

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: P949239

Luminaire Tested: **GALN-SB4A-750-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949239
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-SB4A-750-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18983 lumens
Efficiency: N/A
Efficacy: 166.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

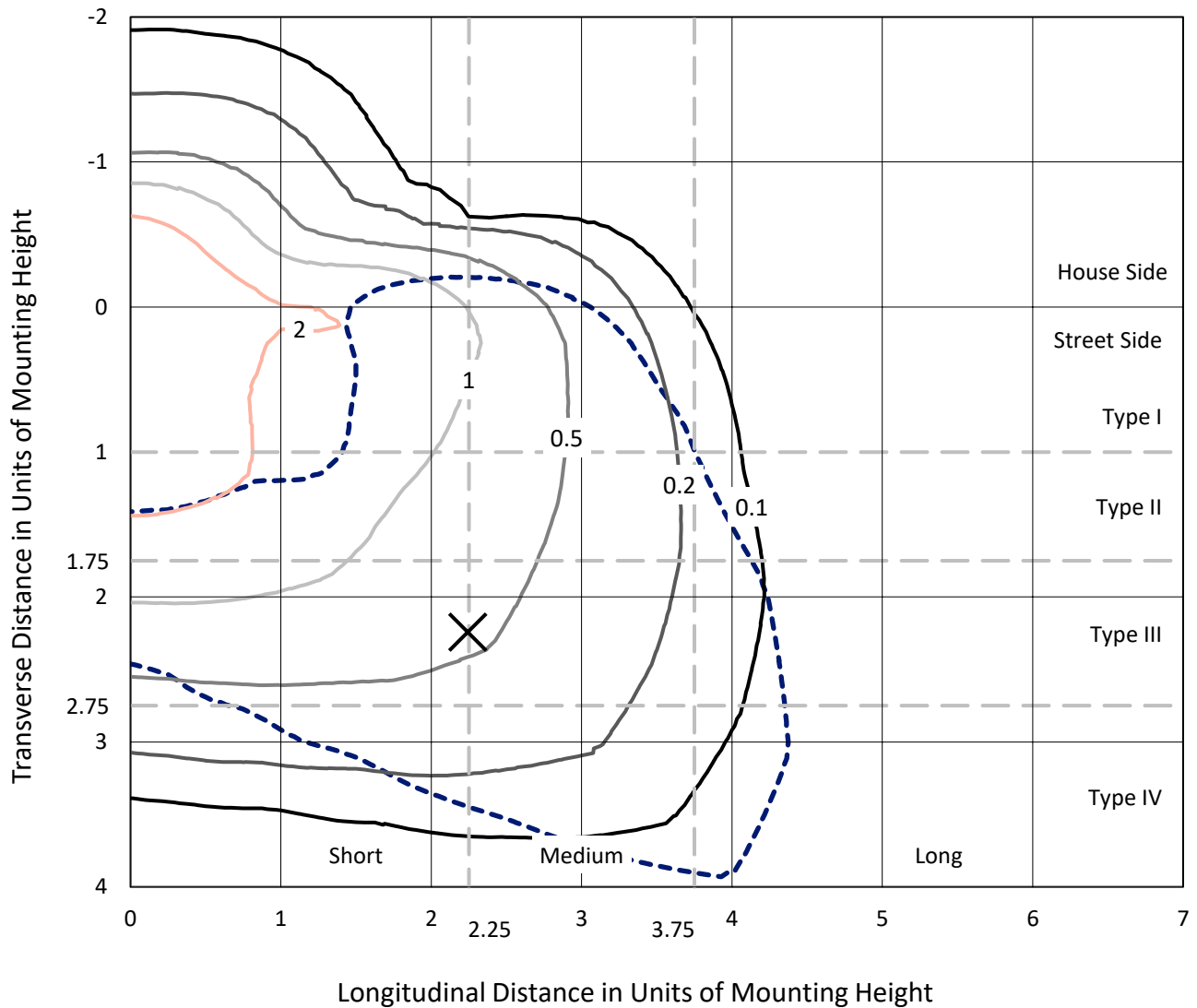
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

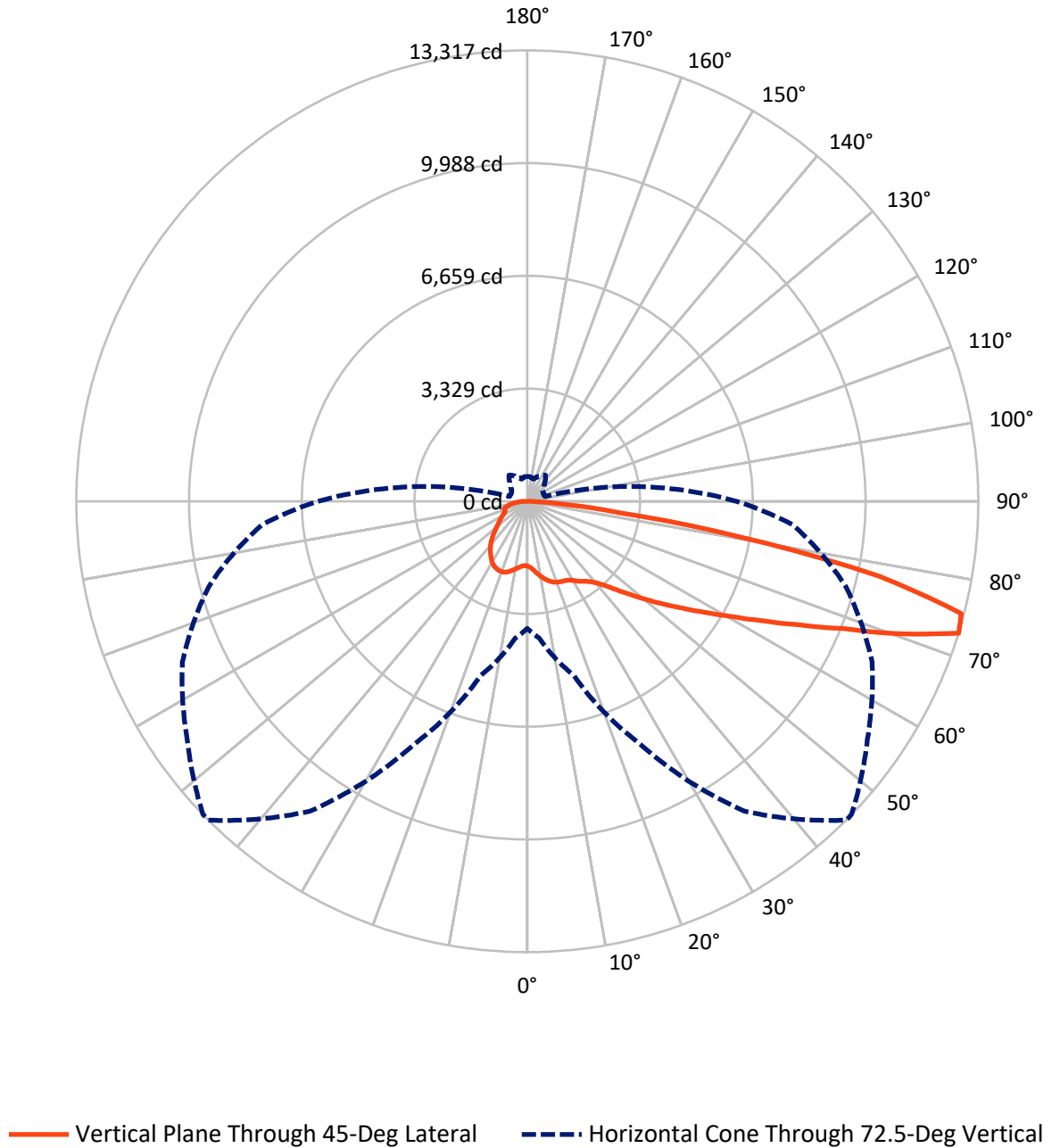
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4291.4	0.0	4291.4
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	14691.6	0.0	14691.6
	% Fixture	77.4	0.0	77.4
Total	Lumens	18983.0	0.0	18983.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.9	1.0
10°-20°	649.9	3.4
20°-30°	1130.5	6.0
30°-40°	1620.6	8.5
40°-50°	2281.9	12.0
50°-60°	3495.2	18.4
60°-70°	5063.3	26.7
70°-80°	4043.3	21.3
80°-90°	503.6	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°	18983.0	100.0
0°-180°	18983.0	100.0

Coefficient of Utilization



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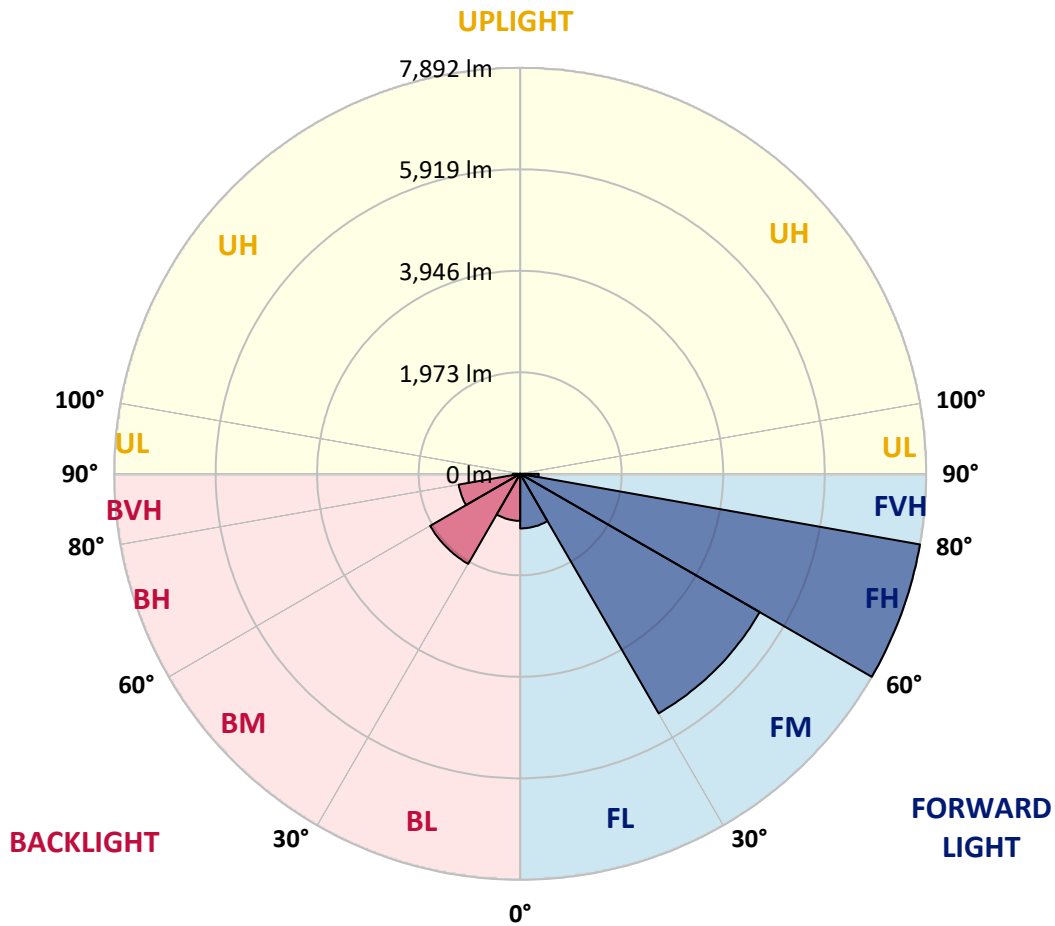
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1061.5	5.6			
FM (30°-60°)	5377.0	28.3			
FH (60°-80°)	7891.8	41.6			G4/12000
FVH (80°-90°)	361.3	1.9			G3/500
BL (0°-30°)	913.7	4.8	B2/1000		
BM (30°-60°)	2020.6	10.6	B2/2500		
BH (60°-80°)	1214.8	6.4	B3/2500		G3/2500
BVH (80°-90°)	142.3	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°	1915.0	1915.0	1915.0	1915.0	1915.0	1915.0	1915.0	1915.0	1915.0	1915.0
2.5°	1990.0	2003.0	1991.0	1980.0	1975.0	1962.0	1961.0	1953.0	1948.0	1934.0
5°	2129.0	2146.0	2126.0	2104.0	2084.0	2052.0	2048.0	2025.0	1999.0	1969.0
7.5°	2286.0	2301.0	2278.0	2245.0	2210.0	2157.0	2156.0	2114.0	2073.0	2022.0
10°	2423.0	2443.0	2412.0	2367.0	2323.0	2263.0	2256.0	2208.0	2156.0	2090.0
12.5°	2544.0	2558.0	2528.0	2473.0	2422.0	2362.0	2353.0	2300.0	2242.0	2167.0
15°	2640.0	2658.0	2618.0	2559.0	2505.0	2446.0	2438.0	2390.0	2332.0	2253.0
17.5°	2703.0	2718.0	2677.0	2611.0	2559.0	2510.0	2504.0	2464.0	2413.0	2333.0
20°	2727.0	2743.0	2700.0	2633.0	2585.0	2547.0	2544.0	2515.0	2480.0	2407.0
22.5°	2751.0	2766.0	2710.0	2640.0	2598.0	2574.0	2573.0	2554.0	2540.0	2480.0
25°	2848.0	2852.0	2777.0	2676.0	2616.0	2595.0	2594.0	2593.0	2599.0	2552.0
27.5°	2932.0	2931.0	2867.0	2772.0	2679.0	2635.0	2634.0	2644.0	2663.0	2624.0
30°	3055.0	3044.0	2968.0	2869.0	2784.0	2716.0	2710.0	2701.0	2716.0	2685.0
32.5°	3316.0	3281.0	3158.0	2982.0	2871.0	2819.0	2811.0	2755.0	2761.0	2742.0
35°	3690.0	3644.0	3480.0	3196.0	2979.0	2905.0	2901.0	2830.0	2818.0	2801.0
37.5°	4135.0	4078.0	3887.0	3506.0	3165.0	3005.0	2999.0	2935.0	2886.0	2868.0
40°	4582.0	4510.0	4352.0	3884.0	3439.0	3172.0	3153.0	3056.0	3000.0	2970.0
42.5°	5016.0	4956.0	4821.0	4308.0	3777.0	3416.0	3374.0	3208.0	3166.0	3138.0
45°	5400.0	5346.0	5247.0	4761.0	4173.0	3748.0	3707.0	3436.0	3423.0	3423.0
47.5°	5712.0	5700.0	5595.0	5223.0	4640.0	4126.0	4055.0	3753.0	3788.0	3842.0
50°	6058.0	6025.0	5913.0	5678.0	5189.0	4559.0	4501.0	4142.0	4273.0	4421.0
52.5°	6376.1	6394.1	6269.0	6152.0	5809.0	5042.0	4940.0	4601.0	4884.0	5129.0
55°	6703.1	6704.1	6669.1	6653.1	6459.1	5576.0	5464.0	5153.0	5603.0	5907.0
57.5°	7010.1	7012.1	7064.1	7205.1	7213.1	6192.0	6065.0	5831.0	6402.1	6712.1
60°	7284.1	7298.1	7440.1	7770.1	7876.1	6898.1	6778.1	6632.1	7228.1	7540.1
62.5°	7376.1	7427.1	7743.1	8212.1	8531.1	7764.1	7646.1	7559.1	8096.1	8386.1
65°	7220.1	7337.1	7948.1	8577.1	9205.1	8793.1	8676.1	8581.1	8998.1	9271.1
67.5°	6837.1	6988.1	7936.1	8960.1	10023.1	10031.1	9922.1	9699.1	9965.1	10070.1
70°	5828.0	6054.0	7237.1	9103.1	10962.1	11724.1	11619.1	11045.1	10930.1	10422.1
72.5°	3755.0	4059.0	5329.0	7926.1	11171.1	13317.1	13311.1	12260.1	11235.1	9738.1
75°	1370.0	1556.0	2476.0	4975.0	9377.1	13236.1	13275.1	12052.1	10256.1	7522.1
77.5°	499.0	546.0	808.0	1912.0	5767.0	10620.1	10701.1	9635.1	7300.1	3775.0
80°	262.0	288.0	414.0	742.0	2471.0	6307.1	6434.1	5726.0	3431.0	1137.0
82.5°	145.0	157.0	232.0	403.0	1113.0	2697.0	2773.0	2262.0	1207.0	482.0
85°	78.0	83.0	109.0	220.0	544.0	935.0	956.0	676.0	481.0	283.0
87.5°	23.0	28.0	36.0	70.0	213.0	210.0	215.0	134.0	190.0	143.0
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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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1915.0	0°	1915.0	1915.0	1915.0	1915.0	1915.0	1915.0	1915.0	1915.0	1915.0	1915.0
1930.0	2.5°	1924.0	1921.0	1910.0	1905.0	1899.0	1898.0	1903.0	1904.0	1905.0	1906.0
1952.0	5°	1942.0	1932.0	1922.0	1916.0	1918.0	1919.0	1929.0	1936.0	1941.0	1945.0
1993.0	7.5°	1977.0	1969.0	1952.0	1951.0	1954.0	1963.0	1976.0	1992.0	2001.0	2008.0
2046.0	10°	2029.0	2014.0	1994.0	1997.0	2003.0	2016.0	2043.0	2056.0	2071.0	2084.0
2111.0	12.5°	2082.0	2069.0	2046.0	2048.0	2058.0	2081.0	2107.0	2123.0	2133.0	2143.0
2181.0	15°	2151.0	2128.0	2103.0	2103.0	2121.0	2146.0	2158.0	2171.0	2177.0	2188.0
2256.0	17.5°	2222.0	2192.0	2159.0	2157.0	2179.0	2191.0	2198.0	2200.0	2202.0	2214.0
2329.0	20°	2293.0	2260.0	2213.0	2209.0	2214.0	2212.0	2211.0	2209.0	2212.0	2227.0
2404.0	22.5°	2363.0	2325.0	2260.0	2242.0	2228.0	2209.0	2208.0	2207.0	2209.0	2224.0
2485.0	25°	2445.0	2399.0	2312.0	2258.0	2211.0	2185.0	2188.0	2189.0	2191.0	2203.0
2569.0	27.5°	2534.0	2483.0	2360.0	2253.0	2168.0	2150.0	2145.0	2148.0	2155.0	2174.0
2653.0	30°	2623.0	2563.0	2404.0	2233.0	2114.0	2089.0	2073.0	2080.0	2102.0	2121.0
2726.0	32.5°	2704.0	2644.0	2439.0	2189.0	2045.0	2006.0	1985.0	1994.0	2016.0	2023.0
2807.0	35°	2799.0	2731.0	2454.0	2119.0	1970.0	1910.0	1882.0	1869.0	1880.0	1873.0
2902.0	37.5°	2905.0	2834.0	2452.0	2027.0	1882.0	1813.0	1774.0	1725.0	1702.0	1678.0
3042.0	40°	3062.0	2960.0	2428.0	1916.0	1773.0	1710.0	1640.0	1557.0	1505.0	1458.0
3268.0	42.5°	3276.0	3135.0	2384.0	1794.0	1650.0	1591.0	1496.0	1399.0	1317.0	1239.0
3611.0	45°	3595.0	3364.0	2329.0	1664.0	1517.0	1459.0	1356.0	1247.0	1154.0	1054.0
4098.0	47.5°	4055.0	3672.0	2277.0	1516.0	1377.0	1324.0	1231.0	1130.0	1020.0	923.0
4802.0	50°	4687.0	4114.0	2229.0	1372.0	1239.0	1199.0	1125.0	1022.0	911.0	833.0
5627.0	52.5°	5491.0	4715.0	2209.0	1233.0	1110.0	1095.0	1036.0	940.0	835.0	769.0
6589.1	55°	6414.1	5434.0	2209.0	1100.0	997.0	1002.0	961.0	872.0	781.0	722.0
7581.1	57.5°	7356.1	6162.0	2169.0	977.0	901.0	922.0	896.0	818.0	736.0	675.0
8624.1	60°	8224.1	6772.1	2007.0	865.0	816.0	849.0	832.0	765.0	665.0	614.0
9496.1	62.5°	8891.1	7116.1	1695.0	776.0	746.0	784.0	775.0	695.0	652.0	631.0
10212.1	65°	9225.1	7060.1	1296.0	697.0	687.0	746.0	727.0	724.0	690.0	666.0
10445.1	67.5°	9020.1	6578.1	940.0	639.0	653.0	711.0	784.0	796.0	733.0	686.0
9789.1	70°	8121.1	5706.0	700.0	584.0	610.0	712.0	894.0	833.0	719.0	664.0
7851.1	72.5°	6178.0	4255.0	543.0	526.0	554.0	717.0	943.0	816.0	679.0	734.0
4891.0	75°	3533.0	2336.0	436.0	455.0	484.0	670.0	918.0	772.0	648.0	674.0
1938.0	77.5°	1347.0	898.0	360.0	385.0	389.0	585.0	878.0	769.0	617.0	602.0
581.0	80°	467.0	351.0	298.0	306.0	301.0	520.0	842.0	669.0	505.0	452.0
240.0	82.5°	191.0	175.0	236.0	226.0	214.0	404.0	680.0	547.0	413.0	365.0
116.0	85°	83.0	111.0	156.0	137.0	124.0	280.0	545.0	463.0	349.0	301.0
38.0	87.5°	17.0	42.0	66.0	62.0	64.0	187.0	387.0	329.0	247.0	185.0
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>
1915.0
1910.0
1947.0
2010.0
2081.0
2147.0
2192.0
2218.0
2233.0
2234.0
2219.0
2193.0
2142.0
2048.0
1895.0
1693.0
1461.0
1232.0
1042.0
912.0
828.0
764.0
716.0
665.0
606.0
624.0
658.0
678.0
655.0
728.0
674.0
549.0
437.0
361.0
300.0
145.0
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