

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: P941552

Luminaire Tested: **GALN-SB5A-927-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941552
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-SB5A-927-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13672 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

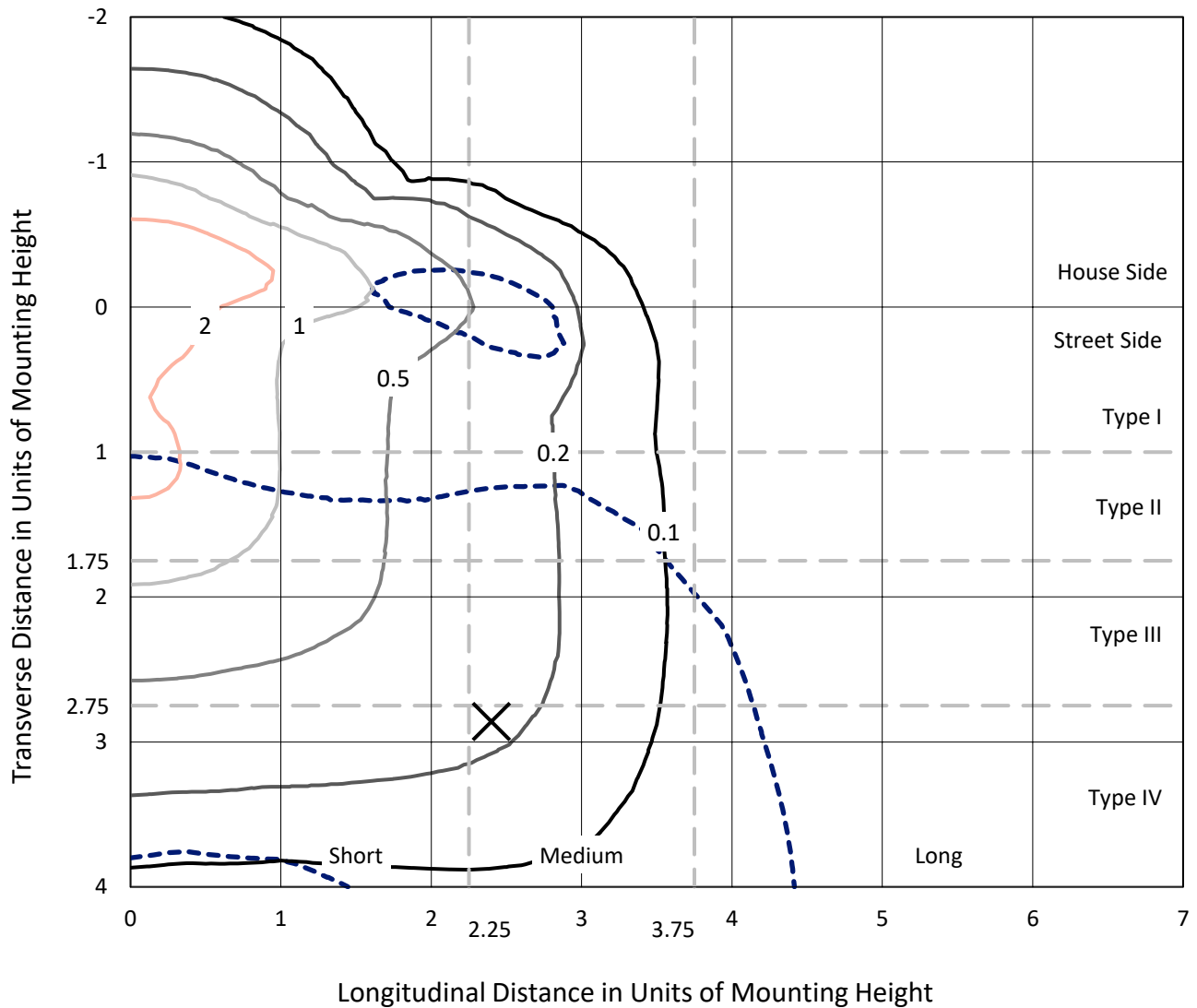
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

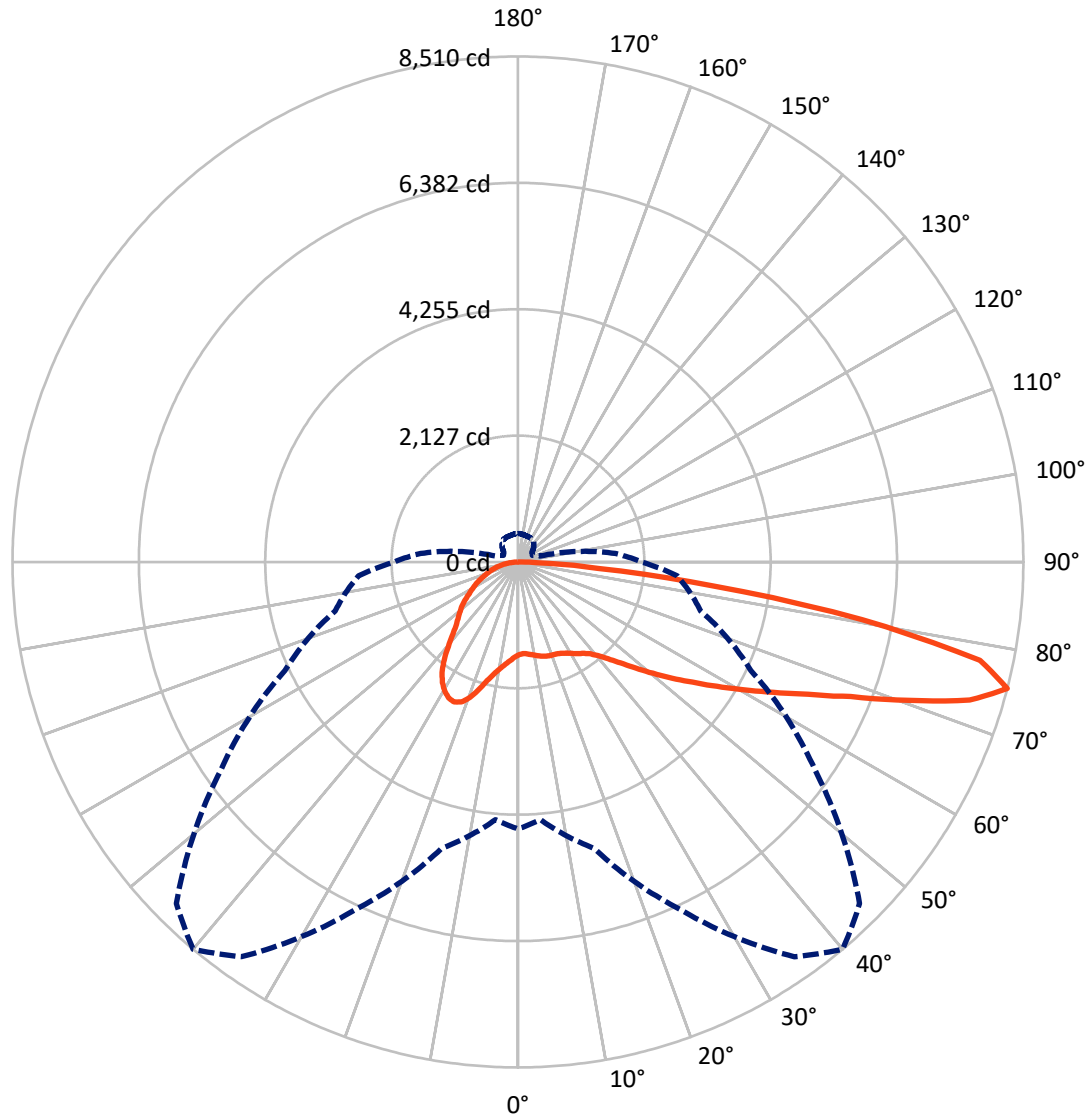
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type IV - 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	4236.0	0.0	4236.0
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	9436.0	0.0	9436.0
	% Fixture	69.0	0.0	69.0
Total	Lumens	13672.0	0.0	13672.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.1	1.1
10°-20°	524.0	3.8
20°-30°	956.7	7.0
30°-40°	1356.9	9.9
40°-50°	1832.2	13.4
50°-60°	2464.8	18.0
60°-70°	3128.4	22.9
70°-80°	2839.2	20.8
80°-90°	413.9	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°	13672.0	100.0
0°-180°	13672.0	100.0



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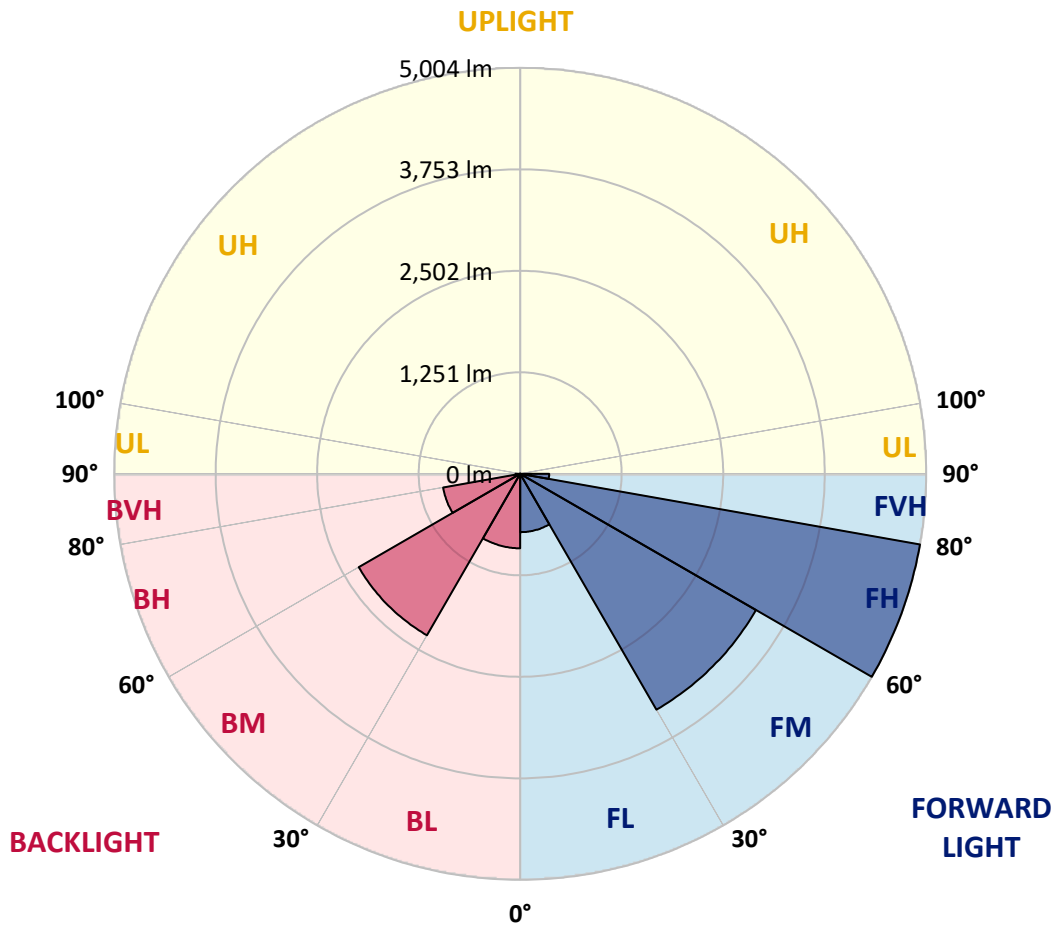
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	719.2	5.3			
FM (30°-60°)	3356.2	24.5			
FH (60°-80°)	5003.7	36.6			G3/7500
FVH (80°-90°)	356.9	2.6			G3/500
BL (0°-30°)	917.6	6.7	B2/1000		
BM (30°-60°)	2297.7	16.8	B2/2500		
BH (60°-80°)	963.8	7.0	B2/1000		G2/1000
BVH (80°-90°)	57.0	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	1563.4	1563.4	1563.4	1563.4	1563.4	1563.4	1563.4	1563.4	1563.4	1563.4
2.5°	1539.5	1548.2	1546.0	1543.1	1543.1	1543.8	1543.1	1548.2	1553.3	1558.3
5°	1555.4	1564.1	1559.8	1556.2	1553.3	1552.5	1550.4	1549.6	1552.5	1559.1
7.5°	1586.6	1595.3	1588.8	1582.3	1576.5	1573.6	1570.7	1566.3	1564.1	1567.8
10°	1621.4	1630.1	1622.1	1610.5	1601.1	1597.5	1594.6	1590.2	1587.3	1589.5
12.5°	1656.2	1664.9	1654.1	1638.1	1625.8	1623.6	1620.0	1618.5	1617.8	1617.1
15°	1688.9	1696.1	1682.3	1663.5	1650.4	1646.8	1643.2	1645.4	1649.0	1653.3
17.5°	1714.2	1721.5	1701.2	1676.5	1664.2	1662.8	1660.6	1667.8	1678.0	1688.9
20°	1737.4	1744.7	1718.6	1685.2	1670.7	1670.7	1671.5	1686.7	1701.2	1717.1
22.5°	1770.1	1775.9	1744.0	1698.3	1677.3	1678.7	1684.5	1699.7	1717.9	1739.6
25°	1818.7	1823.0	1783.9	1722.9	1699.0	1703.4	1708.4	1715.7	1733.1	1758.5
27.5°	1897.0	1900.6	1849.1	1766.5	1730.2	1737.4	1744.7	1739.6	1747.6	1769.4
30°	2007.2	2009.4	1944.1	1834.6	1783.1	1786.8	1788.2	1767.2	1751.9	1769.4
32.5°	2137.7	2137.0	2059.4	1917.3	1843.3	1839.7	1827.4	1786.0	1750.5	1765.7
35°	2340.0	2332.1	2232.0	2033.3	1911.5	1889.0	1860.0	1807.1	1757.8	1762.1
37.5°	2675.1	2650.4	2511.9	2223.3	2013.0	1955.7	1912.9	1841.1	1773.7	1760.7
40°	3052.9	3021.7	2869.4	2483.6	2165.3	2073.2	2004.3	1889.7	1799.8	1767.2
42.5°	3501.0	3456.8	3292.9	2790.4	2358.2	2224.7	2121.0	1951.4	1838.2	1788.2
45°	4051.4	3992.6	3760.6	3136.2	2601.1	2423.4	2284.9	2044.9	1897.0	1828.8
47.5°	4607.6	4622.1	4292.1	3532.2	2892.6	2668.5	2490.1	2185.6	1982.5	1894.1
50°	5198.6	5208.7	4820.8	3970.9	3223.3	2945.5	2720.7	2342.9	2101.5	1986.9
52.5°	5659.8	5661.2	5300.8	4429.9	3567.7	3250.1	2969.5	2522.8	2239.2	2110.2
55°	5948.4	5944.7	5637.3	4864.3	3963.6	3569.9	3245.0	2727.3	2407.5	2255.2
57.5°	6157.9	6147.0	5869.3	5237.7	4385.7	3947.7	3556.8	2959.3	2606.2	2427.8
60°	6237.7	6231.2	6026.7	5560.4	4829.5	4365.4	3916.5	3218.9	2831.7	2631.5
62.5°	6268.1	6280.5	6181.1	5872.9	5304.4	4828.0	4311.7	3529.3	3085.5	2862.1
65°	6375.5	6397.9	6377.6	6281.9	5841.0	5369.7	4836.0	3898.4	3362.5	3109.4
67.5°	6587.9	6610.4	6619.1	6771.4	6496.6	6044.8	5490.1	4358.1	3686.6	3366.1
70°	6582.9	6576.3	6730.1	7160.8	7317.4	6979.5	6371.8	4923.7	4073.1	3579.3
72.5°	5991.9	5939.7	6303.0	7156.5	8000.5	7955.6	7448.7	5653.2	4406.7	3605.4
75°	4495.2	4355.9	4997.7	6449.4	8114.4	8509.6	8133.2	6105.7	4327.7	3185.6
77.5°	1922.4	1782.4	2538.7	4774.4	7262.3	7954.8	7505.2	5326.9	3454.6	2106.5
80°	503.3	502.5	767.2	2164.6	4939.0	5874.4	5153.6	3440.1	1973.8	752.7
82.5°	208.1	203.0	282.1	841.9	2413.3	3296.5	2690.3	1534.4	712.8	203.8
85°	77.6	76.9	137.1	290.8	851.3	1359.6	984.0	392.3	177.7	99.3
87.5°	21.8	21.0	29.7	100.8	207.4	314.7	168.2	64.5	50.0	39.2
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°
1563.4	0°	1563.4	1563.4	1563.4	1563.4	1563.4	1563.4	1563.4	1563.4	1563.4	1563.4
1566.3	2.5°	1568.5	1572.1	1578.6	1583.7	1590.2	1597.5	1607.6	1614.2	1620.7	1625.0
1569.9	5°	1575.0	1583.0	1599.7	1616.3	1635.9	1654.1	1675.1	1690.3	1702.6	1706.3
1583.0	7.5°	1589.5	1602.6	1630.8	1659.1	1690.3	1720.0	1750.5	1776.6	1797.6	1805.6
1606.2	10°	1614.9	1632.3	1672.2	1712.1	1753.4	1799.1	1838.2	1875.9	1905.7	1918.0
1633.8	12.5°	1646.8	1668.6	1720.8	1775.9	1833.2	1896.3	1947.0	1993.4	2030.4	2047.1
1672.2	15°	1688.1	1716.4	1783.1	1857.1	1941.2	2029.0	2093.5	2145.0	2186.3	2206.6
1712.1	17.5°	1733.1	1770.8	1854.9	1966.6	2087.0	2202.3	2277.7	2315.4	2358.2	2377.7
1749.0	20°	1776.6	1823.0	1943.4	2105.8	2266.1	2388.6	2449.5	2459.7	2462.6	2464.8
1783.9	22.5°	1821.6	1883.9	2054.3	2281.3	2453.2	2538.0	2546.7	2503.2	2442.3	2414.0
1817.9	25°	1870.9	1953.5	2199.4	2474.9	2614.1	2624.3	2557.6	2451.7	2336.4	2283.5
1845.5	27.5°	1918.7	2034.0	2373.4	2659.8	2730.2	2641.0	2497.4	2347.3	2208.1	2152.2
1865.1	30°	1966.6	2126.1	2565.6	2821.5	2783.1	2599.6	2402.4	2234.9	2094.9	2036.2
1882.5	32.5°	2015.2	2233.4	2786.7	2938.3	2773.7	2511.9	2284.2	2108.7	1985.4	1923.8
1897.7	35°	2070.3	2365.4	2996.3	3002.1	2710.6	2382.8	2128.3	1957.9	1850.6	1801.3
1915.8	37.5°	2142.1	2532.9	3181.2	3018.1	2600.4	2193.6	1934.7	1779.5	1691.0	1668.6
1942.7	40°	2231.3	2734.5	3322.6	2992.7	2437.2	1963.7	1722.9	1598.9	1548.9	1554.0
1978.9	42.5°	2347.3	2960.0	3422.0	2927.4	2210.2	1726.6	1537.3	1482.2	1506.1	1526.4
2033.3	45°	2498.1	3194.3	3483.6	2816.5	1953.5	1525.7	1427.8	1440.9	1459.0	1461.2
2121.0	47.5°	2691.0	3431.4	3524.2	2649.0	1691.8	1384.3	1358.2	1361.1	1357.5	1342.2
2252.3	50°	2931.8	3662.0	3560.5	2427.1	1469.1	1295.8	1261.0	1250.9	1200.8	1151.5
2427.1	52.5°	3205.9	3873.7	3575.7	2151.5	1295.8	1221.9	1165.3	1101.5	1008.0	992.7
2646.8	55°	3510.4	4069.5	3536.5	1812.9	1150.1	1126.9	1041.3	964.4	954.3	941.2
2936.1	57.5°	3874.4	4280.5	3456.8	1435.1	1000.7	1015.9	932.5	941.2	923.1	902.8
3308.1	60°	4272.6	4498.8	3316.8	1090.6	846.2	877.4	904.3	903.5	898.5	881.8
3700.4	62.5°	4630.8	4642.4	3041.3	835.4	710.6	770.1	843.3	842.6	838.3	828.8
4110.1	65°	4844.0	4620.6	2581.5	657.7	599.0	681.6	760.7	766.5	767.2	766.5
4418.3	67.5°	4806.3	4366.1	1950.6	523.6	506.9	591.7	678.7	686.7	692.5	694.0
4457.5	70°	4379.9	3807.0	1271.9	417.7	424.9	512.7	601.1	609.1	614.2	620.0
3867.9	72.5°	3414.0	2799.1	728.0	337.9	353.1	444.5	524.3	533.7	536.6	547.5
2691.7	75°	2080.4	1646.1	393.0	266.1	290.1	380.0	448.1	459.0	464.1	477.1
1321.9	77.5°	989.1	712.8	224.1	207.4	233.5	310.4	378.5	390.9	377.1	384.3
364.7	80°	334.3	264.7	141.4	158.1	178.4	242.2	303.1	315.4	286.4	285.0
121.1	82.5°	116.7	107.3	89.9	105.1	115.3	173.3	229.1	245.1	213.2	212.5
54.4	85°	45.7	43.5	50.0	57.3	68.9	106.6	150.8	158.8	131.3	105.9
16.0	87.5°	9.4	10.2	12.3	13.1	21.0	37.0	54.4	66.7	52.9	45.0
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>
1563.4
1622.1
1707.7
1806.3
1918.7
2047.1
2205.2
2377.0
2470.6
2422.0
2291.5
2158.8
2042.7
1931.8
1812.1
1684.5
1571.4
1545.3
1475.7
1353.8
1158.1
997.8
943.4
899.2
876.0
825.2
766.5
695.4
622.9
551.8
478.6
378.5
282.1
202.3
104.4
41.3
0.0

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