
1975.8	12.5°	2033.9	2088.9	2163.5	2201.1	2207.4	2190.1	2176.8	2158.0	2150.9	2147.8
1997.0	15°	2066.9	2129.7	2201.9	2216.1	2200.4	2178.4	2155.6	2125.0	2109.3	2096.7
2033.1	17.5°	2106.9	2176.0	2231.8	2221.5	2187.8	2151.7	2114.8	2068.5	2036.3	2022.9
2082.6	20°	2162.7	2224.7	2254.5	2209.8	2158.7	2103.8	2041.0	1984.5	1954.6	1941.3
2145.4	22.5°	2230.2	2289.8	2276.5	2189.4	2117.1	2029.2	1950.7	1909.1	1894.2	1884.8
2226.3	25°	2311.0	2362.1	2292.2	2159.5	2048.8	1930.3	1869.9	1856.5	1849.5	1842.4
2325.2	27.5°	2416.2	2443.7	2304.0	2115.6	1942.1	1825.1	1803.1	1805.5	1803.1	1791.4
2462.5	30°	2555.2	2549.7	2315.0	2044.1	1819.6	1730.1	1731.7	1741.9	1743.5	1735.6
2654.1	32.5°	2738.1	2682.3	2320.5	1951.5	1702.7	1646.9	1648.5	1659.5	1667.3	1654.0
2904.5	35°	2959.4	2837.0	2311.8	1835.3	1612.4	1567.6	1555.9	1559.0	1561.4	1548.8
3208.3	37.5°	3217.7	3010.5	2273.4	1706.6	1537.8	1489.9	1464.8	1443.6	1431.1	1419.3
3552.1	40°	3501.1	3199.7	2202.7	1581.0	1454.6	1407.5	1369.8	1329.8	1287.4	1271.7
3916.4	42.5°	3797.8	3394.3	2117.1	1460.9	1358.8	1320.4	1280.3	1222.2	1158.7	1126.5
4294.7	45°	4105.5	3593.7	2033.1	1342.3	1260.7	1244.2	1197.9	1128.0	1059.0	1018.1
4673.9	47.5°	4407.0	3782.1	1909.9	1223.0	1168.9	1186.9	1150.8	1086.4	1009.5	945.1
5049.9	50°	4695.1	3958.7	1708.2	1102.1	1094.3	1169.6	1135.1	1042.5	954.6	872.1
5418.8	52.5°	4980.8	4101.6	1449.9	992.2	1054.3	1164.9	1114.7	1012.6	905.1	818.8
5765.8	55°	5223.4	4175.4	1201.0	898.0	996.2	1124.9	1090.4	977.3	835.2	743.4
6003.7	57.5°	5361.5	4115.7	993.8	805.4	916.1	1059.0	1048.8	902.0	752.0	681.4
6050.0	60°	5301.9	3874.0	824.2	724.6	839.9	987.5	976.5	827.4	688.4	621.7
5801.9	62.5°	4973.0	3413.2	690.0	653.9	770.9	914.5	904.3	770.1	639.8	575.4
5143.3	65°	4310.4	2776.5	585.6	595.0	701.0	826.6	841.5	722.2	601.3	538.5
3979.2	67.5°	3287.6	2011.2	504.0	544.0	632.7	740.3	783.4	687.7	569.1	509.5
2302.4	70°	1873.8	1142.2	434.9	494.5	572.3	660.2	738.7	660.2	534.6	485.1
862.7	72.5°	710.4	524.4	376.0	445.1	514.2	592.7	689.2	617.0	494.5	457.7
445.9	75°	379.2	319.5	316.4	387.0	447.4	526.7	627.2	574.6	464.7	483.6
308.5	77.5°	258.3	226.1	264.5	331.3	374.4	453.7	561.3	510.2	402.7	401.1
213.5	80°	179.0	160.1	215.1	266.9	289.7	381.5	489.8	438.0	328.1	306.1
131.9	82.5°	107.5	104.4	160.9	199.4	204.9	294.4	405.8	367.4	268.5	233.9
78.5	85°	58.9	62.0	102.8	117.0	119.3	205.7	317.9	284.2	206.5	173.5
28.3	87.5°	16.5	21.2	37.7	46.3	57.3	106.8	189.2	168.8	103.6	72.2
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>
1935.0
2077.1
2167.4
2193.3
2179.2
2146.2
2100.7
2023.7
1939.7
1886.4
1842.4
1793.7
1739.6
1660.3
1557.4
1427.1
1278.8
1130.4
1015.0
938.1
865.1
809.3
735.5
672.0
612.3
565.2
528.3
500.0
478.8
451.4
499.3
369.7
292.8
235.5
175.1
72.2
0.0

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