

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: P939812

Luminaire Tested: **GALN-SB2C-830-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939812
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-SB2C-830-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13340 lumens
Efficiency: N/A
Efficacy: 132.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

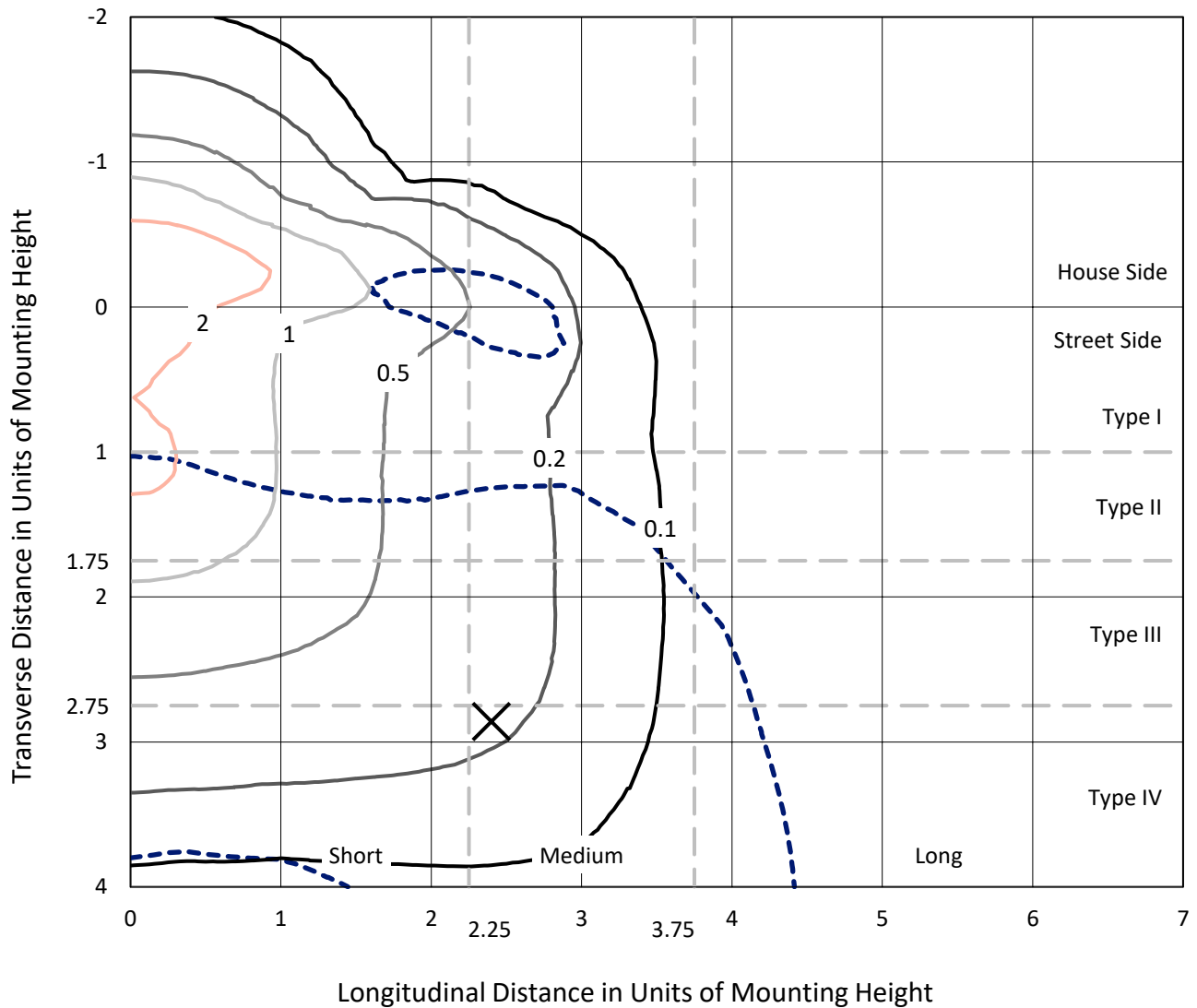
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

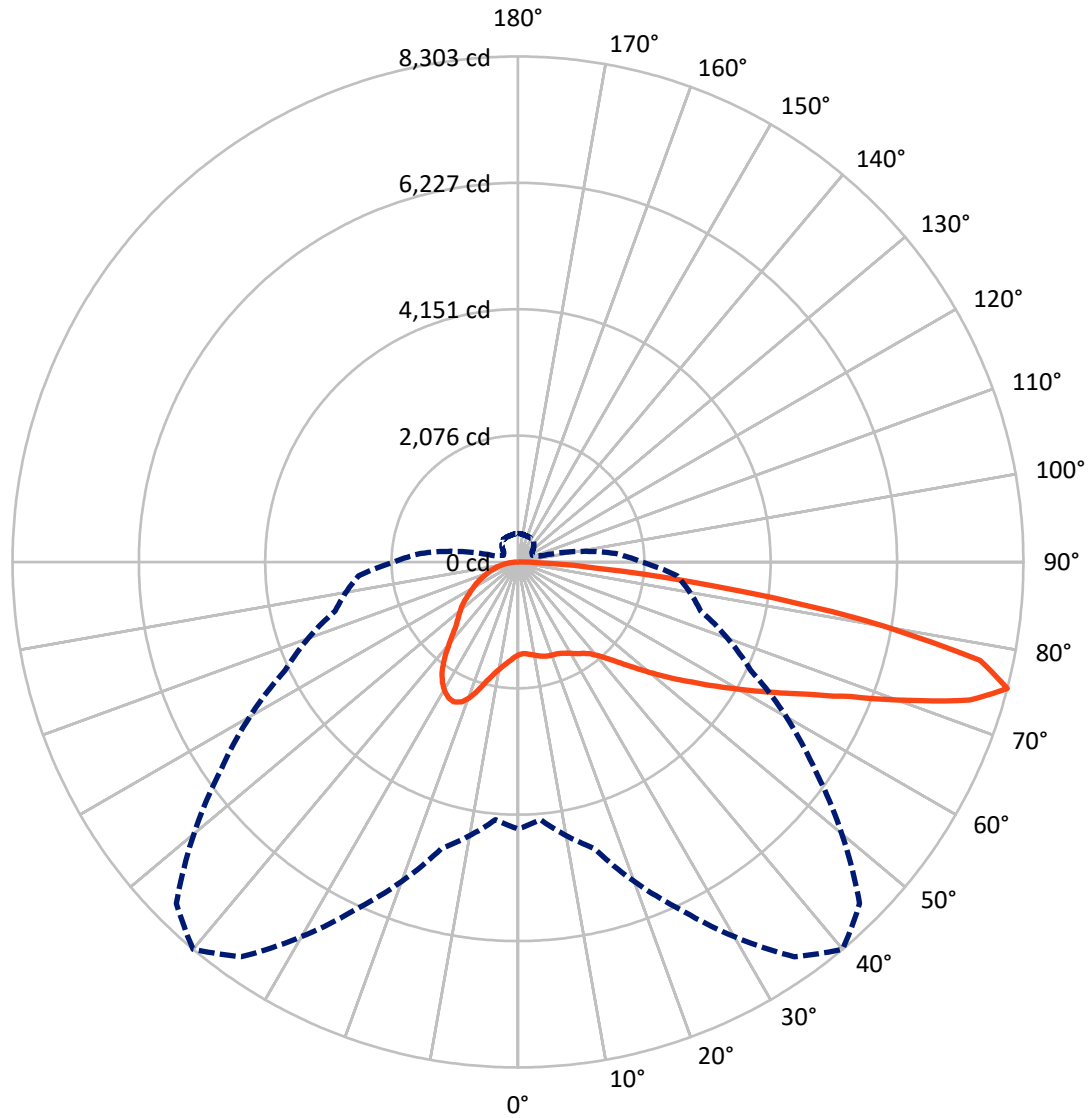
✕ Max cd
 - - - 1/2 Max cd



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	4133.2	0.0	4133.2
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	9206.8	0.0	9206.8
	% Fixture	69.0	0.0	69.0
Total	Lumens	13340.0	0.0	13340.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.3	1.1
10°-20°	511.2	3.8
20°-30°	933.5	7.0
30°-40°	1323.9	9.9
40°-50°	1787.7	13.4
50°-60°	2404.9	18.0
60°-70°	3052.4	22.9
70°-80°	2770.2	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°	13340.0	100.0
0°-180°	13340.0	100.0



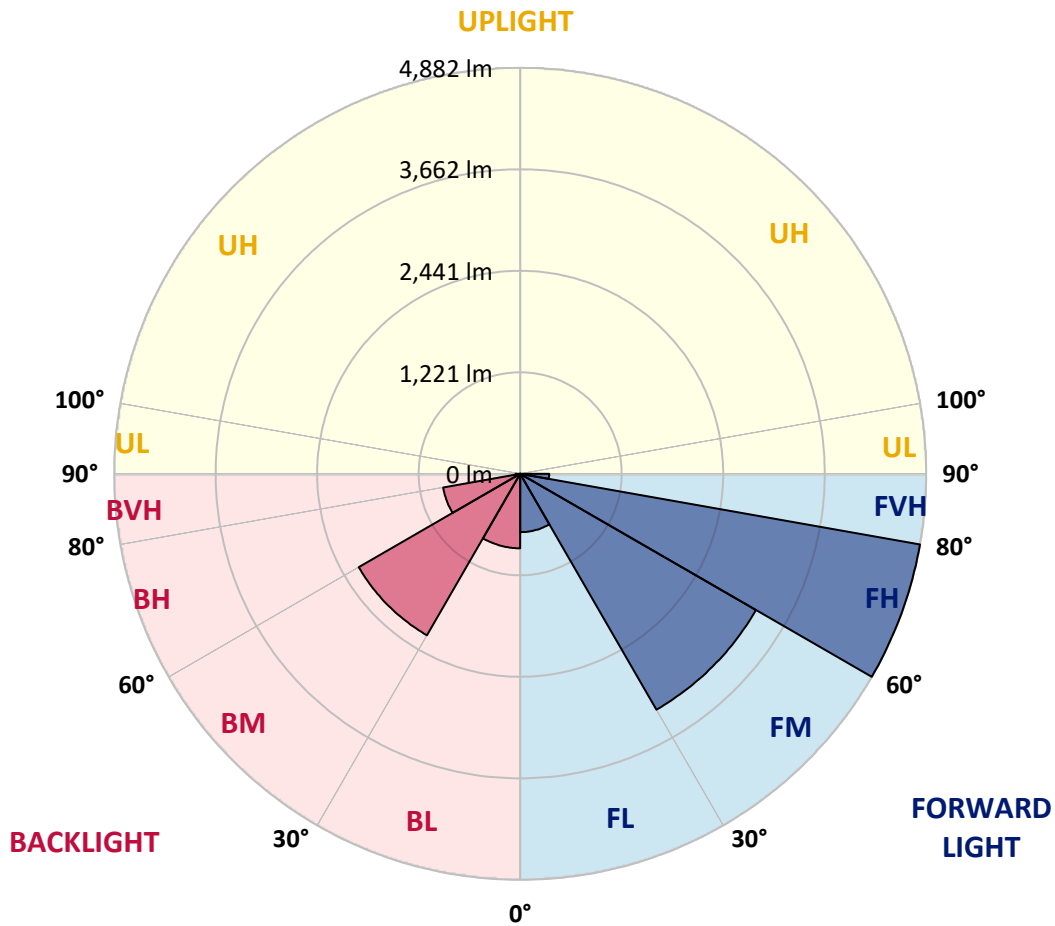
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	701.7	5.3			
FM (30°-60°)	3274.7	24.5			
FH (60°-80°)	4882.2	36.6			G2/5000
FVH (80°-90°)	348.2	2.6			G3/500
BL (0°-30°)	895.3	6.7	B2/1000		
BM (30°-60°)	2241.9	16.8	B2/2500		
BH (60°-80°)	940.4	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°	1525.4	1525.4	1525.4	1525.4	1525.4	1525.4	1525.4	1525.4	1525.4	1525.4
2.5°	1502.1	1510.6	1508.5	1505.6	1505.6	1506.3	1505.6	1510.6	1515.5	1520.5
5°	1517.7	1526.2	1521.9	1518.4	1515.5	1514.8	1512.7	1512.0	1514.8	1521.2
7.5°	1548.1	1556.6	1550.2	1543.8	1538.2	1535.4	1532.5	1528.3	1526.2	1529.7
10°	1582.0	1590.5	1582.8	1571.4	1562.2	1558.7	1555.9	1551.6	1548.8	1550.9
12.5°	1616.0	1624.5	1613.9	1598.3	1586.3	1584.2	1580.6	1579.2	1578.5	1577.8
15°	1647.9	1654.9	1641.5	1623.1	1610.4	1606.8	1603.3	1605.4	1608.9	1613.2
17.5°	1672.6	1679.7	1659.9	1635.8	1623.8	1622.4	1620.3	1627.3	1637.2	1647.9
20°	1695.3	1702.3	1676.9	1644.3	1630.2	1630.2	1630.9	1645.7	1659.9	1675.4
22.5°	1727.1	1732.8	1701.6	1657.0	1636.5	1637.9	1643.6	1658.5	1676.2	1697.4
25°	1774.5	1778.7	1740.5	1681.1	1657.8	1662.0	1667.0	1674.0	1691.0	1715.8
27.5°	1850.9	1854.5	1804.2	1723.6	1688.2	1695.3	1702.3	1697.4	1705.2	1726.4
30°	1958.5	1960.6	1896.9	1790.1	1739.8	1743.4	1744.8	1724.3	1709.4	1726.4
32.5°	2085.8	2085.1	2009.4	1870.7	1798.6	1795.0	1783.0	1742.7	1708.0	1722.8
35°	2283.2	2275.4	2177.8	1983.9	1865.1	1843.1	1814.8	1763.2	1715.1	1719.3
37.5°	2610.1	2586.0	2450.9	2169.3	1964.1	1908.2	1866.5	1796.4	1730.6	1717.9
40°	2978.7	2948.3	2799.7	2423.3	2112.7	2022.8	1955.6	1843.8	1756.1	1724.3
42.5°	3416.0	3372.8	3212.9	2722.6	2300.9	2170.7	2069.5	1904.0	1793.6	1744.8
45°	3953.0	3895.7	3669.3	3060.1	2537.9	2364.6	2229.4	1995.3	1850.9	1784.4
47.5°	4495.7	4509.8	4187.9	3446.4	2822.4	2603.7	2429.7	2132.5	1934.4	1848.1
50°	5072.3	5082.2	4703.7	3874.5	3145.0	2874.0	2654.7	2286.0	2050.4	1938.6
52.5°	5522.3	5523.7	5172.1	4322.3	3481.1	3171.2	2897.4	2461.5	2184.9	2058.9
55°	5803.9	5800.4	5500.4	4746.1	3867.4	3483.2	3166.2	2661.0	2349.0	2200.4
57.5°	6008.4	5997.8	5726.8	5110.5	4279.2	3851.8	3470.5	2887.5	2542.9	2368.8
60°	6086.2	6079.9	5880.3	5425.4	4712.2	4259.4	3821.4	3140.8	2762.9	2567.6
62.5°	6115.9	6128.0	6031.0	5730.3	5175.6	4710.8	4207.0	3443.6	3010.6	2792.6
65°	6220.7	6242.6	6222.8	6129.4	5699.2	5239.3	4718.6	3803.7	3280.8	3033.9
67.5°	6428.0	6449.9	6458.4	6607.0	6338.8	5898.0	5356.8	4252.3	3597.1	3284.4
70°	6423.0	6416.6	6566.6	6986.9	7139.7	6810.0	6217.1	4804.2	3974.2	3492.4
72.5°	5846.4	5795.4	6149.9	6982.7	7806.2	7762.4	7267.8	5515.9	4299.7	3517.9
75°	4386.0	4250.2	4876.3	6292.8	7917.3	8302.9	7935.7	5957.4	4222.6	3108.2
77.5°	1875.7	1739.1	2477.1	4658.4	7086.0	7761.7	7323.0	5197.6	3370.7	2055.4
80°	491.0	490.3	748.6	2112.0	4819.0	5731.7	5028.5	3356.5	1925.9	734.4
82.5°	203.1	198.1	275.2	821.4	2354.7	3216.5	2625.0	1497.1	695.5	198.8
85°	75.7	75.0	133.7	283.7	830.6	1326.6	960.1	382.8	173.3	96.9
87.5°	21.2	20.5	29.0	98.3	202.4	307.1	164.1	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

REPORT NUMBER: P939812
 CATALOG NUMBER: GALN-SB2C-830-U-SL4

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1525.4	0°	1525.4	1525.4	1525.4	1525.4	1525.4	1525.4	1525.4	1525.4	1525.4	1525.4
1528.3	2.5°	1530.4	1533.9	1540.3	1545.3	1551.6	1558.7	1568.6	1575.0	1581.3	1585.6
1531.8	5°	1536.8	1544.6	1560.8	1577.1	1596.2	1613.9	1634.4	1649.3	1661.3	1664.8
1544.6	7.5°	1550.9	1563.7	1591.2	1618.8	1649.3	1678.3	1708.0	1733.5	1754.0	1761.8
1567.2	10°	1575.7	1592.7	1631.6	1670.5	1710.8	1755.4	1793.6	1830.4	1859.4	1871.4
1594.1	12.5°	1606.8	1628.0	1679.0	1732.8	1788.7	1850.2	1899.7	1945.0	1981.1	1997.4
1631.6	15°	1647.1	1674.7	1739.8	1812.0	1894.1	1979.7	2042.7	2092.9	2133.2	2153.0
1670.5	17.5°	1691.0	1727.8	1809.9	1918.8	2036.3	2148.8	2222.4	2259.2	2300.9	2320.0
1706.6	20°	1733.5	1778.7	1896.2	2054.7	2211.0	2330.6	2390.1	2400.0	2402.8	2404.9
1740.5	22.5°	1777.3	1838.2	2004.4	2225.9	2393.6	2476.4	2484.9	2442.4	2383.0	2355.4
1773.8	25°	1825.4	1906.1	2146.0	2414.8	2550.7	2560.6	2495.5	2392.2	2279.7	2228.0
1800.7	27.5°	1872.1	1984.6	2315.8	2595.2	2663.9	2576.8	2436.8	2290.3	2154.4	2100.0
1819.8	30°	1918.8	2074.5	2503.3	2753.0	2715.5	2536.5	2344.1	2180.6	2044.1	1986.8
1836.8	32.5°	1966.2	2179.2	2719.1	2866.9	2706.3	2450.9	2228.7	2057.5	1937.2	1877.1
1851.6	35°	2020.0	2308.0	2923.5	2929.2	2644.8	2325.0	2076.6	1910.3	1805.6	1757.5
1869.3	37.5°	2090.1	2471.4	3104.0	2944.8	2537.2	2140.3	1887.7	1736.3	1650.0	1628.0
1895.5	40°	2177.1	2668.1	3241.9	2920.0	2378.0	1916.0	1681.1	1560.1	1511.3	1516.2
1930.9	42.5°	2290.3	2888.2	3338.9	2856.3	2156.6	1684.6	1500.0	1446.2	1469.6	1489.4
1983.9	45°	2437.5	3116.7	3399.0	2748.1	1906.1	1488.7	1393.1	1405.9	1423.6	1425.7
2069.5	47.5°	2625.7	3348.1	3438.6	2584.6	1650.7	1350.7	1325.2	1328.0	1324.5	1309.6
2197.6	50°	2860.6	3573.1	3474.0	2368.1	1433.5	1264.4	1230.4	1220.5	1171.7	1123.6
2368.1	52.5°	3128.0	3779.7	3488.9	2099.3	1264.4	1192.2	1137.0	1074.7	983.5	968.6
2582.5	55°	3425.2	3970.7	3450.7	1768.8	1122.2	1099.5	1016.0	941.0	931.1	918.4
2864.8	57.5°	3780.4	4176.6	3372.8	1400.2	976.4	991.3	909.9	918.4	900.7	880.9
3227.8	60°	4168.8	4389.6	3236.3	1064.1	825.7	856.1	882.3	881.6	876.6	860.4
3610.6	62.5°	4518.3	4529.6	2967.4	815.1	693.4	751.4	822.9	822.2	817.9	808.7
4010.3	65°	4726.3	4508.4	2518.8	641.7	584.4	665.1	742.2	747.9	748.6	747.9
4311.0	67.5°	4689.5	4260.1	1903.3	510.8	494.6	577.3	662.3	670.0	675.7	677.1
4349.2	70°	4273.5	3714.6	1241.0	407.5	414.6	500.2	586.5	594.3	599.3	604.9
3774.0	72.5°	3331.1	2731.1	710.4	329.7	344.6	433.7	511.5	520.7	523.6	534.2
2626.4	75°	2029.9	1606.1	383.5	259.7	283.0	370.7	437.3	447.9	452.8	465.6
1289.8	77.5°	965.1	695.5	218.6	202.4	227.8	302.8	369.3	381.4	367.9	375.0
355.9	80°	326.2	258.3	138.0	154.2	174.1	236.3	295.7	307.8	279.5	278.1
118.2	82.5°	113.9	104.7	87.7	102.6	112.5	169.1	223.6	239.1	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>
1525.4
1582.8
1666.2
1762.5
1872.1
1997.4
2151.6
2319.3
2410.6
2363.2
2235.8
2106.3
1993.1
1884.9
1768.1
1643.6
1533.2
1507.8
1439.8
1321.0
1129.9
973.6
920.5
877.3
854.7
805.2
747.9
678.5
607.8
538.4
467.0
369.3
275.2
197.4
101.9
40.3
0.0

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