

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: P940052

Luminaire Tested: **GALN-SB2D-940-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940052
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-SB2D-940-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14618 lumens
Efficiency: N/A
Efficacy: 99.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G3

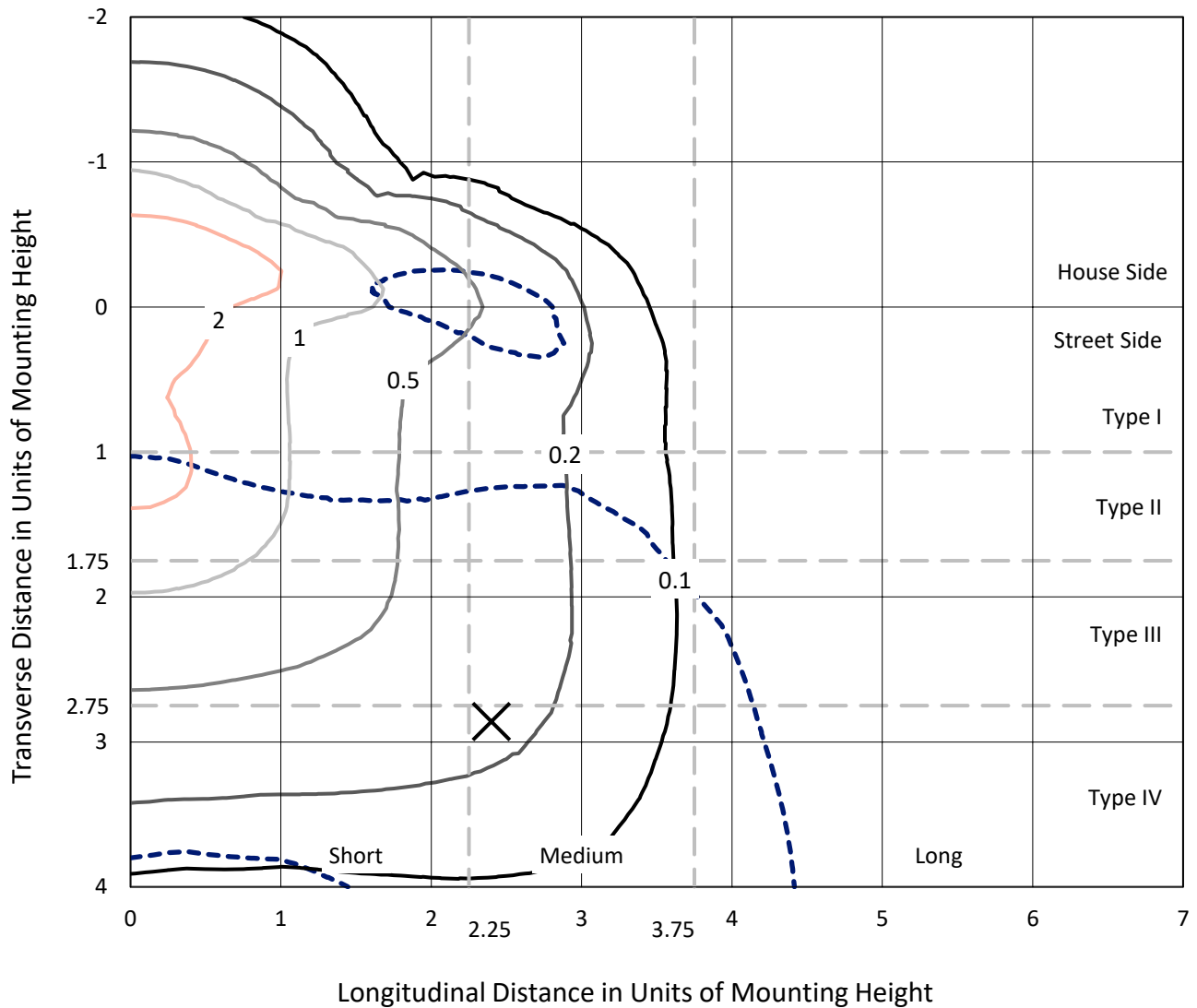
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

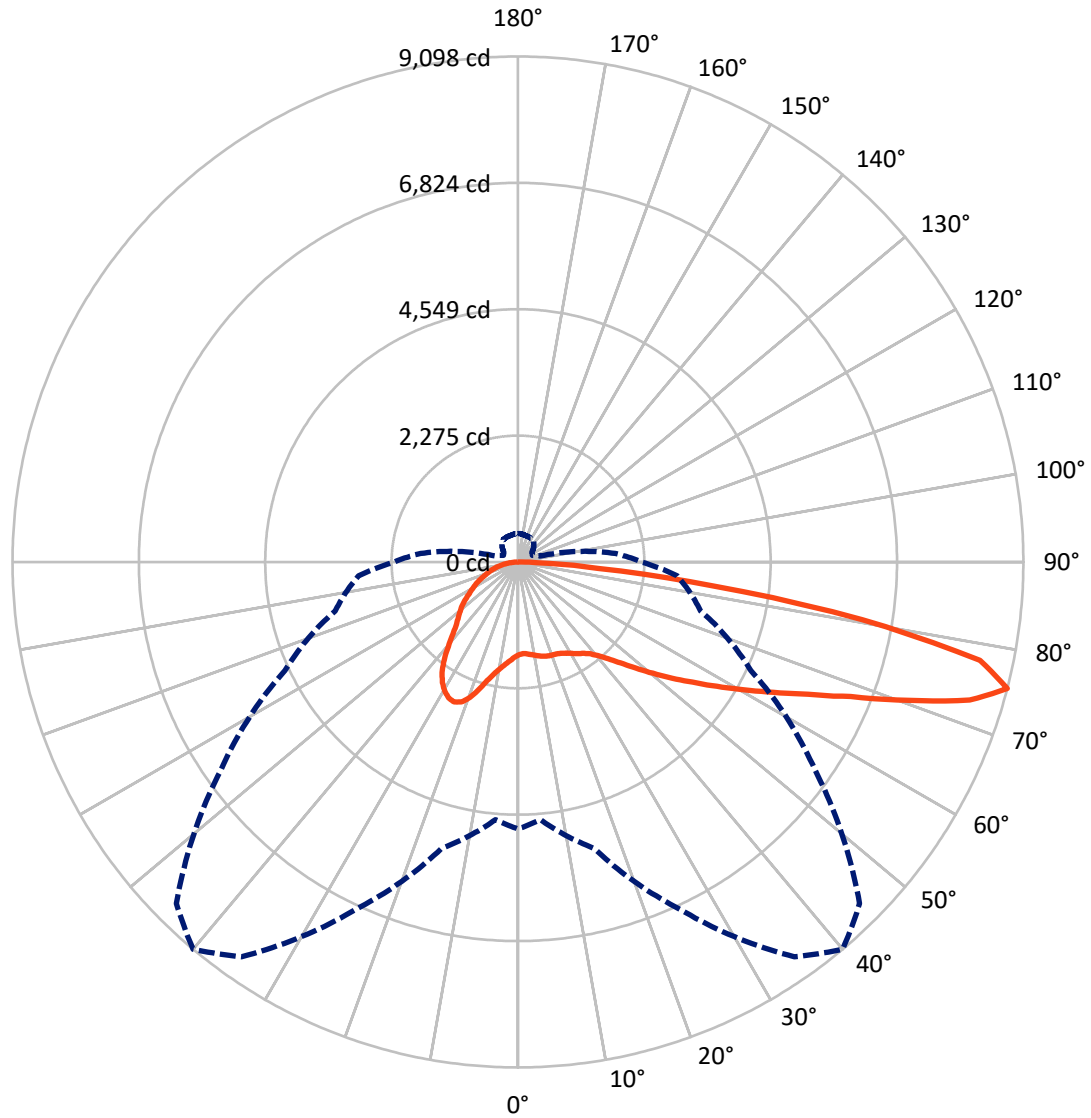
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 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	4529.1	0.0	4529.1
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	10088.8	0.0	10088.8
	% Fixture	69.0	0.0	69.0
Total	Lumens	14618.0	0.0	14618.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.9	1.1
10°-20°	560.2	3.8
20°-30°	1022.9	7.0
30°-40°	1450.8	9.9
40°-50°	1959.0	13.4
50°-60°	2635.3	18.0
60°-70°	3344.8	22.9
70°-80°	3035.6	20.8
80°-90°	442.5	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°	14618.0	100.0
0°-180°	14618.0	100.0

Coefficient of Utilization



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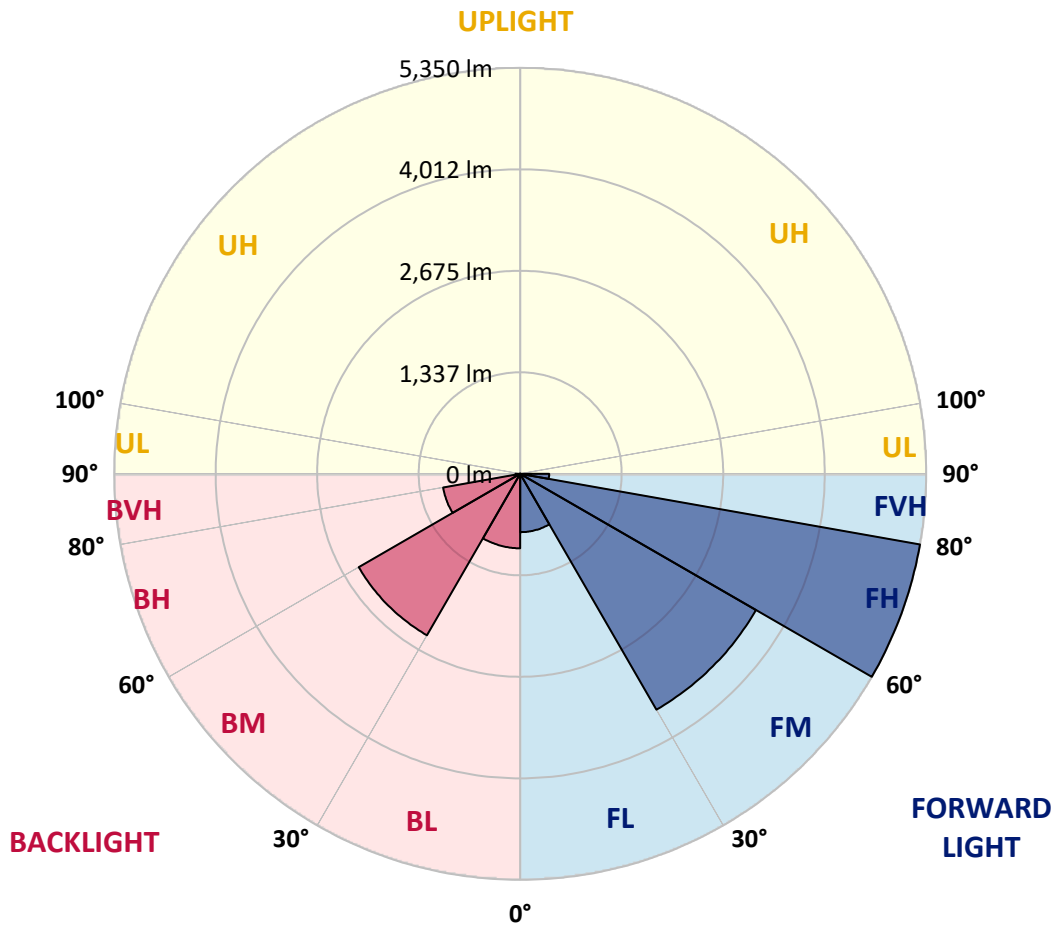
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	768.9	5.3			
FM (30°-60°)	3588.4	24.5			
FH (60°-80°)	5350.0	36.6			G3/7500
FVH (80°-90°)	381.6	2.6			G3/500
BL (0°-30°)	981.1	6.7	B2/1000		
BM (30°-60°)	2456.7	16.8	B2/2500		
BH (60°-80°)	1030.5	7.0	B3/2500		G3/2500
BVH (80°-90°)	60.9	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°	1671.6	1671.6	1671.6	1671.6	1671.6	1671.6	1671.6	1671.6	1671.6	1671.6
2.5°	1646.0	1655.3	1653.0	1649.9	1649.9	1650.7	1649.9	1655.3	1660.7	1666.2
5°	1663.1	1672.4	1667.7	1663.8	1660.7	1660.0	1657.6	1656.9	1660.0	1666.9
7.5°	1696.4	1705.7	1698.7	1691.7	1685.5	1682.4	1679.3	1674.7	1672.4	1676.2
10°	1733.6	1742.9	1734.4	1722.0	1711.9	1708.0	1704.9	1700.3	1697.2	1699.5
12.5°	1770.8	1780.1	1768.5	1751.4	1738.3	1735.9	1732.1	1730.5	1729.7	1729.0
15°	1805.7	1813.5	1798.7	1778.6	1764.6	1760.7	1756.9	1759.2	1763.1	1767.7
17.5°	1832.9	1840.6	1818.9	1792.5	1779.4	1777.8	1775.5	1783.2	1794.1	1805.7
20°	1857.7	1865.4	1837.5	1801.8	1786.3	1786.3	1787.1	1803.4	1818.9	1836.0
22.5°	1892.6	1898.8	1864.6	1815.8	1793.3	1794.9	1801.1	1817.3	1836.7	1860.0
25°	1944.5	1949.2	1907.3	1842.2	1816.6	1821.2	1826.7	1834.4	1853.0	1880.1
27.5°	2028.2	2032.1	1977.1	1888.7	1849.9	1857.7	1865.4	1860.0	1868.5	1891.8
30°	2146.1	2148.4	2078.6	1961.6	1906.5	1910.4	1911.9	1889.5	1873.2	1891.8
32.5°	2285.6	2284.9	2201.9	2049.9	1970.9	1967.0	1953.8	1909.6	1871.6	1887.9
35°	2502.0	2493.4	2386.4	2174.0	2043.7	2019.7	1988.7	1932.1	1879.4	1884.0
37.5°	2860.2	2833.8	2685.7	2377.1	2152.3	2091.0	2045.3	1968.5	1896.4	1882.5
40°	3264.1	3230.8	3067.9	2655.5	2315.1	2216.6	2143.0	2020.5	1924.3	1889.5
42.5°	3743.2	3695.9	3520.7	2983.4	2521.3	2378.7	2267.8	2086.4	1965.4	1911.9
45°	4331.7	4268.9	4020.8	3353.3	2781.1	2591.1	2443.0	2186.4	2028.2	1955.4
47.5°	4926.4	4941.9	4589.1	3776.6	3092.7	2853.2	2662.4	2336.8	2119.7	2025.1
50°	5558.3	5569.1	5154.3	4245.6	3446.3	3149.3	2909.0	2505.1	2246.9	2124.4
52.5°	6051.4	6052.9	5667.6	4736.4	3814.6	3475.0	3174.9	2697.3	2394.2	2256.2
55°	6359.9	6356.1	6027.3	5200.8	4237.9	3816.9	3469.6	2916.0	2574.1	2411.2
57.5°	6584.0	6572.4	6275.4	5600.1	4689.1	4220.8	3802.9	3164.1	2786.5	2595.8
60°	6669.3	6662.3	6443.7	5945.1	5163.6	4667.4	4187.5	3441.6	3027.6	2813.6
62.5°	6701.9	6715.0	6608.8	6279.3	5671.5	5162.1	4610.0	3773.5	3299.0	3060.2
65°	6816.6	6840.6	6818.9	6716.6	6245.2	5741.2	5170.6	4168.1	3595.2	3324.6
67.5°	7043.8	7067.8	7077.1	7239.9	6946.1	6463.1	5869.9	4659.7	3941.7	3599.0
70°	7038.3	7031.4	7195.7	7656.3	7823.7	7462.4	6812.7	5264.4	4355.0	3827.0
72.5°	6406.5	6350.6	6739.1	7651.6	8554.1	8506.0	7964.1	6044.4	4711.6	3854.9
75°	4806.2	4657.3	5343.5	6895.7	8675.8	9098.4	8696.0	6528.2	4627.1	3406.0
77.5°	2055.4	1905.7	2714.4	5104.7	7764.8	8505.2	8024.6	5695.5	3693.6	2252.3
80°	538.1	537.3	820.3	2314.3	5280.7	6280.9	5510.2	3678.1	2110.4	804.8
82.5°	222.5	217.1	301.6	900.1	2580.3	3524.6	2876.4	1640.6	762.1	217.9
85°	83.0	82.2	146.5	310.9	910.2	1453.7	1052.1	419.4	190.0	106.2
87.5°	23.3	22.5	31.8	107.8	221.7	336.5	179.9	69.0	53.5	41.9
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°
1671.6	0°	1671.6	1671.6	1671.6	1671.6	1671.6	1671.6	1671.6	1671.6	1671.6	1671.6
1674.7	2.5°	1677.0	1680.9	1687.9	1693.3	1700.3	1708.0	1718.9	1725.9	1732.8	1737.5
1678.6	5°	1684.0	1692.5	1710.4	1728.2	1749.1	1768.5	1791.0	1807.3	1820.4	1824.3
1692.5	7.5°	1699.5	1713.5	1743.7	1773.9	1807.3	1839.1	1871.6	1899.5	1922.0	1930.5
1717.3	10°	1726.6	1745.2	1787.9	1830.5	1874.7	1923.6	1965.4	2005.8	2037.5	2050.7
1746.8	12.5°	1760.7	1784.0	1839.8	1898.8	1960.0	2027.5	2081.7	2131.4	2170.9	2188.7
1787.9	15°	1804.9	1835.2	1906.5	1985.6	2075.5	2169.3	2238.3	2293.4	2337.6	2359.3
1830.5	17.5°	1853.0	1893.3	1983.3	2102.7	2231.4	2354.6	2435.3	2475.6	2521.3	2542.3
1870.1	20°	1899.5	1949.2	2077.9	2251.5	2422.9	2553.9	2619.0	2629.9	2633.0	2635.3
1907.3	22.5°	1947.6	2014.3	2196.5	2439.2	2622.9	2713.6	2722.9	2676.4	2611.3	2581.0
1943.7	25°	2000.3	2088.7	2351.5	2646.2	2795.0	2805.9	2734.6	2621.4	2498.1	2441.5
1973.2	27.5°	2051.5	2174.8	2537.6	2843.9	2919.1	2823.7	2670.2	2509.7	2360.8	2301.1
1994.1	30°	2102.7	2273.2	2743.1	3016.8	2975.7	2779.5	2568.6	2389.5	2239.9	2177.1
2012.7	32.5°	2154.6	2388.0	2979.6	3141.6	2965.6	2685.7	2442.3	2254.6	2122.8	2056.9
2029.0	35°	2213.5	2529.1	3203.6	3209.8	2898.1	2547.7	2275.6	2093.4	1978.6	1925.9
2048.4	37.5°	2290.3	2708.2	3401.3	3226.9	2780.3	2345.3	2068.6	1902.6	1808.0	1784.0
2077.1	40°	2385.7	2923.7	3552.5	3199.7	2605.8	2099.6	1842.2	1709.6	1656.1	1661.5
2115.8	42.5°	2509.7	3164.9	3658.7	3130.0	2363.2	1846.0	1643.7	1584.8	1610.3	1632.0
2174.0	45°	2671.0	3415.3	3724.6	3011.3	2088.7	1631.3	1526.6	1540.6	1559.9	1562.3
2267.8	47.5°	2877.2	3668.8	3768.1	2832.2	1808.8	1480.1	1452.2	1455.3	1451.4	1435.1
2408.1	50°	3134.6	3915.4	3806.8	2595.0	1570.8	1385.5	1348.3	1337.4	1283.9	1231.2
2595.0	52.5°	3427.7	4141.8	3823.1	2300.4	1385.5	1306.4	1245.9	1177.7	1077.7	1061.4
2829.9	55°	3753.3	4351.1	3781.2	1938.3	1229.7	1204.8	1113.4	1031.2	1020.3	1006.4
3139.3	57.5°	4142.5	4576.7	3695.9	1534.4	1069.9	1086.2	997.1	1006.4	987.0	965.3
3537.0	60°	4568.2	4810.1	3546.3	1166.1	904.8	938.1	966.8	966.0	960.6	942.8
3956.5	62.5°	4951.2	4963.6	3251.7	893.2	759.8	823.4	901.7	900.9	896.3	886.2
4394.5	65°	5179.1	4940.3	2760.1	703.2	640.4	728.8	813.3	819.5	820.3	819.5
4724.0	67.5°	5138.8	4668.2	2085.6	559.8	541.9	632.7	725.7	734.2	740.4	742.0
4765.9	70°	4682.9	4070.4	1359.9	446.6	454.3	548.2	642.7	651.3	656.7	662.9
4135.6	72.5°	3650.2	2992.7	778.4	361.3	377.6	475.3	560.6	570.6	573.7	585.4
2878.0	75°	2224.4	1760.0	420.2	284.5	310.1	406.3	479.1	490.8	496.2	510.2
1413.4	77.5°	1057.5	762.1	239.6	221.7	249.7	331.8	404.7	417.9	403.2	410.9
390.0	80°	357.4	283.0	151.2	169.0	190.7	259.0	324.1	337.3	306.3	304.7
129.5	82.5°	124.8	114.7	96.1	112.4	123.3	185.3	245.0	262.1	227.9	227.2
58.1	85°	48.8	46.5	53.5	61.3	73.7	114.0	161.3	169.8	140.3	113.2
17.1	87.5°	10.1	10.9	13.2	14.0	22.5	39.5	58.1	71.3	56.6	48.1
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>
1671.6
1734.4
1825.9
1931.3
2051.5
2188.7
2357.7
2541.5
2641.5
2589.6
2450.0
2308.1
2184.1
2065.4
1937.5
1801.1
1680.1
1652.2
1577.8
1447.5
1238.2
1066.8
1008.7
961.4
936.6
882.3
819.5
743.5
666.0
590.0
511.7
404.7
301.6
216.3
111.6
44.2
0.0

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