

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: P947559

Luminaire Tested: **GALN-SB2D-840-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947559
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-SB2D-840-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19427 lumens
Efficiency: N/A
Efficacy: 131.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

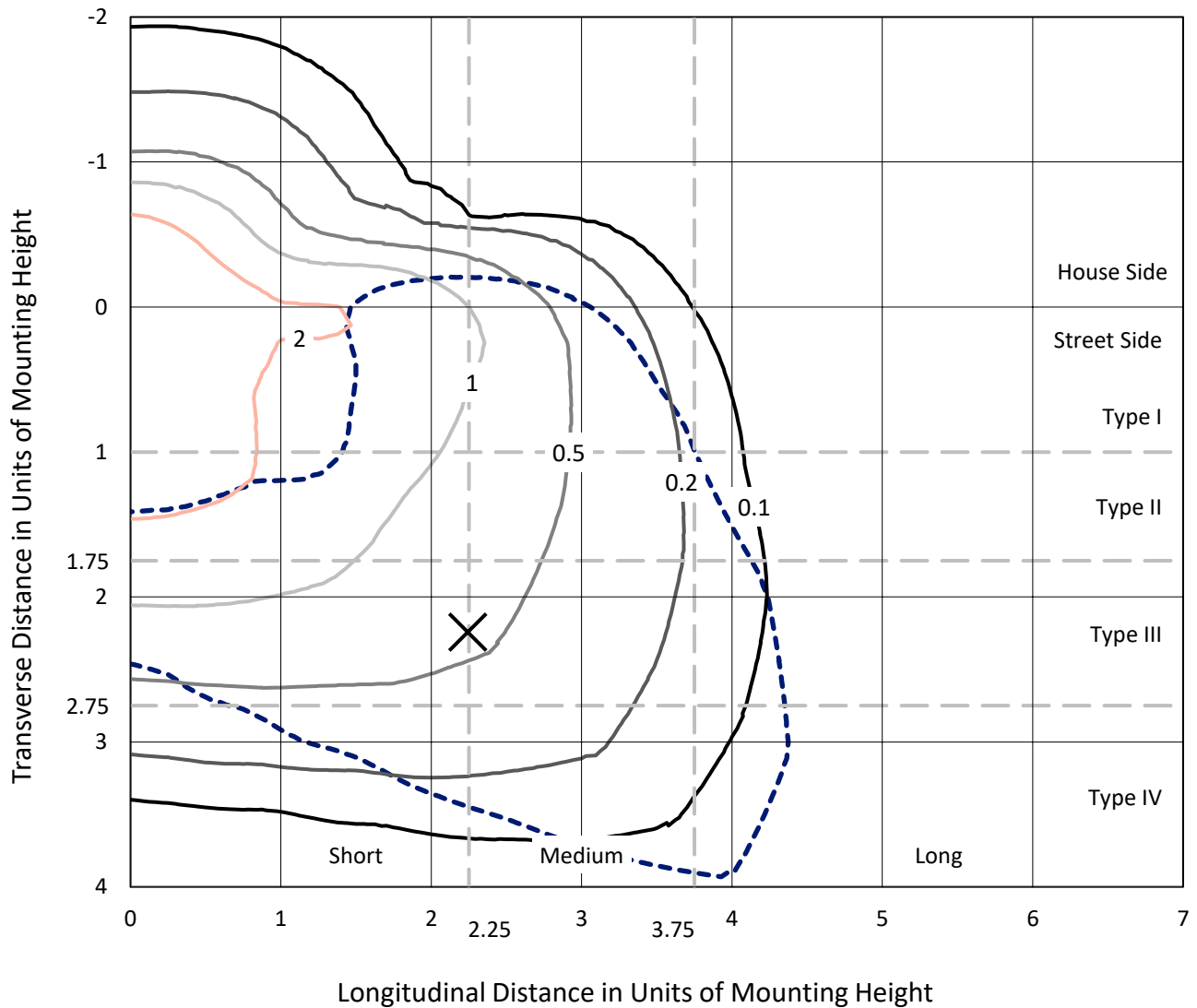
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

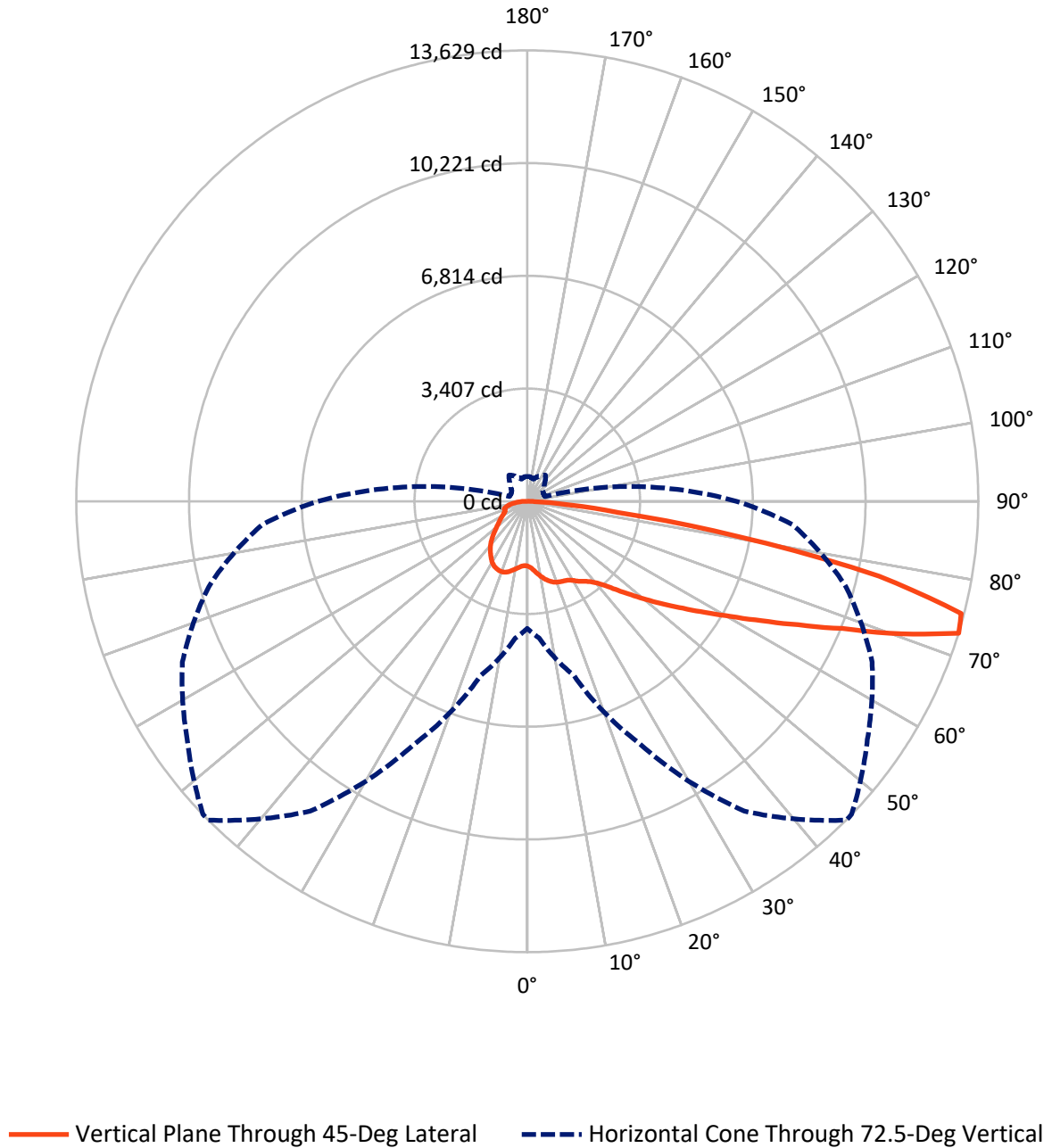
✕ Max cd
 - - - 1/2 Max cd



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	4391.8	0.0	4391.8
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	15035.2	0.0	15035.2
	% Fixture	77.4	0.0	77.4
Total	Lumens	19427.0	0.0	19427.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.5	1.0
10°-20°	665.1	3.4
20°-30°	1156.9	6.0
30°-40°	1658.5	8.5
40°-50°	2335.2	12.0
50°-60°	3576.9	18.4
60°-70°	5181.7	26.7
70°-80°	4137.9	21.3
80°-90°	515.4	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°	19427.0	100.0
0°-180°	19427.0	100.0



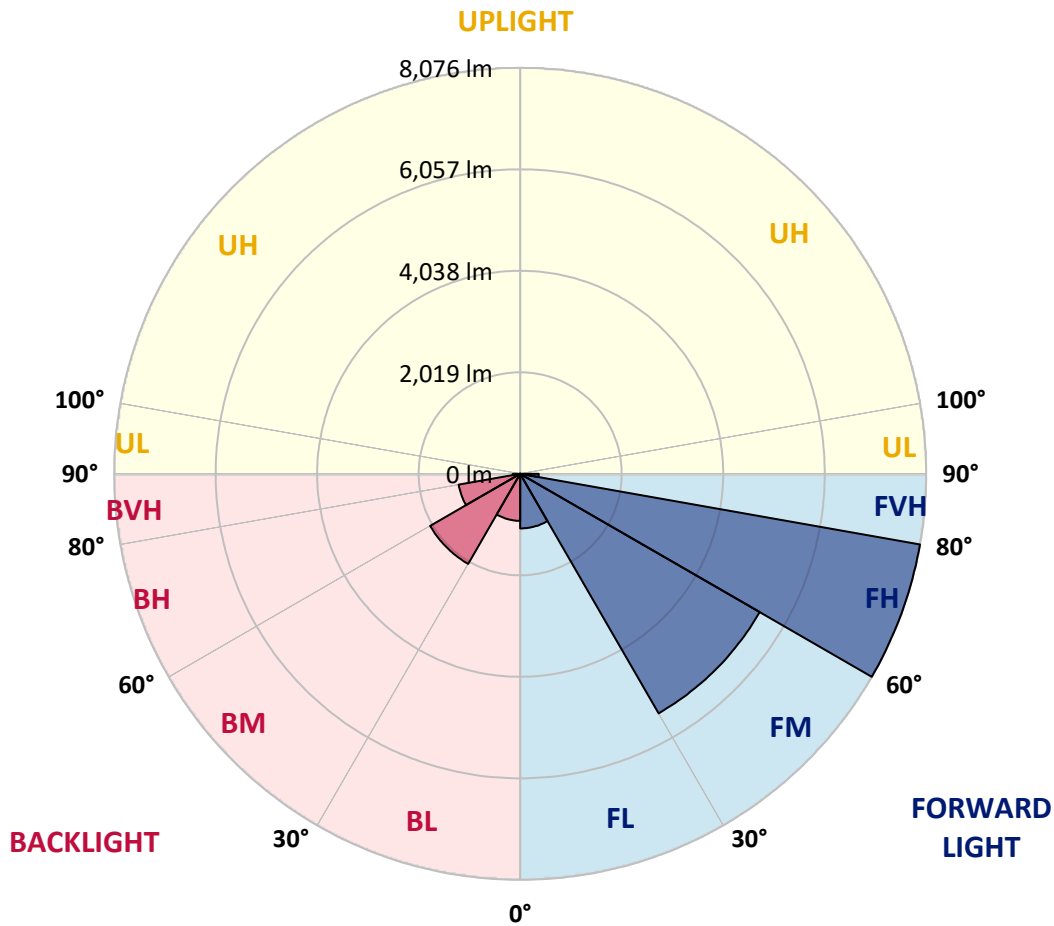
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1086.4	5.6			
FM (30°-60°)	5502.7	28.3			
FH (60°-80°)	8076.4	41.6			G4/12000
FVH (80°-90°)	369.7	1.9			G3/500
BL (0°-30°)	935.0	4.8	B2/1000		
BM (30°-60°)	2067.9	10.6	B2/2500		
BH (60°-80°)	1243.2	6.4	B3/2500		G3/2500
BVH (80°-90°)	145.6	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°	1959.8	1959.8	1959.8	1959.8	1959.8	1959.8	1959.8	1959.8	1959.8	1959.8
2.5°	2036.6	2049.9	2037.6	2026.3	2021.2	2007.9	2006.9	1998.7	1993.6	1979.3
5°	2178.8	2196.2	2175.7	2153.2	2132.8	2100.0	2095.9	2072.4	2045.8	2015.1
7.5°	2339.5	2354.8	2331.3	2297.5	2261.7	2207.5	2206.4	2163.5	2121.5	2069.3
10°	2479.7	2500.2	2468.4	2422.4	2377.4	2315.9	2308.8	2259.7	2206.4	2138.9
12.5°	2603.5	2617.9	2587.1	2530.9	2478.7	2417.3	2408.1	2353.8	2294.5	2217.7
15°	2701.8	2720.2	2679.3	2618.9	2563.6	2503.2	2495.0	2445.9	2386.6	2305.7
17.5°	2766.2	2781.6	2739.6	2672.1	2618.9	2568.7	2562.6	2521.7	2469.5	2387.6
20°	2790.8	2807.2	2763.2	2694.6	2645.5	2606.6	2603.5	2573.8	2538.0	2463.3
22.5°	2815.4	2830.7	2773.4	2701.8	2658.8	2634.2	2633.2	2613.8	2599.4	2538.0
25°	2914.6	2918.7	2842.0	2738.6	2677.2	2655.7	2654.7	2653.7	2659.8	2611.7
27.5°	3000.6	2999.6	2934.1	2836.9	2741.7	2696.7	2695.6	2705.9	2725.3	2685.4
30°	3126.5	3115.2	3037.4	2936.1	2849.1	2779.5	2773.4	2764.2	2779.5	2747.8
32.5°	3393.6	3357.8	3231.9	3051.8	2938.2	2885.0	2876.8	2819.5	2825.6	2806.2
35°	3776.3	3729.3	3561.4	3270.8	3048.7	2973.0	2968.9	2896.2	2883.9	2866.5
37.5°	4231.7	4173.4	3977.9	3588.0	3239.1	3075.3	3069.2	3003.7	2953.5	2935.1
40°	4689.2	4615.5	4453.8	3974.9	3519.5	3246.2	3226.8	3127.5	3070.2	3039.5
42.5°	5133.4	5072.0	4933.8	4408.8	3865.4	3495.9	3452.9	3283.1	3240.1	3211.4
45°	5526.3	5471.1	5369.8	4872.4	4270.6	3835.7	3793.7	3516.4	3503.1	3503.1
47.5°	5845.6	5833.4	5725.9	5345.2	4748.6	4222.5	4149.9	3840.8	3876.6	3931.9
50°	6199.7	6166.0	6051.3	5810.9	5310.4	4665.7	4606.3	4238.9	4373.0	4524.4
52.5°	6525.2	6543.6	6415.7	6295.9	5944.9	5160.0	5055.6	4708.7	4998.3	5249.0
55°	6859.8	6860.9	6825.0	6808.7	6610.1	5706.5	5591.8	5273.6	5734.1	6045.2
57.5°	7174.0	7176.1	7229.3	7373.6	7381.8	6336.9	6206.9	5967.4	6551.8	6869.0
60°	7454.4	7468.8	7614.1	7951.8	8060.3	7059.4	6936.6	6787.2	7397.1	7716.4
62.5°	7548.6	7600.8	7924.2	8404.1	8730.6	7945.7	7824.9	7735.9	8285.4	8582.2
65°	7388.9	7508.7	8134.0	8777.7	9420.4	8998.7	8879.0	8781.8	9208.5	9487.9
67.5°	6997.0	7151.5	8121.7	9169.6	10257.5	10265.7	10154.1	9925.9	10198.2	10305.6
70°	5964.4	6195.6	7406.3	9316.0	11218.5	11998.3	11890.9	11303.4	11185.7	10665.8
72.5°	3842.9	4154.0	5453.7	8111.4	11432.4	13628.6	13622.4	12546.9	11497.9	9965.8
75°	1402.1	1592.4	2533.9	5091.4	9596.4	13545.7	13585.6	12334.0	10496.0	7698.0
77.5°	510.7	558.8	826.9	1956.7	5901.9	10868.5	10951.4	9860.4	7470.8	3863.3
80°	268.1	294.7	423.7	759.4	2528.8	6454.6	6584.5	5860.0	3511.3	1163.6
82.5°	148.4	160.7	237.4	412.4	1139.0	2760.1	2837.9	2314.9	1235.2	493.3
85°	79.8	84.9	111.6	225.1	556.7	956.9	978.4	691.8	492.3	289.6
87.5°	23.5	28.7	36.8	71.6	218.0	214.9	220.0	137.1	194.4	146.3
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°
1959.8	0°	1959.8	1959.8	1959.8	1959.8	1959.8	1959.8	1959.8	1959.8	1959.8	1959.8
1975.2	2.5°	1969.0	1965.9	1954.7	1949.6	1943.4	1942.4	1947.5	1948.5	1949.6	1950.6
1997.7	5°	1987.4	1977.2	1967.0	1960.8	1962.9	1963.9	1974.1	1981.3	1986.4	1990.5
2039.6	7.5°	2023.3	2015.1	1997.7	1996.6	1999.7	2008.9	2022.2	2038.6	2047.8	2055.0
2093.9	10°	2076.5	2061.1	2040.7	2043.7	2049.9	2063.2	2090.8	2104.1	2119.5	2132.8
2160.4	12.5°	2130.7	2117.4	2093.9	2095.9	2106.2	2129.7	2156.3	2172.7	2182.9	2193.1
2232.0	15°	2201.3	2177.8	2152.2	2152.2	2170.6	2196.2	2208.5	2221.8	2227.9	2239.2
2308.8	17.5°	2274.0	2243.3	2209.5	2207.5	2230.0	2242.3	2249.4	2251.5	2253.5	2265.8
2383.5	20°	2346.7	2312.9	2264.8	2260.7	2265.8	2263.8	2262.7	2260.7	2263.8	2279.1
2460.2	22.5°	2418.3	2379.4	2312.9	2294.5	2280.1	2260.7	2259.7	2258.6	2260.7	2276.0
2543.1	25°	2502.2	2455.1	2366.1	2310.8	2262.7	2236.1	2239.2	2240.2	2242.3	2254.5
2629.1	27.5°	2593.3	2541.1	2415.2	2305.7	2218.7	2200.3	2195.2	2198.3	2205.4	2224.9
2715.1	30°	2684.4	2623.0	2460.2	2285.2	2163.5	2137.9	2121.5	2128.7	2151.2	2170.6
2789.8	32.5°	2767.3	2705.9	2496.1	2240.2	2092.8	2052.9	2031.4	2040.7	2063.2	2070.3
2872.7	35°	2864.5	2794.9	2511.4	2168.6	2016.1	1954.7	1926.0	1912.7	1924.0	1916.8
2969.9	37.5°	2973.0	2900.3	2509.4	2074.4	1926.0	1855.4	1815.5	1765.4	1741.8	1717.3
3113.2	40°	3133.6	3029.3	2484.8	1960.8	1814.5	1750.0	1678.4	1593.4	1540.2	1492.1
3344.5	42.5°	3352.7	3208.4	2439.8	1836.0	1688.6	1628.2	1531.0	1431.7	1347.8	1268.0
3695.5	45°	3679.1	3442.7	2383.5	1702.9	1552.5	1493.1	1387.7	1276.2	1181.0	1078.7
4193.9	47.5°	4149.9	3757.9	2330.3	1551.5	1409.2	1355.0	1259.8	1156.4	1043.9	944.6
4914.4	50°	4796.7	4210.3	2281.2	1404.1	1268.0	1227.1	1151.3	1045.9	932.3	852.5
5758.7	52.5°	5619.5	4825.3	2260.7	1261.8	1136.0	1120.6	1060.2	962.0	854.5	787.0
6743.2	55°	6564.1	5561.1	2260.7	1125.7	1020.3	1025.4	983.5	892.4	799.3	738.9
7758.4	57.5°	7528.1	6306.2	2219.7	999.9	922.1	943.6	917.0	837.1	753.2	690.8
8825.8	60°	8416.4	6930.4	2054.0	885.2	835.1	868.9	851.5	782.9	680.6	628.4
9718.2	62.5°	9099.0	7282.5	1734.7	794.2	763.5	802.3	793.1	711.3	667.3	645.8
10450.9	65°	9440.8	7225.2	1326.3	713.3	703.1	763.5	744.0	740.9	706.1	681.6
10689.4	67.5°	9231.0	6731.9	962.0	654.0	668.3	727.6	802.3	814.6	750.2	702.1
10018.0	70°	8311.0	5839.5	716.4	597.7	624.3	728.7	914.9	852.5	735.8	679.5
8034.7	72.5°	6322.5	4354.6	555.7	538.3	567.0	733.8	965.1	835.1	694.9	751.2
5005.4	75°	3615.7	2390.7	446.2	465.6	495.3	685.7	939.5	790.1	663.2	689.8
1983.3	77.5°	1378.5	919.0	368.4	394.0	398.1	598.7	898.5	787.0	631.4	616.1
594.6	80°	477.9	359.2	305.0	313.2	308.0	532.2	861.7	684.7	516.8	462.6
245.6	82.5°	195.5	179.1	241.5	231.3	219.0	413.5	695.9	559.8	422.7	373.5
118.7	85°	84.9	113.6	159.7	140.2	126.9	286.6	557.8	473.8	357.2	308.0
38.9	87.5°	17.4	43.0	67.5	63.5	65.5	191.4	396.1	336.7	252.8	189.3
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>
1959.8
1954.7
1992.6
2057.0
2129.7
2197.2
2243.3
2269.9
2285.2
2286.3
2270.9
2244.3
2192.1
2095.9
1939.3
1732.6
1495.2
1260.8
1066.4
933.3
847.4
781.9
732.8
680.6
620.2
638.6
673.4
693.9
670.3
745.0
689.8
561.8
447.2
369.4
307.0
148.4
0.0

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