

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: P948273

Luminaire Tested: **GALN-SB3B-840-U-T4W**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P948273  
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-SB3B-840-U-T4W  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 80 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

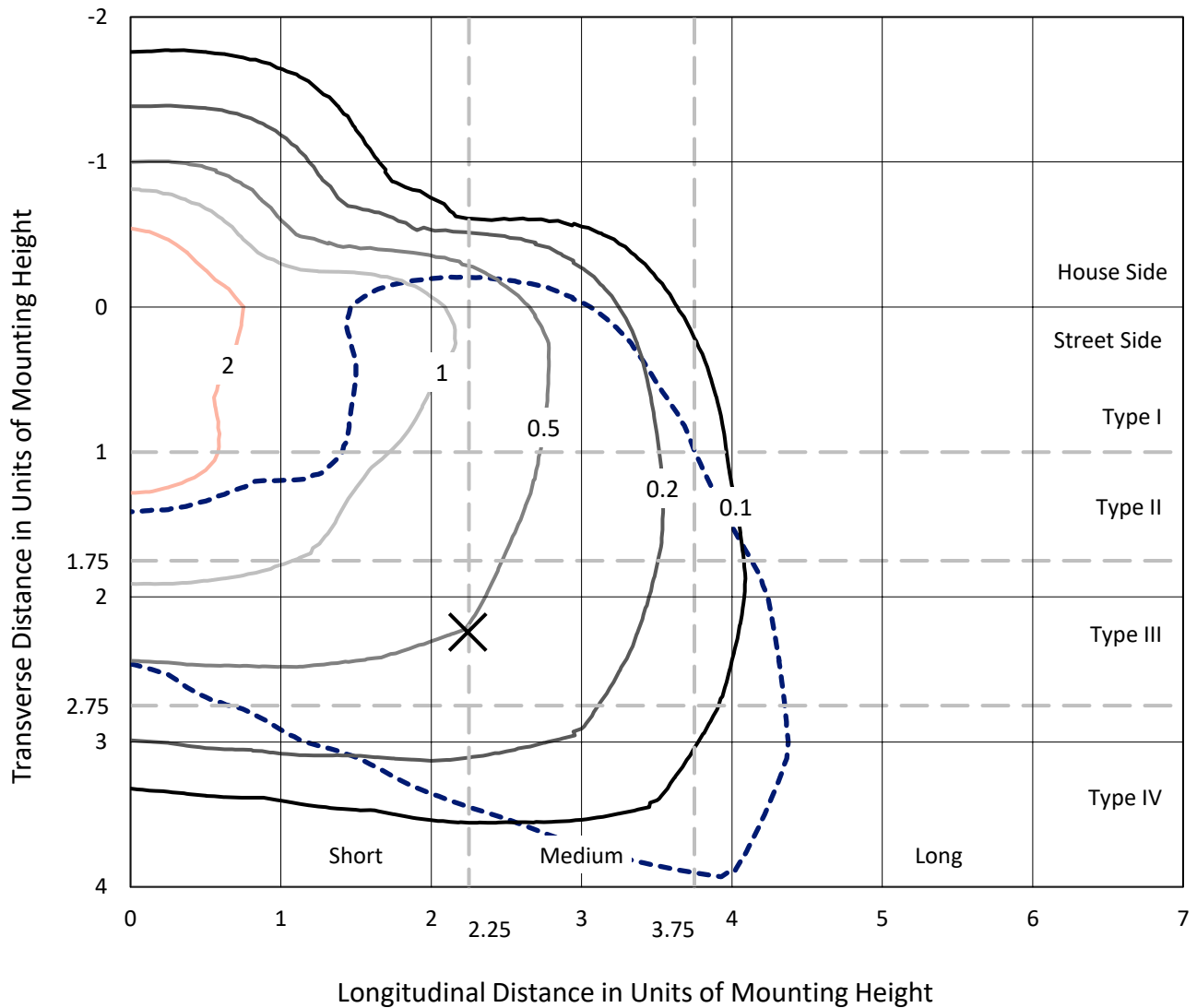
Lumens per Lamp: N/A  
Luminaire Lumens: 16129 lumens  
Efficiency: N/A  
Efficacy: 147.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 109.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

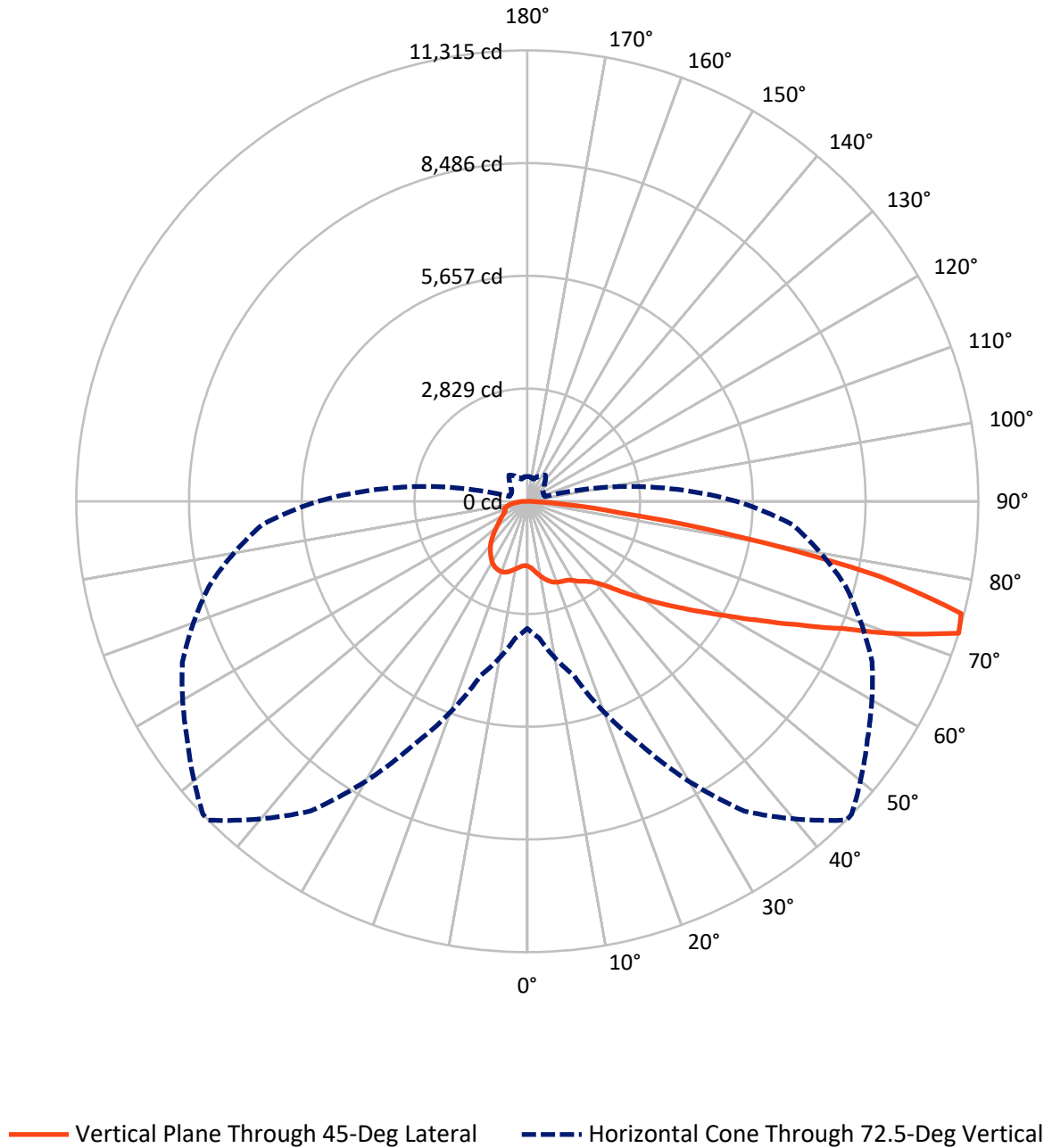
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3646.2	0.0	3646.2
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	12482.8	0.0	12482.8
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	16129.0	0.0	16129.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	165.6	1.0
10°-20°	552.2	3.4
20°-30°	960.5	6.0
30°-40°	1376.9	8.5
40°-50°	1938.8	12.0
50°-60°	2969.7	18.4
60°-70°	4302.0	26.7
70°-80°	3435.4	21.3
80°-90°	427.9	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°	16129.0	100.0
0°-180°	16129.0	100.0



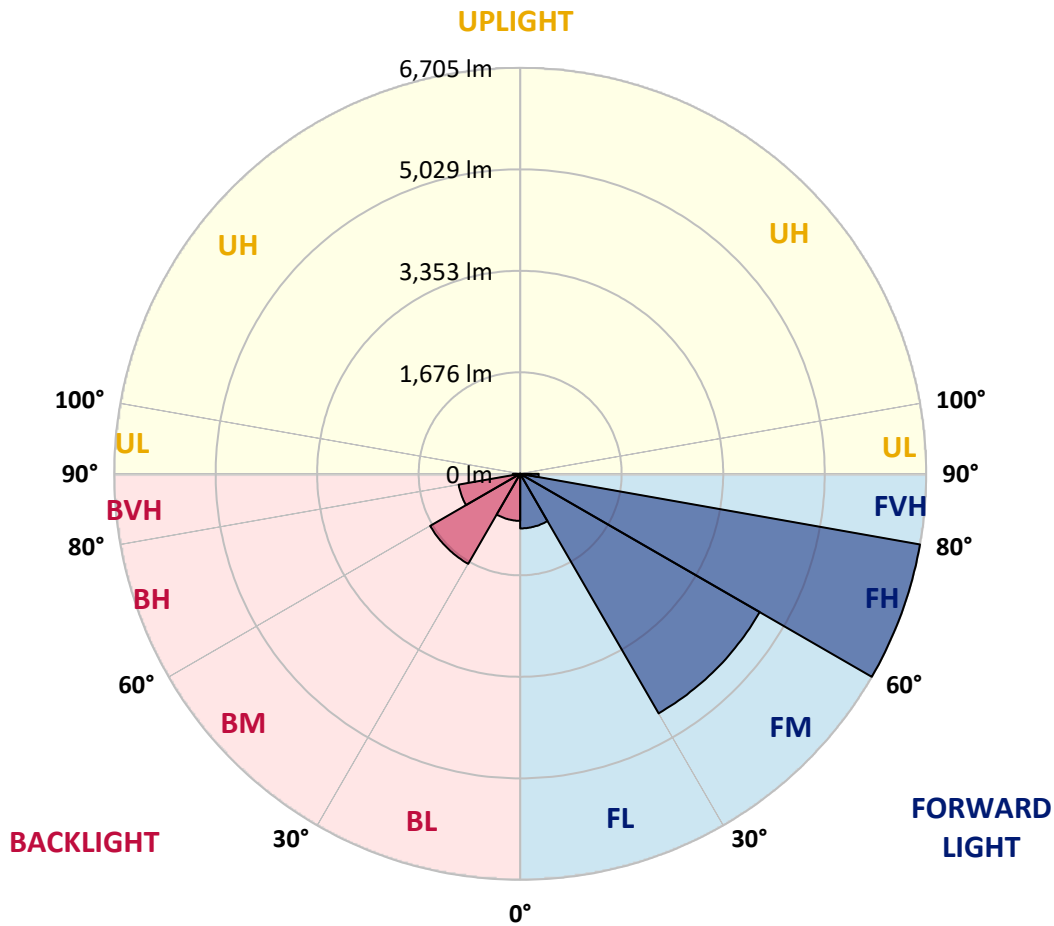
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	902.0	5.6			
FM (30°-60°)	4568.6	28.3			
FH (60°-80°)	6705.3	41.6			G3/7500
FVH (80°-90°)	307.0	1.9			G3/500
BL (0°-30°)	776.3	4.8	B2/1000		
BM (30°-60°)	1716.8	10.6	B2/2500		
BH (60°-80°)	1032.1	6.4	B3/2500		G3/2500
BVH (80°-90°)	120.9	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-G3**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	1627.1	1627.1	1627.1	1627.1	1627.1	1627.1	1627.1	1627.1	1627.1	1627.1
2.5°	1690.8	1701.9	1691.7	1682.3	1678.1	1667.0	1666.2	1659.4	1655.1	1643.2
5°	1808.9	1823.4	1806.4	1787.7	1770.7	1743.5	1740.1	1720.6	1698.5	1673.0
7.5°	1942.3	1955.1	1935.5	1907.5	1877.8	1832.7	1831.9	1796.2	1761.3	1718.0
10°	2058.7	2075.7	2049.4	2011.1	1973.8	1922.8	1916.8	1876.1	1831.9	1775.8
12.5°	2161.5	2173.4	2147.9	2101.2	2057.9	2006.9	1999.3	1954.2	1904.9	1841.2
15°	2243.1	2258.4	2224.4	2174.3	2128.4	2078.3	2071.5	2030.7	1981.4	1914.3
17.5°	2296.6	2309.4	2274.5	2218.5	2174.3	2132.7	2127.6	2093.6	2050.2	1982.3
20°	2317.0	2330.6	2294.1	2237.2	2196.4	2164.1	2161.5	2136.9	2107.2	2045.1
22.5°	2337.4	2350.2	2302.6	2243.1	2207.4	2187.0	2186.2	2170.0	2158.1	2107.2
25°	2419.8	2423.2	2359.5	2273.7	2222.7	2204.9	2204.0	2203.2	2208.3	2168.3
27.5°	2491.2	2490.4	2436.0	2355.3	2276.2	2238.9	2238.0	2246.5	2262.6	2229.5
30°	2595.7	2586.4	2521.8	2437.7	2365.5	2307.7	2302.6	2294.9	2307.7	2281.3
32.5°	2817.5	2787.7	2683.2	2533.7	2439.4	2395.2	2388.4	2340.8	2345.9	2329.8
35°	3135.3	3096.2	2956.8	2715.5	2531.1	2468.3	2464.9	2404.5	2394.3	2379.9
37.5°	3513.4	3464.9	3302.6	2978.9	2689.2	2553.2	2548.1	2493.8	2452.1	2436.8
40°	3893.1	3832.0	3697.7	3300.1	2922.0	2695.1	2679.0	2596.6	2549.0	2523.5
42.5°	4261.9	4210.9	4096.2	3660.3	3209.2	2902.4	2866.8	2725.7	2690.0	2666.2
45°	4588.2	4542.3	4458.2	4045.2	3545.6	3184.5	3149.7	2919.4	2908.4	2908.4
47.5°	4853.3	4843.1	4753.9	4437.8	3942.4	3505.7	3445.4	3188.8	3218.5	3264.4
50°	5147.3	5119.2	5024.0	4824.4	4408.9	3873.6	3824.3	3519.3	3630.6	3756.4
52.5°	5417.4	5432.7	5326.5	5227.1	4935.7	4284.0	4197.3	3909.3	4149.7	4357.9
55°	5695.3	5696.1	5666.4	5652.8	5488.0	4737.7	4642.6	4378.3	4760.7	5019.0
57.5°	5956.1	5957.8	6002.0	6121.8	6128.6	5261.1	5153.2	4954.4	5439.5	5702.9
60°	6188.9	6200.8	6321.5	6601.9	6691.9	5861.0	5759.0	5635.0	6141.4	6406.4
62.5°	6267.1	6310.4	6578.9	6977.4	7248.5	6596.8	6496.5	6422.6	6878.9	7125.3
65°	6134.6	6234.0	6753.1	7287.5	7821.1	7471.1	7371.7	7290.9	7645.3	7877.2
67.5°	5809.1	5937.4	6742.9	7613.0	8516.2	8523.0	8430.3	8240.9	8466.9	8556.1
70°	4951.8	5143.9	6149.0	7734.5	9314.0	9961.4	9872.2	9384.5	9286.8	8855.2
72.5°	3190.5	3448.8	4527.8	6734.4	9491.6	11314.9	11309.8	10416.9	9545.9	8274.0
75°	1164.0	1322.1	2103.8	4227.1	7967.3	11246.1	11279.3	10240.1	8714.1	6391.2
77.5°	424.0	463.9	686.5	1624.6	4900.0	9023.4	9092.2	8186.5	6202.5	3207.5
80°	222.6	244.7	351.8	630.4	2099.5	5358.8	5466.7	4865.2	2915.2	966.1
82.5°	123.2	133.4	197.1	342.4	945.7	2291.5	2356.1	1921.9	1025.5	409.5
85°	66.3	70.5	92.6	186.9	462.2	794.4	812.3	574.4	408.7	240.5
87.5°	19.5	23.8	30.6	59.5	181.0	178.4	182.7	113.9	161.4	121.5
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°
1627.1	0°	1627.1	1627.1	1627.1	1627.1	1627.1	1627.1	1627.1	1627.1	1627.1	1627.1
1639.8	2.5°	1634.7	1632.2	1622.9	1618.6	1613.5	1612.7	1616.9	1617.8	1618.6	1619.5
1658.5	5°	1650.0	1641.5	1633.0	1628.0	1629.7	1630.5	1639.0	1644.9	1649.2	1652.6
1693.4	7.5°	1679.8	1673.0	1658.5	1657.7	1660.2	1667.9	1678.9	1692.5	1700.2	1706.1
1738.4	10°	1724.0	1711.2	1694.2	1696.8	1701.9	1712.9	1735.9	1746.9	1759.6	1770.7
1793.6	12.5°	1769.0	1758.0	1738.4	1740.1	1748.6	1768.1	1790.2	1803.8	1812.3	1820.8
1853.1	15°	1827.6	1808.1	1786.8	1786.8	1802.1	1823.4	1833.6	1844.6	1849.7	1859.1
1916.8	17.5°	1887.9	1862.5	1834.4	1832.7	1851.4	1861.6	1867.6	1869.3	1871.0	1881.2
1978.9	20°	1948.3	1920.2	1880.3	1876.9	1881.2	1879.5	1878.6	1876.9	1879.5	1892.2
2042.6	22.5°	2007.8	1975.5	1920.2	1904.9	1893.0	1876.9	1876.1	1875.2	1876.9	1889.6
2111.4	25°	2077.4	2038.3	1964.4	1918.5	1878.6	1856.5	1859.1	1859.9	1861.6	1871.8
2182.8	27.5°	2153.0	2109.7	2005.2	1914.3	1842.1	1826.8	1822.5	1825.1	1831.0	1847.2
2254.2	30°	2228.7	2177.7	2042.6	1897.3	1796.2	1774.9	1761.3	1767.3	1786.0	1802.1
2316.2	32.5°	2297.5	2246.5	2072.3	1859.9	1737.6	1704.4	1686.6	1694.2	1712.9	1718.9
2385.0	35°	2378.2	2320.4	2085.1	1800.4	1673.8	1622.9	1599.1	1588.0	1597.4	1591.4
2465.7	37.5°	2468.3	2407.9	2083.4	1722.3	1599.1	1540.4	1507.3	1465.7	1446.1	1425.7
2584.7	40°	2601.7	2515.0	2063.0	1628.0	1506.5	1452.9	1393.4	1322.9	1278.7	1238.8
2776.7	42.5°	2783.5	2663.7	2025.6	1524.3	1401.9	1351.8	1271.1	1188.7	1119.0	1052.7
3068.1	45°	3054.5	2858.3	1978.9	1413.8	1288.9	1239.7	1152.1	1059.5	980.5	895.5
3481.9	47.5°	3445.4	3120.0	1934.7	1288.1	1170.0	1125.0	1045.9	960.1	866.7	784.2
4080.1	50°	3982.4	3495.5	1893.9	1165.7	1052.7	1018.7	955.9	868.4	774.0	707.8
4781.0	52.5°	4665.5	4006.2	1876.9	1047.6	943.1	930.4	880.2	798.7	709.5	653.4
5598.4	55°	5449.7	4617.1	1876.9	934.6	847.1	851.4	816.5	740.9	663.6	613.5
6441.3	57.5°	6250.1	5235.6	1842.9	830.1	765.5	783.4	761.3	695.0	625.4	573.5
7327.5	60°	6987.6	5753.9	1705.3	735.0	693.3	721.4	706.9	650.0	565.0	521.7
8068.4	62.5°	7554.3	6046.2	1440.2	659.3	633.8	666.1	658.5	590.5	554.0	536.1
8676.7	65°	7838.1	5998.6	1101.2	592.2	583.7	633.8	617.7	615.2	586.3	565.9
8874.7	67.5°	7663.9	5589.1	798.7	542.9	554.8	604.1	666.1	676.3	622.8	582.9
8317.3	70°	6900.1	4848.2	594.8	496.2	518.3	605.0	759.6	707.8	610.9	564.2
6670.7	72.5°	5249.2	3615.3	461.4	446.9	470.7	609.2	801.2	693.3	576.9	623.7
4155.7	75°	3001.9	1984.8	370.5	386.6	411.2	569.3	780.0	655.9	550.6	572.7
1646.6	77.5°	1144.5	763.0	305.9	327.1	330.5	497.1	746.0	653.4	524.2	511.5
493.7	80°	396.8	298.2	253.2	260.0	255.7	441.8	715.4	568.4	429.1	384.0
203.9	82.5°	162.3	148.7	200.5	192.0	181.8	343.3	577.8	464.8	350.9	310.1
98.6	85°	70.5	94.3	132.5	116.4	105.4	237.9	463.1	393.4	296.5	255.7
32.3	87.5°	14.4	35.7	56.1	52.7	54.4	158.9	328.8	279.5	209.9	157.2
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>
1627.1
1622.9
1654.3
1707.8
1768.1
1824.2
1862.5
1884.5
1897.3
1898.1
1885.4
1863.3
1820.0
1740.1
1610.1
1438.5
1241.4
1046.8
885.3
774.9
703.5
649.1
608.4
565.0
514.9
530.2
559.1
576.1
556.5
<b>618.6</b>
572.7
466.5
371.3
306.7
254.9
123.2
0.0

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