

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: P940847

Luminaire Tested: **GALN-SB4A-835-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940847
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-835-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16686 lumens
Efficiency: N/A
Efficacy: 146.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

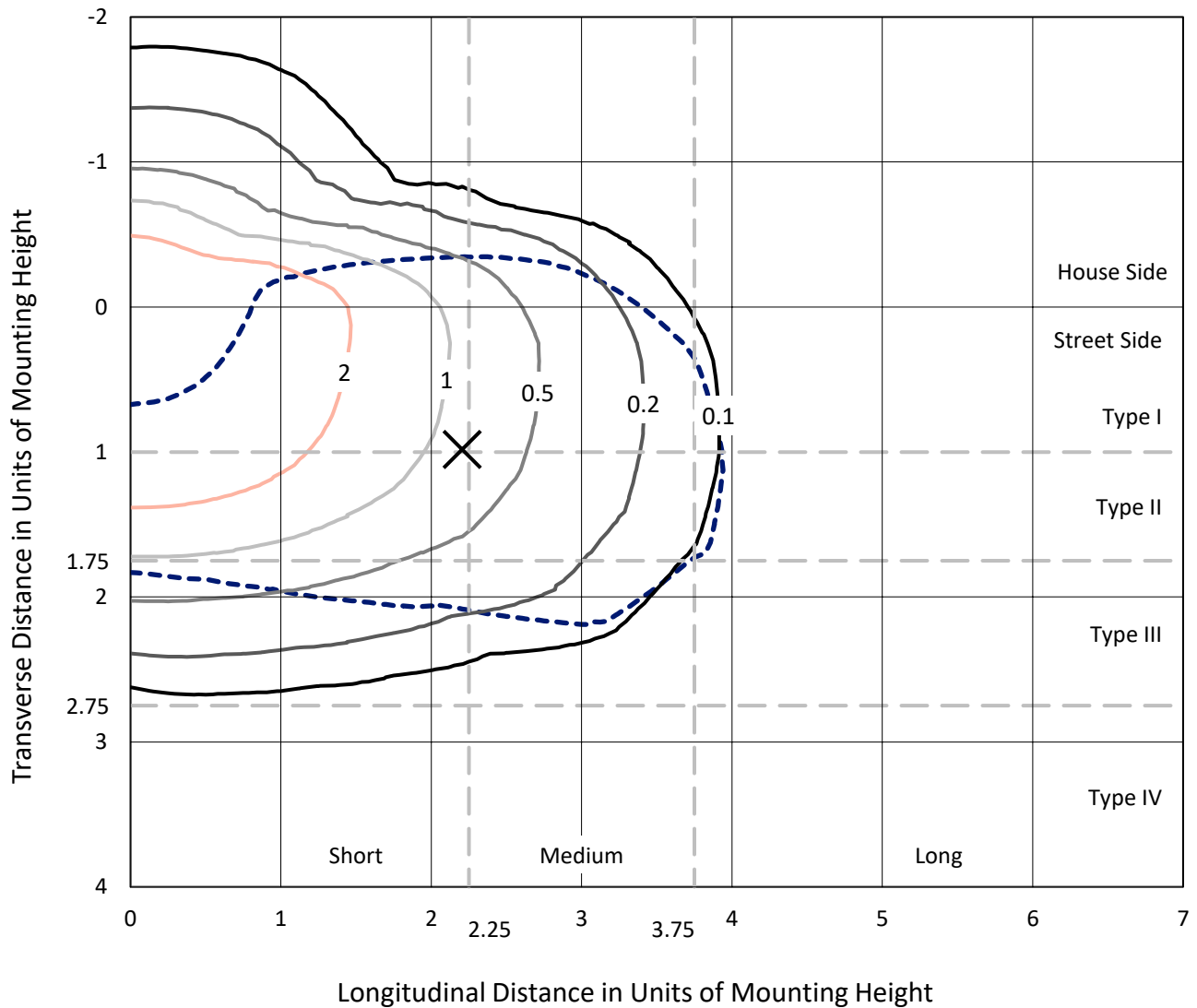
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

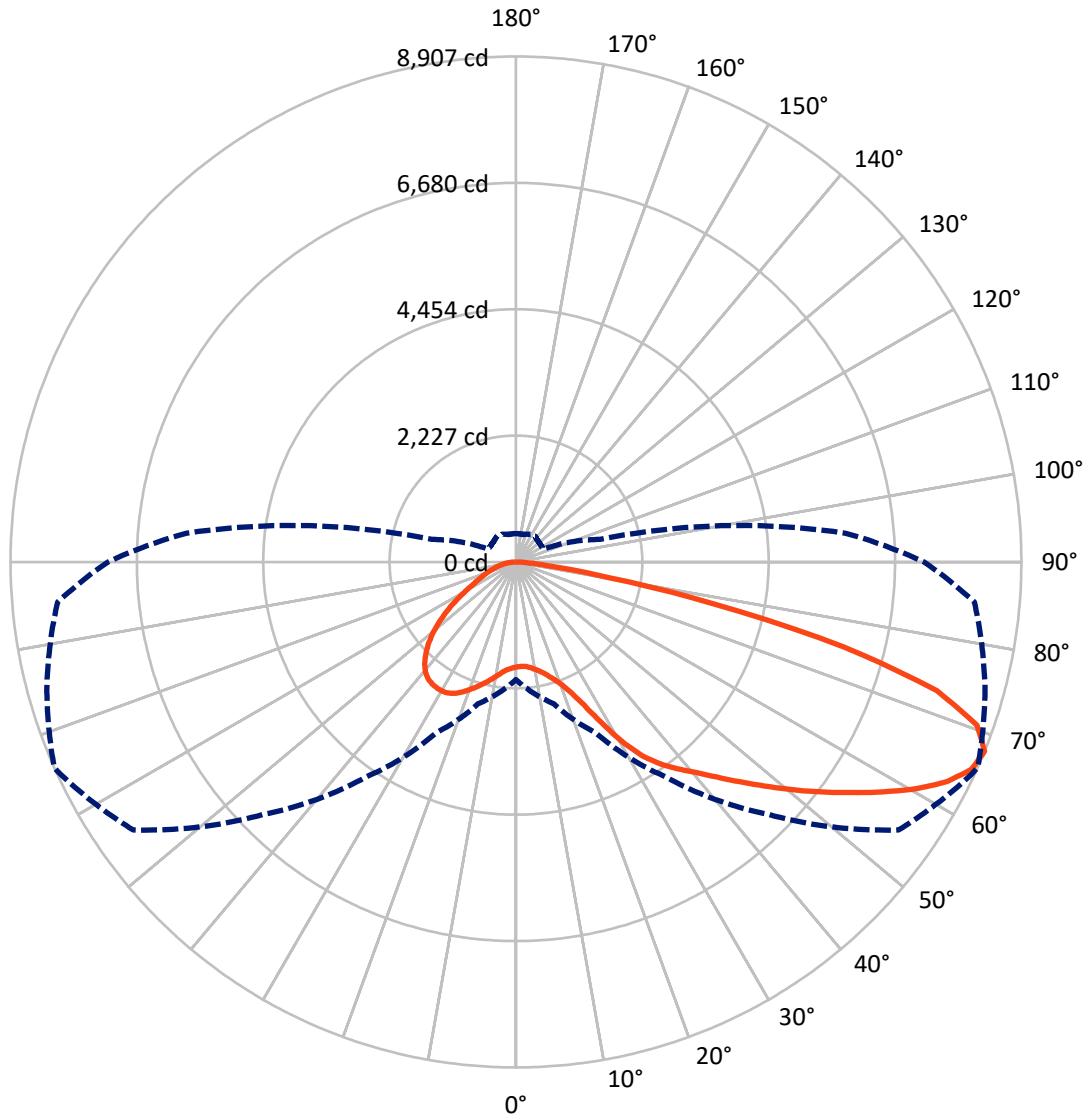
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 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	4148.9	0.0	4148.9
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	12537.1	0.0	12537.1
	% Fixture	75.1	0.0	75.1
Total	Lumens	16686.0	0.0	16686.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.5	1.1
10°-20°	606.2	3.6
20°-30°	1168.5	7.0
30°-40°	2048.7	12.3
40°-50°	3045.8	18.3
50°-60°	3860.9	23.1
60°-70°	3777.8	22.6
70°-80°	1802.0	10.8
80°-90°	192.6	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°	16686.0	100.0
0°-180°	16686.0	100.0

Coefficient of Utilization



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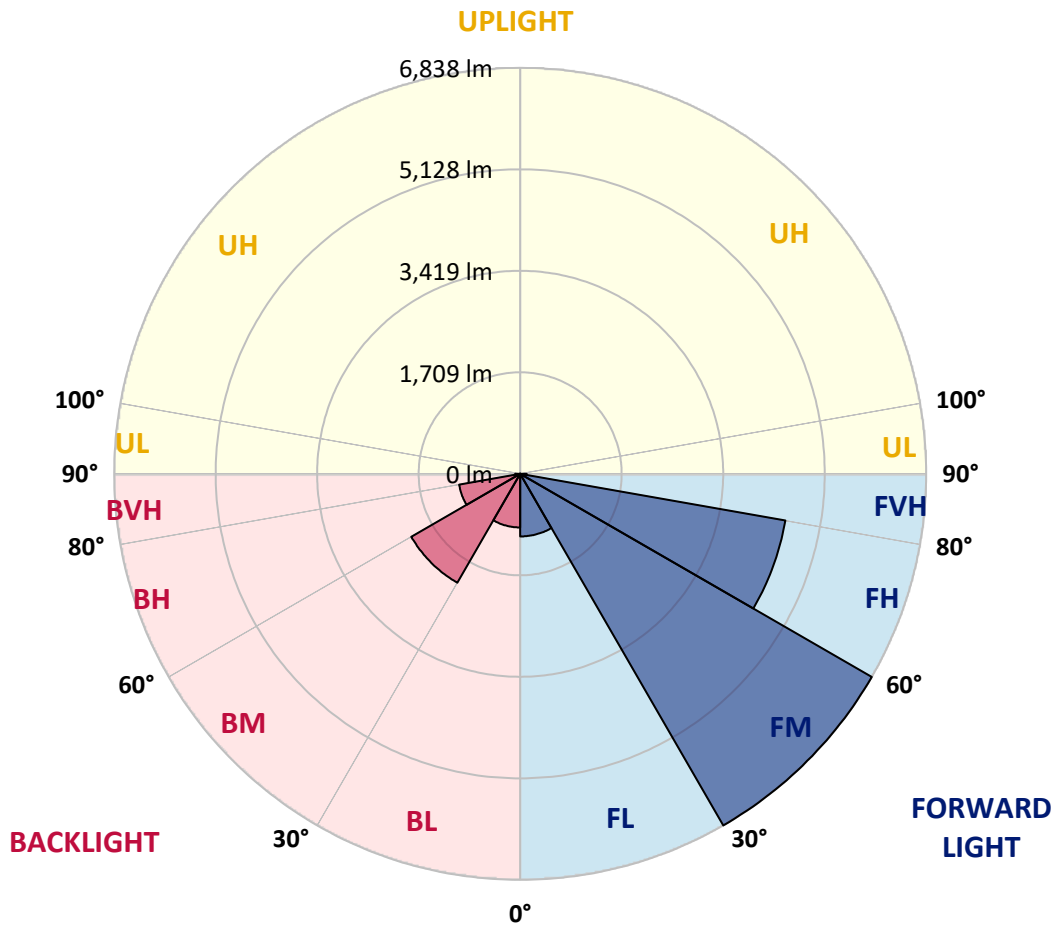
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1054.4	6.3			
FM (30°-60°)	6837.8	41.0			
FH (60°-80°)	4535.7	27.2			G2/5000
FVH (80°-90°)	109.2	0.7			G2/225
BL (0°-30°)	903.8	5.4	B2/1000		
BM (30°-60°)	2117.7	12.7	B2/2500		
BH (60°-80°)	1044.1	6.3	B3/2500		G3/2500
BVH (80°-90°)	83.4	0.5			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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	1850.7	1850.7	1850.7	1850.7	1850.7	1850.7	1850.7	1850.7	1850.7	1850.7
2.5°	1831.4	1841.9	1839.3	1834.9	1834.0	1835.8	1838.4	1841.1	1840.2	1844.6
5°	1826.2	1836.7	1835.8	1835.8	1839.3	1846.3	1850.7	1855.1	1850.7	1856.0
7.5°	1829.7	1837.5	1841.1	1844.6	1853.3	1866.5	1877.0	1886.6	1881.4	1887.5
10°	1874.4	1880.5	1884.0	1884.0	1890.1	1905.1	1915.6	1933.1	1928.7	1938.4
12.5°	1955.9	1962.0	1962.0	1958.5	1962.9	1972.6	1976.1	1995.4	1987.5	2003.2
15°	2055.8	2068.1	2058.5	2052.3	2054.1	2063.7	2062.9	2077.8	2069.9	2083.0
17.5°	2166.3	2182.1	2166.3	2165.4	2161.9	2172.4	2173.3	2186.5	2172.4	2182.1
20°	2296.9	2318.9	2305.7	2310.1	2302.2	2306.6	2311.0	2330.2	2308.3	2315.3
22.5°	2481.0	2507.3	2493.3	2510.0	2504.7	2501.2	2500.3	2534.5	2500.3	2503.0
25°	2749.3	2780.9	2756.3	2779.1	2779.1	2790.5	2803.7	2847.5	2790.5	2773.9
27.5°	3145.6	3177.1	3128.9	3142.9	3138.6	3166.6	3152.6	3261.3	3199.9	3172.8
30°	3622.5	3678.6	3587.4	3583.9	3579.5	3624.2	3644.4	3716.3	3654.1	3626.9
32.5°	4138.0	4196.7	4088.0	4056.5	4039.8	4067.0	4050.3	4108.2	4065.2	4023.1
35°	4683.3	4741.2	4637.7	4576.3	4509.7	4452.7	4393.1	4408.0	4367.7	4303.7
37.5°	5198.8	5304.9	5195.3	5129.5	5006.8	4895.5	4728.9	4659.6	4621.9	4563.2
40°	5723.9	5784.4	5701.1	5645.0	5511.8	5337.3	5070.8	4924.4	4873.5	4816.5
42.5°	6110.5	6168.4	6123.7	6085.1	5980.8	5778.3	5433.7	5250.5	5176.9	5112.9
45°	6417.4	6460.3	6432.3	6446.3	6401.6	6205.2	5809.8	5600.3	5524.0	5446.0
47.5°	6541.0	6586.6	6631.3	6714.6	6790.9	6646.2	6214.0	5979.0	5898.4	5818.6
50°	6527.0	6573.4	6703.2	6880.3	7117.0	7068.8	6640.1	6382.3	6307.8	6216.6
52.5°	6414.8	6467.4	6633.9	6928.5	7305.5	7385.3	7074.0	6798.8	6728.6	6619.9
55°	6120.2	6151.8	6401.6	6818.9	7350.2	7606.2	7499.2	7242.4	7172.2	7020.6
57.5°	5574.0	5619.6	5983.4	6523.5	7238.0	7756.1	7872.7	7708.8	7641.3	7423.0
60°	4861.3	4934.0	5350.5	6027.3	6952.2	7755.2	8212.0	8167.3	8111.2	7819.2
62.5°	4054.7	4138.9	4539.5	5325.9	6452.5	7535.2	8424.1	8551.3	8522.3	8184.8
65°	3114.0	3171.9	3570.8	4418.5	5674.8	7062.6	8448.7	8813.4	8818.7	8462.7
67.5°	2073.4	2239.9	2586.2	3315.7	4633.3	6290.3	8233.0	8856.3	8907.2	8558.3
70°	1011.7	1230.9	1570.2	2154.9	3315.7	5105.9	7669.3	8503.9	8617.0	8279.5
72.5°	419.9	490.9	675.9	1063.4	1903.3	3445.4	6536.6	7548.3	7757.9	7336.2
75°	283.2	306.8	386.6	545.3	867.0	1699.0	4714.0	5628.4	5965.9	5540.7
77.5°	218.3	233.2	281.4	381.4	515.5	642.6	2523.1	3391.9	3566.4	3301.6
80°	171.8	183.2	210.4	277.9	365.6	343.7	860.0	1536.8	1637.7	1373.8
82.5°	149.0	153.4	150.8	188.5	242.8	200.8	282.3	567.2	626.0	454.1
85°	107.8	120.1	125.4	116.6	128.9	101.7	115.7	200.8	220.9	197.3
87.5°	43.8	64.9	79.8	75.4	47.3	28.9	35.9	58.7	67.5	73.6
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°
1850.7	0°	1850.7	1850.7	1850.7	1850.7	1850.7	1850.7	1850.7	1850.7	1850.7	1850.7
1851.6	2.5°	1852.5	1858.6	1863.0	1868.2	1871.7	1877.0	1887.5	1893.7	1894.5	1898.9
1865.6	5°	1869.1	1877.9	1887.5	1901.5	1917.3	1930.5	1950.6	1964.7	1969.9	1974.3
1899.8	7.5°	1905.1	1917.3	1934.9	1959.4	1982.2	1999.7	2024.3	2040.9	2057.6	2063.7
1954.1	10°	1958.5	1976.1	2001.5	2034.8	2059.4	2082.1	2107.6	2121.6	2138.3	2145.3
2019.0	12.5°	2025.2	2043.6	2076.9	2123.3	2146.1	2161.9	2170.7	2167.2	2170.7	2176.8
2097.0	15°	2101.4	2121.6	2159.3	2209.3	2225.0	2211.0	2191.7	2174.2	2171.6	2173.3
2191.7	17.5°	2191.7	2206.6	2250.5	2292.6	2281.2	2223.3	2181.2	2153.2	2139.1	2134.7
2312.7	20°	2318.0	2318.0	2353.9	2380.2	2303.9	2205.8	2140.0	2094.4	2065.5	2053.2
2477.5	22.5°	2471.4	2457.4	2480.2	2461.8	2299.6	2156.7	2065.5	1986.6	1942.8	1925.2
2708.1	25°	2666.0	2649.4	2643.2	2529.3	2268.0	2078.6	1930.5	1834.9	1796.3	1786.7
3040.4	27.5°	2959.7	2917.6	2837.9	2566.1	2210.1	1955.9	1772.7	1684.1	1662.2	1663.1
3467.3	30°	3350.7	3266.6	3071.1	2572.2	2115.5	1782.3	1611.4	1548.2	1537.7	1542.1
3825.9	32.5°	3712.8	3633.0	3309.5	2544.2	1969.9	1612.2	1466.7	1424.6	1408.8	1414.1
4099.4	35°	3996.8	3974.9	3530.4	2504.7	1791.1	1452.7	1337.0	1301.0	1270.3	1263.3
4357.2	37.5°	4265.1	4256.3	3696.1	2449.5	1614.0	1339.6	1232.6	1185.3	1140.6	1116.0
4642.1	40°	4559.7	4550.9	3804.8	2364.4	1457.1	1241.4	1138.8	1076.6	1021.3	976.6
4964.7	42.5°	4891.1	4839.3	3856.6	2242.6	1323.8	1158.1	1062.6	978.4	905.6	864.4
5329.4	45°	5253.1	5136.5	3855.7	2087.4	1211.6	1081.8	981.0	861.8	794.3	755.7
5703.8	47.5°	5637.1	5420.6	3808.4	1915.6	1102.9	997.7	854.8	763.6	718.9	695.2
6110.5	50°	6033.4	5686.2	3727.7	1718.3	991.5	902.1	775.9	713.6	679.4	657.5
6513.8	52.5°	6406.0	5927.3	3630.4	1494.8	878.4	809.2	740.8	692.6	656.6	632.1
6904.8	55°	6752.3	6135.1	3492.7	1265.9	786.4	746.9	724.1	683.8	642.6	613.7
7302.0	57.5°	7060.0	6270.1	3255.2	1051.2	720.6	704.0	706.6	668.9	621.6	597.0
7693.0	60°	7316.0	6369.2	2903.6	852.1	667.2	661.9	679.4	640.9	585.6	557.6
8023.5	62.5°	7469.4	6367.4	2472.3	697.8	621.6	623.3	643.5	605.8	549.7	523.4
8196.2	65°	7456.3	6211.4	1998.9	597.0	577.7	579.5	605.8	567.2	519.9	504.1
8109.4	67.5°	7192.4	5830.9	1533.3	531.3	529.5	537.4	568.1	540.9	501.5	499.7
7592.2	70°	6477.9	5041.0	1104.6	478.7	479.6	490.9	531.3	524.3	491.8	495.3
6383.2	72.5°	5194.4	3843.4	741.7	423.4	424.3	442.7	496.2	511.1	482.2	528.6
4529.0	75°	3459.4	2396.9	476.9	364.7	365.6	389.3	465.5	485.7	455.9	526.9
2356.5	77.5°	1662.2	1077.5	345.4	306.8	306.8	328.8	402.4	434.8	388.4	409.4
757.5	80°	574.2	405.0	271.8	247.2	242.0	256.9	339.3	377.0	334.9	308.6
247.2	82.5°	226.2	210.4	218.3	192.0	174.5	184.1	263.9	311.2	246.4	222.7
139.4	85°	129.8	136.8	154.3	127.1	100.8	113.1	193.7	223.6	185.9	163.9
45.6	87.5°	35.1	48.2	71.0	65.8	45.6	48.2	92.1	123.6	107.0	82.4
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>
1850.7
1898.0
1973.4
2064.6
2148.8
2178.6
2179.5
2140.9
2050.6
1922.6
1788.5
1665.7
1557.0
1421.1
1268.6
1116.9
981.0
867.0
754.0
690.0
649.6
621.6
602.3
581.2
545.3
515.5
503.2
502.3
494.5
535.7
531.3
375.2
289.3
221.8
167.4
85.0
0.0

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