

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: P940562

Luminaire Tested: **GALN-SB3C-940-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940562
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-SB3C-940-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 90 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16140 lumens
Efficiency: N/A
Efficacy: 108.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G3

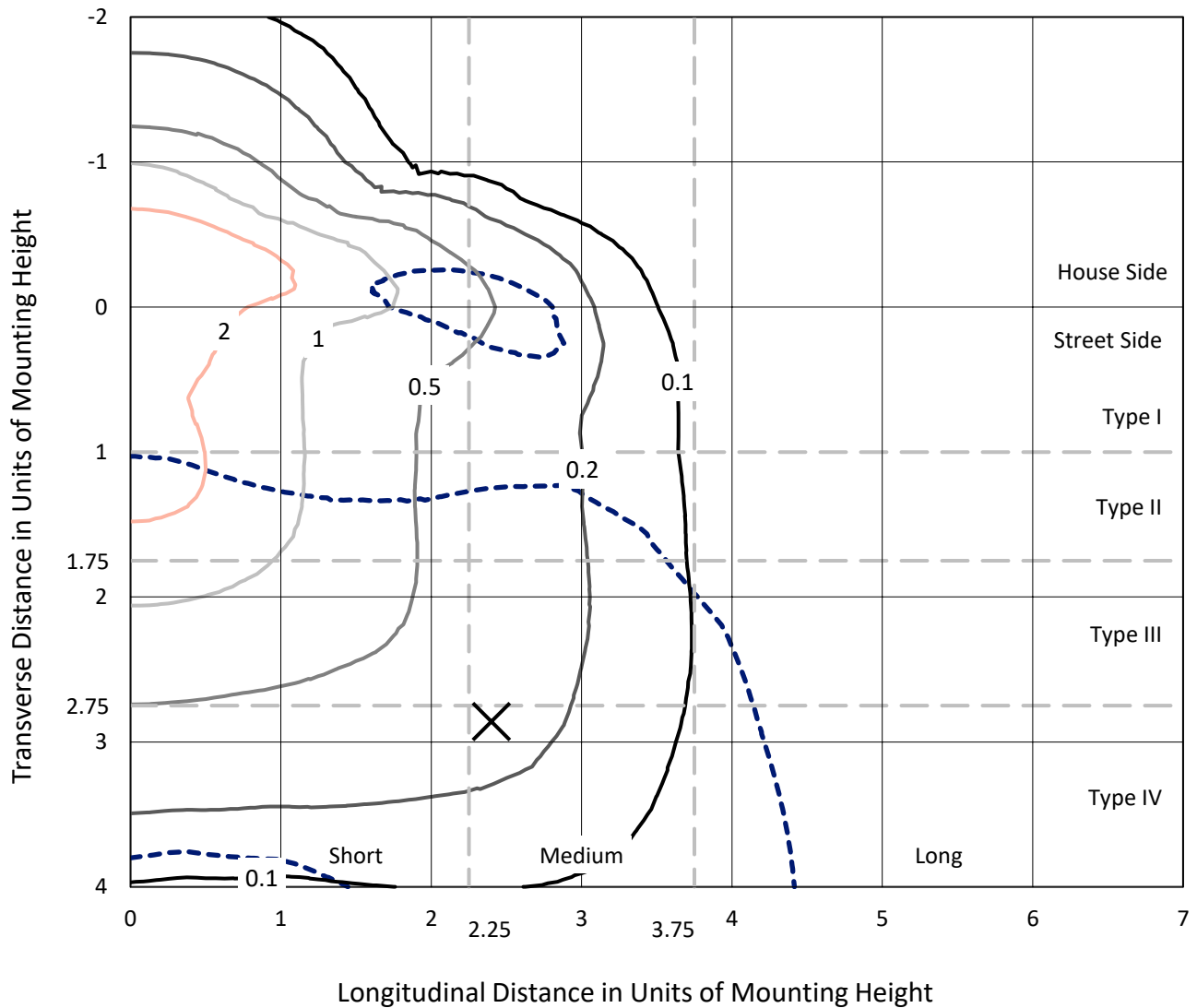
Input Watts (W): 149.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

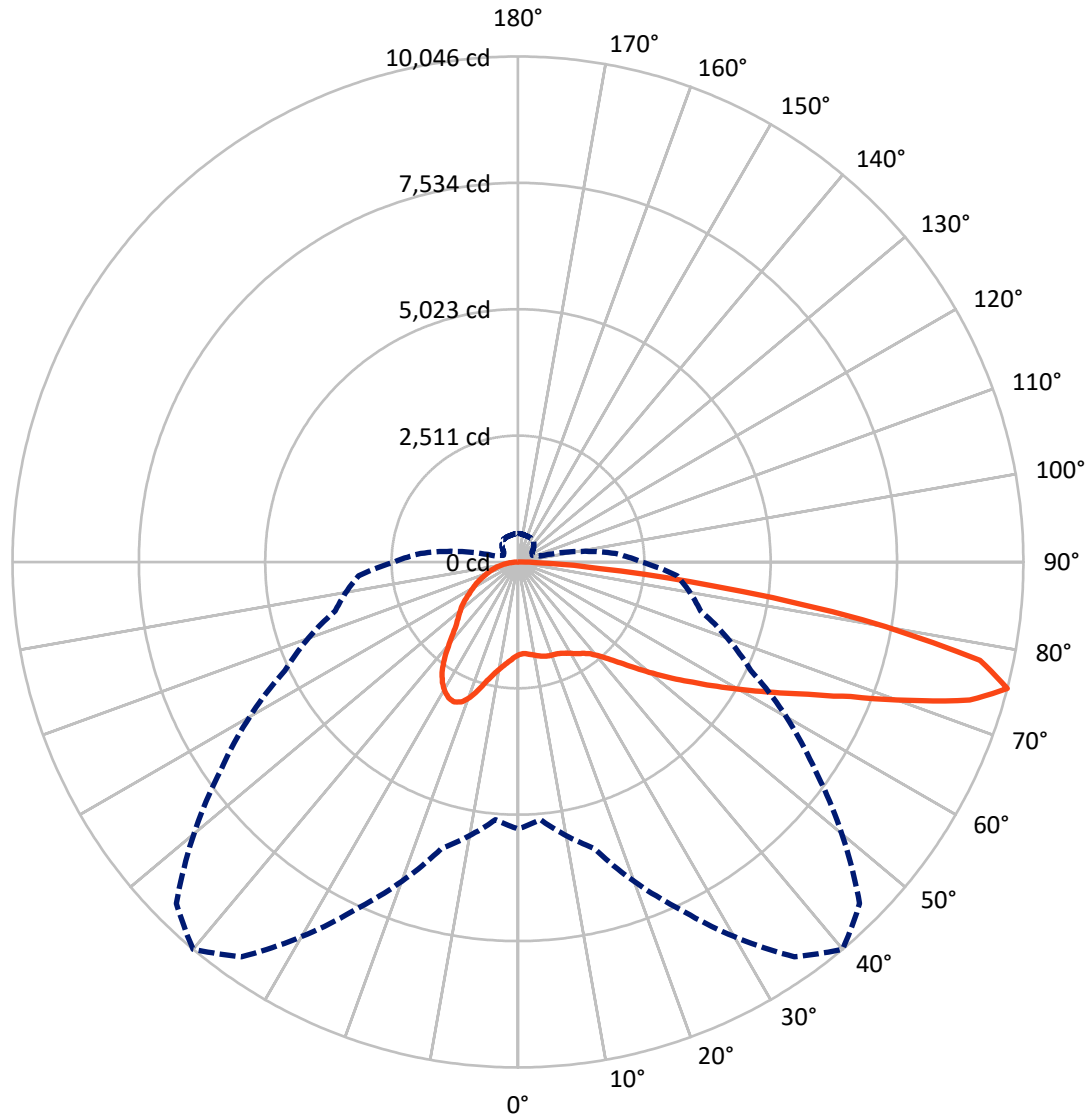
✕ Max cd
 - - - 1/2 Max cd



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	5000.7	0.0	5000.7
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	11139.3	0.0	11139.3
	% Fixture	69.0	0.0	69.0
Total	Lumens	16140.0	0.0	16140.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.2	1.1
10°-20°	618.5	3.8
20°-30°	1129.4	7.0
30°-40°	1601.8	9.9
40°-50°	2162.9	13.4
50°-60°	2909.7	18.0
60°-70°	3693.1	22.9
70°-80°	3351.7	20.8
80°-90°	488.6	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°	16140.0	100.0
0°-180°	16140.0	100.0



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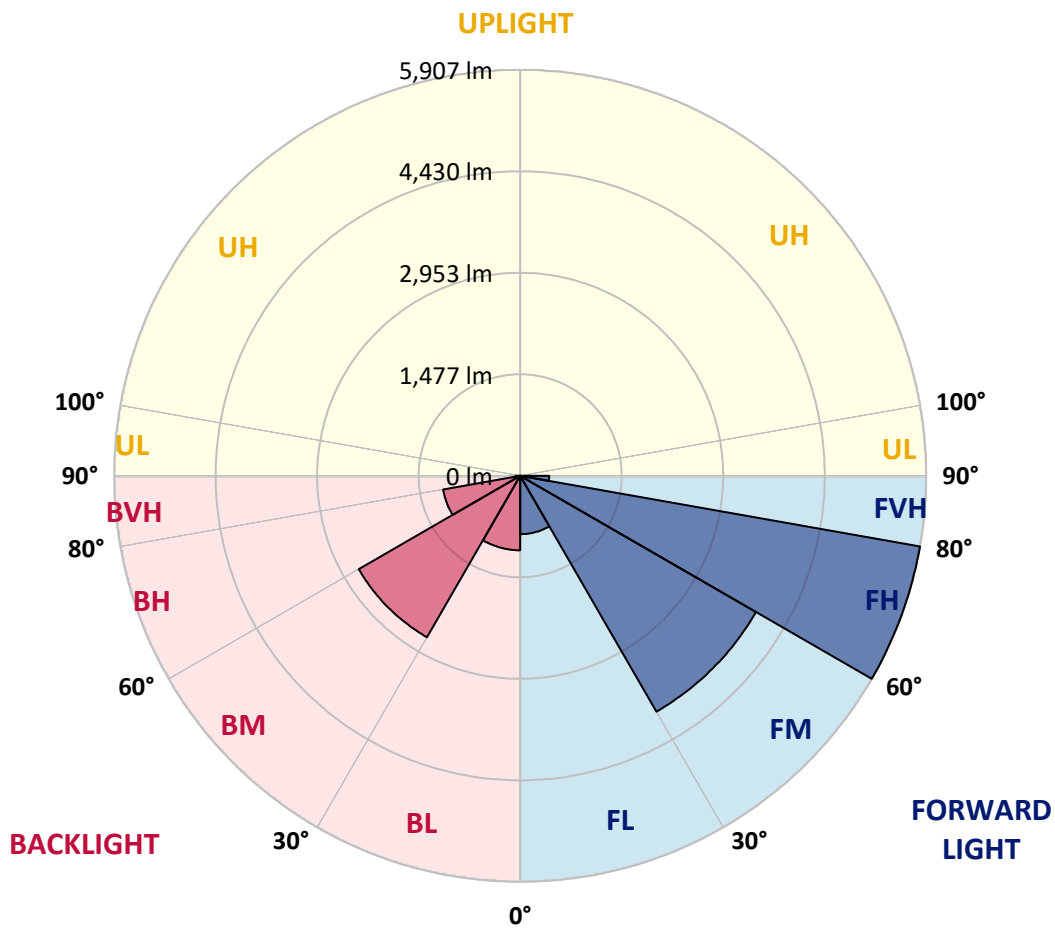
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	849.0	5.3			
FM (30°-60°)	3962.0	24.5			
FH (60°-80°)	5907.0	36.6			G3/7500
FVH (80°-90°)	421.3	2.6			G3/500
BL (0°-30°)	1083.2	6.7	B3/2500		
BM (30°-60°)	2712.4	16.8	B3/5000		
BH (60°-80°)	1137.8	7.0	B3/2500		G3/2500
BVH (80°-90°)	67.3	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°	1845.6	1845.6	1845.6	1845.6	1845.6	1845.6	1845.6	1845.6	1845.6	1845.6
2.5°	1817.4	1827.7	1825.1	1821.7	1821.7	1821.7	1821.7	1827.7	1833.6	1839.6
5°	1836.2	1846.5	1841.4	1837.1	1833.6	1833.6	1830.2	1829.4	1832.8	1840.5
7.5°	1873.0	1883.3	1875.6	1867.9	1861.0	1857.6	1854.2	1849.1	1846.5	1850.8
10°	1914.1	1924.4	1915.0	1901.3	1890.1	1885.9	1882.4	1877.3	1873.9	1876.4
12.5°	1955.2	1965.5	1952.6	1933.8	1919.3	1916.7	1912.4	1910.7	1909.8	1909.0
15°	1993.7	2002.3	1986.0	1963.8	1948.4	1944.1	1939.8	1942.4	1946.6	1951.8
17.5°	2023.7	2032.2	2008.3	1979.2	1964.6	1962.9	1960.3	1968.9	1980.9	1993.7
20°	2051.1	2059.6	2028.8	1989.4	1972.3	1972.3	1973.2	1991.2	2008.3	2027.1
22.5°	2089.6	2096.5	2058.8	2004.9	1980.0	1981.7	1988.6	2006.6	2028.0	2053.6
25°	2147.0	2152.1	2105.9	2034.0	2005.7	2010.8	2016.8	2025.4	2045.9	2075.9
27.5°	2239.4	2243.7	2182.9	2085.3	2042.5	2051.1	2059.6	2053.6	2063.1	2088.7
30°	2369.5	2372.1	2295.1	2165.8	2105.0	2109.3	2111.0	2086.2	2068.2	2088.7
32.5°	2523.6	2522.8	2431.2	2263.4	2176.1	2171.8	2157.2	2108.4	2066.5	2084.5
35°	2762.5	2753.0	2634.9	2400.3	2256.5	2230.0	2195.8	2133.3	2075.1	2080.2
37.5°	3157.9	3128.8	2965.3	2624.6	2376.4	2308.8	2258.2	2173.5	2093.9	2078.5
40°	3603.9	3567.1	3387.4	2932.0	2556.1	2447.4	2366.1	2230.9	2124.7	2086.2
42.5°	4133.0	4080.8	3887.3	3294.1	2783.9	2626.3	2503.9	2303.6	2170.1	2111.0
45°	4782.7	4713.4	4439.4	3702.4	3070.6	2860.9	2697.4	2414.0	2239.4	2158.9
47.5°	5439.3	5456.4	5066.9	4169.8	3414.8	3150.2	2939.7	2580.1	2340.4	2236.0
50°	6137.0	6149.0	5691.0	4687.7	3805.1	3477.3	3211.9	2765.9	2480.8	2345.6
52.5°	6681.4	6683.1	6257.7	5229.6	4211.7	3836.8	3505.5	2978.2	2643.5	2491.1
55°	7022.1	7017.8	6654.9	5742.3	4679.1	4214.3	3830.8	3219.6	2842.1	2662.3
57.5°	7269.5	7256.7	6928.8	6183.2	5177.4	4660.3	4198.9	3493.5	3076.6	2866.0
60°	7363.7	7356.0	7114.6	6564.1	5701.3	5153.4	4623.5	3800.0	3342.9	3106.6
62.5°	7399.6	7414.2	7296.9	6933.1	6262.0	5699.5	5090.0	4166.4	3642.5	3378.8
65°	7526.3	7552.9	7528.9	7415.9	6895.4	6339.0	5709.0	4602.1	3969.5	3670.7
67.5°	7777.2	7803.7	7814.0	7993.7	7669.3	7136.0	6481.1	5144.8	4352.1	3973.8
70°	7771.2	7763.5	7944.9	8453.4	8638.3	8239.4	7522.1	5812.5	4808.4	4225.4
72.5°	7073.5	7011.9	7440.7	8448.3	9444.7	9391.7	8793.3	6673.7	5202.2	4256.2
75°	5306.6	5142.3	5899.9	7613.7	9579.1	10045.7	9601.4	7207.9	5108.9	3760.6
77.5°	2269.4	2104.2	2997.0	5636.2	8573.3	9390.8	8860.1	6288.5	4078.2	2486.8
80°	594.1	593.2	905.7	2555.3	5830.5	6934.8	6083.9	4061.1	2330.2	888.6
82.5°	245.7	239.7	333.0	993.9	2848.9	3891.6	3175.9	1811.4	841.5	240.5
85°	91.6	90.7	161.8	343.3	1005.0	1605.1	1161.7	463.1	209.7	117.3
87.5°	25.7	24.8	35.1	119.0	244.8	371.5	198.6	76.2	59.1	46.2
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°
1845.6	0°	1845.6	1845.6	1845.6	1845.6	1845.6	1845.6	1845.6	1845.6	1845.6	1845.6
1849.1	2.5°	1851.6	1855.9	1863.6	1869.6	1877.3	1885.9	1897.8	1905.6	1913.3	1918.4
1853.3	5°	1859.3	1868.7	1888.4	1908.1	1931.2	1952.6	1977.5	1995.4	2010.0	2014.3
1868.7	7.5°	1876.4	1891.9	1925.2	1958.6	1995.4	2030.5	2066.5	2097.3	2122.1	2131.5
1896.1	10°	1906.4	1927.0	1974.0	2021.1	2069.9	2123.8	2170.1	2214.6	2249.7	2264.2
1928.7	12.5°	1944.1	1969.8	2031.4	2096.5	2164.1	2238.6	2298.5	2353.3	2396.9	2416.6
1974.0	15°	1992.9	2026.3	2105.0	2192.3	2291.6	2395.2	2471.4	2532.2	2581.0	2604.9
2021.1	17.5°	2045.9	2090.5	2189.8	2321.6	2463.7	2599.8	2688.8	2733.3	2783.9	2807.0
2064.8	20°	2097.3	2152.1	2294.2	2486.0	2675.1	2819.8	2891.7	2903.7	2907.1	2909.7
2105.9	22.5°	2150.4	2224.0	2425.2	2693.1	2896.0	2996.2	3006.4	2955.1	2883.2	2849.8
2146.1	25°	2208.6	2306.2	2596.4	2921.7	3086.0	3098.0	3019.3	2894.3	2758.2	2695.7
2178.6	27.5°	2265.1	2401.2	2801.8	3140.0	3223.0	3117.7	2948.2	2771.0	2606.7	2540.7
2201.7	30°	2321.6	2509.9	3028.7	3330.9	3285.5	3068.9	2836.1	2638.3	2473.1	2403.8
2222.3	32.5°	2378.9	2636.6	3289.8	3468.7	3274.4	2965.3	2696.5	2489.4	2343.8	2271.1
2240.3	35°	2444.0	2792.4	3537.2	3544.0	3199.9	2813.0	2512.5	2311.3	2184.6	2126.4
2261.7	37.5°	2528.8	2990.2	3755.5	3562.9	3069.8	2589.5	2283.9	2100.7	1996.3	1969.8
2293.3	40°	2634.0	3228.1	3922.4	3532.9	2877.2	2318.2	2034.0	1887.6	1828.5	1834.5
2336.1	42.5°	2771.0	3494.4	4039.7	3455.8	2609.2	2038.2	1814.8	1749.8	1778.0	1802.0
2400.3	45°	2949.1	3770.9	4112.4	3324.9	2306.2	1801.1	1685.6	1701.0	1722.4	1724.9
2503.9	47.5°	3176.8	4050.8	4160.4	3127.1	1997.2	1634.2	1603.4	1606.8	1602.5	1584.5
2658.9	50°	3461.0	4323.0	4203.2	2865.2	1734.3	1529.8	1488.7	1476.7	1417.6	1359.4
2865.2	52.5°	3784.6	4573.0	4221.2	2539.9	1529.8	1442.4	1375.7	1300.3	1189.9	1171.9
3124.6	55°	4144.1	4804.1	4174.9	2140.1	1357.7	1330.3	1229.3	1138.5	1126.6	1111.1
3466.1	57.5°	4573.8	5053.2	4080.8	1694.1	1181.3	1199.3	1100.9	1111.1	1089.7	1065.8
3905.3	60°	5043.8	5310.9	3915.5	1287.5	999.0	1035.8	1067.5	1066.6	1060.6	1040.9
4368.4	62.5°	5466.7	5480.4	3590.2	986.2	838.9	909.1	995.6	994.7	989.6	978.5
4852.1	65°	5718.4	5454.7	3047.5	776.4	707.1	804.7	898.0	904.8	905.7	904.8
5215.9	67.5°	5673.9	5154.2	2302.8	618.1	598.4	698.5	801.3	810.7	817.5	819.2
5262.1	70°	5170.5	4494.2	1501.5	493.1	501.6	605.2	709.7	719.1	725.1	731.9
4566.1	72.5°	4030.3	3304.3	859.5	398.9	416.9	524.8	618.9	630.0	633.5	646.3
3177.6	75°	2456.0	1943.2	464.0	314.2	342.4	448.6	529.0	541.9	547.9	563.3
1560.6	77.5°	1167.6	841.5	264.5	244.8	275.6	366.4	446.9	461.4	445.1	453.7
430.6	80°	394.6	312.5	166.9	186.6	210.6	285.9	357.8	372.4	338.1	336.4
143.0	82.5°	137.8	126.7	106.1	124.1	136.1	204.6	270.5	289.3	251.7	250.8
64.2	85°	53.9	51.4	59.1	67.6	81.3	125.8	178.1	187.5	154.9	125.0
18.8	87.5°	11.1	12.0	14.6	15.4	24.8	43.7	64.2	78.8	62.5	53.1
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>
1845.6
1915.0
2016.0
2132.4
2265.1
2416.6
2603.2
2806.1
2916.5
2859.2
2705.1
2548.4
2411.5
2280.5
2139.3
1988.6
1855.0
1824.2
1742.0
1598.2
1367.1
1177.9
1113.7
1061.5
1034.1
974.2
904.8
820.9
735.3
651.4
565.0
446.9
333.0
238.8
123.3
48.8
0.0

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