

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: P940832

Luminaire Tested: **GALN-SB4A-830-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940832
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4A-830-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16013 lumens
Efficiency: N/A
Efficacy: 140.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G3

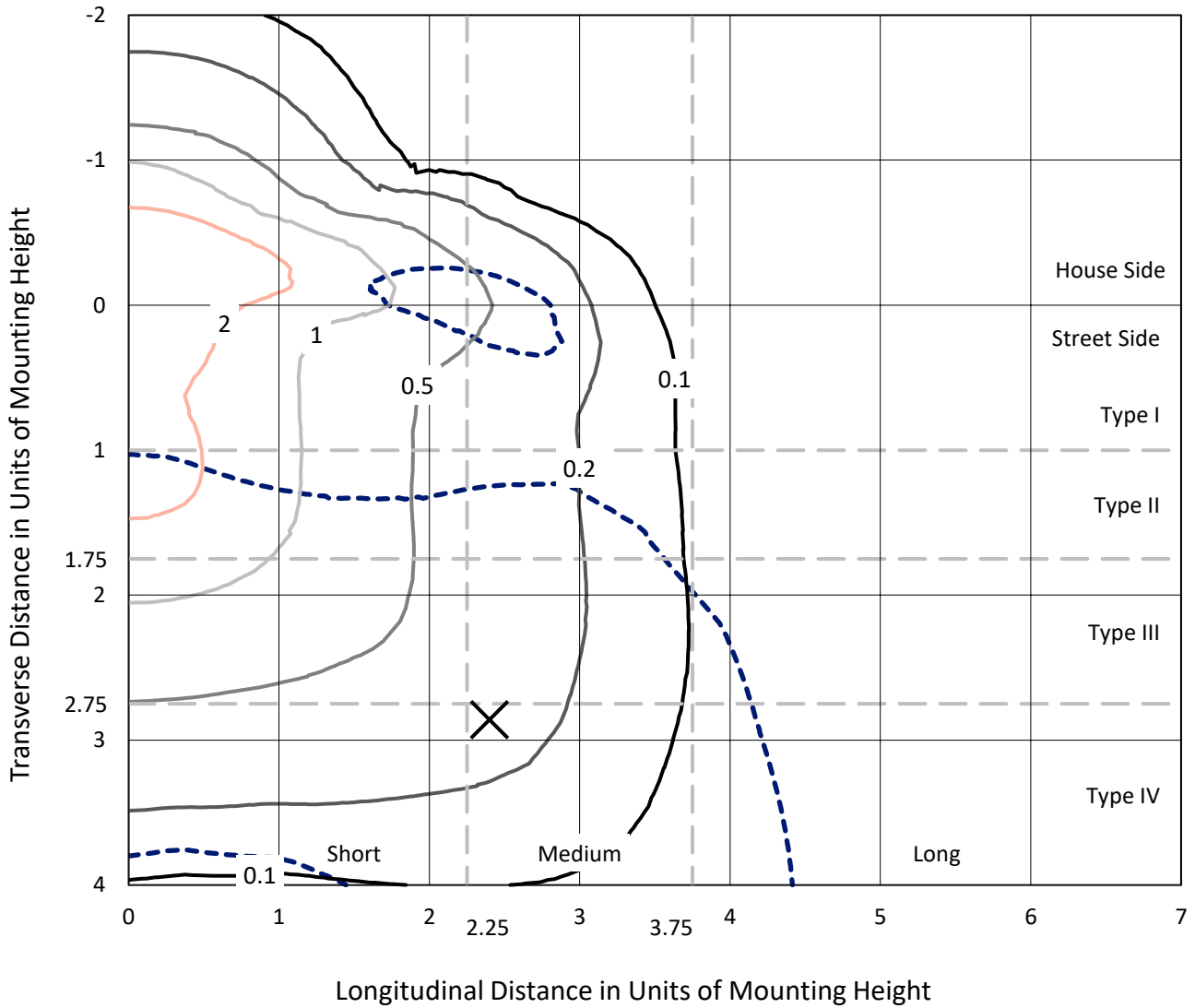
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

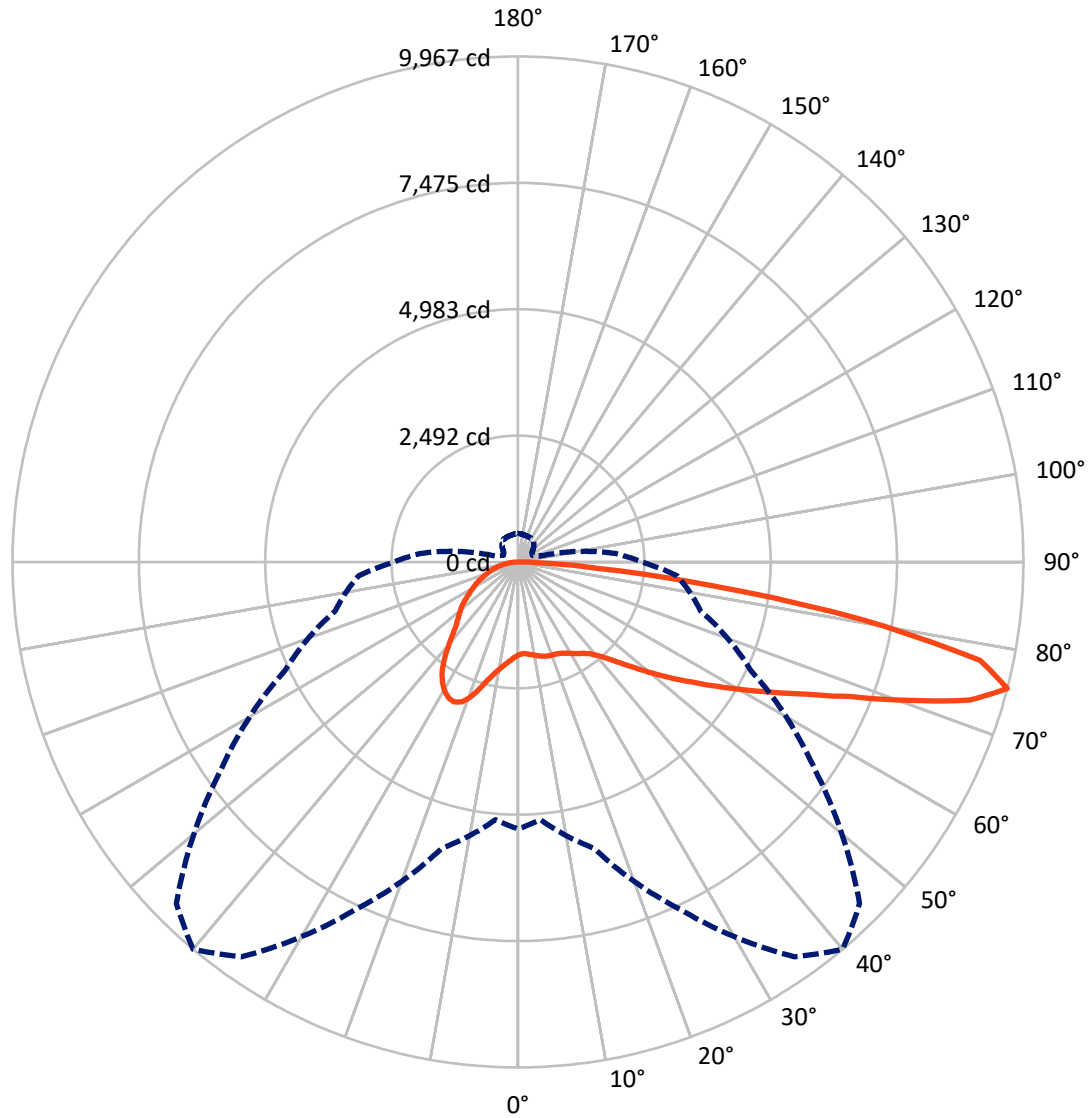
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4961.4	0.0	4961.4
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	11051.6	0.0	11051.6
	% Fixture	69.0	0.0	69.0
Total	Lumens	16013.0	0.0	16013.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.8	1.1
10°-20°	613.7	3.8
20°-30°	1120.5	7.0
30°-40°	1589.2	9.9
40°-50°	2145.9	13.4
50°-60°	2886.8	18.0
60°-70°	3664.0	22.9
70°-80°	3325.3	20.8
80°-90°	484.7	3.0
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°	16013.0	100.0
0°-180°	16013.0	100.0



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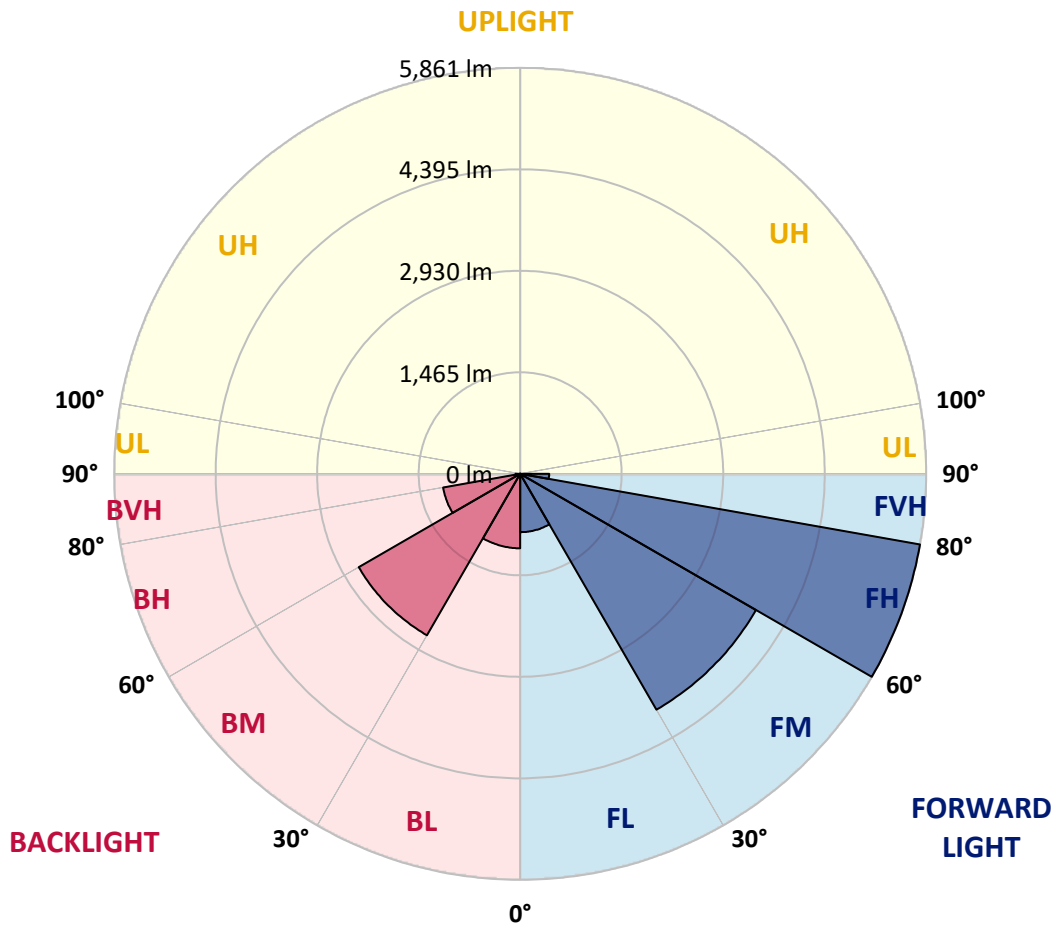
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	842.3	5.3			
FM (30°-60°)	3930.8	24.5			
FH (60°-80°)	5860.5	36.6			G3/7500
FVH (80°-90°)	418.0	2.6			G3/500
BL (0°-30°)	1074.7	6.7	B3/2500		
BM (30°-60°)	2691.1	16.8	B3/5000		
BH (60°-80°)	1128.9	7.0	B3/2500		G3/2500
BVH (80°-90°)	66.7	0.4			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 IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	1831.1	1831.1	1831.1	1831.1	1831.1	1831.1	1831.1	1831.1	1831.1	1831.1
2.5°	1803.1	1813.3	1810.7	1807.3	1807.3	1808.2	1807.3	1813.3	1819.2	1825.2
5°	1821.8	1832.0	1826.9	1822.6	1819.2	1818.4	1815.8	1815.0	1818.4	1826.0
7.5°	1858.3	1868.5	1860.8	1853.2	1846.4	1843.0	1839.6	1834.5	1832.0	1836.2
10°	1899.1	1909.2	1899.9	1886.3	1875.3	1871.0	1867.6	1862.5	1859.1	1861.7
12.5°	1939.8	1950.0	1937.3	1918.6	1904.1	1901.6	1897.4	1895.7	1894.8	1894.0
15°	1978.0	1986.5	1970.4	1948.3	1933.0	1928.8	1924.5	1927.1	1931.3	1936.4
17.5°	2007.8	2016.3	1992.5	1963.6	1949.2	1947.5	1944.9	1953.4	1965.3	1978.0
20°	2034.9	2043.4	2012.9	1973.8	1956.8	1956.8	1957.7	1975.5	1992.5	2011.2
22.5°	2073.2	2080.0	2042.6	1989.1	1964.4	1966.1	1972.9	1990.8	2012.0	2037.5
25°	2130.1	2135.2	2089.3	2018.0	1989.9	1995.0	2001.0	2009.5	2029.8	2059.6
27.5°	2221.8	2226.0	2165.7	2068.9	2026.4	2034.9	2043.4	2037.5	2046.8	2072.3
30°	2350.9	2353.4	2277.0	2148.7	2088.4	2092.7	2094.4	2069.8	2051.9	2072.3
32.5°	2503.8	2502.9	2412.0	2245.6	2158.9	2154.7	2140.3	2091.8	2050.2	2068.1
35°	2740.7	2731.4	2614.2	2381.5	2238.8	2212.4	2178.5	2116.5	2058.7	2063.8
37.5°	3133.1	3104.2	2942.0	2604.0	2357.7	2290.6	2240.5	2156.4	2077.4	2062.1
40°	3575.6	3539.1	3360.7	2908.9	2536.0	2428.2	2347.5	2213.3	2108.0	2069.8
42.5°	4100.5	4048.7	3856.7	3268.1	2761.9	2605.7	2484.2	2285.5	2153.0	2094.4
45°	4745.1	4676.3	4404.5	3673.3	3046.5	2838.4	2676.2	2395.0	2221.8	2142.0
47.5°	5396.5	5413.5	5027.1	4137.0	3387.9	3125.5	2916.5	2559.8	2322.0	2218.4
50°	6088.7	6100.6	5646.2	4650.8	3775.2	3449.9	3186.6	2744.1	2461.3	2327.1
52.5°	6628.8	6630.5	6208.4	5188.4	4178.6	3806.6	3477.9	2954.7	2622.7	2471.5
55°	6966.9	6962.6	6602.5	5697.2	4642.3	4181.1	3800.7	3194.2	2819.7	2641.3
57.5°	7212.3	7199.6	6874.3	6134.6	5136.6	4623.6	4165.9	3466.0	3052.4	2843.5
60°	7305.7	7298.1	7058.6	6512.5	5656.4	5112.8	4587.1	3770.1	3316.5	3082.1
62.5°	7341.4	7355.9	7239.5	6878.5	6212.7	5654.7	5050.0	4133.6	3613.8	3352.2
65°	7467.1	7493.4	7469.7	7357.6	6841.2	6289.1	5664.0	4565.9	3938.2	3641.8
67.5°	7716.0	7742.3	7752.5	7930.8	7608.9	7079.8	6430.1	5104.3	4317.9	3942.5
70°	7710.0	7702.4	7882.4	8386.9	8570.4	8174.6	7462.9	5766.8	4770.6	4192.2
72.5°	7017.8	6956.7	7382.2	8381.8	9370.4	9317.8	8724.1	6621.2	5161.2	4222.8
75°	5264.9	5101.8	5853.4	7553.7	9503.8	9966.6	9525.8	7151.2	5068.7	3731.0
77.5°	2251.5	2087.6	2973.4	5591.8	8505.8	9316.9	8790.3	6239.0	4046.1	2467.2
80°	589.4	588.6	898.6	2535.2	5784.6	6880.2	6036.0	4029.1	2311.8	881.6
82.5°	243.8	237.8	330.4	986.0	2826.5	3861.0	3150.9	1797.1	834.9	238.7
85°	90.9	90.0	160.5	340.6	997.1	1592.5	1152.5	459.5	208.1	116.4
87.5°	25.5	24.6	34.8	118.1	242.9	368.6	197.0	75.6	58.6	45.9
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°
1831.1	0°	1831.1	1831.1	1831.1	1831.1	1831.1	1831.1	1831.1	1831.1	1831.1	1831.1
1834.5	2.5°	1837.1	1841.3	1848.9	1854.9	1862.5	1871.0	1882.9	1890.6	1898.2	1903.3
1838.8	5°	1844.7	1854.0	1873.6	1893.1	1916.0	1937.3	1961.9	1979.7	1994.2	1998.4
1854.0	7.5°	1861.7	1877.0	1910.1	1943.2	1979.7	2014.6	2050.2	2080.8	2105.4	2114.8
1881.2	10°	1891.4	1911.8	1958.5	2005.2	2053.6	2107.1	2153.0	2197.2	2232.0	2246.4
1913.5	12.5°	1928.8	1954.3	2015.4	2080.0	2147.1	2220.9	2280.4	2334.7	2378.1	2397.6
1958.5	15°	1977.2	2010.3	2088.4	2175.1	2273.6	2376.4	2452.0	2512.3	2560.7	2584.4
2005.2	17.5°	2029.8	2074.0	2172.5	2303.3	2444.3	2579.3	2667.7	2711.8	2761.9	2784.9
2048.5	20°	2080.8	2135.2	2276.1	2466.4	2654.1	2797.6	2869.0	2880.9	2884.2	2886.8
2089.3	22.5°	2133.5	2206.5	2406.1	2671.9	2873.2	2972.6	2982.8	2931.8	2860.5	2827.3
2129.2	25°	2191.2	2288.0	2576.0	2898.7	3061.8	3073.6	2995.5	2871.5	2736.5	2674.5
2161.5	27.5°	2247.3	2382.3	2779.8	3115.3	3197.6	3093.2	2925.0	2749.2	2586.1	2520.7
2184.4	30°	2303.3	2490.2	3004.9	3304.7	3259.6	3044.8	2813.8	2617.6	2453.7	2384.9
2204.8	32.5°	2360.2	2615.9	3263.9	3441.4	3248.6	2942.0	2675.3	2469.8	2325.4	2253.2
2222.6	35°	2424.8	2770.4	3509.3	3516.1	3174.7	2790.8	2492.7	2293.1	2167.4	2109.7
2243.9	37.5°	2508.9	2966.6	3725.9	3534.8	3045.6	2569.2	2266.0	2084.2	1980.6	1954.3
2275.3	40°	2613.3	3202.7	3891.5	3505.1	2854.5	2299.9	2018.0	1872.7	1814.1	1820.1
2317.8	42.5°	2749.2	3466.9	4007.9	3428.7	2588.7	2022.2	1800.5	1736.0	1764.0	1787.8
2381.5	45°	2925.9	3741.2	4080.1	3298.7	2288.0	1786.9	1672.3	1687.6	1708.8	1711.4
2484.2	47.5°	3151.8	4018.9	4127.6	3102.5	1981.4	1621.3	1590.8	1594.2	1589.9	1572.1
2638.0	50°	3433.8	4289.0	4170.1	2842.6	1720.7	1517.7	1476.9	1465.1	1406.5	1348.7
2842.6	52.5°	3754.8	4537.0	4187.9	2519.9	1517.7	1431.1	1364.8	1290.1	1180.5	1162.7
3100.0	55°	4111.5	4766.3	4142.1	2123.3	1347.0	1319.8	1219.6	1129.6	1117.7	1102.4
3438.8	57.5°	4537.9	5013.5	4048.7	1680.8	1172.0	1189.9	1092.2	1102.4	1081.2	1057.4
3874.5	60°	5004.1	5269.1	3884.7	1277.4	991.1	1027.7	1059.1	1058.2	1052.3	1032.8
4334.0	62.5°	5423.7	5437.3	3562.0	978.4	832.3	902.0	987.7	986.9	981.8	970.8
4813.9	65°	5673.4	5411.8	3023.5	770.3	701.5	798.3	890.9	897.7	898.6	897.7
5174.8	67.5°	5629.2	5113.7	2284.6	613.2	593.7	693.0	795.0	804.3	811.1	812.8
5220.7	70°	5129.8	4458.9	1489.7	489.2	497.7	600.5	704.1	713.4	719.4	726.2
4530.2	72.5°	3998.5	3278.3	852.7	395.8	413.6	520.6	614.0	625.1	628.5	641.2
3152.6	75°	2436.7	1927.9	460.3	311.7	339.7	445.0	524.9	537.6	543.6	558.8
1548.3	77.5°	1158.5	834.9	262.4	242.9	273.5	363.5	443.3	457.8	441.6	450.1
427.2	80°	391.5	310.0	165.6	185.1	208.9	283.7	355.0	369.4	335.5	333.8
141.8	82.5°	136.7	125.7	105.3	123.1	135.0	203.0	268.4	287.1	249.7	248.8
63.7	85°	53.5	51.0	58.6	67.1	80.7	124.8	176.7	186.0	153.7	124.0
18.7	87.5°	11.0	11.9	14.4	15.3	24.6	43.3	63.7	78.1	62.0	52.7
0.0	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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<u>180°</u>
1831.1
1899.9
2000.1
2115.6
2247.3
2397.6
2582.7
2784.0
2893.6
2836.7
2683.8
2528.4
2392.5
2262.6
2122.4
1972.9
1840.5
1809.9
1728.3
1585.7
1356.3
1168.6
1104.9
1053.1
1026.0
966.5
897.7
814.5
729.6
646.3
560.5
443.3
330.4
237.0
122.3
48.4
0.0

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