

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: P940902

Luminaire Tested: **GALN-SB4A-940-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940902
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-SB4A-940-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 4000K, 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: 12914 lumens
Efficiency: N/A
Efficacy: 113.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

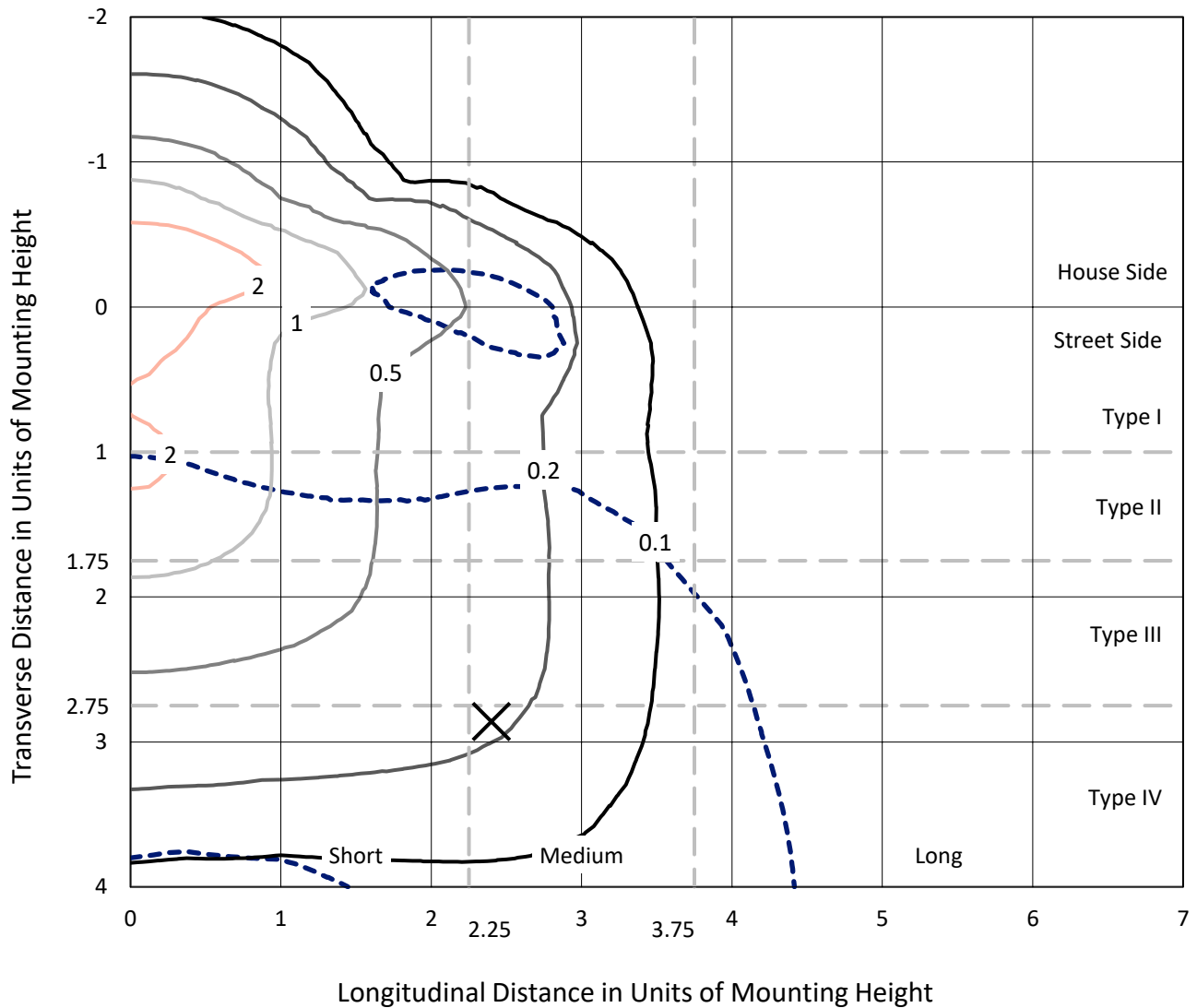
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

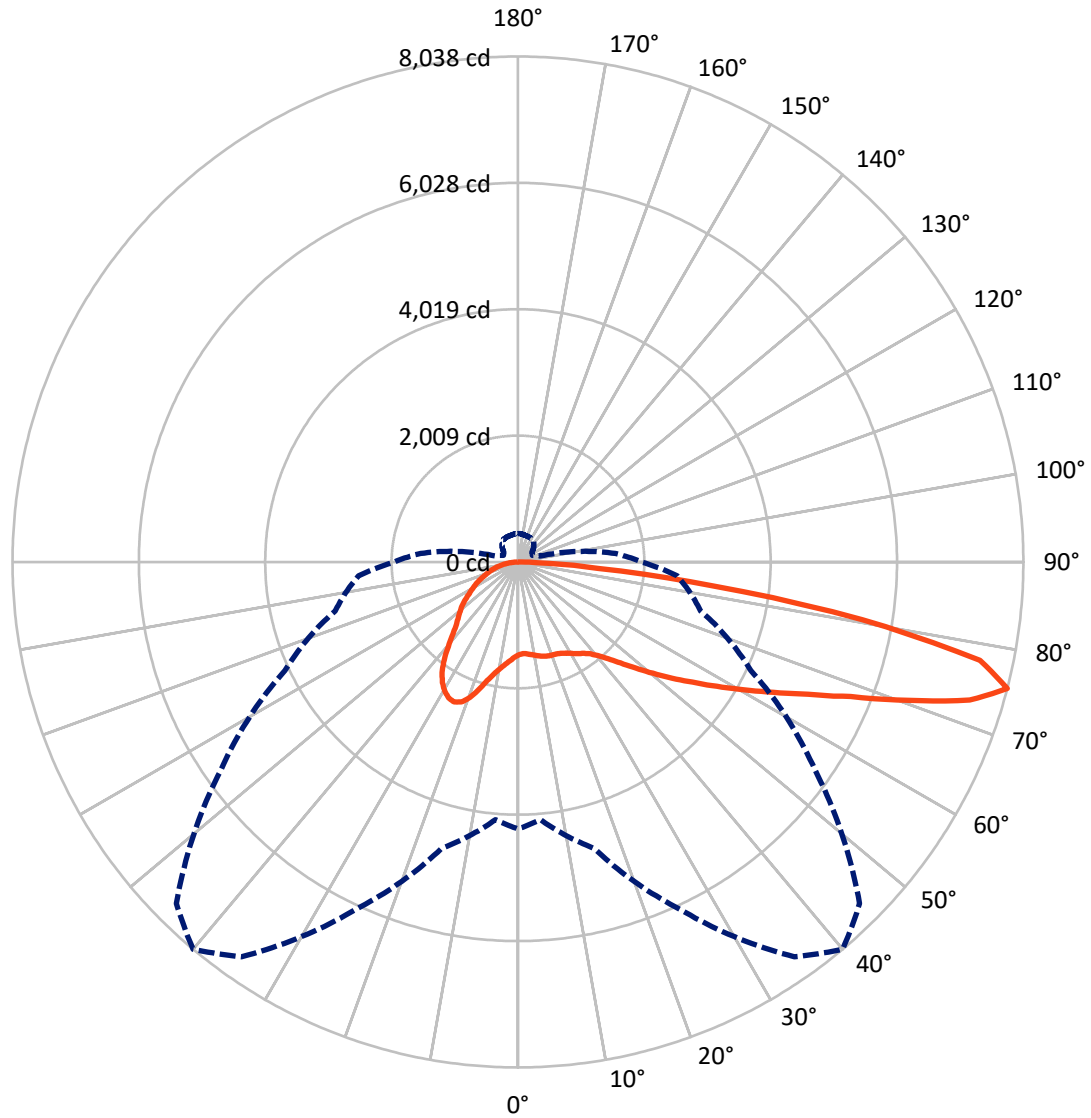
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 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	4001.2	0.0	4001.2
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	8912.8	0.0	8912.8
	% Fixture	69.0	0.0	69.0
Total	Lumens	12914.0	0.0	12914.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.4	1.1
10°-20°	494.9	3.8
20°-30°	903.7	7.0
30°-40°	1281.6	9.9
40°-50°	1730.6	13.4
50°-60°	2328.1	18.0
60°-70°	2954.9	22.9
70°-80°	2681.8	20.8
80°-90°	390.9	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°	12914.0	100.0
0°-180°	12914.0	100.0



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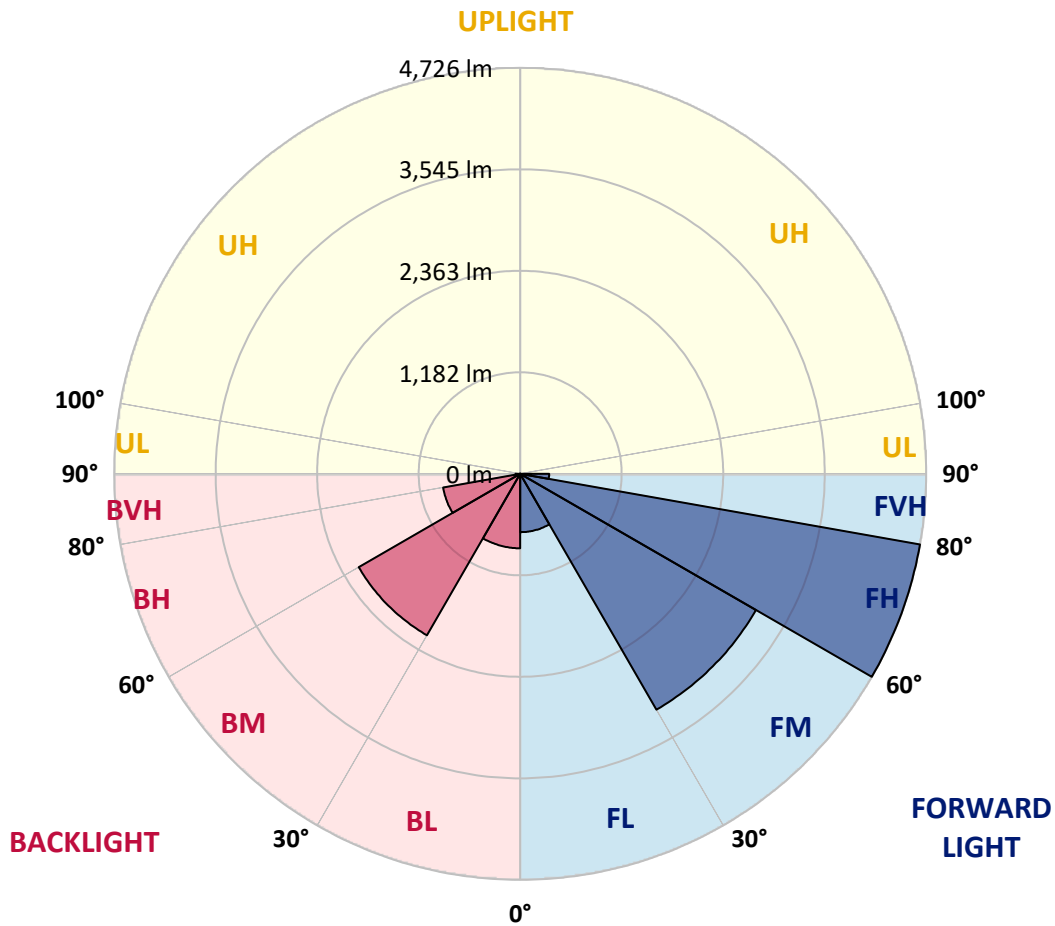
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	679.3	5.3			
FM (30°-60°)	3170.1	24.5			
FH (60°-80°)	4726.3	36.6			G2/5000
FVH (80°-90°)	337.1	2.6			G3/500
BL (0°-30°)	866.7	6.7	B2/1000		
BM (30°-60°)	2170.3	16.8	B2/2500		
BH (60°-80°)	910.4	7.0	B2/1000		G2/1000
BVH (80°-90°)	53.8	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°	1476.7	1476.7	1476.7	1476.7	1476.7	1476.7	1476.7	1476.7	1476.7	1476.7
2.5°	1454.1	1462.3	1460.3	1457.6	1457.6	1458.2	1457.6	1462.3	1467.1	1471.9
5°	1469.2	1477.4	1473.3	1469.9	1467.1	1466.5	1464.4	1463.7	1466.5	1472.6
7.5°	1498.7	1506.9	1500.7	1494.5	1489.1	1486.3	1483.6	1479.5	1477.4	1480.8
10°	1531.5	1539.7	1532.2	1521.3	1512.4	1508.9	1506.2	1502.1	1499.3	1501.4
12.5°	1564.4	1572.6	1562.4	1547.3	1535.6	1533.6	1530.2	1528.8	1528.1	1527.4
15°	1595.2	1602.1	1589.1	1571.3	1558.9	1555.5	1552.1	1554.1	1557.6	1561.7
17.5°	1619.2	1626.1	1606.9	1583.6	1571.9	1570.6	1568.5	1575.4	1585.0	1595.2
20°	1641.1	1648.0	1623.3	1591.8	1578.1	1578.1	1578.8	1593.2	1606.9	1621.9
22.5°	1671.9	1677.4	1647.3	1604.1	1584.3	1585.6	1591.1	1605.5	1622.6	1643.2
25°	1717.8	1721.9	1685.0	1627.4	1604.8	1608.9	1613.7	1620.6	1637.0	1661.0
27.5°	1791.8	1795.2	1746.6	1668.5	1634.3	1641.1	1648.0	1643.2	1650.7	1671.3
30°	1895.9	1898.0	1836.3	1732.9	1684.3	1687.7	1689.1	1669.2	1654.8	1671.3
32.5°	2019.2	2018.5	1945.2	1811.0	1741.1	1737.7	1726.1	1687.0	1653.4	1667.8
35°	2210.3	2202.8	2108.2	1920.6	1805.5	1784.3	1756.9	1706.9	1660.3	1664.4
37.5°	2526.7	2503.5	2372.6	2100.0	1901.4	1847.3	1806.9	1739.1	1675.4	1663.0
40°	2883.6	2854.1	2710.3	2345.9	2045.2	1958.2	1893.2	1785.0	1700.0	1669.2
42.5°	3306.9	3265.1	3110.3	2635.7	2227.4	2101.4	2003.5	1843.2	1736.3	1689.1
45°	3826.8	3771.3	3552.1	2962.4	2456.9	2289.1	2158.2	1931.5	1791.8	1727.4
47.5°	4352.1	4365.8	4054.2	3336.3	2732.2	2520.6	2352.1	2064.4	1872.6	1789.1
50°	4910.3	4919.9	4553.5	3750.7	3044.6	2782.2	2569.9	2213.0	1985.0	1876.7
52.5°	5346.0	5347.3	5006.9	4184.3	3369.9	3069.9	2804.8	2382.9	2115.1	1993.2
55°	5618.6	5615.1	5324.7	4594.6	3743.9	3372.0	3065.1	2576.1	2274.0	2130.2
57.5°	5816.5	5806.2	5543.9	4947.3	4142.5	3728.8	3359.6	2795.2	2461.7	2293.2
60°	5891.9	5885.7	5692.5	5252.1	4561.7	4123.3	3699.4	3040.5	2674.7	2485.7
62.5°	5920.6	5932.3	5838.4	5547.3	5010.3	4560.3	4072.7	3333.6	2914.4	2703.5
65°	6022.0	6043.2	6024.1	5933.6	5517.2	5072.0	4567.9	3682.2	3176.1	2937.0
67.5°	6222.7	6243.9	6252.1	6396.0	6136.4	5709.7	5185.7	4116.5	3482.2	3179.5
70°	6217.9	6211.7	6356.9	6763.8	6911.7	6592.6	6018.6	4650.8	3847.3	3380.9
72.5°	5659.7	5610.4	5953.5	6759.7	7557.0	7514.5	7035.7	5339.8	4162.4	3405.5
75°	4246.0	4114.4	4720.6	6091.9	7664.5	8037.8	7682.3	5767.2	4087.7	3008.9
77.5°	1815.8	1683.6	2398.0	4509.7	6859.7	7513.8	7089.1	5031.6	3263.1	1989.8
80°	475.3	474.7	724.7	2044.5	4665.1	5548.7	4867.9	3249.4	1864.4	711.0
82.5°	196.6	191.8	266.4	795.2	2279.5	3113.7	2541.1	1449.3	673.3	192.5
85°	73.3	72.6	129.5	274.7	804.1	1284.3	929.5	370.6	167.8	93.8
87.5°	20.5	19.9	28.1	95.2	195.9	297.3	158.9	61.0	47.3	37.0
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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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1476.7	0°	1476.7	1476.7	1476.7	1476.7	1476.7	1476.7	1476.7	1476.7	1476.7	1476.7
1479.5	2.5°	1481.5	1485.0	1491.1	1495.9	1502.1	1508.9	1518.5	1524.7	1530.8	1535.0
1482.9	5°	1487.7	1495.2	1511.0	1526.7	1545.2	1562.4	1582.2	1596.6	1608.2	1611.7
1495.2	7.5°	1501.4	1513.7	1540.4	1567.1	1596.6	1624.7	1653.4	1678.1	1698.0	1705.5
1517.1	10°	1525.4	1541.8	1579.5	1617.1	1656.2	1699.3	1736.3	1771.9	1800.0	1811.7
1543.2	12.5°	1555.5	1576.0	1625.4	1677.4	1731.5	1791.1	1839.1	1882.9	1917.8	1933.6
1579.5	15°	1594.5	1621.3	1684.3	1754.1	1833.6	1916.5	1977.4	2026.1	2065.1	2084.3
1617.1	17.5°	1637.0	1672.6	1752.1	1857.6	1971.3	2080.2	2151.4	2187.0	2227.4	2245.9
1652.1	20°	1678.1	1721.9	1835.6	1989.1	2140.4	2256.2	2313.7	2323.3	2326.1	2328.1
1685.0	22.5°	1720.6	1779.5	1940.4	2154.8	2317.2	2397.3	2405.5	2364.4	2306.9	2280.2
1717.1	25°	1767.1	1845.2	2077.4	2337.7	2469.2	2478.8	2415.8	2315.8	2206.9	2156.9
1743.2	27.5°	1812.4	1921.3	2241.8	2512.4	2578.8	2494.6	2358.9	2217.2	2085.6	2032.9
1761.7	30°	1857.6	2008.2	2423.3	2665.1	2628.8	2455.5	2269.2	2111.0	1978.8	1923.3
1778.1	32.5°	1903.5	2109.6	2632.2	2775.4	2619.9	2372.6	2157.6	1991.8	1875.4	1817.1
1792.5	35°	1955.5	2234.3	2830.2	2835.7	2560.3	2250.7	2010.3	1849.3	1748.0	1701.4
1809.6	37.5°	2023.3	2392.5	3004.8	2850.7	2456.2	2071.9	1827.4	1680.8	1597.3	1576.0
1835.0	40°	2107.6	2582.9	3138.4	2826.8	2302.1	1854.8	1627.4	1510.3	1463.0	1467.8
1869.2	42.5°	2217.2	2795.9	3232.2	2765.1	2087.7	1630.8	1452.1	1400.0	1422.6	1441.8
1920.6	45°	2359.6	3017.2	3290.5	2660.3	1845.2	1441.1	1348.6	1361.0	1378.1	1380.2
2003.5	47.5°	2541.8	3241.1	3328.8	2502.1	1598.0	1307.6	1282.9	1285.6	1282.2	1267.8
2127.4	50°	2769.2	3459.0	3363.1	2292.5	1387.7	1224.0	1191.1	1181.5	1134.3	1087.7
2292.5	52.5°	3028.1	3659.0	3377.4	2032.2	1224.0	1154.1	1100.7	1040.4	952.1	937.7
2500.0	55°	3315.8	3843.9	3340.5	1712.4	1086.3	1064.4	983.6	911.0	901.4	889.1
2773.3	57.5°	3659.6	4043.2	3265.1	1355.5	945.2	959.6	880.8	889.1	871.9	852.8
3124.7	60°	4035.7	4249.4	3132.9	1030.2	799.3	828.8	854.1	853.4	848.6	832.9
3495.3	62.5°	4374.0	4385.0	2872.6	789.1	671.2	727.4	796.6	795.9	791.8	782.9
3882.2	65°	4575.4	4364.4	2438.4	621.2	565.8	643.8	718.5	724.0	724.7	724.0
4173.3	67.5°	4539.8	4124.0	1842.5	494.5	478.8	558.9	641.1	648.6	654.1	655.5
4210.3	70°	4137.0	3595.9	1201.4	394.5	401.4	484.3	567.8	575.4	580.1	585.6
3653.5	72.5°	3224.7	2643.9	687.7	319.2	333.6	419.9	495.2	504.1	506.9	517.1
2542.5	75°	1965.1	1554.8	371.2	251.4	274.0	358.9	423.3	433.6	438.4	450.7
1248.6	77.5°	934.3	673.3	211.6	195.9	220.6	293.2	357.5	369.2	356.2	363.0
344.5	80°	315.8	250.0	133.6	149.3	168.5	228.8	286.3	297.9	270.6	269.2
114.4	82.5°	110.3	101.4	84.9	99.3	108.9	163.7	216.4	231.5	201.4	200.7
51.4	85°	43.2	41.1	47.3	54.1	65.1	100.7	142.5	150.0	124.0	100.0
15.1	87.5°	8.9	9.6	11.6	12.3	19.9	34.9	51.4	63.0	50.0	42.5
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>
1476.7
1532.2
1613.0
1706.2
1812.4
1933.6
2082.9
2245.2
2333.6
2287.7
2164.4
2039.1
1929.5
1824.7
1711.7
1591.1
1484.3
1459.6
1393.9
1278.8
1093.9
942.5
891.1
849.3
827.4
779.5
724.0
656.9
588.4
521.2
452.1
357.5
266.4
191.1
98.6
39.0
0.0

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