

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: P947517

Luminaire Tested: **GALN-SB2D-830-U-T4W**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P947517  
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-830-U-T4W  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

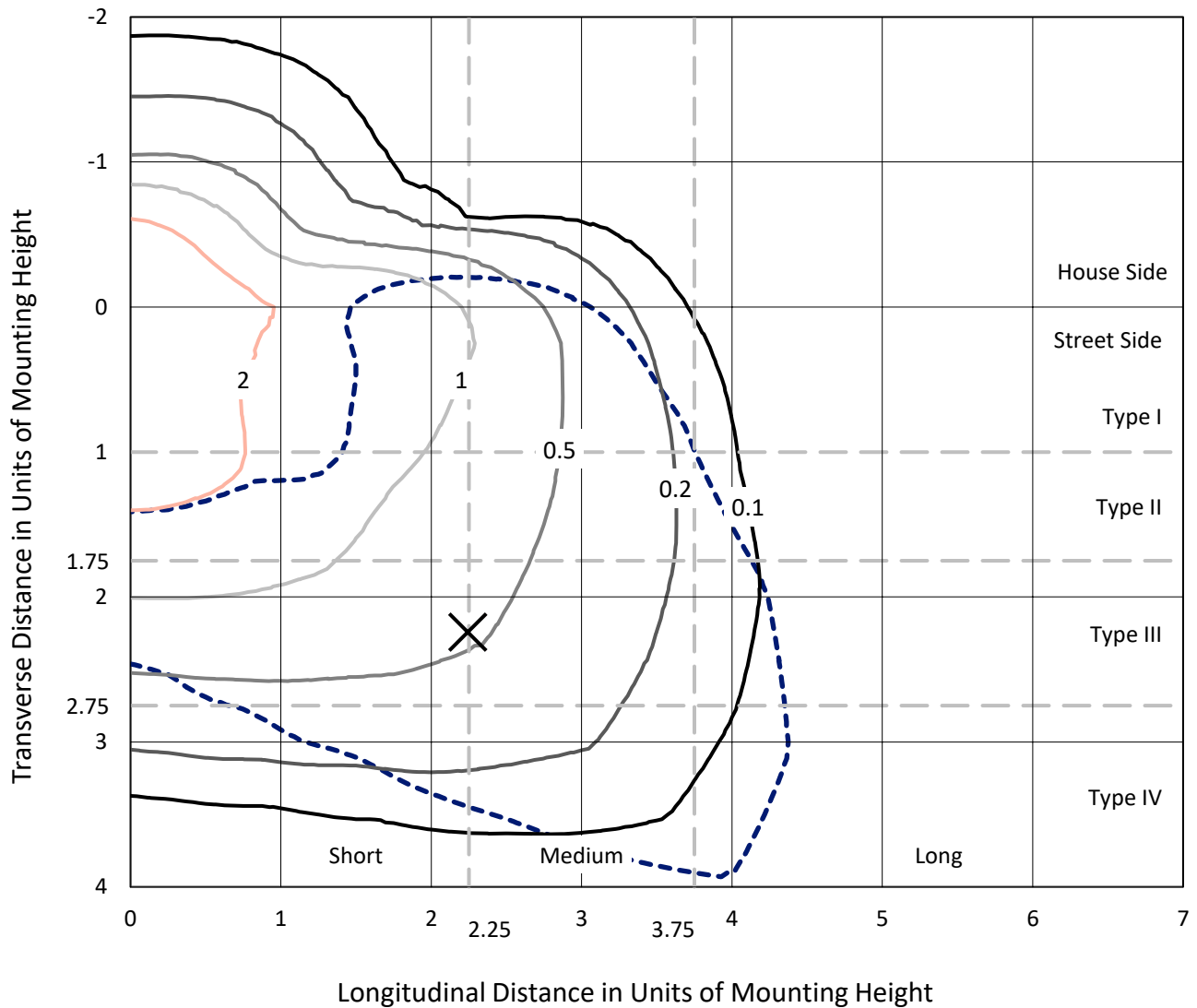
Lumens per Lamp: N/A  
Luminaire Lumens: 18250 lumens  
Efficiency: N/A  
Efficacy: 123.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 147.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

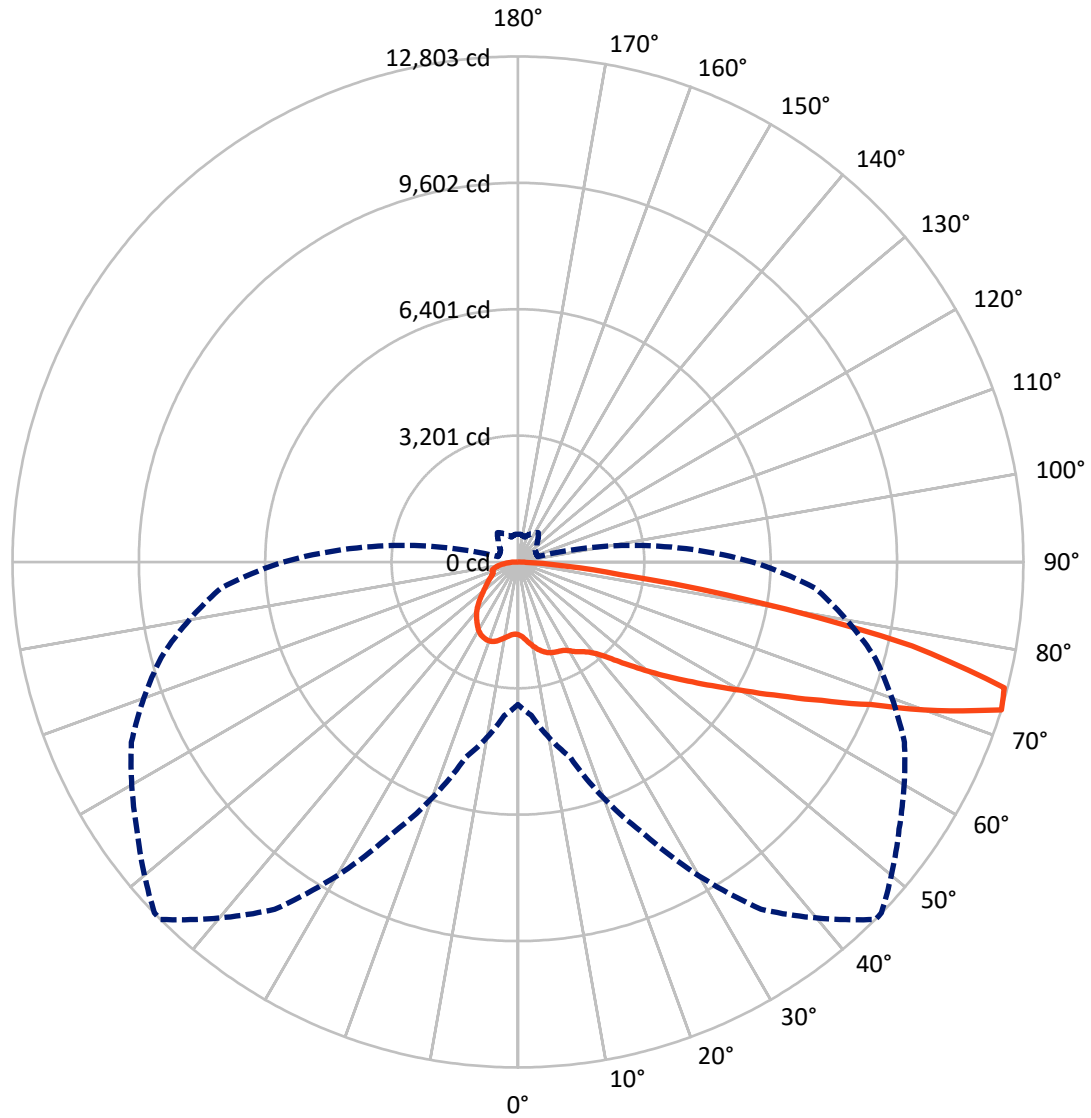
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4125.7	0.0	4125.7
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	14124.3	0.0	14124.3
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	18250.0	0.0	18250.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	187.4	1.0
10°-20°	624.8	3.4
20°-30°	1086.8	6.0
30°-40°	1558.0	8.5
40°-50°	2193.8	12.0
50°-60°	3360.2	18.4
60°-70°	4867.8	26.7
70°-80°	3887.2	21.3
80°-90°	484.1	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°	18250.0	100.0
0°-180°	18250.0	100.0

**Coefficient of Utilization**



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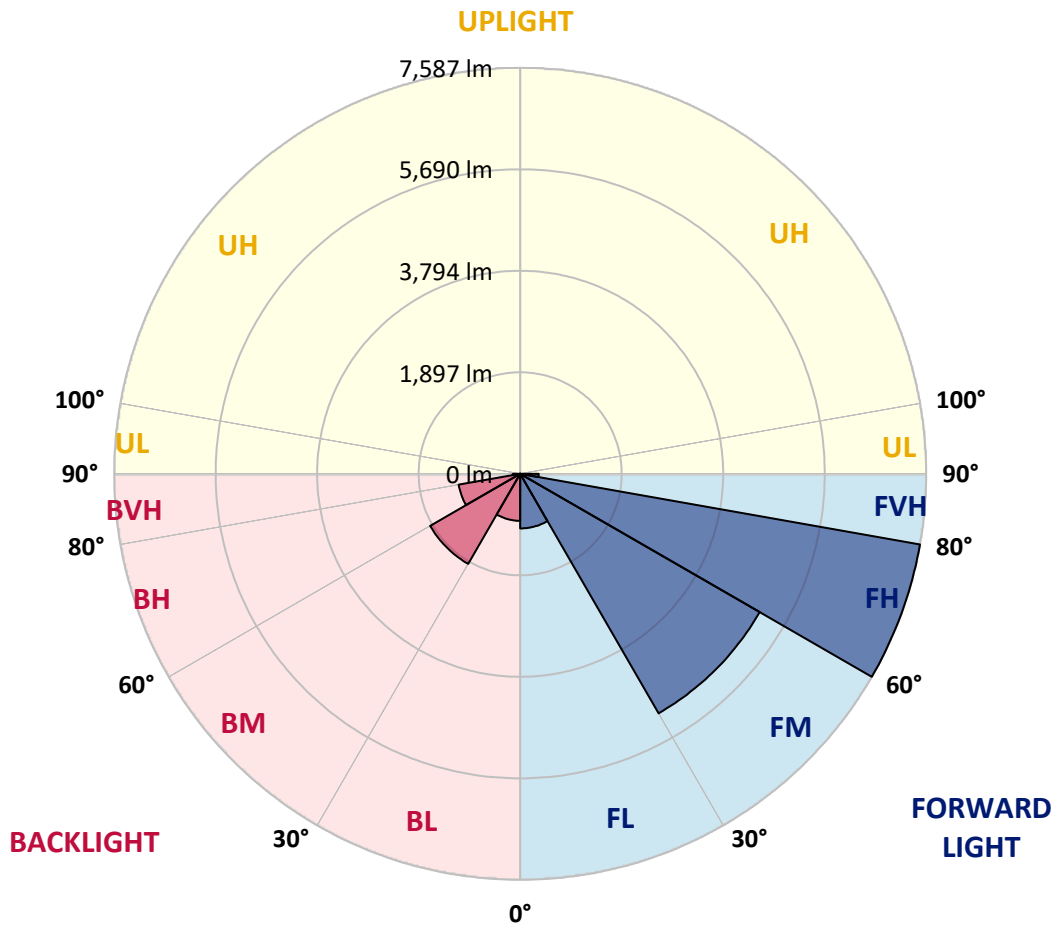
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1020.6	5.6			
FM (30°-60°)	5169.4	28.3			
FH (60°-80°)	7587.1	41.6			G4/12000
FVH (80°-90°)	347.3	1.9			G3/500
BL (0°-30°)	878.4	4.8	B2/1000		
BM (30°-60°)	1942.6	10.6	B2/2500		
BH (60°-80°)	1167.9	6.4	B3/2500		G3/2500
BVH (80°-90°)	136.8	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°	1841.1	1841.1	1841.1	1841.1	1841.1	1841.1	1841.1	1841.1	1841.1	1841.1
2.5°	1913.2	1925.7	1914.1	1903.6	1898.8	1886.3	1885.3	1877.6	1872.8	1859.3
5°	2046.8	2063.2	2043.9	2022.8	2003.5	1972.8	1968.9	1946.8	1921.8	1893.0
7.5°	2197.7	2212.2	2190.1	2158.3	2124.7	2073.7	2072.8	2032.4	1993.0	1943.9
10°	2329.5	2348.7	2318.9	2275.6	2233.3	2175.6	2168.9	2122.8	2072.8	2009.3
12.5°	2445.8	2459.2	2430.4	2377.5	2328.5	2270.8	2262.2	2211.2	2155.4	2083.3
15°	2538.1	2555.4	2516.9	2460.2	2408.3	2351.6	2343.9	2297.7	2242.0	2166.0
17.5°	2598.6	2613.1	2573.7	2510.2	2460.2	2413.1	2407.3	2368.9	2319.8	2242.9
20°	2621.7	2637.1	2595.8	2531.4	2485.2	2448.7	2445.8	2417.9	2384.3	2314.1
22.5°	2644.8	2659.2	2605.4	2538.1	2497.7	2474.6	2473.7	2455.4	2441.9	2384.3
25°	2738.1	2741.9	2669.8	2572.7	2515.0	2494.8	2493.9	2492.9	2498.7	2453.5
27.5°	2818.8	2817.8	2756.3	2665.0	2575.6	2533.3	2532.3	2541.9	2560.2	2522.7
30°	2937.1	2926.5	2853.4	2758.2	2676.5	2611.1	2605.4	2596.7	2611.1	2581.3
32.5°	3188.0	3154.3	3036.1	2866.9	2760.2	2710.2	2702.5	2648.6	2654.4	2636.1
35°	3547.5	3503.3	3345.7	3072.6	2864.0	2792.8	2789.0	2720.7	2709.2	2692.9
37.5°	3975.4	3920.6	3736.9	3370.6	3042.8	2889.0	2883.2	2821.7	2774.6	2757.3
40°	4405.1	4335.9	4184.0	3734.1	3306.2	3049.5	3031.3	2938.0	2884.2	2855.3
42.5°	4822.4	4764.7	4634.9	4141.7	3631.2	3284.1	3243.7	3084.2	3043.8	3016.9
45°	5191.5	5139.6	5044.4	4577.2	4011.9	3603.3	3563.9	3303.4	3290.9	3290.9
47.5°	5491.5	5479.9	5379.0	5021.4	4460.9	3966.7	3898.5	3608.1	3641.8	3693.7
50°	5824.1	5792.4	5684.7	5458.8	4988.7	4383.0	4327.2	3982.1	4108.0	4250.3
52.5°	6129.8	6147.2	6027.0	5914.5	5584.7	4847.3	4749.3	4423.4	4695.4	4931.0
55°	6444.2	6445.2	6411.5	6396.2	6209.6	5360.7	5253.1	4954.1	5386.7	5679.0
57.5°	6739.4	6741.3	6791.3	6926.8	6934.5	5953.0	5830.9	5605.9	6154.8	6452.9
60°	7002.8	7016.3	7152.8	7470.0	7571.9	6631.7	6516.3	6376.0	6949.0	7248.9
62.5°	7091.2	7140.3	7444.1	7895.0	8201.7	7464.3	7350.8	7267.2	7783.4	8062.3
65°	6941.3	7053.7	7641.2	8245.9	8849.6	8453.5	8341.1	8249.7	8650.6	8913.1
67.5°	6573.1	6718.2	7629.6	8614.1	9636.1	9643.7	9539.0	9324.6	9580.3	9681.2
70°	5603.0	5820.3	6957.6	8751.6	10538.8	11271.4	11170.4	10618.6	10508.0	10019.6
72.5°	3610.0	3902.3	5123.3	7620.0	10739.7	12802.9	12797.1	11786.7	10801.3	9362.1
75°	1317.1	1495.9	2380.4	4782.9	9015.0	12725.0	12762.5	11586.7	9860.1	7231.6
77.5°	479.7	524.9	776.8	1838.2	5544.4	10210.0	10287.9	9263.0	7018.2	3629.3
80°	251.9	276.9	398.0	713.4	2375.6	6063.5	6185.6	5504.9	3298.5	1093.1
82.5°	139.4	150.9	223.0	387.4	1070.0	2592.9	2665.9	2174.7	1160.4	463.4
85°	75.0	79.8	104.8	211.5	523.0	898.9	919.1	649.9	462.4	272.1
87.5°	22.1	26.9	34.6	67.3	204.8	201.9	206.7	128.8	182.7	137.5
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°
1841.1	0°	1841.1	1841.1	1841.1	1841.1	1841.1	1841.1	1841.1	1841.1	1841.1	1841.1
1855.5	2.5°	1849.7	1846.8	1836.3	1831.5	1825.7	1824.7	1829.5	1830.5	1831.5	1832.4
1876.6	5°	1867.0	1857.4	1847.8	1842.0	1844.0	1844.9	1854.5	1861.3	1866.1	1869.9
1916.1	7.5°	1900.7	1893.0	1876.6	1875.7	1878.6	1887.2	1899.7	1915.1	1923.7	1930.5
1967.0	10°	1950.7	1936.2	1917.0	1919.9	1925.7	1938.2	1964.1	1976.6	1991.0	2003.5
2029.5	12.5°	2001.6	1989.1	1967.0	1968.9	1978.5	2000.7	2025.7	2041.0	2050.7	2060.3
2096.8	15°	2068.0	2045.8	2021.8	2021.8	2039.1	2063.2	2074.7	2087.2	2093.0	2103.5
2168.9	17.5°	2136.2	2107.4	2075.6	2073.7	2094.9	2106.4	2113.1	2115.1	2117.0	2128.5
2239.1	20°	2204.5	2172.8	2127.6	2123.7	2128.5	2126.6	2125.6	2123.7	2126.6	2141.0
2311.2	22.5°	2271.8	2235.2	2172.8	2155.4	2142.0	2123.7	2122.8	2121.8	2123.7	2138.1
2389.1	25°	2350.6	2306.4	2222.7	2170.8	2125.6	2100.6	2103.5	2104.5	2106.4	2118.0
2469.8	27.5°	2436.2	2387.1	2268.9	2166.0	2084.3	2067.0	2062.2	2065.1	2071.8	2090.1
2550.6	30°	2521.7	2464.1	2311.2	2146.8	2032.4	2008.4	1993.0	1999.7	2020.9	2039.1
2620.8	32.5°	2599.6	2541.9	2344.8	2104.5	1966.1	1928.6	1908.4	1917.0	1938.2	1944.9
2698.6	35°	2690.9	2625.6	2359.3	2037.2	1893.9	1836.3	1809.3	1796.8	1807.4	1800.7
2790.0	37.5°	2792.8	2724.6	2357.3	1948.7	1809.3	1743.0	1705.5	1658.4	1636.3	1613.2
2924.6	40°	2943.8	2845.7	2334.3	1842.0	1704.6	1644.0	1576.7	1496.9	1446.9	1401.7
3141.8	42.5°	3149.5	3014.0	2292.0	1724.7	1586.3	1529.6	1438.2	1345.0	1266.2	1191.2
3471.6	45°	3456.2	3234.1	2239.1	1599.8	1458.4	1402.7	1303.7	1198.9	1109.4	1013.3
3939.8	47.5°	3898.5	3530.2	2189.1	1457.5	1323.8	1272.9	1183.5	1086.4	980.6	887.4
4616.6	50°	4506.1	3955.2	2142.9	1319.0	1191.2	1152.7	1081.6	982.5	875.8	800.8
5409.8	52.5°	5279.0	4533.0	2123.7	1185.4	1067.1	1052.7	996.0	903.7	802.8	739.3
6334.6	55°	6166.4	5224.2	2123.7	1057.5	958.5	963.3	923.9	838.3	750.8	694.1
7288.3	57.5°	7072.0	5924.1	2085.3	939.3	866.2	886.4	861.4	786.4	707.6	648.9
8291.1	60°	7906.5	6510.6	1929.5	831.6	784.5	816.2	799.9	735.5	639.3	590.3
9129.4	62.5°	8547.8	6841.3	1629.6	746.0	717.2	753.7	745.1	668.2	626.8	606.6
9817.8	65°	8868.9	6787.4	1246.0	670.1	660.5	717.2	698.9	696.0	663.4	640.3
10041.8	67.5°	8671.8	6324.1	903.7	614.3	627.8	683.6	753.7	765.3	704.7	659.5
9411.1	70°	7807.5	5485.7	673.0	561.5	586.5	684.5	859.5	800.8	691.2	638.4
7547.9	72.5°	5939.5	4090.7	522.0	505.7	532.6	689.3	906.6	784.5	652.8	705.7
4702.2	75°	3396.6	2245.8	419.2	437.4	465.3	644.1	882.6	742.2	623.0	648.0
1863.2	77.5°	1295.0	863.3	346.1	370.1	374.0	562.4	844.1	739.3	593.2	578.8
558.6	80°	449.0	337.4	286.5	294.2	289.4	499.9	809.5	643.2	485.5	434.6
230.7	82.5°	183.6	168.2	226.9	217.3	205.7	388.4	653.7	525.9	397.1	350.9
111.5	85°	79.8	106.7	150.0	131.7	119.2	269.2	524.0	445.1	335.5	289.4
36.5	87.5°	16.3	40.4	63.5	59.6	61.5	179.8	372.1	316.3	237.5	177.9
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>
1841.1
1836.3
1871.8
1932.4
2000.7
2064.1
2107.4
2132.4
2146.8
2147.8
2133.3
2108.3
2059.3
1968.9
1821.8
1627.6
1404.6
1184.4
1001.8
876.8
796.0
734.5
688.4
639.3
582.6
599.9
632.6
651.8
629.7
699.9
648.0
527.8
420.1
347.1
288.4
139.4
0.0

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