

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: P950709

Luminaire Tested: **GALN-SB5A-827-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950709
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-SB5A-827-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19665 lumens
Efficiency: N/A
Efficacy: 138.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

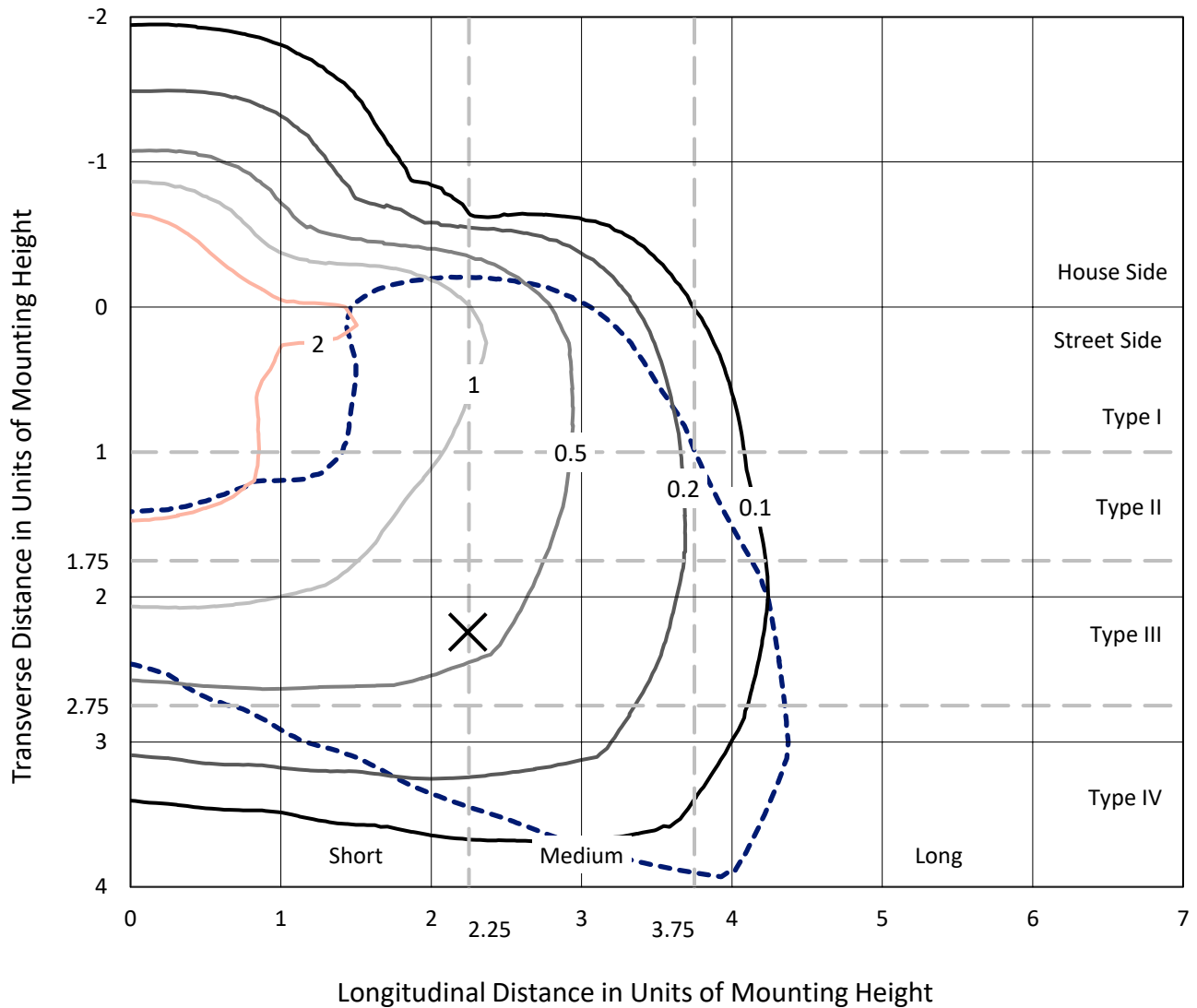
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

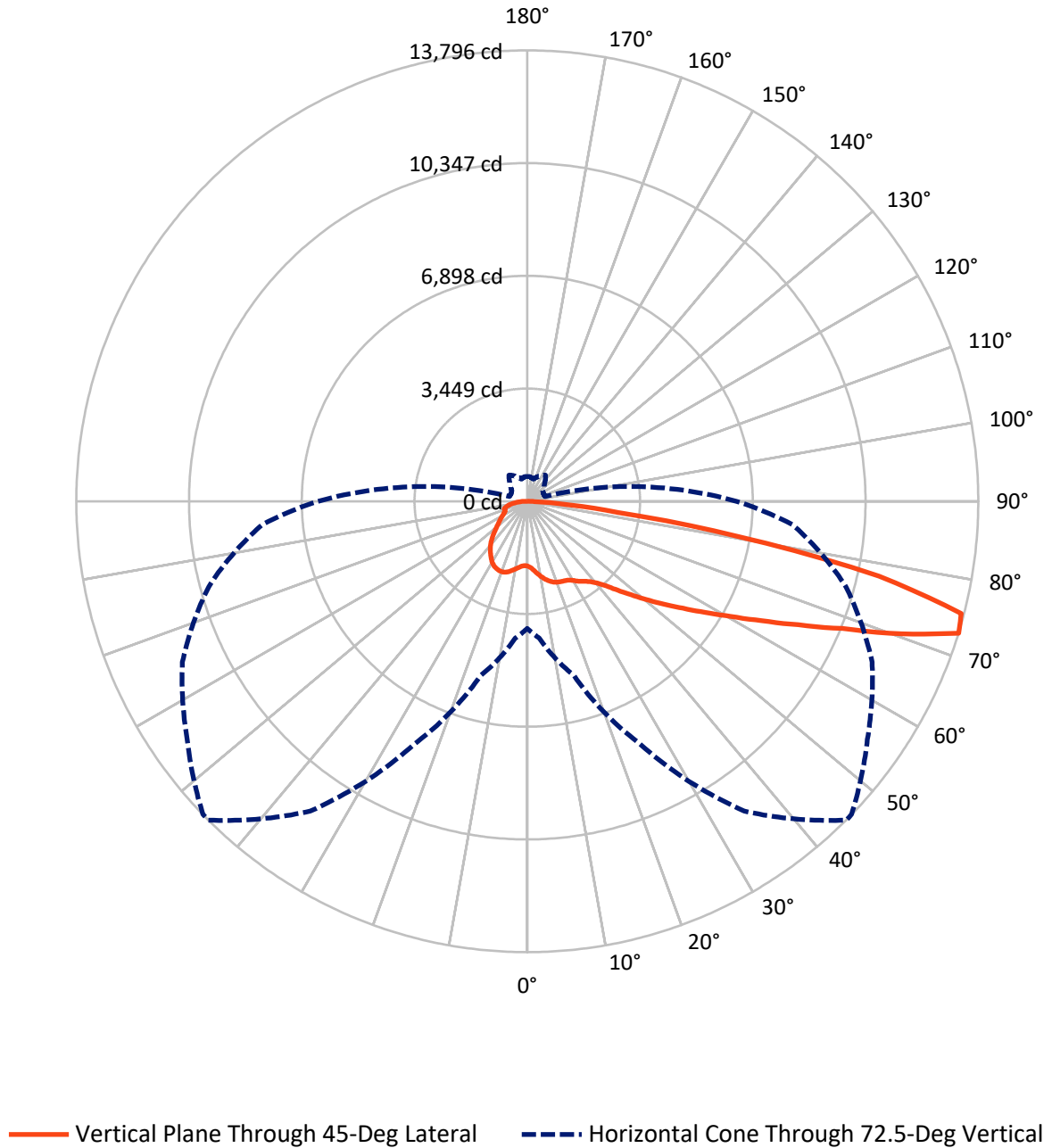
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 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	4445.6	0.0	4445.6
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	15219.4	0.0	15219.4
	% Fixture	77.4	0.0	77.4
Total	Lumens	19665.0	0.0	19665.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.9	1.0
10°-20°	673.2	3.4
20°-30°	1171.1	6.0
30°-40°	1678.8	8.5
40°-50°	2363.9	12.0
50°-60°	3620.7	18.4
60°-70°	5245.2	26.7
70°-80°	4188.6	21.3
80°-90°	521.7	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°	19665.0	100.0
0°-180°	19665.0	100.0

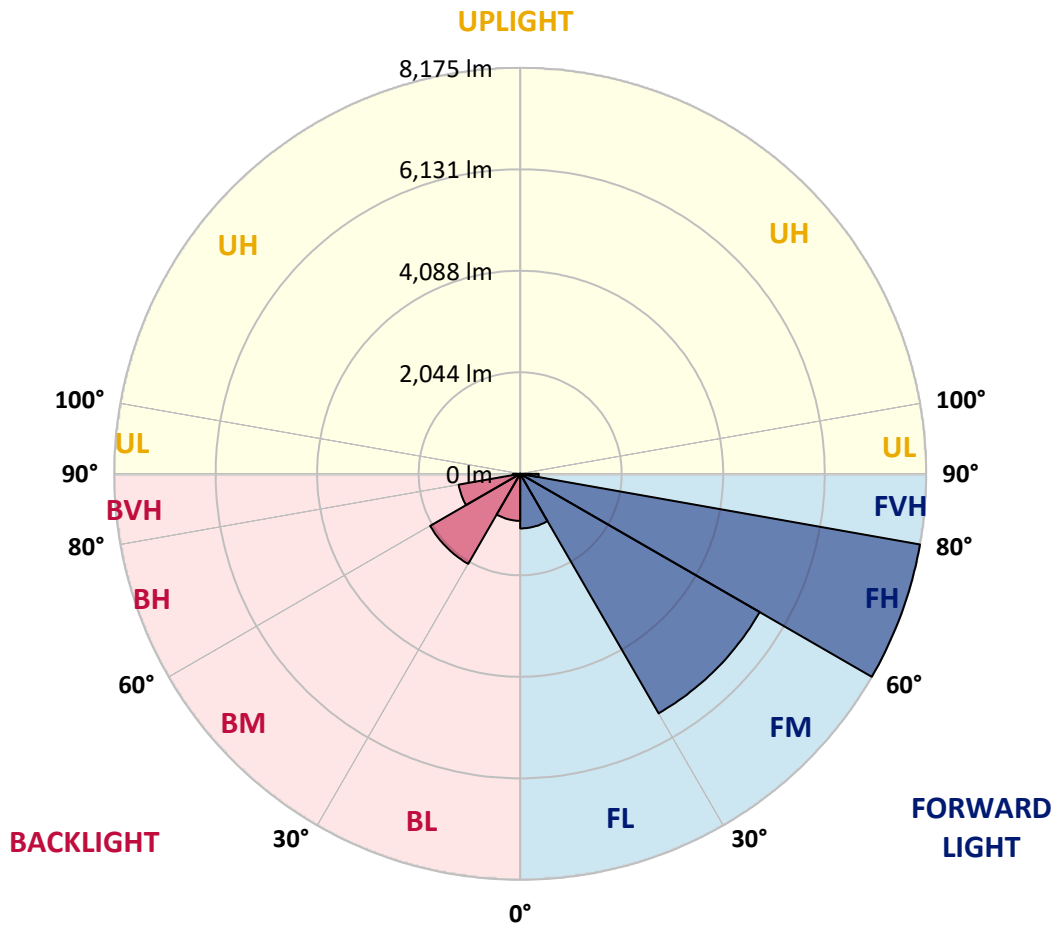


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1099.7	5.6			
FM (30°-60°)	5570.2	28.3			
FH (60°-80°)	8175.3	41.6			G4/12000
FVH (80°-90°)	374.3	1.9			G3/500
BL (0°-30°)	946.5	4.8	B2/1000		
BM (30°-60°)	2093.2	10.6	B2/2500		
BH (60°-80°)	1258.4	6.4	B3/2500		G3/2500
BVH (80°-90°)	147.4	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°	1983.8	1983.8	1983.8	1983.8	1983.8	1983.8	1983.8	1983.8	1983.8	1983.8
2.5°	2061.5	2075.0	2062.5	2051.2	2046.0	2032.5	2031.5	2023.2	2018.0	2003.5
5°	2205.5	2223.1	2202.4	2179.6	2158.9	2125.7	2121.6	2097.8	2070.8	2039.8
7.5°	2368.1	2383.7	2359.9	2325.7	2289.4	2234.5	2233.5	2190.0	2147.5	2094.7
10°	2510.1	2530.8	2498.7	2452.1	2406.5	2344.3	2337.1	2287.3	2233.5	2165.1
12.5°	2635.4	2649.9	2618.8	2561.9	2509.0	2446.9	2437.6	2382.7	2322.6	2244.9
15°	2734.9	2753.5	2712.1	2651.0	2595.0	2533.9	2525.6	2475.9	2415.8	2334.0
17.5°	2800.1	2815.7	2773.2	2704.8	2651.0	2600.2	2594.0	2552.5	2499.7	2416.8
20°	2825.0	2841.6	2797.0	2727.6	2677.9	2638.5	2635.4	2605.4	2569.1	2493.5
22.5°	2849.9	2865.4	2807.4	2734.9	2691.4	2666.5	2665.5	2645.8	2631.3	2569.1
25°	2950.3	2954.5	2876.8	2772.2	2710.0	2688.3	2687.2	2686.2	2692.4	2643.7
27.5°	3037.4	3036.3	2970.0	2871.6	2775.3	2729.7	2728.7	2739.0	2758.7	2718.3
30°	3164.8	3153.4	3074.7	2972.1	2884.0	2813.6	2807.4	2798.1	2813.6	2781.5
32.5°	3435.2	3398.9	3271.5	3089.2	2974.2	2920.3	2912.0	2854.0	2860.2	2840.5
35°	3822.6	3774.9	3605.1	3310.8	3086.1	3009.4	3005.2	2931.7	2919.3	2901.7
37.5°	4283.6	4224.5	4026.7	3632.0	3278.7	3113.0	3106.8	3040.5	2989.7	2971.1
40°	4746.7	4672.1	4508.4	4023.6	3562.6	3286.0	3266.3	3165.8	3107.8	3076.7
42.5°	5196.3	5134.1	4994.2	4462.8	3912.7	3538.8	3495.2	3323.3	3279.8	3250.8
45°	5594.0	5538.1	5435.6	4932.1	4323.0	3882.7	3840.2	3559.5	3546.0	3546.0
47.5°	5917.3	5904.8	5796.1	5410.7	4806.7	4274.3	4200.7	3887.9	3924.1	3980.1
50°	6275.7	6241.5	6125.5	5882.0	5375.5	4722.8	4662.7	4290.8	4426.6	4579.9
52.5°	6605.1	6623.8	6494.3	6373.1	6017.7	5223.2	5117.5	4766.3	5059.5	5313.3
55°	6943.9	6944.9	6908.7	6892.1	6691.1	5776.4	5660.3	5338.2	5804.3	6119.3
57.5°	7261.9	7264.0	7317.8	7463.9	7472.2	6414.5	6282.9	6040.5	6632.1	6953.2
60°	7545.8	7560.3	7707.4	8049.2	8159.0	7145.9	7021.6	6870.3	7487.7	7811.0
62.5°	7641.1	7693.9	8021.2	8507.1	8837.6	8043.0	7920.8	7830.6	8386.9	8687.4
65°	7479.5	7600.7	8233.6	8885.2	9535.8	9109.0	8987.8	8889.4	9321.3	9604.2
67.5°	7082.7	7239.1	8221.2	9282.0	10383.2	10391.5	10278.5	10047.5	10323.1	10431.9
70°	6037.4	6271.6	7497.1	9430.1	11355.9	12145.3	12036.5	11441.9	11322.8	10796.5
72.5°	3889.9	4204.9	5520.5	8210.8	11572.4	13795.5	13789.3	12700.6	11638.7	10087.9
75°	1419.2	1611.9	2565.0	5153.8	9714.0	13711.6	13752.0	12485.1	10624.6	7792.3
77.5°	516.9	565.6	837.0	1980.7	5974.2	11001.6	11085.5	9981.2	7562.3	3910.7
80°	271.4	298.3	428.9	768.7	2559.8	6533.6	6665.2	5931.8	3554.3	1177.9
82.5°	150.2	162.6	240.3	417.5	1153.0	2793.9	2872.6	2343.3	1250.4	499.3
85°	80.8	86.0	112.9	227.9	563.5	968.6	990.4	700.3	498.3	293.2
87.5°	23.8	29.0	37.3	72.5	220.7	217.5	222.7	138.8	196.8	148.1
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°
1983.8	0°	1983.8	1983.8	1983.8	1983.8	1983.8	1983.8	1983.8	1983.8	1983.8	1983.8
1999.4	2.5°	1993.1	1990.0	1978.6	1973.5	1967.2	1966.2	1971.4	1972.4	1973.5	1974.5
2022.1	5°	2011.8	2001.4	1991.1	1984.9	1986.9	1988.0	1998.3	2005.6	2010.8	2014.9
2064.6	7.5°	2048.0	2039.8	2022.1	2021.1	2024.2	2033.5	2047.0	2063.6	2072.9	2080.2
2119.5	10°	2101.9	2086.4	2065.7	2068.8	2075.0	2088.4	2116.4	2129.9	2145.4	2158.9
2186.9	12.5°	2156.8	2143.3	2119.5	2121.6	2132.0	2155.8	2182.7	2199.3	2209.6	2220.0
2259.4	15°	2228.3	2204.5	2178.6	2178.6	2197.2	2223.1	2235.5	2249.0	2255.2	2266.6
2337.1	17.5°	2301.8	2270.8	2236.6	2234.5	2257.3	2269.7	2277.0	2279.1	2281.1	2293.6
2412.7	20°	2375.4	2341.2	2292.5	2288.4	2293.6	2291.5	2290.5	2288.4	2291.5	2307.0
2490.4	22.5°	2447.9	2408.5	2341.2	2322.6	2308.1	2288.4	2287.3	2286.3	2288.4	2303.9
2574.3	25°	2532.9	2485.2	2395.1	2339.1	2290.5	2263.5	2266.6	2267.7	2269.7	2282.2
2661.3	27.5°	2625.1	2572.2	2444.8	2334.0	2245.9	2227.3	2222.1	2225.2	2232.4	2252.1
2748.3	30°	2717.3	2655.1	2490.4	2313.2	2190.0	2164.1	2147.5	2154.7	2177.5	2197.2
2824.0	32.5°	2801.2	2739.0	2526.6	2267.7	2118.5	2078.1	2056.3	2065.7	2088.4	2095.7
2907.9	35°	2899.6	2829.1	2542.2	2195.1	2040.8	1978.6	1949.6	1936.2	1947.6	1940.3
3006.3	37.5°	3009.4	2935.8	2540.1	2099.8	1949.6	1878.2	1837.7	1787.0	1763.2	1738.3
3151.3	40°	3172.0	3066.4	2515.3	1984.9	1836.7	1771.4	1698.9	1613.0	1559.1	1510.4
3385.4	42.5°	3393.7	3247.7	2469.7	1858.5	1709.3	1648.2	1549.8	1449.3	1364.3	1283.5
3740.8	45°	3724.2	3484.9	2412.7	1723.8	1571.5	1511.4	1404.7	1291.8	1195.5	1091.9
4245.3	47.5°	4200.7	3804.0	2358.8	1570.5	1426.5	1371.6	1275.2	1170.6	1056.7	956.2
4974.6	50°	4855.4	4261.8	2309.1	1421.3	1283.5	1242.1	1165.4	1058.7	943.7	862.9
5829.2	52.5°	5688.3	4884.4	2288.4	1277.3	1149.9	1134.3	1073.2	973.8	865.0	796.6
6825.8	55°	6644.5	5629.3	2288.4	1139.5	1032.8	1038.0	995.5	903.3	809.1	747.9
7853.4	57.5°	7620.3	6383.4	2246.9	1012.1	933.4	955.1	928.2	847.4	762.4	699.3
8933.9	60°	8519.5	7015.4	2079.1	896.1	845.3	879.5	861.9	792.5	688.9	636.1
9837.2	62.5°	9210.5	7371.7	1755.9	803.9	772.8	812.2	802.8	720.0	675.4	653.7
10579.0	65°	9556.5	7313.7	1342.6	722.0	711.7	772.8	753.1	750.0	714.8	689.9
10820.3	67.5°	9344.1	6814.4	973.8	662.0	676.5	736.5	812.2	824.6	759.3	710.7
10140.8	70°	8412.8	5911.0	725.2	605.0	631.9	737.6	926.1	862.9	744.8	687.9
8133.1	72.5°	6400.0	4407.9	562.5	544.9	573.9	742.8	976.9	845.3	703.4	760.4
5066.8	75°	3660.0	2419.9	451.7	471.4	501.4	694.1	951.0	799.7	671.3	698.2
2007.6	77.5°	1395.4	930.3	372.9	398.8	403.0	606.0	909.6	796.6	639.2	623.6
601.9	80°	483.8	363.6	308.7	317.0	311.8	538.7	872.3	693.0	523.1	468.2
248.6	82.5°	197.9	181.3	244.5	234.1	221.7	418.5	704.4	566.7	427.8	378.1
120.2	85°	86.0	115.0	161.6	141.9	128.5	290.1	564.6	479.6	361.5	311.8
39.4	87.5°	17.6	43.5	68.4	64.2	66.3	193.7	400.9	340.8	255.9	191.6
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>
1983.8
1978.6
2017.0
2082.2
2155.8
2224.2
2270.8
2297.7
2313.2
2314.3
2298.7
2271.8
2219.0
2121.6
1963.1
1753.8
1513.5
1276.3
1079.4
944.8
857.8
791.5
741.7
688.9
627.8
646.4
681.6
702.4
678.5
754.2
698.2
568.7
452.7
374.0
310.8
150.2
0.0

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