

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: P951255

Luminaire Tested: **GALN-SB5B-950-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951255
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB5B-950-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19749 lumens
Efficiency: N/A
Efficacy: 108.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

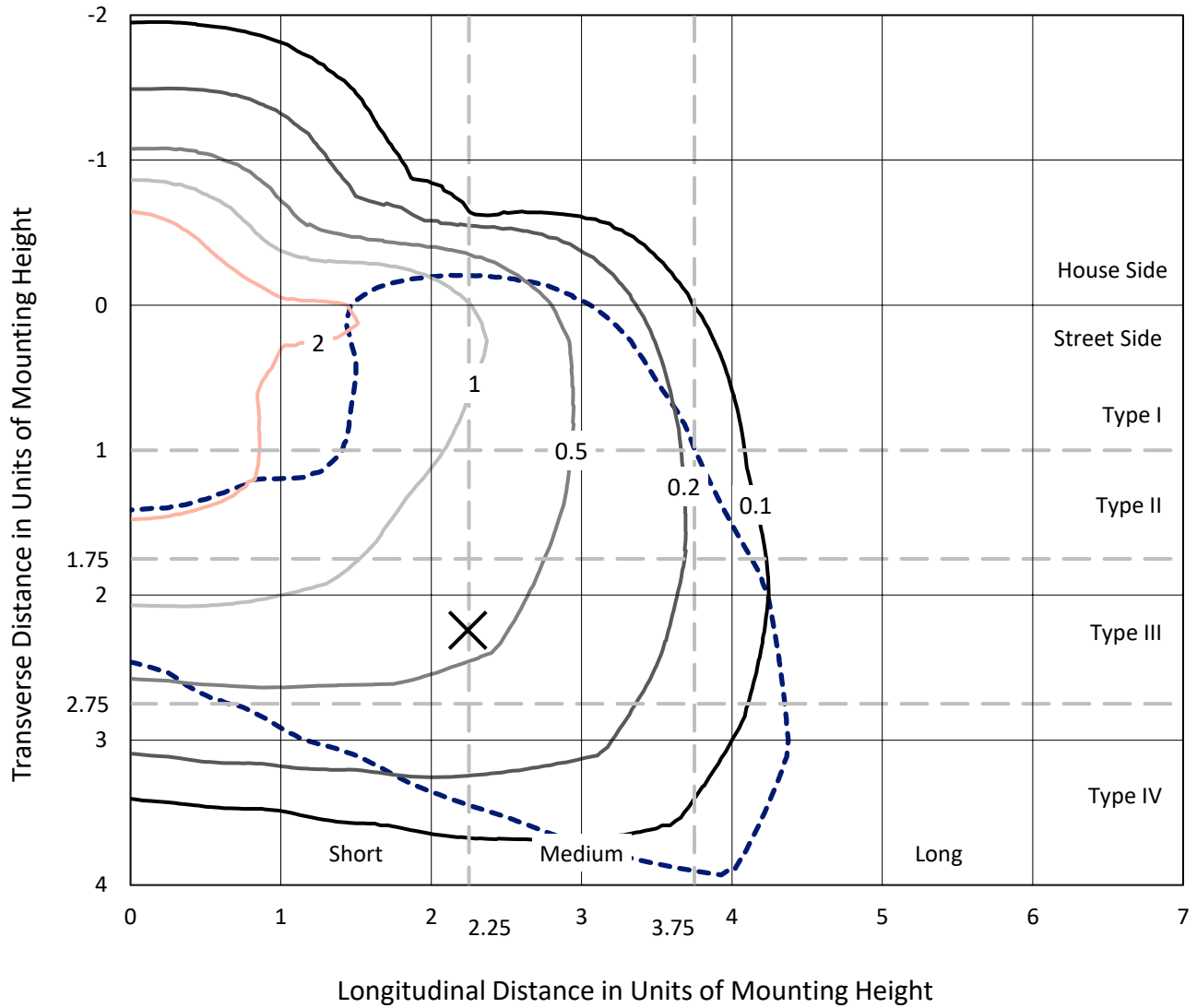
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

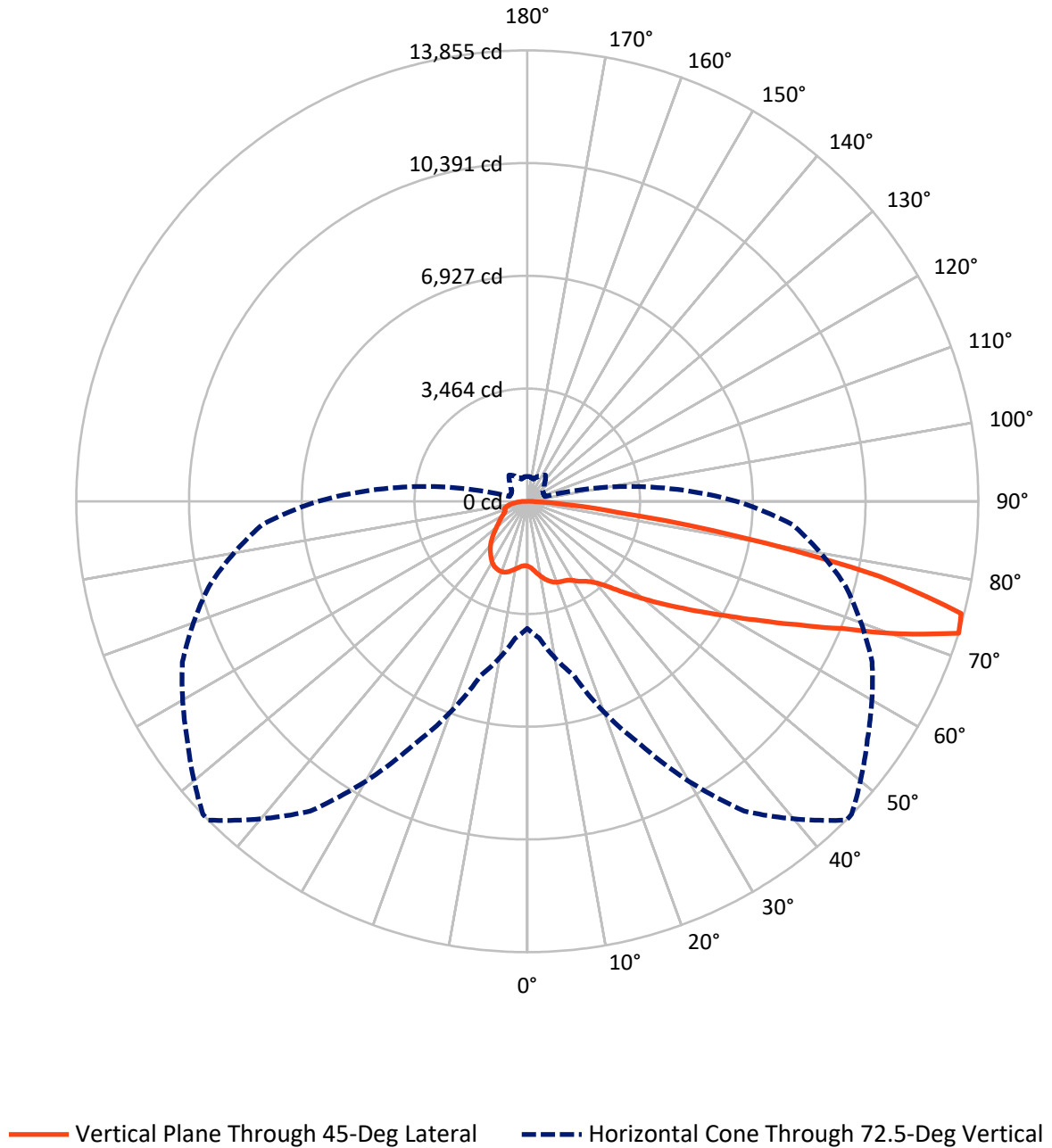
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	4464.6	0.0	4464.6
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	15284.4	0.0	15284.4
	% Fixture	77.4	0.0	77.4
Total	Lumens	19749.0	0.0	19749.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.8	1.0
10°-20°	676.1	3.4
20°-30°	1176.1	6.0
30°-40°	1686.0	8.5
40°-50°	2374.0	12.0
50°-60°	3636.2	18.4
60°-70°	5267.6	26.7
70°-80°	4206.5	21.3
80°-90°	523.9	2.7
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°	19749.0	100.0
0°-180°	19749.0	100.0



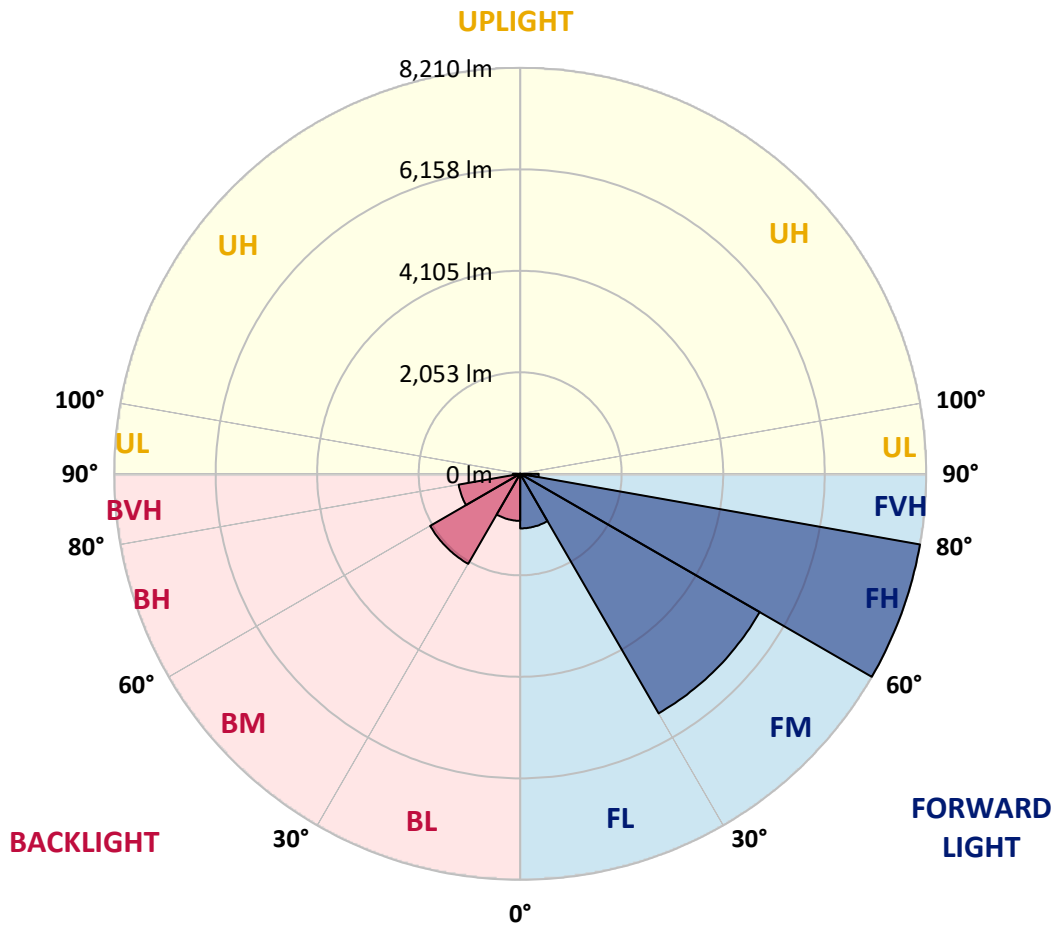
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1104.4	5.6			
FM (30°-60°)	5594.0	28.3			
FH (60°-80°)	8210.2	41.6			G4/12000
FVH (80°-90°)	375.9	1.9			G3/500
BL (0°-30°)	950.5	4.8	B2/1000		
BM (30°-60°)	2102.2	10.6	B2/2500		
BH (60°-80°)	1263.8	6.4	B3/2500		G3/2500
BVH (80°-90°)	148.0	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	1992.3	1992.3	1992.3	1992.3	1992.3	1992.3	1992.3	1992.3	1992.3	1992.3
2.5°	2070.3	2083.8	2071.4	2059.9	2054.7	2041.2	2040.1	2031.8	2026.6	2012.1
5°	2214.9	2232.6	2211.8	2188.9	2168.1	2134.8	2130.7	2106.7	2079.7	2048.5
7.5°	2378.3	2393.9	2369.9	2335.6	2299.2	2244.1	2243.0	2199.3	2156.7	2103.6
10°	2520.8	2541.6	2509.3	2462.5	2416.8	2354.3	2347.1	2297.1	2243.0	2174.4
12.5°	2646.7	2661.2	2630.0	2572.8	2519.8	2457.3	2448.0	2392.8	2332.5	2254.5
15°	2746.6	2765.3	2723.7	2662.3	2606.1	2544.7	2536.4	2486.5	2426.1	2343.9
17.5°	2812.1	2827.7	2785.0	2716.4	2662.3	2611.3	2605.1	2563.4	2510.4	2427.2
20°	2837.1	2853.7	2809.0	2739.3	2689.3	2649.8	2646.7	2616.5	2580.1	2504.1
22.5°	2862.0	2877.6	2819.4	2746.6	2702.9	2677.9	2676.8	2657.1	2642.5	2580.1
25°	2962.9	2967.1	2889.1	2784.0	2721.6	2699.7	2698.7	2697.7	2703.9	2655.0
27.5°	3050.3	3049.3	2982.7	2883.9	2787.1	2741.3	2740.3	2750.7	2770.5	2729.9
30°	3178.3	3166.9	3087.8	2984.8	2896.4	2825.6	2819.4	2810.0	2825.6	2793.4
32.5°	3449.8	3413.4	3285.5	3102.4	2986.9	2932.8	2924.5	2866.2	2872.4	2852.7
35°	3838.9	3791.1	3620.5	3325.0	3099.2	3022.2	3018.1	2944.2	2931.7	2914.0
37.5°	4301.9	4242.6	4043.9	3647.5	3292.7	3126.3	3120.0	3053.5	3002.5	2983.8
40°	4766.9	4692.0	4527.6	4040.8	3577.8	3300.0	3280.3	3179.3	3121.1	3089.9
42.5°	5218.4	5156.0	5015.6	4481.9	3929.4	3553.9	3510.2	3337.5	3293.8	3264.7
45°	5617.9	5561.8	5458.8	4953.2	4341.4	3899.3	3856.6	3574.7	3561.2	3561.2
47.5°	5942.5	5930.1	5820.8	5433.8	4827.3	4292.5	4218.7	3904.5	3940.9	3997.1
50°	6302.5	6268.2	6151.6	5907.2	5398.4	4743.0	4682.7	4309.2	4445.5	4599.4
52.5°	6633.3	6652.1	6522.0	6400.3	6043.5	5245.5	5139.4	4786.7	5081.1	5336.0
55°	6973.5	6974.6	6938.2	6921.5	6719.7	5801.0	5684.5	5361.0	5829.1	6145.4
57.5°	7292.9	7295.0	7349.1	7495.8	7504.1	6441.9	6309.8	6066.3	6660.4	6982.9
60°	7578.0	7592.5	7740.3	8083.6	8193.9	7176.4	7051.6	6899.7	7519.7	7844.3
62.5°	7673.7	7726.8	8055.5	8543.4	8875.3	8077.4	7954.6	7864.1	8422.8	8724.5
65°	7511.4	7633.1	8268.8	8923.2	9576.5	9147.9	9026.2	8927.3	9361.2	9645.2
67.5°	7112.9	7270.0	8256.3	9321.6	10427.5	10435.9	10322.5	10090.5	10367.2	10476.4
70°	6063.2	6298.3	7529.1	9470.4	11404.4	12197.2	12087.9	11490.8	11371.1	10842.6
72.5°	3906.6	4222.8	5544.1	8245.9	11621.9	13854.5	13848.2	12754.8	11688.4	10131.0
75°	1425.3	1618.8	2575.9	5175.8	9755.5	13770.2	13810.8	12538.4	10669.9	7825.6
77.5°	519.1	568.0	840.6	1989.2	5999.8	11048.6	11132.9	10023.9	7594.6	3927.4
80°	272.6	299.6	430.7	771.9	2570.7	6561.6	6693.7	5957.1	3569.5	1182.9
82.5°	150.9	163.3	241.4	419.3	1157.9	2805.9	2884.9	2353.3	1255.7	501.5
85°	81.1	86.3	113.4	228.9	566.0	972.7	994.6	703.3	500.4	294.4
87.5°	23.9	29.1	37.5	72.8	221.6	218.5	223.7	139.4	197.7	148.8
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°
1992.3	0°	1992.3	1992.3	1992.3	1992.3	1992.3	1992.3	1992.3	1992.3	1992.3	1992.3
2007.9	2.5°	2001.7	1998.5	1987.1	1981.9	1975.6	1974.6	1979.8	1980.8	1981.9	1982.9
2030.8	5°	2020.4	2010.0	1999.6	1993.3	1995.4	1996.5	2006.9	2014.1	2019.3	2023.5
2073.4	7.5°	2056.8	2048.5	2030.8	2029.7	2032.9	2042.2	2055.8	2072.4	2081.8	2089.0
2128.6	10°	2110.9	2095.3	2074.5	2077.6	2083.8	2097.4	2125.5	2139.0	2154.6	2168.1
2196.2	12.5°	2166.0	2152.5	2128.6	2130.7	2141.1	2165.0	2192.0	2208.7	2219.1	2229.5
2269.0	15°	2237.8	2213.9	2187.9	2187.9	2206.6	2232.6	2245.1	2258.6	2264.9	2276.3
2347.1	17.5°	2311.7	2280.5	2246.1	2244.1	2266.9	2279.4	2286.7	2288.8	2290.9	2303.4
2423.0	20°	2385.5	2351.2	2302.3	2298.2	2303.4	2301.3	2300.2	2298.2	2301.3	2316.9
2501.0	22.5°	2458.4	2418.8	2351.2	2332.5	2317.9	2298.2	2297.1	2296.1	2298.2	2313.8
2585.3	25°	2543.7	2495.8	2405.3	2349.1	2300.2	2273.2	2276.3	2277.3	2279.4	2291.9
2672.7	27.5°	2636.3	2583.2	2455.2	2343.9	2255.5	2236.8	2231.6	2234.7	2242.0	2261.7
2760.1	30°	2728.9	2666.4	2501.0	2323.1	2199.3	2173.3	2156.7	2163.9	2186.8	2206.6
2836.0	32.5°	2813.1	2750.7	2537.4	2277.3	2127.5	2087.0	2065.1	2074.5	2097.4	2104.6
2920.3	35°	2912.0	2841.2	2553.0	2204.5	2049.5	1987.1	1958.0	1944.4	1955.9	1948.6
3019.1	37.5°	3022.2	2948.4	2551.0	2108.8	1958.0	1886.2	1845.6	1794.6	1770.7	1745.7
3164.8	40°	3185.6	3079.5	2526.0	1993.3	1844.6	1779.0	1706.2	1619.8	1565.7	1516.8
3399.9	42.5°	3408.2	3261.5	2480.2	1866.4	1716.6	1655.2	1556.4	1455.5	1370.2	1289.0
3756.7	45°	3740.1	3499.8	2423.0	1731.2	1578.2	1517.9	1410.7	1297.3	1200.6	1096.5
4263.4	47.5°	4218.7	3820.2	2368.9	1577.2	1432.6	1377.4	1280.7	1175.6	1061.2	960.3
4995.8	50°	4876.2	4280.0	2319.0	1427.4	1289.0	1247.4	1170.4	1063.2	947.8	866.6
5854.1	52.5°	5712.6	4905.3	2298.2	1282.8	1154.8	1139.2	1077.8	977.9	868.7	800.0
6854.9	55°	6672.9	5653.3	2298.2	1144.4	1037.2	1042.4	999.8	907.2	812.5	751.1
7887.0	57.5°	7652.9	6410.7	2256.5	1016.4	937.4	959.2	932.2	851.0	765.7	702.2
8972.1	60°	8555.9	7045.3	2088.0	899.9	848.9	883.3	865.6	795.9	691.8	638.8
9879.3	62.5°	9249.8	7403.2	1763.4	807.3	776.1	815.6	806.3	723.1	678.3	656.5
10624.2	65°	9597.3	7344.9	1348.3	725.1	714.7	776.1	756.3	753.2	717.8	692.9
10866.6	67.5°	9384.0	6843.5	977.9	664.8	679.4	739.7	815.6	828.1	762.6	713.7
10184.1	70°	8448.8	5936.3	728.3	607.6	634.6	740.7	930.1	866.6	748.0	690.8
8167.9	72.5°	6427.3	4426.7	564.9	547.2	576.4	745.9	981.1	848.9	706.4	763.6
5088.4	75°	3675.6	2430.3	453.6	473.4	503.5	697.0	955.1	803.2	674.2	701.2
2016.2	77.5°	1401.4	934.2	374.5	400.5	404.7	608.6	913.4	800.0	641.9	626.3
604.4	80°	485.8	365.2	310.0	318.4	313.1	541.0	876.0	696.0	525.4	470.2
249.7	82.5°	198.7	182.1	245.5	235.1	222.6	420.3	707.4	569.1	429.7	379.7
120.7	85°	86.3	115.5	162.3	142.5	129.0	291.3	567.0	481.7	363.1	313.1
39.5	87.5°	17.7	43.7	68.7	64.5	66.6	194.5	402.6	342.3	257.0	192.5
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>
1992.3
1987.1
2025.6
2091.1
2165.0
2233.7
2280.5
2307.5
2323.1
2324.2
2308.6
2281.5
2228.5
2130.7
1971.5
1761.3
1520.0
1281.7
1084.1
948.8
861.4
794.8
744.9
691.8
630.5
649.2
684.6
705.4
681.4
757.4
701.2
571.2
454.6
375.6
312.1
150.9
0.0

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