

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: P939802

Luminaire Tested: **GALN-SB2C-827-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939802
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-827-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 2700K, 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: 12910 lumens
Efficiency: N/A
Efficacy: 127.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

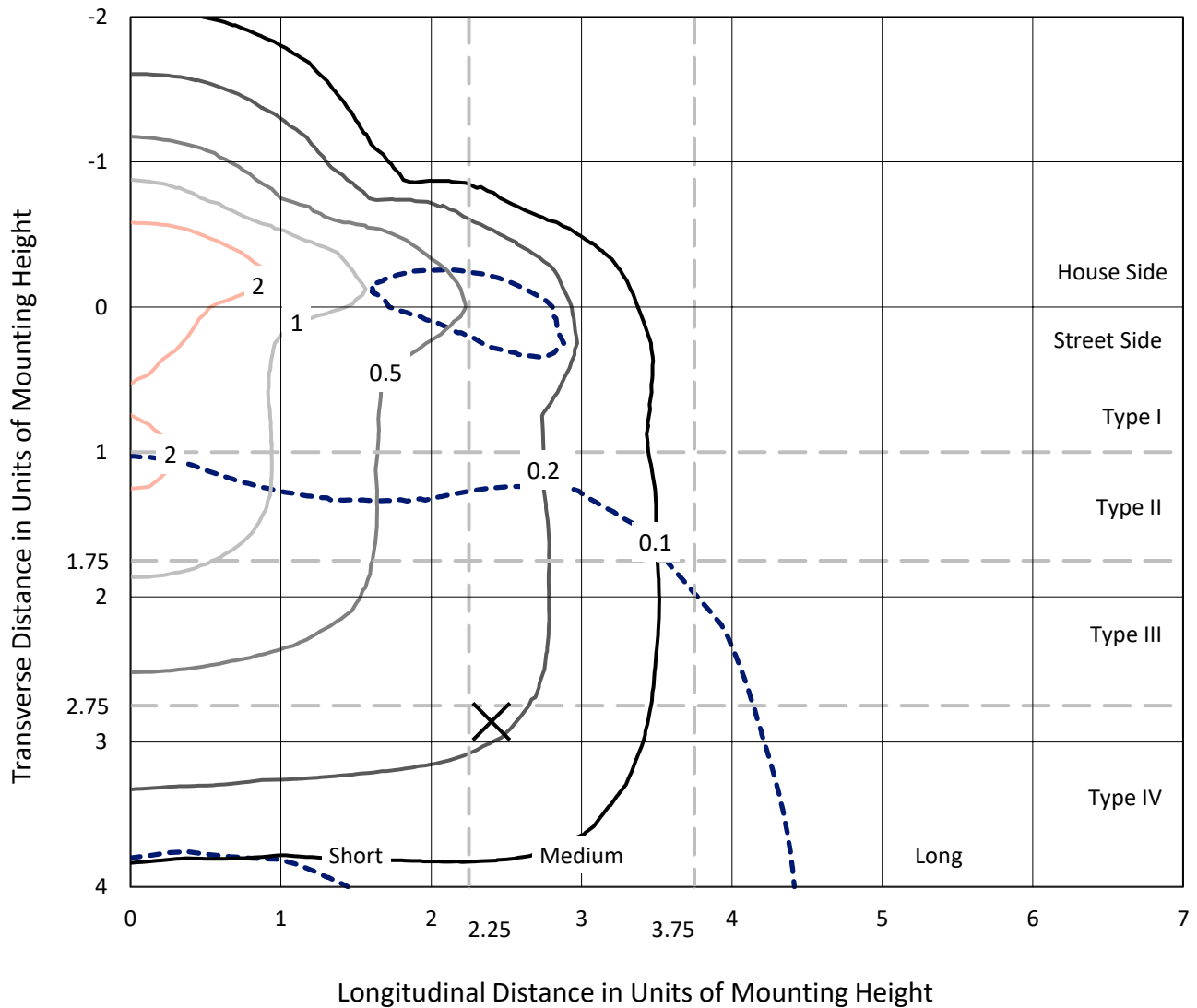
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

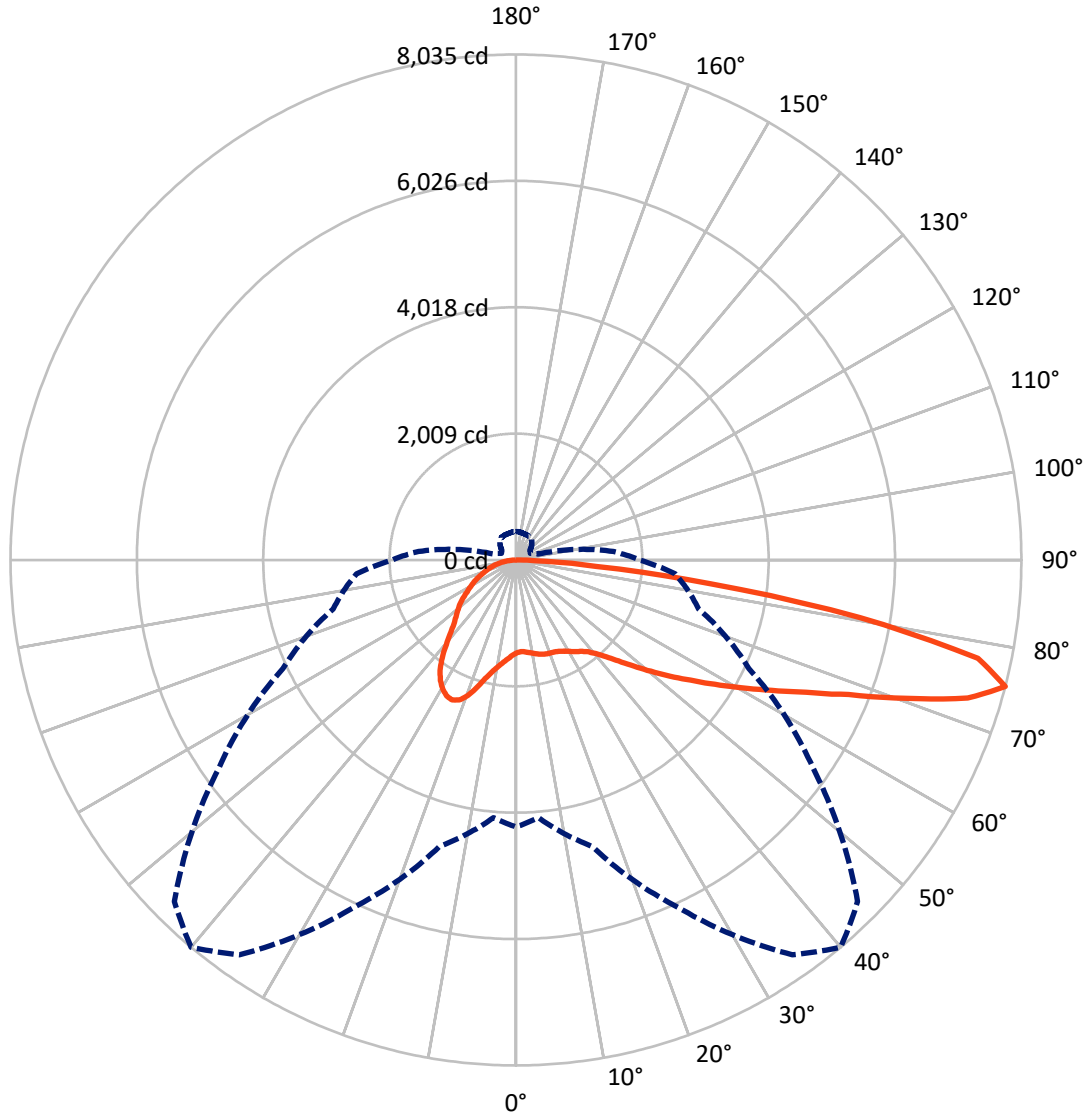
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 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	4000.0	0.0	4000.0
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	8910.1	0.0	8910.1
	% Fixture	69.0	0.0	69.0
Total	Lumens	12910.0	0.0	12910.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.4	1.1
10°-20°	494.8	3.8
20°-30°	903.4	7.0
30°-40°	1281.2	9.9
40°-50°	1730.1	13.4
50°-60°	2327.4	18.0
60°-70°	2954.0	22.9
70°-80°	2681.0	20.8
80°-90°	390.8	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°	12910.0	100.0
0°-180°	12910.0	100.0

Coefficient of Utilization



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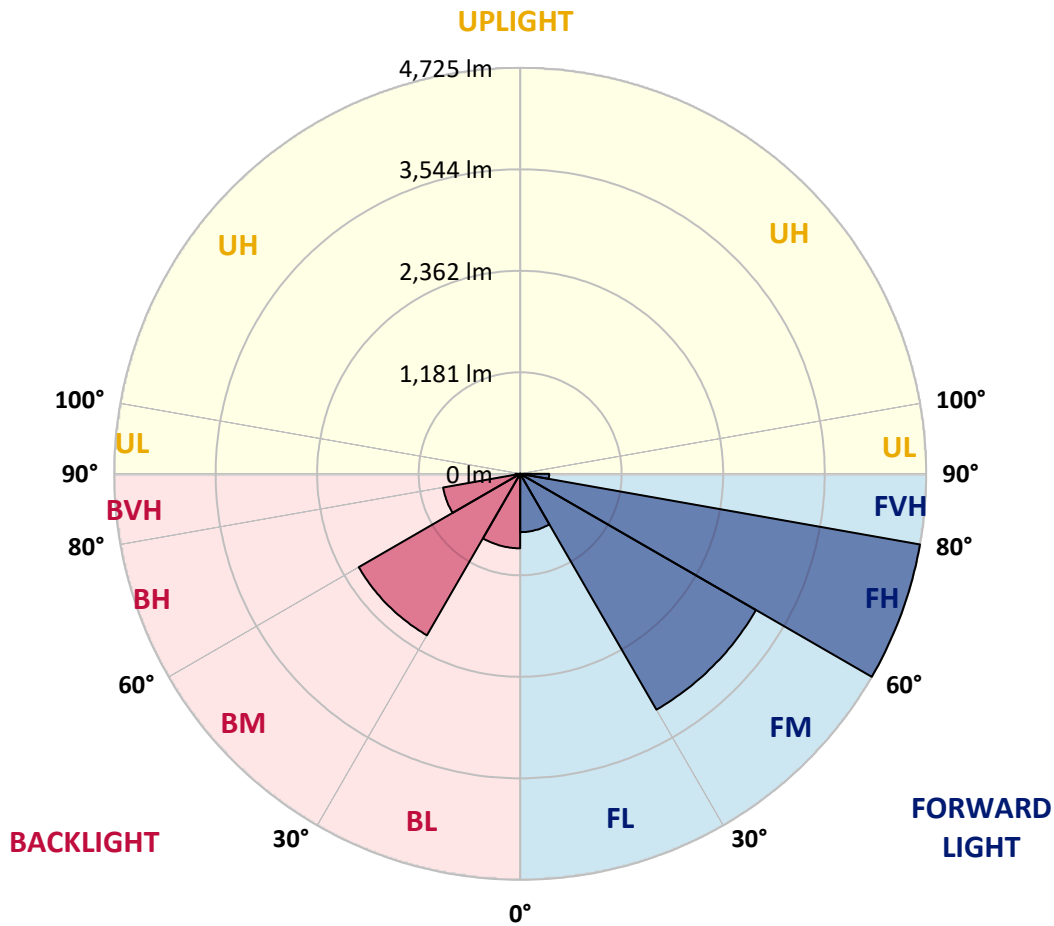
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	679.1	5.3			
FM	(30°-60°)	3169.1	24.5			
FH	(60°-80°)	4724.9	36.6			G2/5000
FVH	(80°-90°)	337.0	2.6			G3/500
BL	(0°-30°)	866.4	6.7	B2/1000		
BM	(30°-60°)	2169.6	16.8	B2/2500		
BH	(60°-80°)	910.1	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°	1476.3	1476.3	1476.3	1476.3	1476.3	1476.3	1476.3	1476.3	1476.3	1476.3
2.5°	1453.7	1461.9	1459.8	1457.1	1457.1	1457.8	1457.1	1461.9	1466.7	1471.5
5°	1468.7	1477.0	1472.9	1469.4	1466.7	1466.0	1464.0	1463.3	1466.0	1472.2
7.5°	1498.2	1506.4	1500.2	1494.1	1488.6	1485.9	1483.1	1479.0	1477.0	1480.4
10°	1531.1	1539.3	1531.7	1520.8	1511.9	1508.5	1505.7	1501.6	1498.9	1500.9
12.5°	1563.9	1572.1	1561.9	1546.8	1535.2	1533.1	1529.7	1528.3	1527.6	1526.9
15°	1594.7	1601.6	1588.6	1570.8	1558.4	1555.0	1551.6	1553.7	1557.1	1561.2
17.5°	1618.7	1625.5	1606.4	1583.1	1571.5	1570.1	1568.0	1574.9	1584.5	1594.7
20°	1640.6	1647.5	1622.8	1591.3	1577.6	1577.6	1578.3	1592.7	1606.4	1621.4
22.5°	1671.4	1676.9	1646.8	1603.6	1583.8	1585.1	1590.6	1605.0	1622.1	1642.7
25°	1717.3	1721.4	1684.4	1626.9	1604.3	1608.4	1613.2	1620.1	1636.5	1660.5
27.5°	1791.3	1794.7	1746.1	1668.0	1633.8	1640.6	1647.5	1642.7	1650.2	1670.7
30°	1895.3	1897.4	1835.8	1732.4	1683.7	1687.2	1688.5	1668.7	1654.3	1670.7
32.5°	2018.6	2017.9	1944.6	1810.4	1740.6	1737.2	1725.5	1686.5	1652.9	1667.3
35°	2209.6	2202.1	2107.6	1920.0	1804.9	1783.7	1756.3	1706.3	1659.8	1663.9
37.5°	2526.0	2502.7	2371.9	2099.4	1900.8	1846.7	1806.3	1738.5	1674.8	1662.5
40°	2882.7	2853.3	2709.5	2345.2	2044.6	1957.6	1892.6	1784.4	1699.5	1668.7
42.5°	3305.9	3264.1	3109.4	2634.8	2226.7	2100.7	2002.8	1842.6	1735.8	1688.5
45°	3825.6	3770.1	3551.0	2961.5	2456.1	2288.4	2157.6	1930.9	1791.3	1726.9
47.5°	4350.8	4364.5	4052.9	3335.3	2731.4	2519.8	2351.4	2063.8	1872.0	1788.5
50°	4908.8	4918.4	4552.1	3749.6	3043.6	2781.4	2569.1	2212.4	1984.3	1876.2
52.5°	5344.3	5345.7	5005.4	4183.0	3368.9	3069.0	2804.0	2382.2	2114.4	1992.6
55°	5616.8	5613.4	5323.1	4593.2	3742.7	3370.9	3064.2	2575.3	2273.3	2129.5
57.5°	5814.7	5804.4	5542.2	4945.8	4141.2	3727.7	3358.6	2794.4	2460.9	2292.5
60°	5890.0	5883.9	5690.8	5250.5	4560.3	4122.1	3698.2	3039.5	2673.9	2484.9
62.5°	5918.8	5930.4	5836.6	5545.6	5008.8	4558.9	4071.4	3332.6	2913.5	2702.6
65°	6020.1	6041.4	6022.2	5931.8	5515.5	5070.4	4566.5	3681.1	3175.1	2936.1
67.5°	6220.8	6242.0	6250.2	6394.0	6134.5	5707.9	5184.1	4115.2	3481.2	3178.5
70°	6216.0	6209.8	6355.0	6761.7	6909.6	6590.5	6016.7	4649.3	3846.1	3379.8
72.5°	5657.9	5608.6	5951.7	6757.6	7554.6	7512.2	7033.5	5338.1	4161.1	3404.5
75°	4244.6	4113.2	4719.2	6090.0	7662.1	8035.3	7679.9	5765.4	4086.5	3008.0
77.5°	1815.2	1683.1	2397.2	4508.3	6857.6	7511.5	7086.9	5030.0	3262.0	1989.1
80°	475.2	474.5	724.4	2043.9	4663.7	5547.0	4866.4	3248.4	1863.8	710.7
82.5°	196.5	191.7	266.4	795.0	2278.8	3112.8	2540.3	1448.9	673.1	192.4
85°	73.3	72.6	129.4	274.6	803.9	1283.9	929.2	370.4	167.8	93.8
87.5°	20.5	19.9	28.1	95.2	195.8	297.2	158.9	60.9	47.2	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°
1476.3	0°	1476.3	1476.3	1476.3	1476.3	1476.3	1476.3	1476.3	1476.3	1476.3	1476.3
1479.0	2.5°	1481.1	1484.5	1490.7	1495.4	1501.6	1508.5	1518.0	1524.2	1530.4	1534.5
1482.4	5°	1487.2	1494.8	1510.5	1526.3	1544.7	1561.9	1581.7	1596.1	1607.7	1611.2
1494.8	7.5°	1500.9	1513.3	1540.0	1566.7	1596.1	1624.2	1652.9	1677.6	1697.4	1705.0
1516.7	10°	1524.9	1541.3	1579.0	1616.6	1655.7	1698.8	1735.8	1771.4	1799.5	1811.1
1542.7	12.5°	1555.0	1575.6	1624.9	1676.9	1731.0	1790.6	1838.5	1882.3	1917.2	1933.0
1579.0	15°	1594.0	1620.8	1683.7	1753.6	1833.0	1915.9	1976.8	2025.4	2064.5	2083.6
1616.6	17.5°	1636.5	1672.1	1751.5	1857.0	1970.7	2079.5	2150.7	2186.3	2226.7	2245.2
1651.6	20°	1677.6	1721.4	1835.1	1988.5	2139.8	2255.5	2313.0	2322.6	2325.3	2327.4
1684.4	22.5°	1720.0	1778.9	1939.8	2154.2	2316.4	2396.6	2404.8	2363.7	2306.2	2279.5
1716.6	25°	1766.6	1844.7	2076.8	2337.0	2468.4	2478.0	2415.0	2315.1	2206.2	2156.2
1742.6	27.5°	1811.8	1920.7	2241.1	2511.6	2578.0	2493.8	2358.2	2216.5	2085.0	2032.3
1761.1	30°	1857.0	2007.6	2422.6	2664.3	2628.0	2454.8	2268.5	2110.3	1978.2	1922.7
1777.6	32.5°	1902.9	2109.0	2631.4	2774.5	2619.1	2371.9	2156.9	1991.2	1874.8	1816.6
1791.9	35°	1954.9	2233.6	2829.3	2834.8	2559.5	2250.0	2009.7	1848.8	1747.4	1700.9
1809.1	37.5°	2022.7	2391.8	3003.9	2849.8	2455.4	2071.3	1826.9	1680.3	1596.8	1575.6
1834.4	40°	2106.9	2582.1	3137.4	2825.9	2301.4	1854.2	1626.9	1509.8	1462.6	1467.4
1868.6	42.5°	2216.5	2795.1	3231.2	2764.3	2087.1	1630.3	1451.6	1399.6	1422.2	1441.4
1920.0	45°	2358.9	3016.2	3289.4	2659.5	1844.7	1440.7	1348.2	1360.6	1377.7	1379.7
2002.8	47.5°	2541.0	3240.1	3327.8	2501.3	1597.5	1307.1	1282.5	1285.2	1281.8	1267.4
2126.8	50°	2768.4	3457.9	3362.0	2291.8	1387.3	1223.6	1190.7	1181.2	1133.9	1087.3
2291.8	52.5°	3027.2	3657.8	3376.4	2031.6	1223.6	1153.8	1100.4	1040.1	951.8	937.4
2499.3	55°	3314.8	3842.7	3339.4	1711.8	1086.0	1064.1	983.3	910.7	901.1	888.8
2772.5	57.5°	3658.5	4042.0	3264.1	1355.1	944.9	959.3	880.6	888.8	871.7	852.5
3123.7	60°	4034.4	4248.1	3132.0	1029.8	799.1	828.5	853.9	853.2	848.4	832.6
3494.2	62.5°	4372.7	4383.6	2871.8	788.8	671.0	727.2	796.3	795.7	791.5	782.6
3881.0	65°	4574.0	4363.1	2437.6	621.0	565.6	643.6	718.3	723.8	724.4	723.8
4172.1	67.5°	4538.4	4122.8	1841.9	494.4	478.6	558.7	640.9	648.4	653.9	655.3
4209.0	70°	4135.8	3594.8	1201.0	394.4	401.3	484.1	567.6	575.2	580.0	585.4
3652.3	72.5°	3223.7	2643.1	687.5	319.1	333.5	419.7	495.1	504.0	506.7	517.0
2541.7	75°	1964.5	1554.3	371.1	251.3	273.9	358.8	423.2	433.4	438.2	450.6
1248.3	77.5°	934.0	673.1	211.6	195.8	220.5	293.1	357.4	369.1	356.1	362.9
344.4	80°	315.7	249.9	133.5	149.3	168.4	228.7	286.2	297.9	270.5	269.1
114.3	82.5°	110.2	101.3	84.9	99.3	108.9	163.7	216.4	231.4	201.3	200.6
51.4	85°	43.1	41.1	47.2	54.1	65.0	100.7	142.4	150.0	123.9	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>
1476.3
1531.7
1612.5
1705.7
1811.8
1933.0
2082.3
2244.5
2332.9
2287.0
2163.7
2038.4
1928.9
1824.1
1711.1
1590.6
1483.8
1459.2
1393.4
1278.4
1093.5
942.2
890.8
849.1
827.2
779.2
723.8
656.7
588.2
521.1
451.9
357.4
266.4
191.0
98.6
39.0
0.0

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