

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: P940342

Luminaire Tested: **GALN-SB3B-840-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940342
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-SB3B-840-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16019 lumens
Efficiency: N/A
Efficacy: 146.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G3

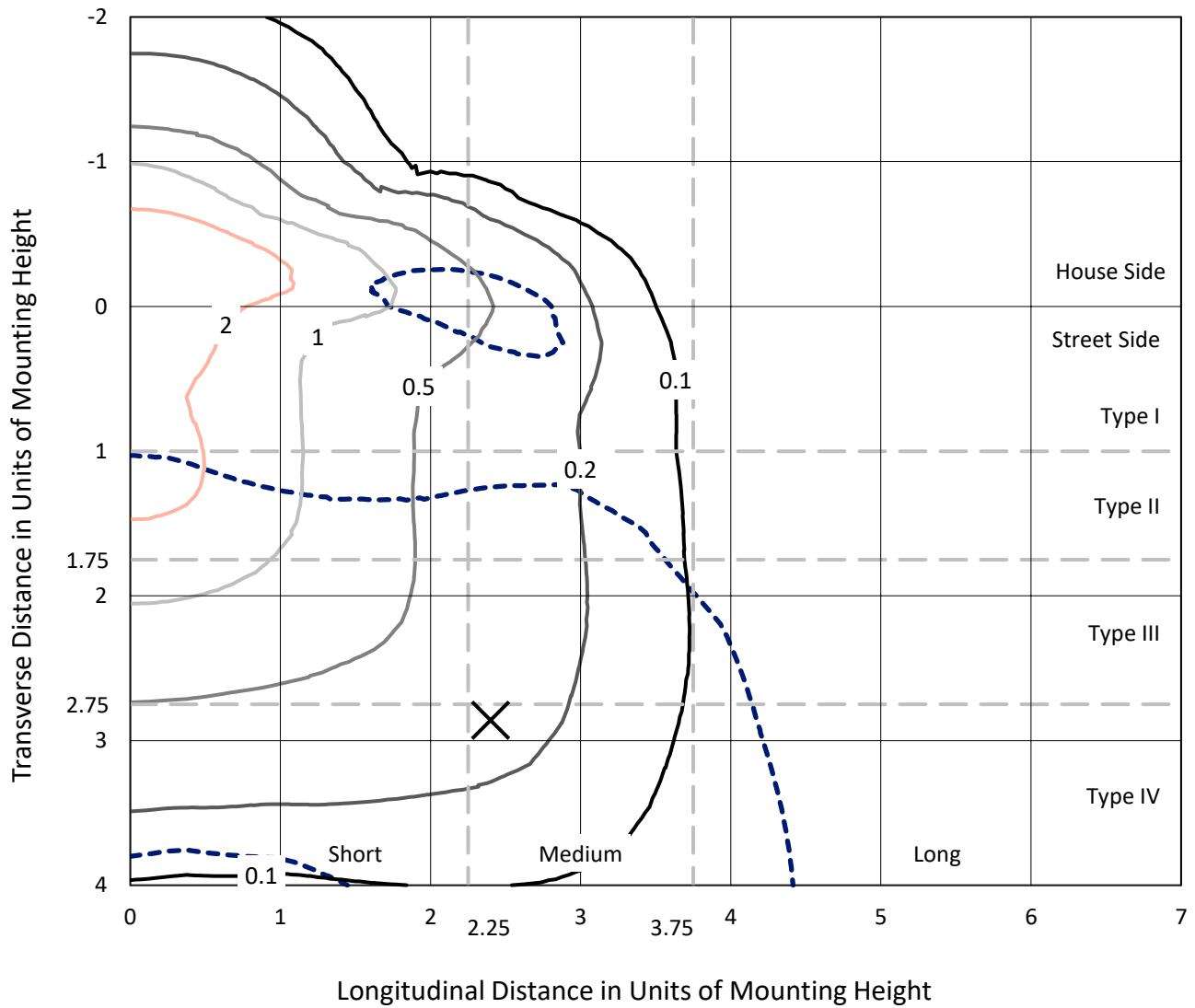
Input Watts (W): 109.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

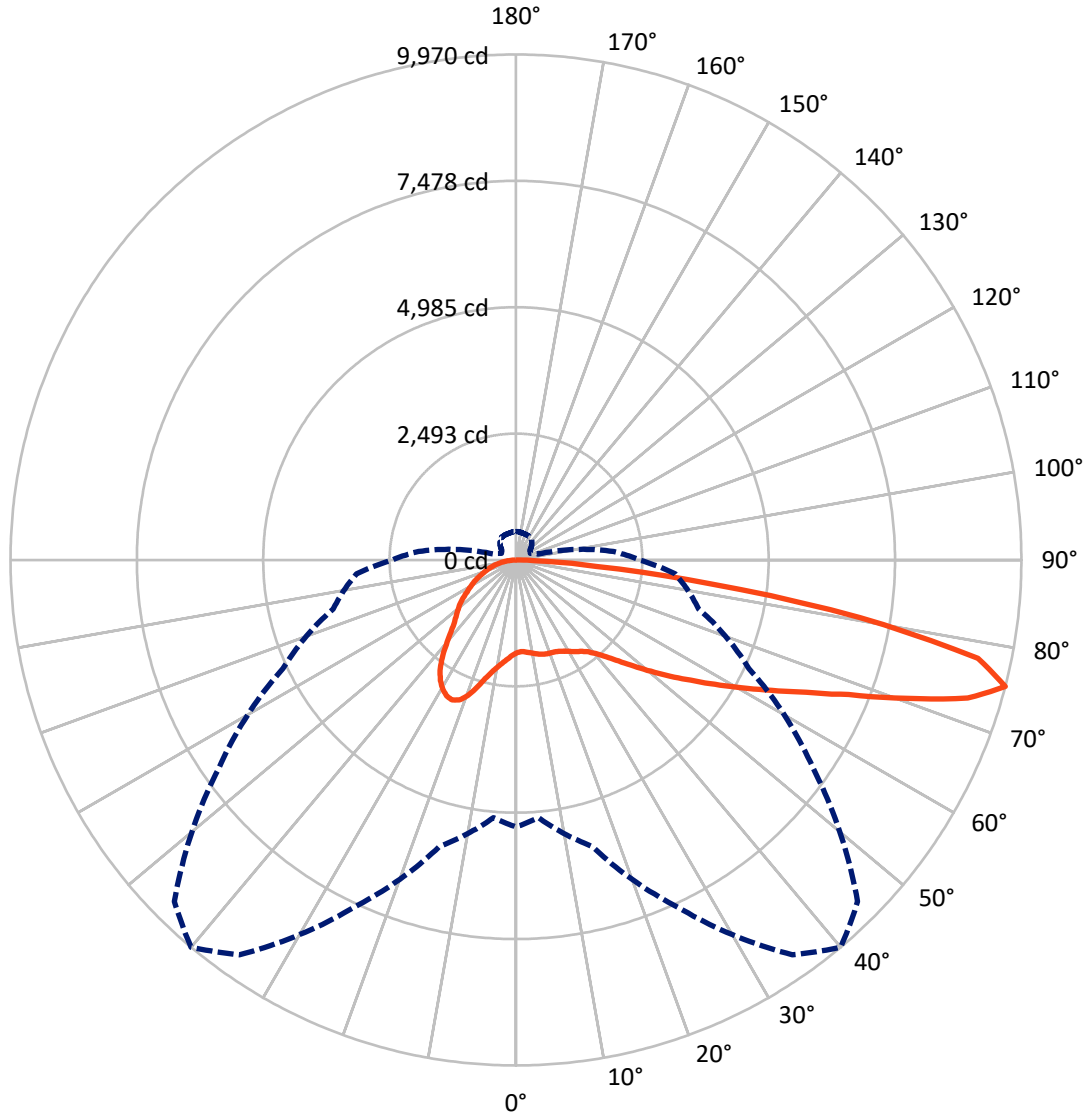
✕ Max cd
 - - - 1/2 Max cd



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	4963.2	0.0	4963.2
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	11055.8	0.0	11055.8
	% Fixture	69.0	0.0	69.0
Total	Lumens	16019.0	0.0	16019.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.8	1.1
10°-20°	613.9	3.8
20°-30°	1120.9	7.0
30°-40°	1589.8	9.9
40°-50°	2146.7	13.4
50°-60°	2887.9	18.0
60°-70°	3665.4	22.9
70°-80°	3326.6	20.8
80°-90°	484.9	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°	16019.0	100.0
0°-180°	16019.0	100.0

Coefficient of Utilization



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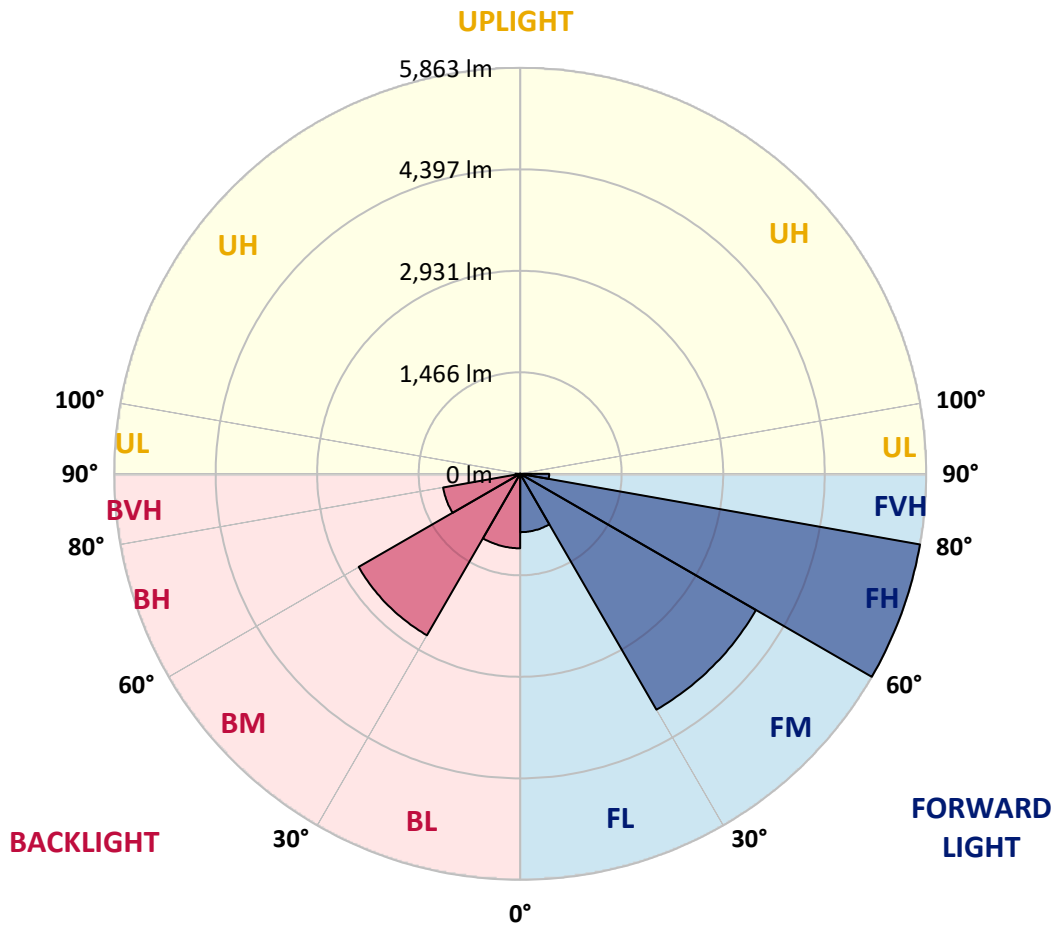
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	842.6	5.3			
FM (30°-60°)	3932.3	24.5			
FH (60°-80°)	5862.7	36.6			G3/7500
FVH (80°-90°)	418.1	2.6			G3/500
BL (0°-30°)	1075.1	6.7	B3/2500		
BM (30°-60°)	2692.1	16.8	B3/5000		
BH (60°-80°)	1129.3	7.0	B3/2500		G3/2500
BVH (80°-90°)	66.8	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°	1831.8	1831.8	1831.8	1831.8	1831.8	1831.8	1831.8	1831.8	1831.8	1831.8
2.5°	1803.8	1814.0	1811.4	1808.0	1808.0	1808.9	1808.0	1814.0	1819.9	1825.8
5°	1822.4	1832.6	1827.5	1823.3	1819.9	1819.0	1816.5	1815.7	1819.0	1826.7
7.5°	1859.0	1869.2	1861.5	1853.9	1847.1	1843.7	1840.3	1835.2	1832.6	1836.9
10°	1899.8	1910.0	1900.6	1887.0	1876.0	1871.7	1868.3	1863.2	1859.8	1862.4
12.5°	1940.5	1950.7	1938.0	1919.3	1904.9	1902.3	1898.1	1896.4	1895.5	1894.7
15°	1978.8	1987.3	1971.1	1949.0	1933.7	1929.5	1925.3	1927.8	1932.0	1937.1
17.5°	2008.5	2017.0	1993.2	1964.3	1949.9	1948.2	1945.6	1954.1	1966.0	1978.8
20°	2035.7	2044.2	2013.6	1974.5	1957.5	1957.5	1958.4	1976.2	1993.2	2011.9
22.5°	2073.9	2080.7	2043.4	1989.8	1965.2	1966.9	1973.7	1991.5	2012.8	2038.3
25°	2130.9	2136.0	2090.1	2018.7	1990.7	1995.8	2001.7	2010.2	2030.6	2060.3
27.5°	2222.6	2226.9	2166.5	2069.7	2027.2	2035.7	2044.2	2038.3	2047.6	2073.1
30°	2351.8	2354.3	2277.8	2149.6	2089.2	2093.5	2095.2	2070.5	2052.7	2073.1
32.5°	2504.7	2503.8	2412.9	2246.4	2159.7	2155.5	2141.1	2092.6	2051.0	2068.8
35°	2741.7	2732.4	2615.1	2382.4	2239.6	2213.3	2179.3	2117.3	2059.5	2064.6
37.5°	3134.3	3105.4	2943.1	2605.0	2358.6	2291.4	2241.3	2157.2	2078.2	2062.9
40°	3576.9	3540.4	3362.0	2910.0	2537.0	2429.1	2348.4	2214.1	2108.8	2070.5
42.5°	4102.0	4050.2	3858.2	3269.4	2763.0	2606.7	2485.2	2286.3	2153.8	2095.2
45°	4746.9	4678.0	4406.2	3674.6	3047.6	2839.5	2677.2	2395.9	2222.6	2142.8
47.5°	5398.5	5415.5	5028.9	4138.5	3389.2	3126.6	2917.6	2560.8	2322.9	2219.2
50°	6091.0	6102.9	5648.3	4652.6	3776.6	3451.2	3187.8	2745.1	2462.2	2328.0
52.5°	6631.3	6633.0	6210.8	5190.4	4180.2	3808.0	3479.2	2955.8	2623.6	2472.4
55°	6969.5	6965.2	6605.0	5699.3	4644.1	4182.7	3802.1	3195.4	2820.8	2642.3
57.5°	7215.0	7202.3	6876.9	6136.8	5138.5	4625.4	4167.4	3467.3	3053.6	2844.5
60°	7308.5	7300.8	7061.2	6514.9	5658.5	5114.7	4588.8	3771.5	3317.8	3083.3
62.5°	7344.2	7358.6	7242.2	6881.1	6215.0	5656.8	5051.9	4135.1	3615.2	3353.5
65°	7469.9	7496.3	7472.5	7360.3	6843.7	6291.5	5666.2	4567.6	3939.7	3643.2
67.5°	7718.9	7745.2	7755.4	7933.8	7611.8	7082.5	6432.5	5106.3	4319.5	3944.0
70°	7712.9	7705.3	7885.4	8390.1	8573.6	8177.7	7465.7	5769.0	4772.4	4193.8
72.5°	7020.5	6959.3	7385.0	8385.0	9373.9	9321.2	8727.4	6623.7	5163.2	4224.3
75°	5266.8	5103.7	5855.6	7556.6	9507.3	9970.4	9529.4	7153.9	5070.6	3732.4
77.5°	2252.4	2088.4	2974.5	5593.9	8509.0	9320.4	8793.6	6241.4	4047.6	2468.2
80°	589.6	588.8	898.9	2536.1	5786.8	6882.8	6038.3	4030.6	2312.7	881.9
82.5°	243.8	237.9	330.5	986.4	2827.6	3862.4	3152.1	1797.8	835.2	238.7
85°	90.9	90.1	160.6	340.7	997.5	1593.0	1152.9	459.6	208.2	116.4
87.5°	25.5	24.6	34.8	118.1	243.0	368.7	197.1	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°
1831.8	0°	1831.8	1831.8	1831.8	1831.8	1831.8	1831.8	1831.8	1831.8	1831.8	1831.8
1835.2	2.5°	1837.7	1842.0	1849.6	1855.6	1863.2	1871.7	1883.6	1891.3	1898.9	1904.0
1839.4	5°	1845.4	1854.7	1874.3	1893.8	1916.8	1938.0	1962.6	1980.5	1994.9	1999.2
1854.7	7.5°	1862.4	1877.7	1910.8	1943.9	1980.5	2015.3	2051.0	2081.6	2106.2	2115.6
1881.9	10°	1892.1	1912.5	1959.2	2006.0	2054.4	2107.9	2153.8	2198.0	2232.8	2247.3
1914.2	12.5°	1929.5	1955.0	2016.2	2080.7	2147.9	2221.8	2281.2	2335.6	2379.0	2398.5
1959.2	15°	1977.9	2011.1	2089.2	2175.9	2274.4	2377.3	2452.9	2513.2	2561.6	2585.4
2006.0	17.5°	2030.6	2074.8	2173.3	2304.2	2445.2	2580.3	2668.7	2712.9	2763.0	2785.9
2049.3	20°	2081.6	2136.0	2277.0	2467.3	2655.1	2798.7	2870.0	2881.9	2885.3	2887.9
2090.1	22.5°	2134.3	2207.3	2407.0	2672.9	2874.3	2973.7	2983.9	2932.9	2861.5	2828.4
2130.0	25°	2192.0	2288.9	2576.9	2899.8	3062.9	3074.8	2996.6	2872.6	2737.5	2675.5
2162.3	27.5°	2248.1	2383.2	2780.8	3116.4	3198.8	3094.3	2926.1	2750.2	2587.1	2521.7
2185.2	30°	2304.2	2491.1	3006.0	3305.9	3260.9	3045.9	2814.8	2618.5	2454.6	2385.8
2205.6	32.5°	2361.1	2616.8	3265.1	3442.7	3249.8	2943.1	2676.3	2470.7	2326.3	2254.1
2223.5	35°	2425.7	2771.5	3510.7	3517.5	3175.9	2791.9	2493.7	2294.0	2168.2	2110.5
2244.7	37.5°	2509.8	2967.7	3727.3	3536.1	3046.8	2570.1	2266.8	2085.0	1981.3	1955.0
2276.1	40°	2614.3	3203.9	3893.0	3506.4	2855.6	2300.8	2018.7	1873.4	1814.8	1820.7
2318.6	42.5°	2750.2	3468.2	4009.4	3429.9	2589.7	2023.0	1801.2	1736.6	1764.7	1788.5
2382.4	45°	2927.0	3742.6	4081.6	3299.9	2288.9	1787.6	1672.9	1688.2	1709.4	1712.0
2485.2	47.5°	3153.0	4020.4	4129.2	3103.7	1982.2	1621.9	1591.3	1594.7	1590.5	1572.7
2638.9	50°	3435.0	4290.6	4171.7	2843.7	1721.3	1518.3	1477.5	1465.6	1407.0	1349.2
2843.7	52.5°	3756.2	4538.7	4189.5	2520.8	1518.3	1431.6	1365.3	1290.6	1181.0	1163.1
3101.1	55°	4113.0	4768.1	4143.6	2124.1	1347.5	1320.3	1220.1	1130.0	1118.1	1102.8
3440.1	57.5°	4539.6	5015.3	4050.2	1681.4	1172.5	1190.3	1092.6	1102.8	1081.6	1057.8
3876.0	60°	5006.0	5271.1	3886.2	1277.8	991.5	1028.0	1059.5	1058.6	1052.7	1033.1
4335.6	62.5°	5425.7	5439.3	3563.3	978.8	832.6	902.3	988.1	987.3	982.2	971.1
4815.7	65°	5675.5	5413.8	3024.7	770.6	701.8	798.6	891.3	898.1	898.9	898.1
5176.8	67.5°	5631.3	5115.6	2285.5	613.4	593.9	693.3	795.3	804.6	811.4	813.1
5222.7	70°	5131.7	4460.5	1490.2	489.4	497.9	600.7	704.3	713.7	719.6	726.4
4531.9	72.5°	4000.0	3279.6	853.0	395.9	413.8	520.8	614.3	625.3	628.7	641.5
3153.8	75°	2437.6	1928.7	460.5	311.8	339.9	445.2	525.1	537.8	543.8	559.1
1548.9	77.5°	1158.9	835.2	262.5	243.0	273.6	363.6	443.5	457.9	441.8	450.3
427.4	80°	391.7	310.1	165.7	185.2	209.0	283.8	355.1	369.6	335.6	333.9
141.9	82.5°	136.8	125.7	105.4	123.2	135.1	203.1	268.5	287.2	249.8	248.9
63.7	85°	53.5	51.0	58.6	67.1	80.7	124.9	176.7	186.1	153.8	124.0
18.7	87.5°	11.0	11.9	14.4	15.3	24.6	43.3	63.7	78.2	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>
1831.8
1900.6
2000.9
2116.4
2248.1
2398.5
2583.7
2785.1
2894.7
2837.8
2684.8
2529.3
2393.4
2263.4
2123.2
1973.7
1841.1
1810.6
1729.0
1586.3
1356.9
1169.1
1105.4
1053.5
1026.3
966.9
898.1
814.8
729.8
646.6
560.8
443.5
330.5
237.0
122.3
48.4
0.0

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