

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: P940312

Luminaire Tested: **GALN-SB3B-827-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940312
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-827-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 2700K, 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: 14563 lumens
Efficiency: N/A
Efficacy: 133.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G3

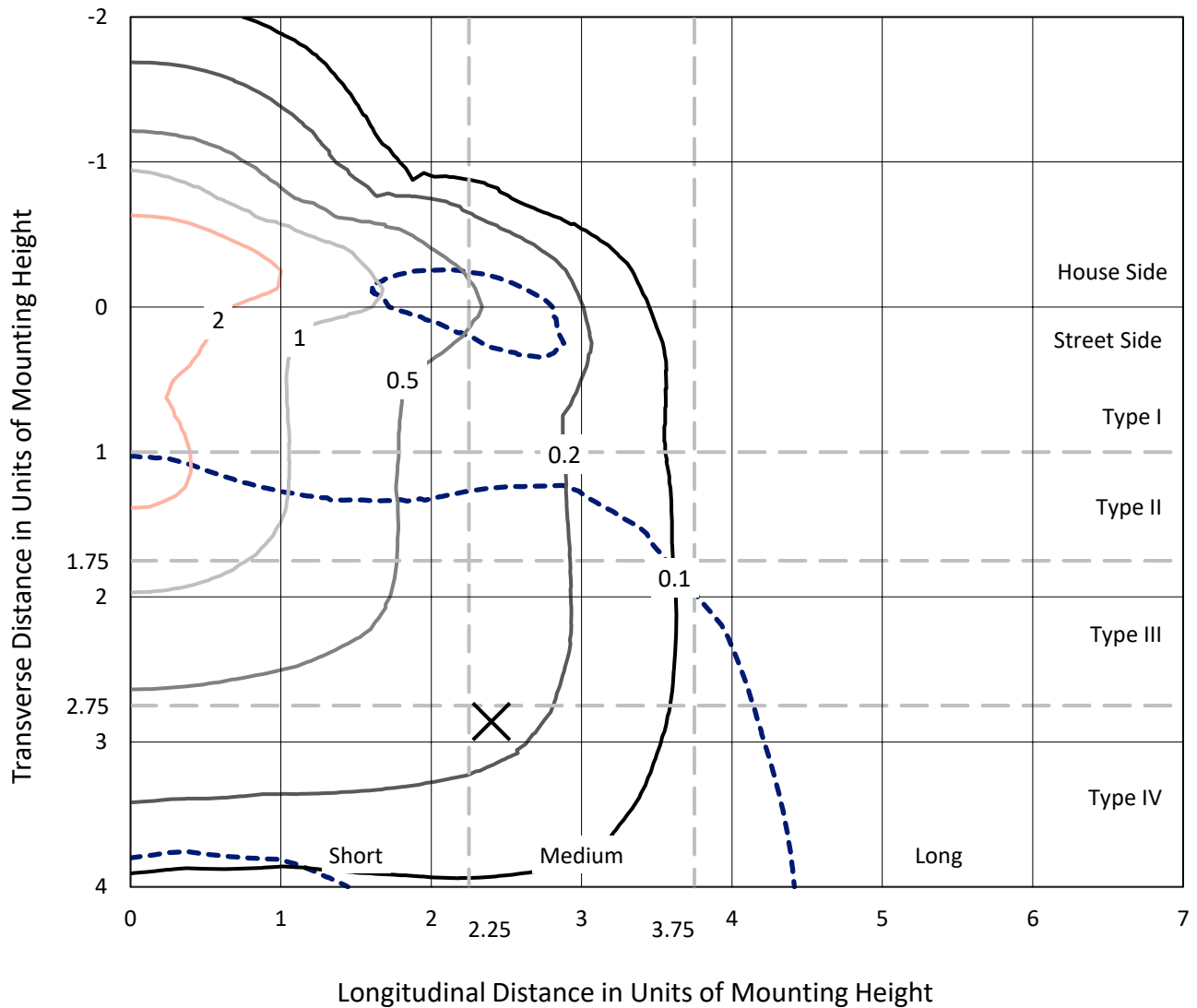
Input Watts (W): 109.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P940312
 CATALOG NUMBER: GALN-SB3B-827-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

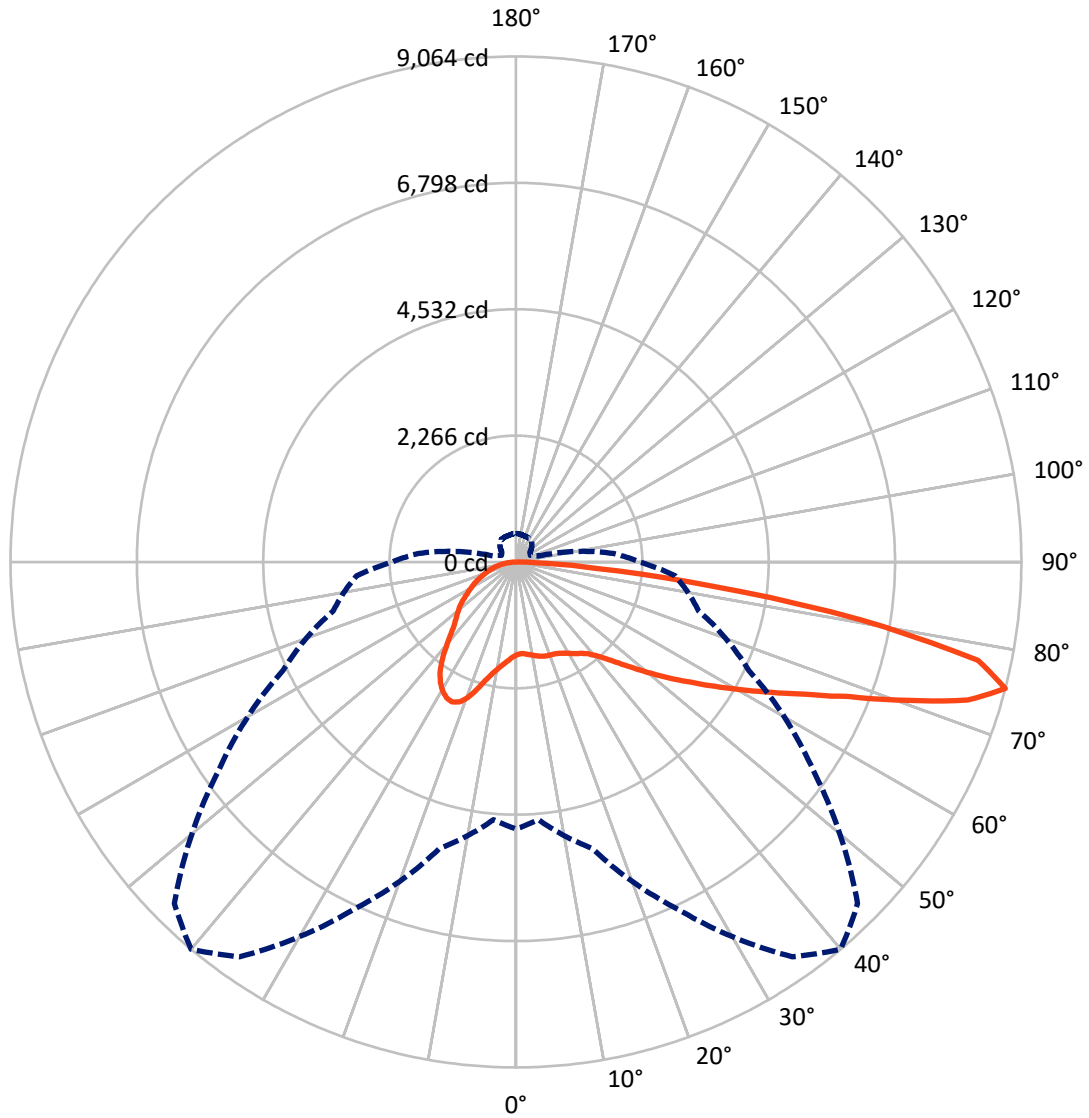
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type IV - Medium - N/A

REPORT NUMBER: P940312
CATALOG NUMBER: GALN-SB3B-827-U-SL4

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	4512.1	0.0	4512.1
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	10050.9	0.0	10050.9
	% Fixture	69.0	0.0	69.0
Total	Lumens	14563.0	0.0	14563.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.2	1.1
10°-20°	558.1	3.8
20°-30°	1019.1	7.0
30°-40°	1445.3	9.9
40°-50°	1951.6	13.4
50°-60°	2625.4	18.0
60°-70°	3332.3	22.9
70°-80°	3024.2	20.8
80°-90°	440.8	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°	14563.0	100.0
0°-180°	14563.0	100.0

Coefficient of Utilization



REPORT NUMBER: P940312

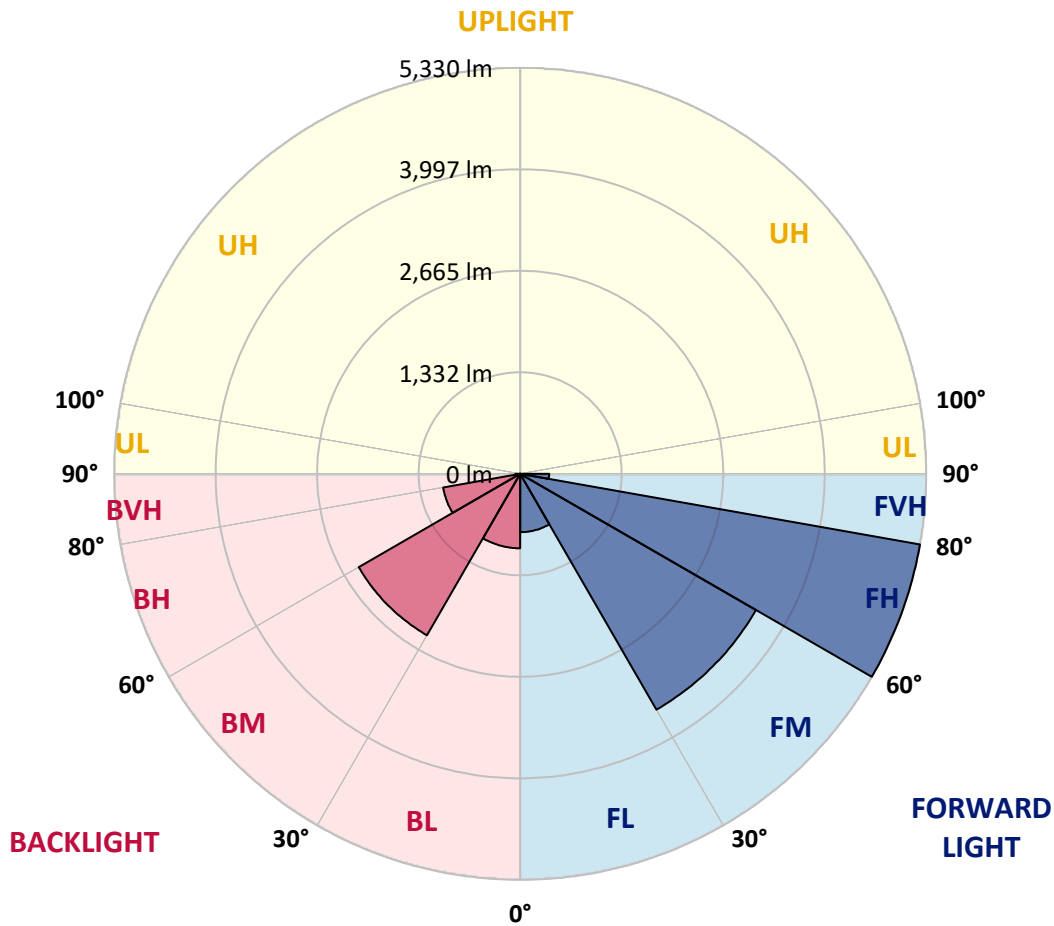
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	766.0	5.3			
FM (30°-60°)	3574.9	24.5			
FH (60°-80°)	5329.8	36.6			G3/7500
FVH (80°-90°)	380.1	2.6			G3/500
BL (0°-30°)	977.4	6.7	B2/1000		
BM (30°-60°)	2447.4	16.8	B2/2500		
BH (60°-80°)	1026.6	7.0	B3/2500		G3/2500
BVH (80°-90°)	60.7	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



REPORT NUMBER: P940312

CATALOG NUMBER: GALN-SB3B-827-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	1665.3	1665.3	1665.3	1665.3	1665.3	1665.3	1665.3	1665.3	1665.3	1665.3
2.5°	1639.8	1649.1	1646.8	1643.7	1643.7	1644.4	1643.7	1649.1	1654.5	1659.9
5°	1656.8	1666.1	1661.4	1657.6	1654.5	1653.7	1651.4	1650.6	1653.7	1660.7
7.5°	1690.0	1699.3	1692.3	1685.4	1679.2	1676.1	1673.0	1668.4	1666.1	1669.9
10°	1727.1	1736.4	1727.9	1715.5	1705.5	1701.6	1698.5	1693.9	1690.8	1693.1
12.5°	1764.2	1773.4	1761.8	1744.9	1731.7	1729.4	1725.5	1724.0	1723.2	1722.5
15°	1798.9	1806.6	1792.0	1771.9	1758.0	1754.1	1750.3	1752.6	1756.4	1761.1
17.5°	1826.0	1833.7	1812.1	1785.8	1772.7	1771.1	1768.8	1776.5	1787.3	1798.9
20°	1850.7	1858.4	1830.6	1795.1	1779.6	1779.6	1780.4	1796.6	1812.1	1829.0
22.5°	1885.4	1891.6	1857.6	1809.0	1786.6	1788.1	1794.3	1810.5	1829.8	1853.0
25°	1937.2	1941.8	1900.1	1835.2	1809.7	1814.4	1819.8	1827.5	1846.0	1873.1
27.5°	2020.6	2024.5	1969.6	1881.6	1843.0	1850.7	1858.4	1853.0	1861.5	1884.7
30°	2138.0	2140.3	2070.8	1954.2	1899.3	1903.2	1904.7	1882.3	1866.1	1884.7
32.5°	2277.0	2276.3	2193.6	2042.2	1963.4	1959.6	1946.5	1902.4	1864.6	1880.8
35°	2492.5	2484.0	2377.5	2165.8	2036.1	2012.1	1981.2	1924.8	1872.3	1876.9
37.5°	2849.4	2823.1	2675.6	2368.2	2144.2	2083.2	2037.6	1961.1	1889.3	1875.4
40°	3251.8	3218.6	3056.4	2645.5	2306.4	2208.3	2134.9	2012.9	1917.1	1882.3
42.5°	3729.2	3682.0	3507.5	2972.2	2511.9	2369.7	2259.3	2078.5	1958.0	1904.7
45°	4315.4	4252.8	4005.7	3340.6	2770.6	2581.4	2433.8	2178.2	2020.6	1948.0
47.5°	4907.8	4923.3	4571.8	3762.4	3081.1	2842.4	2652.4	2328.0	2111.7	2017.5
50°	5537.3	5548.2	5134.9	4229.7	3433.3	3137.5	2898.1	2495.6	2238.4	2116.4
52.5°	6028.6	6030.1	5646.3	4718.6	3800.2	3461.9	3163.0	2687.2	2385.2	2247.7
55°	6336.0	6332.2	6004.7	5181.3	4221.9	3802.5	3456.5	2905.0	2564.4	2402.2
57.5°	6559.2	6547.7	6251.8	5579.1	4671.5	4205.0	3788.6	3152.2	2776.0	2586.0
60°	6644.2	6637.2	6419.4	5922.8	5144.2	4649.9	4171.7	3428.7	3016.2	2803.0
62.5°	6676.6	6689.8	6584.0	6255.7	5650.1	5142.7	4592.7	3759.3	3286.6	3048.7
65°	6791.0	6814.9	6793.3	6691.3	6221.7	5719.6	5151.1	4152.4	3581.6	3312.1
67.5°	7017.3	7041.2	7050.5	7212.7	6919.9	6438.7	5847.9	4642.1	3926.9	3585.5
70°	7011.9	7004.9	7168.7	7627.5	7794.3	7434.4	6787.1	5244.6	4338.6	3812.6
72.5°	6382.4	6326.7	6713.7	7622.8	8521.9	8474.0	7934.1	6021.6	4693.9	3840.4
75°	4788.1	4639.8	5323.4	6869.7	8643.2	9064.1	8663.3	6503.6	4609.7	3393.2
77.5°	2047.6	1898.6	2704.2	5085.5	7735.6	8473.2	7994.4	5674.1	3679.7	2243.8
80°	536.0	535.3	817.2	2305.6	5260.8	6257.2	5489.5	3664.3	2102.5	801.8
82.5°	221.7	216.3	300.5	896.8	2570.6	3511.3	2865.6	1634.4	759.3	217.0
85°	82.6	81.9	146.0	309.7	906.8	1448.3	1048.1	417.9	189.2	105.8
87.5°	23.2	22.4	31.7	107.4	220.9	335.2	179.2	68.7	53.3	41.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P940312
 CATALOG NUMBER: GALN-SB3B-827-U-SL4

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1665.3	0°	1665.3	1665.3	1665.3	1665.3	1665.3	1665.3	1665.3	1665.3	1665.3	1665.3
1668.4	2.5°	1670.7	1674.6	1681.5	1686.9	1693.9	1701.6	1712.4	1719.4	1726.3	1731.0
1672.3	5°	1677.7	1686.2	1703.9	1721.7	1742.5	1761.8	1784.2	1800.5	1813.6	1817.5
1686.2	7.5°	1693.1	1707.0	1737.1	1767.3	1800.5	1832.1	1864.6	1892.4	1914.8	1923.3
1710.9	10°	1720.1	1738.7	1781.2	1823.6	1867.7	1916.3	1958.0	1998.2	2029.9	2043.0
1740.2	12.5°	1754.1	1777.3	1832.9	1891.6	1952.6	2019.8	2073.9	2123.3	2162.7	2180.5
1781.2	15°	1798.2	1828.3	1899.3	1978.1	2067.7	2161.2	2229.9	2284.8	2328.8	2350.4
1823.6	17.5°	1846.0	1886.2	1975.8	2094.8	2223.0	2345.8	2426.1	2466.3	2511.9	2532.7
1863.0	20°	1892.4	1941.8	2070.0	2243.1	2413.8	2544.3	2609.2	2620.0	2623.1	2625.4
1900.1	22.5°	1940.3	2006.7	2188.2	2430.0	2613.0	2703.4	2712.7	2666.3	2601.4	2571.3
1936.4	25°	1992.8	2080.9	2342.7	2636.2	2784.5	2795.3	2724.3	2611.5	2488.7	2432.3
1965.8	27.5°	2043.8	2166.6	2528.1	2833.2	2908.1	2813.1	2660.2	2500.3	2352.0	2292.5
1986.6	30°	2094.8	2264.7	2732.8	3005.4	2964.5	2769.1	2559.0	2380.5	2231.5	2168.9
2005.2	32.5°	2146.5	2379.0	2968.3	3129.8	2954.4	2675.6	2433.1	2246.1	2114.8	2049.2
2021.4	35°	2205.2	2519.6	3191.6	3197.7	2887.2	2538.1	2267.0	2085.5	1971.2	1918.6
2040.7	37.5°	2281.7	2698.0	3388.5	3214.7	2769.8	2336.5	2060.8	1895.5	1801.2	1777.3
2069.3	40°	2376.7	2912.7	3539.1	3187.7	2596.0	2091.7	1835.2	1703.1	1649.9	1655.3
2107.9	42.5°	2500.3	3152.9	3645.0	3118.2	2354.3	1839.1	1637.5	1578.8	1604.3	1625.9
2165.8	45°	2660.9	3402.4	3710.6	3000.0	2080.9	1625.1	1520.9	1534.8	1554.1	1556.4
2259.3	47.5°	2866.4	3655.0	3753.9	2821.6	1802.0	1474.5	1446.7	1449.8	1445.9	1429.7
2399.1	50°	3122.8	3900.6	3792.5	2585.2	1564.9	1380.3	1343.2	1332.4	1279.1	1226.6
2585.2	52.5°	3414.8	4126.2	3808.7	2291.7	1380.3	1301.5	1241.2	1173.3	1073.6	1057.4
2819.3	55°	3739.2	4334.7	3767.0	1931.0	1225.0	1200.3	1109.2	1027.3	1016.5	1002.6
3127.5	57.5°	4126.9	4559.5	3682.0	1528.6	1065.9	1082.1	993.3	1002.6	983.3	961.6
3523.7	60°	4551.0	4792.0	3533.0	1161.7	901.4	934.6	963.2	962.4	957.0	939.2
3941.6	62.5°	4932.6	4944.9	3239.5	889.8	757.0	820.3	898.3	897.5	892.9	882.9
4378.0	65°	5159.6	4921.7	2749.8	700.6	638.0	726.1	810.2	816.4	817.2	816.4
4706.2	67.5°	5119.5	4650.6	2077.8	557.7	539.9	630.3	723.0	731.5	737.6	739.2
4748.0	70°	4665.3	4055.1	1354.8	444.9	452.6	546.1	640.3	648.8	654.2	660.4
4120.0	72.5°	3636.5	2981.5	775.5	359.9	376.2	473.5	558.4	568.5	571.6	583.2
2867.2	75°	2216.0	1753.4	418.6	283.5	309.0	404.7	477.3	488.9	494.3	508.2
1408.1	77.5°	1053.6	759.3	238.7	220.9	248.7	330.6	403.2	416.3	401.6	409.4
388.5	80°	356.1	281.9	150.6	168.4	190.0	258.0	322.9	336.0	305.1	303.6
129.0	82.5°	124.4	114.3	95.8	112.0	122.8	184.6	244.1	261.1	227.1	226.3
57.9	85°	48.7	46.3	53.3	61.0	73.4	113.5	160.7	169.2	139.8	112.8
17.0	87.5°	10.0	10.8	13.1	13.9	22.4	39.4	57.9	71.1	56.4	47.9
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>
1665.3
1727.9
1819.0
1924.1
2043.8
2180.5
2348.9
2531.9
2631.6
2579.8
2440.8
2299.4
2175.9
2057.7
1930.2
1794.3
1673.8
1646.0
1571.8
1442.1
1233.5
1062.8
1004.9
957.8
933.1
879.0
816.4
740.7
663.5
587.8
509.8
403.2
300.5
215.5
111.2
44.0
0.0

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