

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: P940102

Luminaire Tested: **GALN-SB3A-735-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940102
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-SB3A-735-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 3500K, 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: 13341 lumens
Efficiency: N/A
Efficacy: 157.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

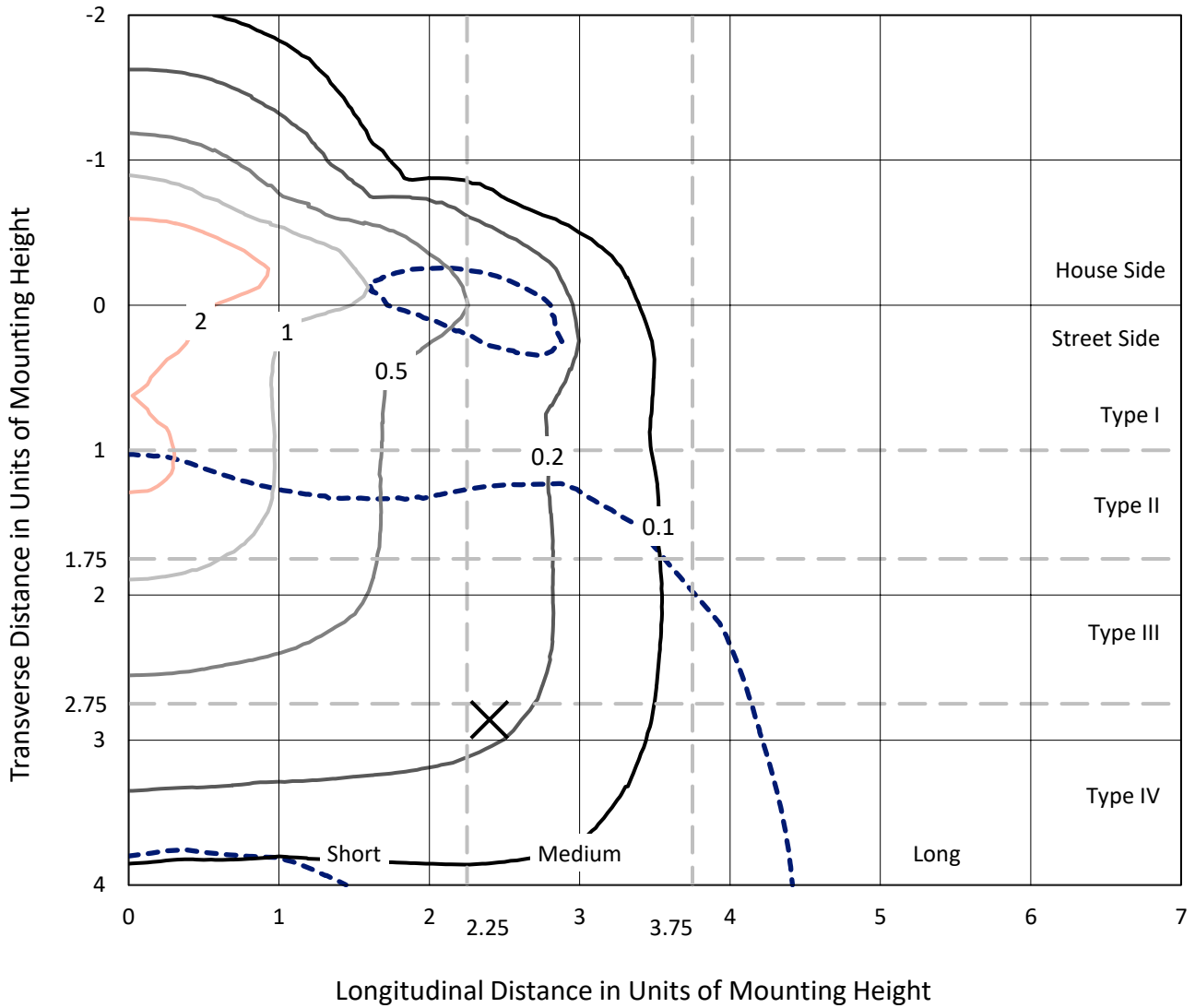
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

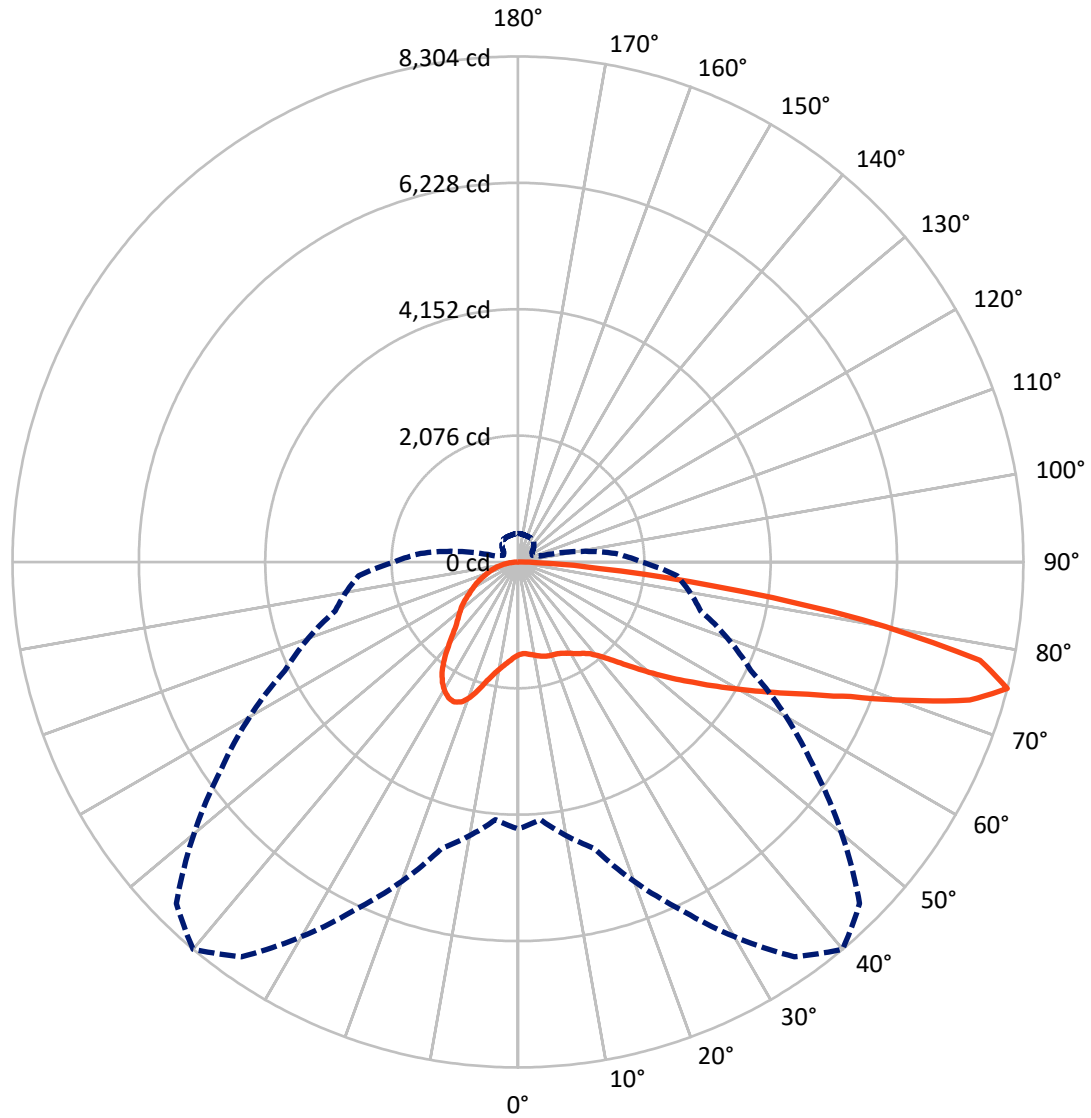
✕ Max cd
 - - - 1/2 Max cd



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	4133.5	0.0	4133.5
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	9207.5	0.0	9207.5
	% Fixture	69.0	0.0	69.0
Total	Lumens	13341.0	0.0	13341.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.3	1.1
10°-20°	511.3	3.8
20°-30°	933.5	7.0
30°-40°	1324.0	9.9
40°-50°	1787.8	13.4
50°-60°	2405.1	18.0
60°-70°	3052.6	22.9
70°-80°	2770.5	20.8
80°-90°	403.8	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°	13341.0	100.0
0°-180°	13341.0	100.0



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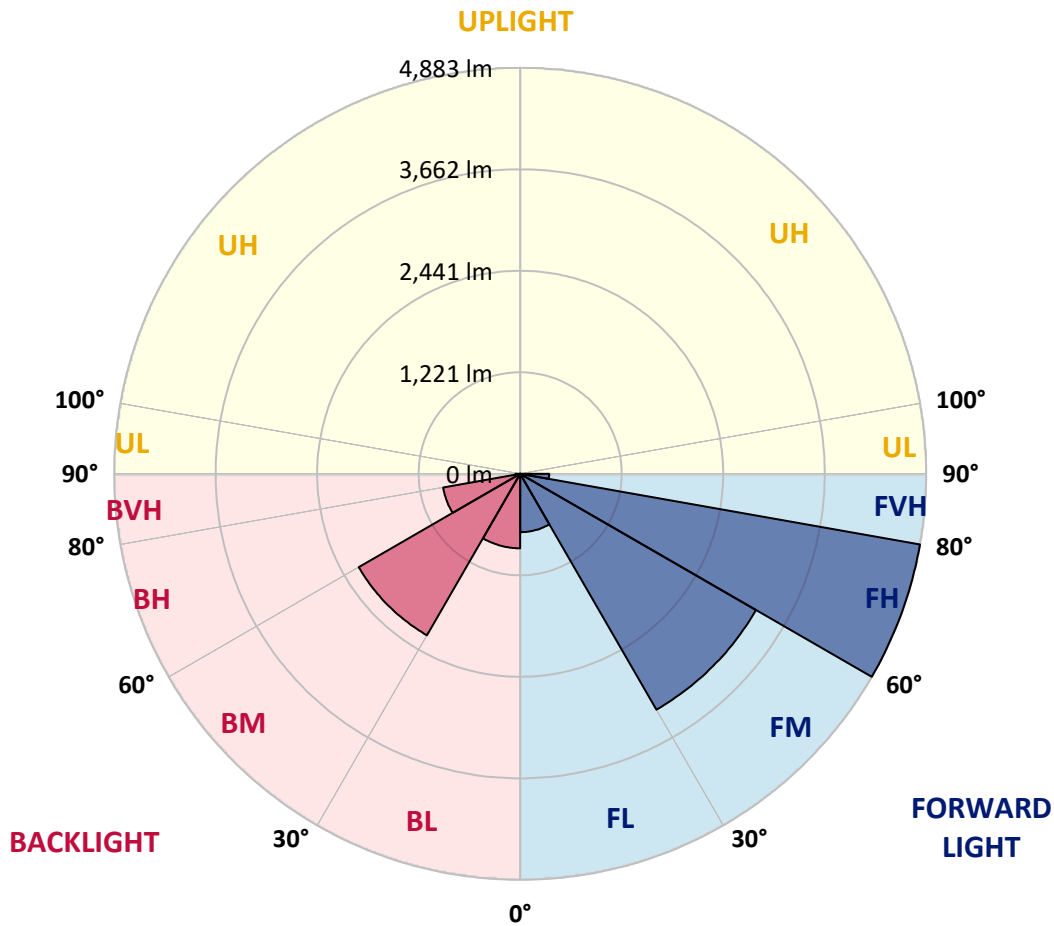
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	701.8	5.3			
FM (30°-60°)	3274.9	24.5			
FH (60°-80°)	4882.6	36.6			G2/5000
FVH (80°-90°)	348.2	2.6			G3/500
BL (0°-30°)	895.4	6.7	B2/1000		
BM (30°-60°)	2242.0	16.8	B2/2500		
BH (60°-80°)	940.5	7.0	B2/1000		G2/1000
BVH (80°-90°)	55.6	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°	1525.6	1525.6	1525.6	1525.6	1525.6	1525.6	1525.6	1525.6	1525.6	1525.6
2.5°	1502.2	1510.7	1508.6	1505.7	1505.7	1506.5	1505.7	1510.7	1515.7	1520.6
5°	1517.8	1526.3	1522.0	1518.5	1515.7	1514.9	1512.8	1512.1	1514.9	1521.3
7.5°	1548.2	1556.7	1550.3	1544.0	1538.3	1535.5	1532.6	1528.4	1526.3	1529.8
10°	1582.2	1590.7	1582.9	1571.6	1562.4	1558.8	1556.0	1551.7	1548.9	1551.0
12.5°	1616.1	1624.6	1614.0	1598.4	1586.4	1584.3	1580.8	1579.3	1578.6	1577.9
15°	1648.0	1655.0	1641.6	1623.2	1610.5	1606.9	1603.4	1605.5	1609.1	1613.3
17.5°	1672.7	1679.8	1660.0	1635.9	1623.9	1622.5	1620.4	1627.5	1637.4	1648.0
20°	1695.4	1702.5	1677.0	1644.4	1630.3	1630.3	1631.0	1645.9	1660.0	1675.6
22.5°	1727.2	1732.9	1701.8	1657.2	1636.7	1638.1	1643.7	1658.6	1676.3	1697.5
25°	1774.6	1778.9	1740.7	1681.2	1657.9	1662.1	1667.1	1674.2	1691.1	1715.9
27.5°	1851.1	1854.6	1804.4	1723.7	1688.3	1695.4	1702.5	1697.5	1705.3	1726.5
30°	1958.6	1960.7	1897.0	1790.2	1740.0	1743.5	1744.9	1724.4	1709.5	1726.5
32.5°	2086.0	2085.3	2009.6	1870.9	1798.7	1795.2	1783.1	1742.8	1708.1	1723.0
35°	2283.4	2275.6	2178.0	1984.1	1865.2	1843.3	1815.0	1763.3	1715.2	1719.4
37.5°	2610.3	2586.2	2451.1	2169.5	1964.3	1908.4	1866.6	1796.6	1730.8	1718.0
40°	2978.9	2948.5	2799.9	2423.5	2112.9	2023.0	1955.8	1844.0	1756.2	1724.4
42.5°	3416.2	3373.1	3213.2	2722.8	2301.1	2170.9	2069.7	1904.1	1793.7	1744.9
45°	3953.3	3896.0	3669.6	3060.3	2538.1	2364.8	2229.6	1995.4	1851.1	1784.5
47.5°	4496.0	4510.2	4188.2	3446.7	2822.6	2603.9	2429.9	2132.7	1934.5	1848.2
50°	5072.7	5082.6	4704.0	3874.8	3145.2	2874.2	2654.9	2286.2	2050.6	1938.8
52.5°	5522.7	5524.1	5172.5	4322.7	3481.3	3171.4	2897.6	2461.7	2185.0	2059.1
55°	5804.3	5800.8	5500.8	4746.5	3867.7	3483.5	3166.5	2661.2	2349.2	2200.6
57.5°	6008.8	5998.2	5727.2	5110.9	4279.5	3852.1	3470.7	2887.7	2543.1	2369.0
60°	6086.7	6080.3	5880.8	5425.8	4712.5	4259.7	3821.7	3141.0	2763.1	2567.8
62.5°	6116.4	6128.4	6031.5	5730.8	5176.0	4711.1	4207.3	3443.8	3010.8	2792.9
65°	6221.1	6243.1	6223.2	6129.8	5699.6	5239.7	4718.9	3804.0	3281.1	3034.1
67.5°	6428.4	6450.4	6458.9	6607.5	6339.3	5898.5	5357.2	4252.6	3597.4	3284.6
70°	6423.5	6417.1	6567.1	6987.4	7140.3	6810.5	6217.6	4804.5	3974.5	3492.7
72.5°	5846.8	5795.9	6150.4	6983.2	7806.8	7763.0	7268.4	5516.4	4300.0	3518.1
75°	4386.3	4250.5	4876.7	6293.3	7917.9	8303.6	7936.3	5957.9	4222.9	3108.4
77.5°	1875.8	1739.3	2477.3	4658.8	7086.5	7762.2	7323.5	5197.9	3371.0	2055.5
80°	491.1	490.4	748.6	2112.2	4819.4	5732.2	5028.8	3356.8	1926.1	734.5
82.5°	203.1	198.1	275.3	821.5	2354.9	3216.7	2625.2	1497.3	695.6	198.8
85°	75.7	75.0	133.7	283.7	830.7	1326.7	960.2	382.8	173.4	96.9
87.5°	21.2	20.5	29.0	98.4	202.4	307.1	164.2	63.0	48.8	38.2
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°
1525.6	0°	1525.6	1525.6	1525.6	1525.6	1525.6	1525.6	1525.6	1525.6	1525.6	1525.6
1528.4	2.5°	1530.5	1534.1	1540.4	1545.4	1551.7	1558.8	1568.7	1575.1	1581.5	1585.7
1531.9	5°	1536.9	1544.7	1560.9	1577.2	1596.3	1614.0	1634.5	1649.4	1661.4	1665.0
1544.7	7.5°	1551.0	1563.8	1591.4	1619.0	1649.4	1678.4	1708.1	1733.6	1754.1	1761.9
1567.3	10°	1575.8	1592.8	1631.7	1670.6	1710.9	1755.5	1793.7	1830.5	1859.5	1871.6
1594.2	12.5°	1606.9	1628.2	1679.1	1732.9	1788.8	1850.3	1899.9	1945.2	1981.2	1997.5
1631.7	15°	1647.3	1674.9	1740.0	1812.1	1894.2	1979.8	2042.8	2093.0	2133.4	2153.2
1670.6	17.5°	1691.1	1727.9	1810.0	1919.0	2036.4	2148.9	2222.5	2259.3	2301.1	2320.2
1706.7	20°	1733.6	1778.9	1896.3	2054.8	2211.2	2330.8	2390.2	2400.1	2403.0	2405.1
1740.7	22.5°	1777.5	1838.3	2004.6	2226.1	2393.8	2476.6	2485.1	2442.6	2383.2	2355.6
1773.9	25°	1825.6	1906.2	2146.1	2415.0	2550.9	2560.8	2495.7	2392.4	2279.9	2228.2
1800.8	27.5°	1872.3	1984.8	2315.9	2595.4	2664.1	2577.0	2436.9	2290.5	2154.6	2100.1
1819.9	30°	1919.0	2074.6	2503.4	2753.2	2715.7	2536.7	2344.2	2180.8	2044.2	1986.9
1836.9	32.5°	1966.4	2179.4	2719.3	2867.1	2706.5	2451.1	2228.9	2057.7	1937.4	1877.2
1851.8	35°	2020.2	2308.2	2923.8	2929.4	2645.0	2325.1	2076.8	1910.5	1805.8	1757.7
1869.4	37.5°	2090.2	2471.6	3104.2	2945.0	2537.4	2140.5	1887.8	1736.4	1650.1	1628.2
1895.6	40°	2177.3	2668.3	3242.2	2920.2	2378.2	1916.2	1681.2	1560.2	1511.4	1516.4
1931.0	42.5°	2290.5	2888.4	3339.1	2856.5	2156.7	1684.8	1500.1	1446.3	1469.7	1489.5
1984.1	45°	2437.6	3116.9	3399.3	2748.3	1906.2	1488.8	1393.2	1406.0	1423.7	1425.8
2069.7	47.5°	2625.9	3348.3	3438.9	2584.8	1650.8	1350.8	1325.3	1328.1	1324.6	1309.7
2197.8	50°	2860.8	3573.3	3474.3	2368.3	1433.6	1264.5	1230.5	1220.6	1171.8	1123.7
2368.3	52.5°	3128.2	3779.9	3489.1	2099.4	1264.5	1192.3	1137.1	1074.8	983.5	968.7
2582.7	55°	3425.4	3971.0	3450.9	1769.0	1122.2	1099.6	1016.1	941.1	931.2	918.5
2865.0	57.5°	3780.6	4176.9	3373.1	1400.3	976.5	991.3	910.0	918.5	900.8	880.9
3228.0	60°	4169.1	4389.9	3236.5	1064.2	825.8	856.2	882.4	881.7	876.7	860.4
3610.8	62.5°	4518.7	4530.0	2967.6	815.1	693.4	751.5	822.9	822.2	818.0	808.8
4010.6	65°	4726.7	4508.8	2519.0	641.8	584.5	665.1	742.3	747.9	748.6	747.9
4311.3	67.5°	4689.9	4260.4	1903.4	510.9	494.6	577.4	662.3	670.1	675.7	677.2
4349.5	70°	4273.8	3714.8	1241.1	407.6	414.6	500.3	586.6	594.4	599.3	605.0
3774.3	72.5°	3331.3	2731.3	710.4	329.7	344.6	433.8	511.6	520.8	523.6	534.2
2626.6	75°	2030.1	1606.2	383.5	259.7	283.0	370.8	437.3	447.9	452.9	465.6
1289.9	77.5°	965.2	695.6	218.6	202.4	227.8	302.8	369.4	381.4	367.9	375.0
355.9	80°	326.2	258.3	138.0	154.3	174.1	236.3	295.8	307.8	279.5	278.1
118.2	82.5°	113.9	104.7	87.7	102.6	112.5	169.1	223.6	239.2	208.0	207.3
53.1	85°	44.6	42.5	48.8	55.9	67.2	104.0	147.2	155.0	128.1	103.3
15.6	87.5°	9.2	9.9	12.0	12.7	20.5	36.1	53.1	65.1	51.7	43.9
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>
1525.6
1582.9
1666.4
1762.6
1872.3
1997.5
2151.8
2319.5
2410.8
2363.3
2236.0
2106.5
1993.3
1885.0
1768.3
1643.7
1533.3
1507.9
1439.9
1321.1
1130.0
973.6
920.6
877.4
854.8
805.2
747.9
678.6
607.8
538.5
467.0
369.4
275.3
197.4
101.9
40.3
0.0

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