

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: P940042

Luminaire Tested: **GALN-SB2D-935-U-SL4**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P940042  
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-935-U-SL4  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 90 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

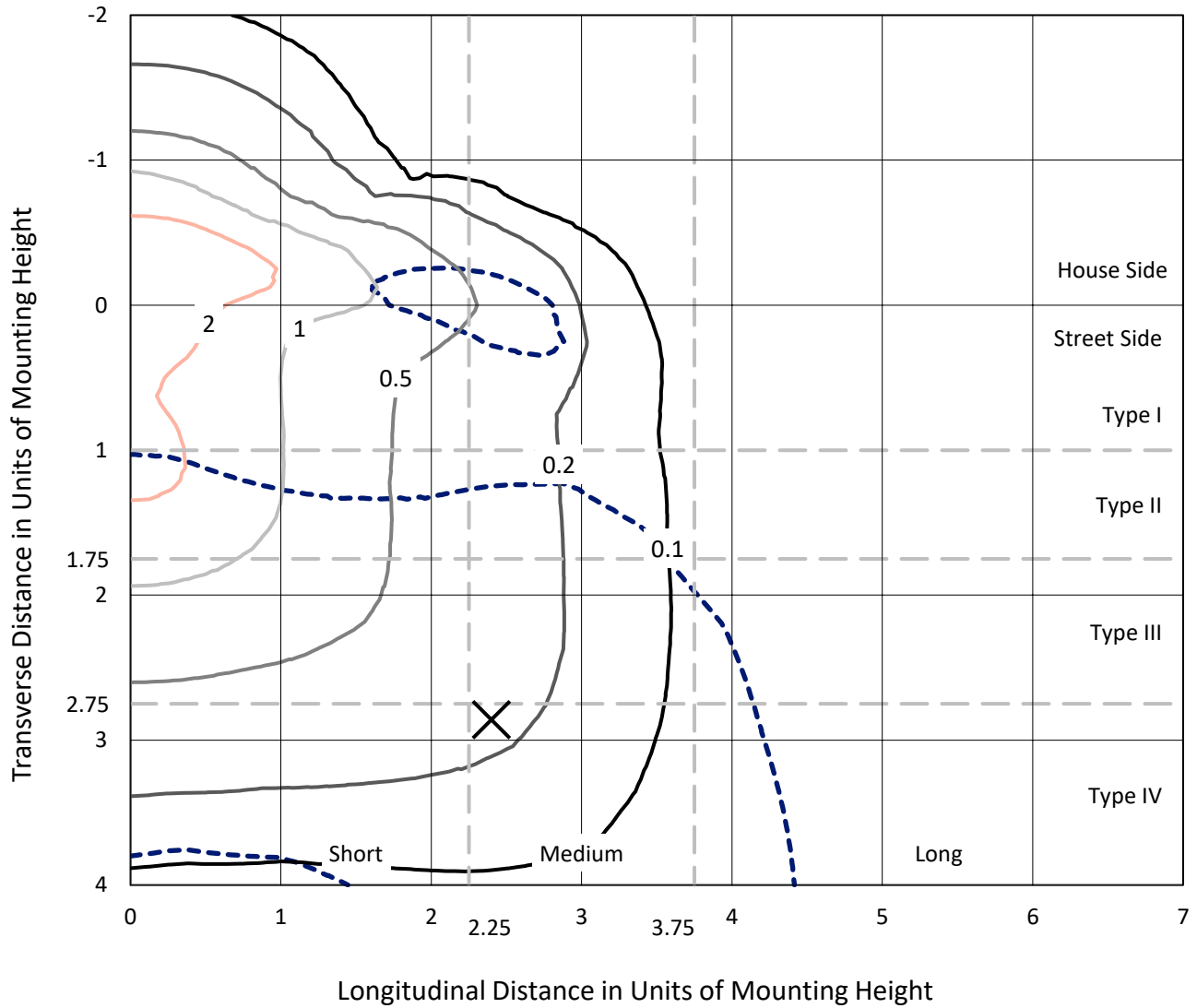
Lumens per Lamp: N/A  
Luminaire Lumens: 14033 lumens  
Efficiency: N/A  
Efficacy: 95.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 147.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

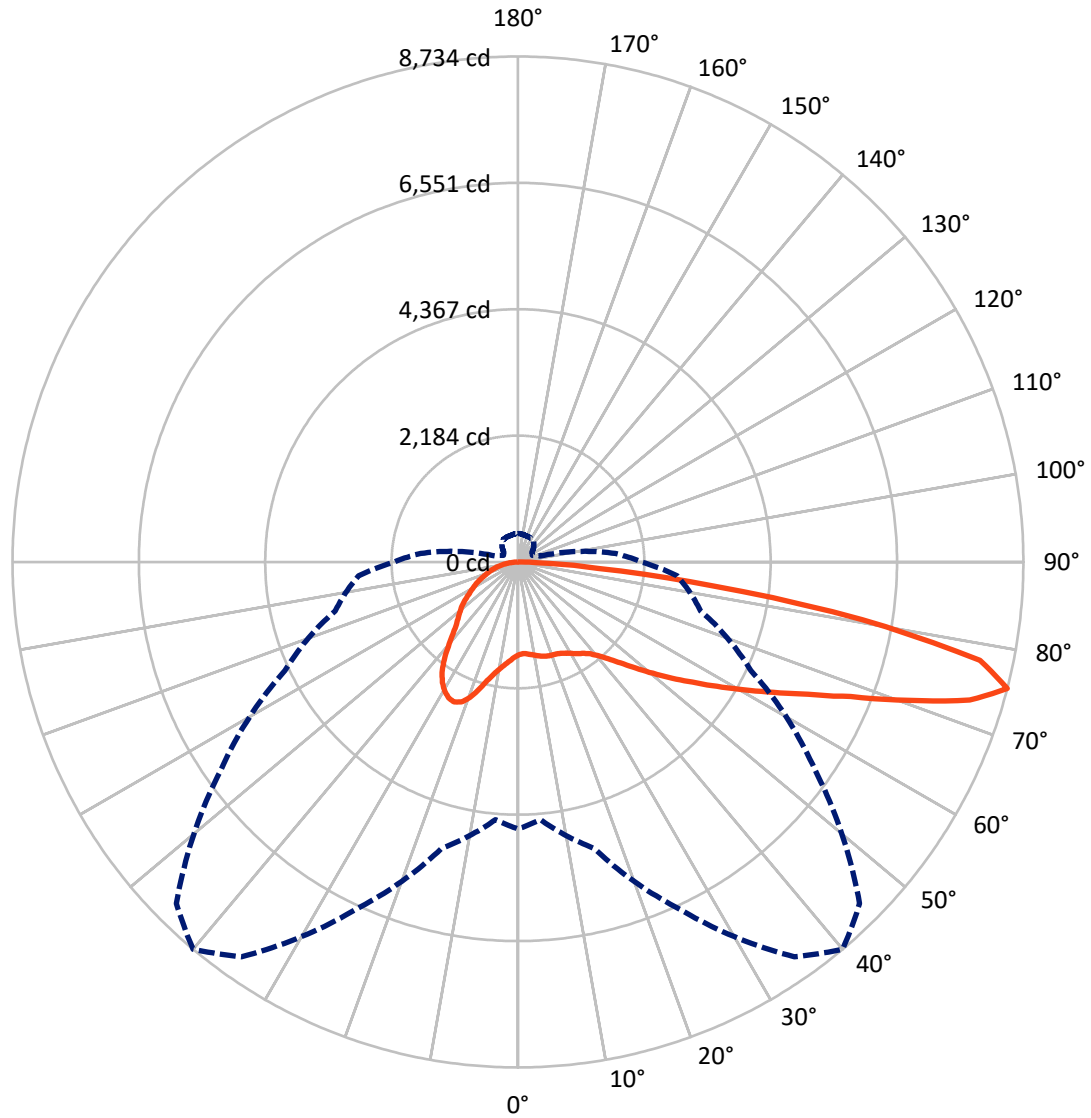
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 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
<b>House Side</b>	Lumens	4347.9	0.0	4347.9
	% Fixture	31.0	0.0	31.0
<b>Street Side</b>	Lumens	9685.1	0.0	9685.1
	% Fixture	69.0	0.0	69.0
<b>Total</b>	Lumens	14033.0	0.0	14033.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	160.2	1.1
10°-20°	537.8	3.8
20°-30°	982.0	7.0
30°-40°	1392.7	9.9
40°-50°	1880.6	13.4
50°-60°	2529.9	18.0
60°-70°	3211.0	22.9
70°-80°	2914.2	20.8
80°-90°	424.8	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°	14033.0	100.0
0°-180°	14033.0	100.0



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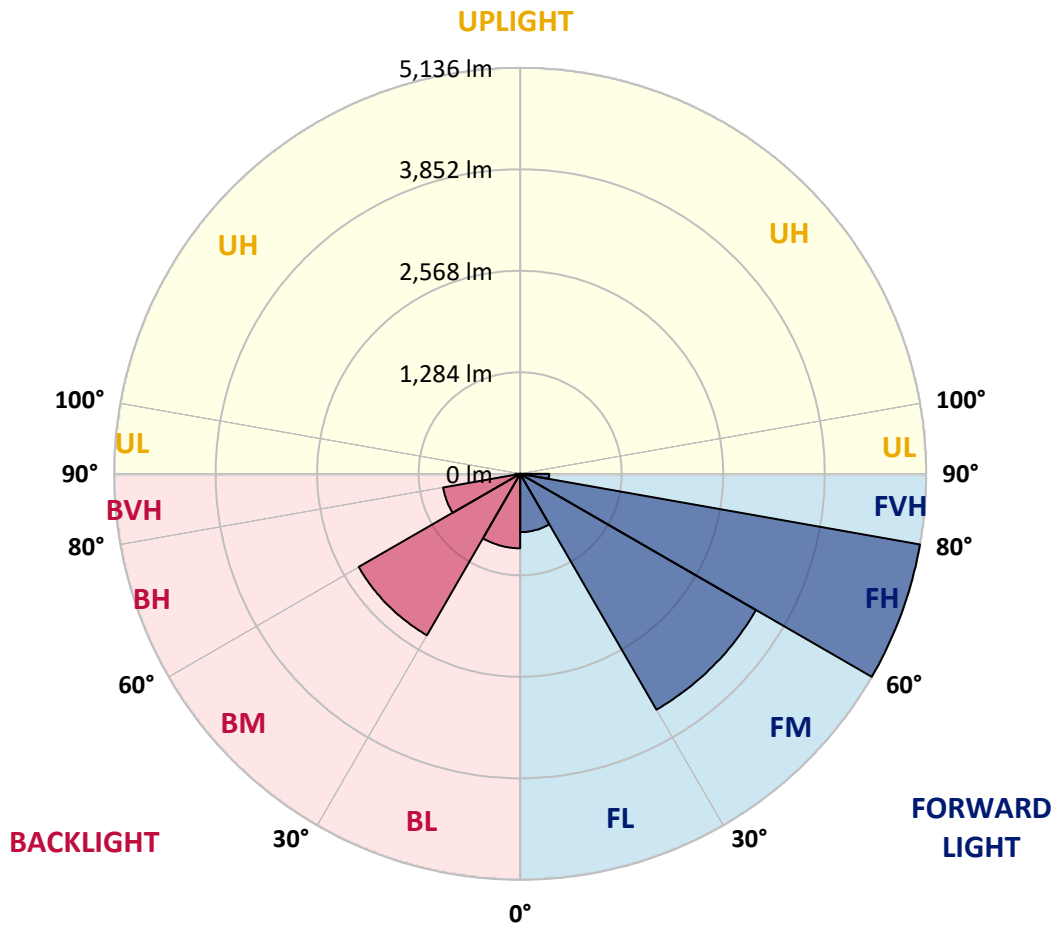
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	738.1	5.3			
FM (30°-60°)	3444.8	24.5			
FH (60°-80°)	5135.9	36.6			G3/7500
FVH (80°-90°)	366.3	2.6			G3/500
BL (0°-30°)	941.8	6.7	B2/1000		
BM (30°-60°)	2358.3	16.8	B2/2500		
BH (60°-80°)	989.3	7.0	B2/1000		G2/1000
BVH (80°-90°)	58.5	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°	1604.7	1604.7	1604.7	1604.7	1604.7	1604.7	1604.7	1604.7	1604.7	1604.7
2.5°	1580.1	1589.1	1586.8	1583.9	1583.9	1584.6	1583.9	1589.1	1594.3	1599.5
5°	1596.5	1605.4	1601.0	1597.2	1594.3	1593.5	1591.3	1590.6	1593.5	1600.2
7.5°	1628.5	1637.4	1630.7	1624.0	1618.1	1615.1	1612.1	1607.7	1605.4	1609.2
10°	1664.2	1673.2	1665.0	1653.1	1643.4	1639.7	1636.7	1632.2	1629.3	1631.5
12.5°	1700.0	1708.9	1697.7	1681.4	1668.7	1666.5	1662.7	1661.3	1660.5	1659.8
15°	1733.5	1740.9	1726.8	1707.4	1694.0	1690.3	1686.6	1688.8	1692.5	1697.0
17.5°	1759.5	1766.9	1746.1	1720.8	1708.1	1706.7	1704.4	1711.9	1722.3	1733.5
20°	1783.3	1790.8	1764.0	1729.7	1714.8	1714.8	1715.6	1731.2	1746.1	1762.5
22.5°	1816.8	1822.8	1790.0	1743.1	1721.5	1723.0	1729.0	1744.6	1763.2	1785.6
25°	1866.7	1871.1	1831.0	1768.4	1743.9	1748.3	1753.6	1761.0	1778.9	1804.9
27.5°	1947.1	1950.8	1897.9	1813.1	1775.9	1783.3	1790.8	1785.6	1793.7	1816.1
30°	2060.2	2062.4	1995.4	1883.1	1830.2	1833.9	1835.4	1813.8	1798.2	1816.1
32.5°	2194.2	2193.4	2113.8	1967.9	1892.0	1888.3	1875.6	1833.2	1796.7	1812.3
35°	2401.8	2393.6	2290.9	2087.0	1962.0	1938.9	1909.1	1854.8	1804.2	1808.6
37.5°	2745.7	2720.4	2578.2	2282.0	2066.2	2007.4	1963.4	1889.8	1820.5	1807.1
40°	3133.5	3101.5	2945.2	2549.2	2222.5	2127.9	2057.2	1939.6	1847.3	1813.8
42.5°	3593.4	3548.0	3379.8	2864.0	2420.4	2283.5	2177.1	2002.9	1886.8	1835.4
45°	4158.4	4098.1	3859.9	3219.1	2669.8	2487.4	2345.3	2098.9	1947.1	1877.1
47.5°	4729.2	4744.1	4405.5	3625.4	2969.0	2739.0	2555.9	2243.3	2034.9	1944.1
50°	5335.8	5346.2	4948.0	4075.7	3308.4	3023.3	2792.6	2404.8	2157.0	2039.4
52.5°	5809.2	5810.7	5440.8	4546.9	3661.9	3335.9	3047.9	2589.4	2298.4	2165.9
55°	6105.4	6101.7	5786.1	4992.7	4068.3	3664.1	3330.7	2799.3	2471.0	2314.7
57.5°	6320.5	6309.4	6024.3	5376.0	4501.5	4051.9	3650.7	3037.5	2675.0	2491.9
60°	6402.4	6395.7	6185.8	5707.2	4957.0	4480.6	4019.9	3303.9	2906.5	2701.0
62.5°	6433.7	6446.3	6344.3	6028.0	5444.5	4955.5	4425.6	3622.5	3167.0	2937.7
65°	6543.8	6566.9	6546.0	6447.8	5995.3	5511.5	4963.7	4001.3	3451.3	3191.5
67.5°	6761.9	6785.0	6793.9	6950.2	6668.1	6204.4	5635.0	4473.2	3784.0	3455.0
70°	6756.7	6750.0	6907.8	7349.9	7510.6	7163.8	6540.1	5053.7	4180.7	3673.8
72.5°	6150.1	6096.5	6469.4	7345.4	8211.8	8165.6	7645.4	5802.5	4523.1	3700.6
75°	4613.9	4471.0	5129.7	6619.7	8328.6	8734.3	8348.0	6266.9	4441.9	3269.7
77.5°	1973.1	1829.5	2605.8	4900.4	7454.1	8164.9	7703.4	5467.6	3545.8	2162.2
80°	516.5	515.8	787.5	2221.7	5069.4	6029.5	5289.7	3530.9	2026.0	772.6
82.5°	213.6	208.4	289.5	864.1	2477.0	3383.5	2761.3	1574.9	731.6	209.1
85°	79.6	78.9	140.7	298.5	873.8	1395.5	1010.0	402.7	182.4	102.0
87.5°	22.3	21.6	30.5	103.5	212.9	323.0	172.7	66.2	51.4	40.2
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°
1604.7	0°	1604.7	1604.7	1604.7	1604.7	1604.7	1604.7	1604.7	1604.7	1604.7	1604.7
1607.7	2.5°	1609.9	1613.6	1620.3	1625.5	1632.2	1639.7	1650.1	1656.8	1663.5	1668.0
1611.4	5°	1616.6	1624.8	1641.9	1659.0	1679.1	1697.7	1719.3	1734.9	1747.6	1751.3
1624.8	7.5°	1631.5	1644.9	1673.9	1702.9	1734.9	1765.5	1796.7	1823.5	1845.1	1853.3
1648.6	10°	1657.5	1675.4	1716.3	1757.3	1799.7	1846.6	1886.8	1925.5	1956.0	1968.7
1676.9	12.5°	1690.3	1712.6	1766.2	1822.8	1881.6	1946.3	1998.4	2046.1	2084.0	2101.1
1716.3	15°	1732.7	1761.7	1830.2	1906.1	1992.5	2082.5	2148.8	2201.6	2244.0	2264.9
1757.3	17.5°	1778.9	1817.6	1903.9	2018.5	2142.1	2260.4	2337.8	2376.5	2420.4	2440.5
1795.2	20°	1823.5	1871.1	1994.7	2161.4	2325.9	2451.7	2514.2	2524.6	2527.6	2529.8
1831.0	22.5°	1869.7	1933.7	2108.6	2341.5	2517.9	2605.0	2614.0	2569.3	2506.8	2477.7
1865.9	25°	1920.3	2005.1	2257.4	2540.3	2683.2	2693.6	2625.1	2516.4	2398.1	2343.8
1894.2	27.5°	1969.4	2087.7	2436.1	2730.1	2802.3	2710.7	2563.3	2409.3	2266.4	2209.1
1914.3	30°	2018.5	2182.3	2633.3	2896.0	2856.6	2668.3	2465.8	2293.9	2150.3	2090.0
1932.2	32.5°	2068.4	2292.4	2860.3	3015.9	2846.9	2578.2	2344.5	2164.4	2037.9	1974.6
1947.8	35°	2125.0	2427.9	3075.4	3081.4	2782.2	2445.7	2184.5	2009.6	1899.4	1848.8
1966.4	37.5°	2198.6	2599.8	3265.2	3097.7	2669.0	2251.5	1985.8	1826.5	1735.7	1712.6
1994.0	40°	2290.2	2806.7	3410.3	3071.7	2501.6	2015.5	1768.4	1641.2	1589.8	1595.0
2031.2	42.5°	2409.3	3038.2	3512.3	3004.7	2268.6	1772.2	1577.9	1521.3	1545.9	1566.7
2087.0	45°	2564.1	3278.6	3575.6	2890.8	2005.1	1566.0	1465.5	1478.9	1497.5	1499.7
2177.1	47.5°	2762.1	3522.0	3617.3	2718.9	1736.4	1420.9	1394.1	1397.0	1393.3	1377.7
2311.8	50°	3009.2	3758.7	3654.5	2491.1	1507.9	1330.0	1294.3	1283.9	1232.5	1181.9
2491.1	52.5°	3290.5	3976.0	3670.1	2208.3	1330.0	1254.1	1196.1	1130.6	1034.6	1018.9
2716.7	55°	3603.1	4177.0	3629.9	1860.7	1180.4	1156.6	1068.8	989.9	979.5	966.1
3013.6	57.5°	3976.7	4393.6	3548.0	1473.0	1027.1	1042.8	957.2	966.1	947.5	926.6
3395.5	60°	4385.4	4617.6	3404.4	1119.4	868.6	900.6	928.1	927.4	922.2	905.1
3798.1	62.5°	4753.0	4765.0	3121.6	857.4	729.4	790.4	865.6	864.9	860.4	850.7
4218.6	65°	4971.9	4742.6	2649.7	675.1	614.8	699.6	780.8	786.7	787.5	786.7
4535.0	67.5°	4933.2	4481.4	2002.1	537.4	520.3	607.3	696.7	704.8	710.8	712.3
4575.2	70°	4495.5	3907.5	1305.5	428.7	436.2	526.2	617.0	625.2	630.4	636.4
3970.1	72.5°	3504.1	2873.0	747.3	346.8	362.5	456.3	538.1	547.8	550.8	561.9
2762.8	75°	2135.4	1689.5	403.4	273.2	297.7	390.0	460.0	471.1	476.3	489.7
1356.8	77.5°	1015.2	731.6	230.0	212.9	239.7	318.6	388.5	401.2	387.0	394.5
374.4	80°	343.1	271.7	145.1	162.3	183.1	248.6	311.1	323.8	294.0	292.5
124.3	82.5°	119.8	110.2	92.3	107.9	118.3	177.9	235.2	251.6	218.8	218.1
55.8	85°	46.9	44.7	51.4	58.8	70.7	109.4	154.8	163.0	134.7	108.7
16.4	87.5°	9.7	10.4	12.7	13.4	21.6	38.0	55.8	68.5	54.3	46.1
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>
1604.7
1665.0
1752.8
1854.0
1969.4
2101.1
2263.4
2439.8
2535.8
2485.9
2352.0
2215.8
2096.7
1982.8
1860.0
1729.0
1612.9
1586.1
1514.6
1389.6
1188.6
1024.1
968.3
922.9
899.1
847.0
786.7
713.8
639.3
566.4
491.2
388.5
289.5
207.7
107.2
42.4
0.0

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