

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: P940159

Luminaire Tested: **GALN-SB3A-830-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940159
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3A-830-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11953 lumens
Efficiency: N/A
Efficacy: 141.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

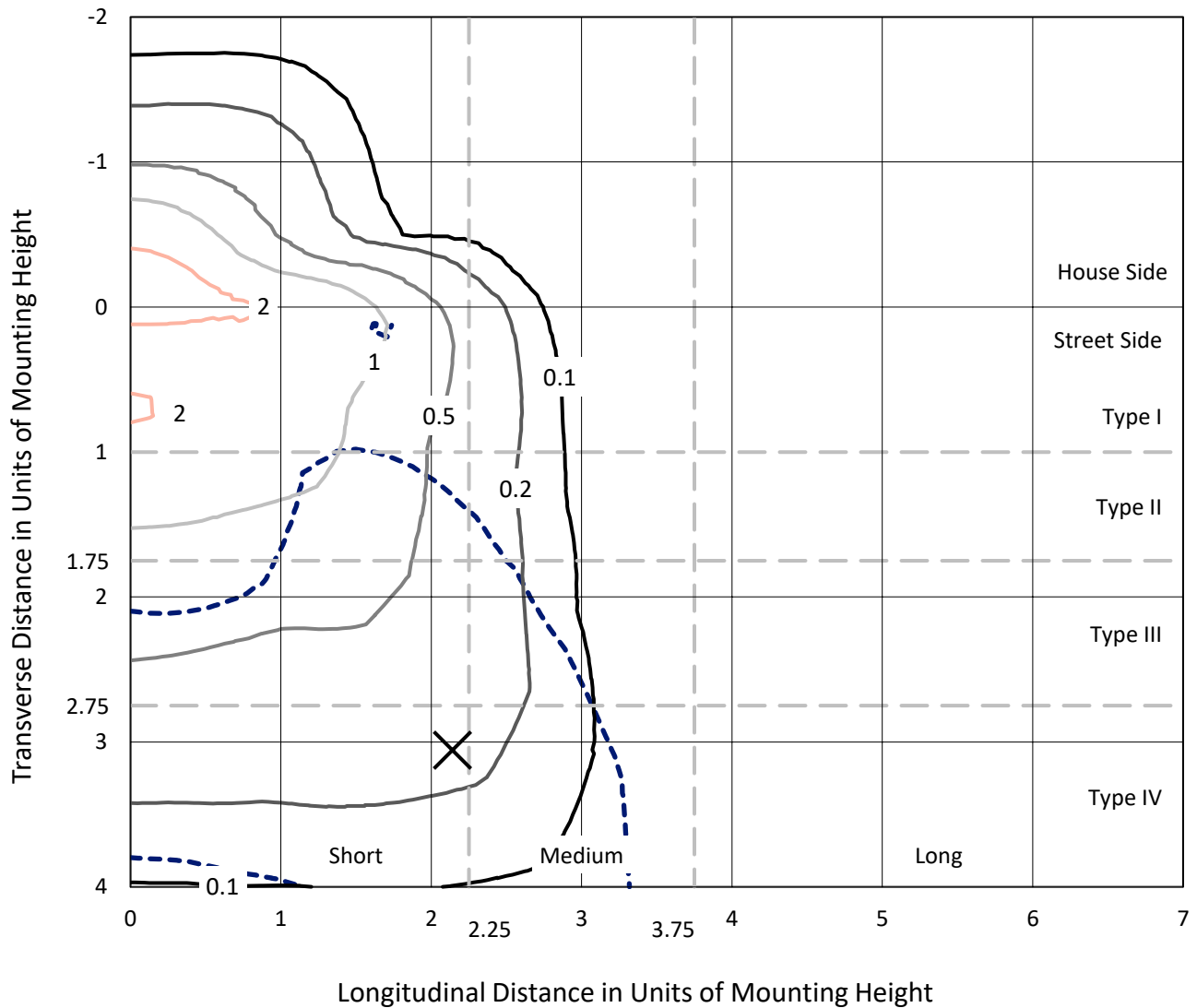
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

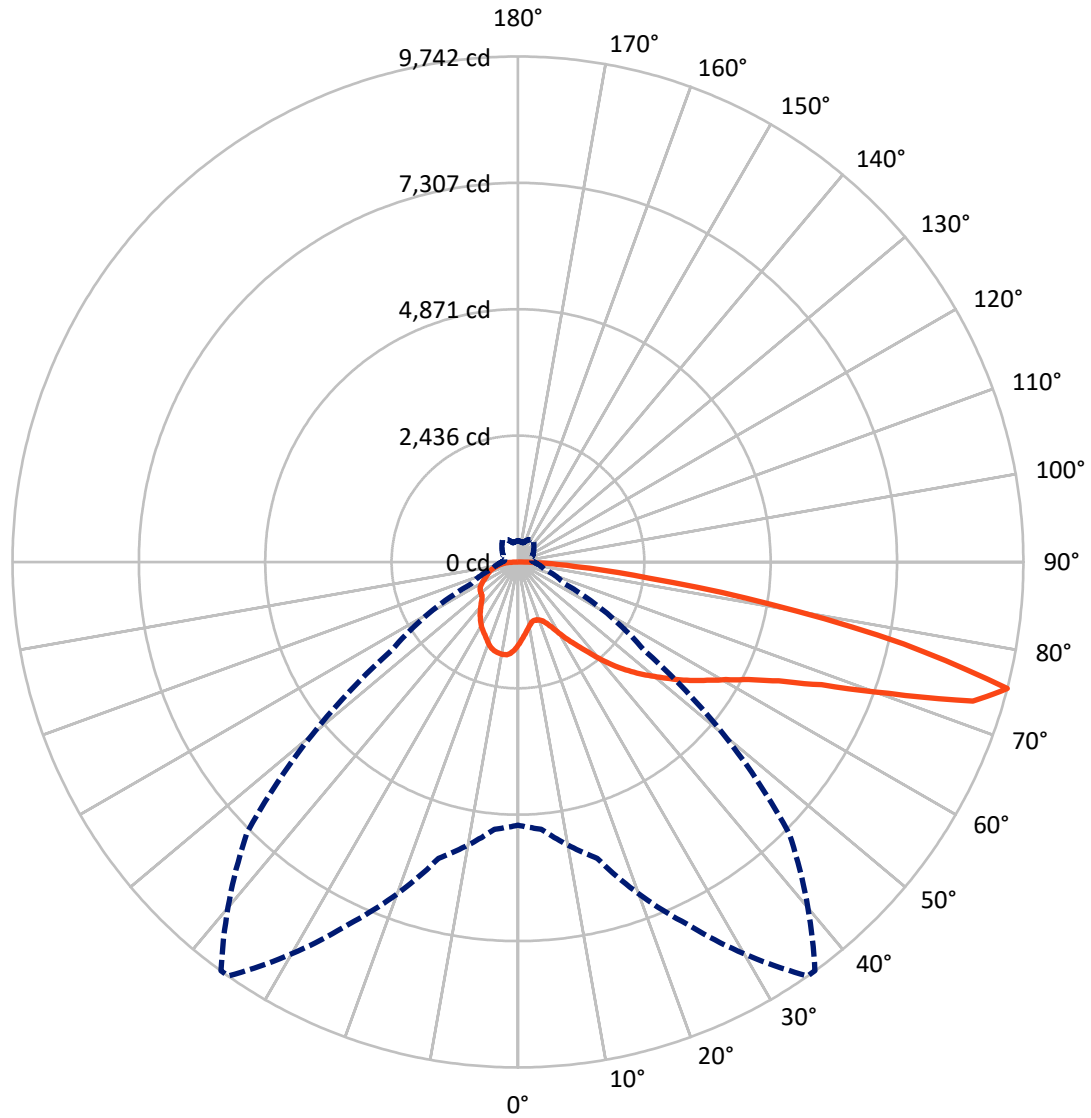
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2844.5	0.0	2844.5
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	9108.5	0.0	9108.5
	% Fixture	76.2	0.0	76.2
Total	Lumens	11953.0	0.0	11953.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.8	1.3
10°-20°	435.0	3.6
20°-30°	730.5	6.1
30°-40°	1135.3	9.5
40°-50°	1685.0	14.1
50°-60°	2326.3	19.5
60°-70°	2822.3	23.6
70°-80°	2332.4	19.5
80°-90°	335.5	2.8
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°	11953.0	100.0
0°-180°	11953.0	100.0

Coefficient of Utilization



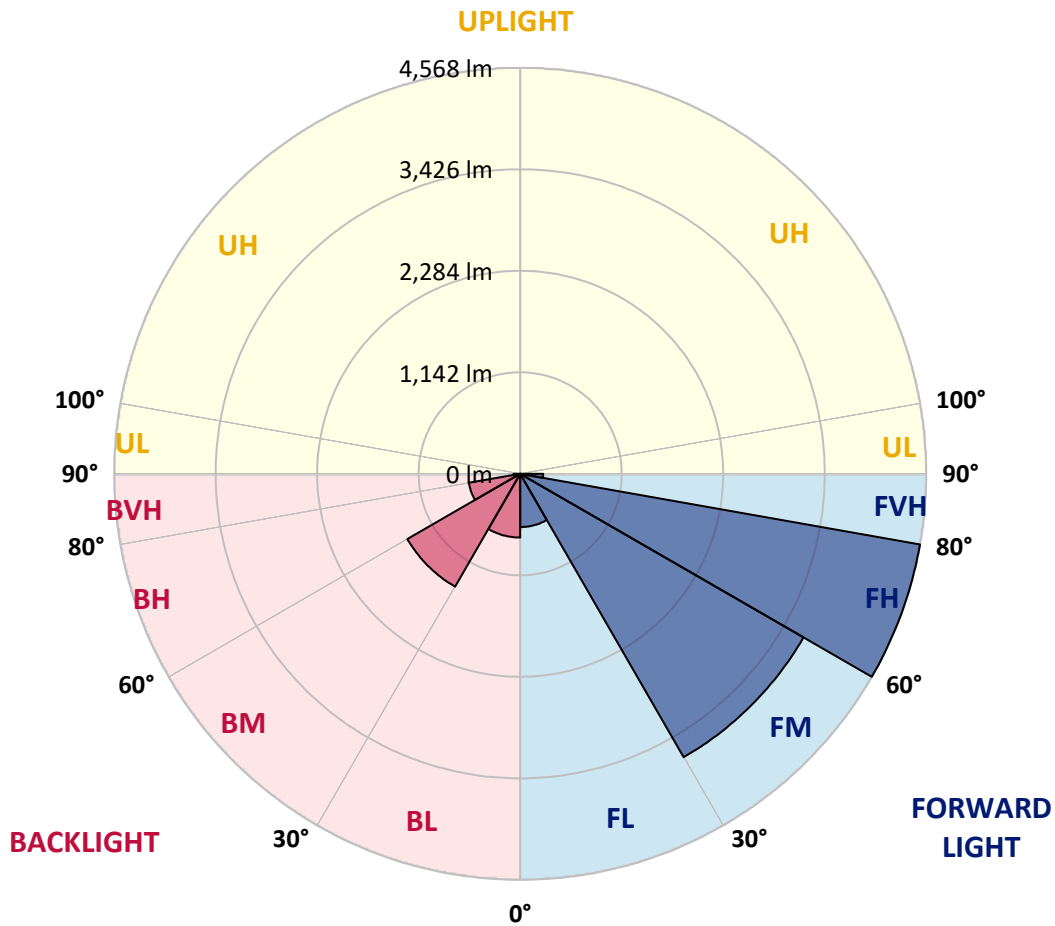
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	599.4	5.0			
FM (30°-60°)	3680.9	30.8			
FH (60°-80°)	4568.3	38.2			G2/5000
FVH (80°-90°)	259.9	2.2			G3/500
BL (0°-30°)	716.9	6.0	B2/1000		
BM (30°-60°)	1465.7	12.3	B2/2500		
BH (60°-80°)	586.4	4.9	B2/1000		G2/1000
BVH (80°-90°)	75.5	0.6			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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	1592.8	1592.8	1592.8	1592.8	1592.8	1592.8	1592.8	1592.8	1592.8	1592.8
2.5°	1468.8	1477.8	1481.7	1479.7	1489.4	1488.1	1501.7	1518.5	1541.8	1564.4
5°	1355.7	1365.4	1373.8	1381.5	1400.3	1406.1	1427.4	1459.7	1502.4	1545.6
7.5°	1250.3	1258.7	1271.7	1285.9	1317.5	1323.4	1358.9	1409.3	1468.8	1532.1
10°	1164.4	1172.8	1186.4	1202.5	1241.9	1249.1	1294.3	1361.5	1439.0	1519.2
12.5°	1127.6	1130.2	1137.9	1154.1	1188.3	1192.8	1242.6	1319.5	1410.0	1509.5
15°	1125.6	1130.8	1131.5	1139.9	1168.3	1170.2	1216.1	1292.3	1391.9	1507.5
17.5°	1145.0	1148.9	1143.1	1148.3	1172.2	1175.4	1211.6	1279.4	1386.0	1515.9
20°	1196.7	1199.9	1182.5	1175.4	1192.8	1195.4	1231.0	1287.8	1391.9	1533.4
22.5°	1306.6	1308.5	1265.9	1236.8	1238.1	1239.4	1270.4	1322.1	1414.5	1565.0
25°	1477.8	1476.5	1408.7	1352.4	1320.1	1313.0	1333.7	1377.6	1452.6	1607.0
27.5°	1678.1	1668.4	1600.6	1516.6	1446.1	1435.8	1431.3	1450.0	1506.9	1662.6
30°	1904.3	1895.2	1822.2	1712.4	1614.8	1598.0	1555.3	1545.6	1587.6	1738.2
32.5°	2152.4	2146.6	2059.4	1926.2	1795.7	1776.3	1704.6	1678.8	1711.7	1852.6
35°	2360.5	2355.3	2282.9	2145.9	1986.3	1962.4	1889.4	1860.3	1877.1	1999.3
37.5°	2548.5	2545.9	2483.9	2376.0	2211.2	2182.1	2100.1	2090.4	2087.1	2192.5
40°	2723.0	2716.5	2651.9	2595.0	2472.9	2446.4	2374.0	2365.6	2341.1	2430.3
42.5°	2916.2	2899.4	2805.7	2779.2	2746.2	2724.3	2681.0	2682.3	2628.0	2698.4
45°	3073.8	3064.2	2967.9	2952.4	2987.9	2978.9	3016.3	3026.0	2920.7	2979.5
47.5°	3243.1	3234.1	3152.7	3141.7	3238.0	3240.6	3373.0	3376.3	3206.3	3271.6
50°	3451.9	3438.9	3358.2	3371.7	3479.6	3489.3	3731.7	3709.7	3469.3	3568.2
52.5°	3589.5	3597.2	3579.8	3601.8	3749.1	3758.1	4084.5	4028.2	3729.7	3860.9
55°	3690.9	3706.5	3760.7	3811.1	4033.4	4042.5	4417.2	4331.3	3945.5	4132.3
57.5°	3821.5	3799.5	3901.0	3999.2	4303.5	4327.4	4741.0	4623.4	4136.8	4366.2
60°	4008.9	3993.4	4072.2	4217.6	4605.9	4644.1	5083.4	4886.4	4277.0	4551.6
62.5°	4388.8	4350.0	4362.3	4490.9	4987.2	5037.6	5469.9	5115.8	4346.8	4624.0
65°	4956.8	4890.2	4828.2	4917.4	5524.1	5573.9	5906.0	5296.0	4321.0	4483.8
67.5°	5672.1	5606.2	5530.0	5614.0	6315.1	6354.5	6444.3	5397.5	4117.4	3943.6
70°	6262.1	6237.5	6328.6	6674.3	7578.3	7579.6	7134.4	5313.5	3559.8	2796.0
72.5°	6183.9	6169.0	6649.1	7717.9	9170.5	9136.2	7787.7	4677.7	2398.0	1261.3
75°	5073.1	5169.4	5913.1	7699.2	9742.4	9737.8	7387.7	2973.7	991.9	522.8
77.5°	2720.4	2872.9	3838.9	5684.4	7605.5	7719.8	5193.9	1040.3	425.8	334.7
80°	887.2	1020.3	1530.1	2894.2	4941.9	4920.6	2226.1	408.4	291.4	237.1
82.5°	376.7	392.2	683.7	1366.7	2536.2	2496.8	708.9	234.6	204.8	162.2
85°	147.3	164.8	301.8	632.0	1098.5	1074.6	255.9	116.3	131.2	106.0
87.5°	48.5	58.8	107.9	216.5	341.8	329.5	62.7	40.1	56.9	48.5
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°
1592.8	0°	1592.8	1592.8	1592.8	1592.8	1592.8	1592.8	1592.8	1592.8	1592.8	1592.8
1597.3	2.5°	1606.4	1616.7	1629.0	1647.1	1662.6	1675.5	1689.1	1697.5	1700.7	1710.4
1599.9	5°	1618.0	1640.6	1671.0	1700.7	1729.8	1747.3	1762.8	1770.5	1777.6	1782.8
1607.0	7.5°	1637.4	1666.5	1714.3	1753.1	1777.6	1791.8	1802.2	1799.6	1802.2	1803.5
1614.8	10°	1654.2	1694.9	1751.8	1788.6	1807.3	1808.0	1805.4	1796.4	1791.8	1792.5
1626.4	12.5°	1674.2	1719.5	1780.9	1811.9	1817.0	1802.8	1791.8	1776.3	1770.5	1767.9
1643.9	15°	1701.4	1753.1	1812.5	1824.1	1811.2	1793.1	1774.4	1749.2	1736.3	1725.9
1673.6	17.5°	1734.3	1791.2	1837.1	1828.7	1800.9	1771.2	1740.8	1702.7	1676.2	1665.2
1714.3	20°	1780.2	1831.3	1855.8	1819.0	1777.0	1731.7	1680.1	1633.5	1609.0	1598.0
1766.0	22.5°	1835.8	1884.9	1873.9	1802.2	1742.7	1670.4	1605.7	1571.5	1559.2	1551.5
1832.5	25°	1902.3	1944.3	1886.8	1777.6	1686.5	1588.9	1539.2	1528.2	1522.4	1516.6
1914.0	27.5°	1988.9	2011.5	1896.5	1741.4	1598.6	1502.4	1484.3	1486.2	1484.3	1474.6
2027.0	30°	2103.3	2098.8	1905.6	1682.6	1497.8	1424.2	1425.5	1433.9	1435.2	1428.7
2184.7	32.5°	2253.9	2208.0	1910.1	1606.4	1401.6	1355.7	1357.0	1366.0	1372.5	1361.5
2390.8	35°	2436.1	2335.3	1903.0	1510.8	1327.2	1290.4	1280.7	1283.3	1285.2	1274.9
2640.9	37.5°	2648.7	2478.1	1871.3	1404.8	1265.9	1226.4	1205.8	1188.3	1178.0	1168.3
2923.9	40°	2881.9	2633.8	1813.2	1301.4	1197.4	1158.6	1127.6	1094.6	1059.7	1046.8
3223.8	42.5°	3126.2	2794.1	1742.7	1202.5	1118.5	1086.9	1053.9	1006.1	953.8	927.3
3535.2	45°	3379.5	2958.2	1673.6	1105.0	1037.8	1024.2	986.1	928.6	871.7	838.1
3847.3	47.5°	3627.6	3113.3	1572.1	1006.7	962.2	977.0	947.3	894.3	831.0	778.0
4156.8	50°	3864.8	3258.7	1406.1	907.2	900.8	962.8	934.4	858.1	785.7	717.9
4460.5	52.5°	4100.0	3376.3	1193.5	816.8	867.8	958.9	917.6	833.6	745.0	674.0
4746.1	55°	4299.6	3437.0	988.6	739.2	820.0	926.0	897.5	804.5	687.5	611.9
4941.9	57.5°	4413.4	3387.9	818.1	663.0	754.1	871.7	863.3	742.5	619.0	560.9
4980.1	60°	4364.3	3188.9	678.5	596.4	691.4	812.9	803.8	681.1	566.7	511.8
4775.9	62.5°	4093.5	2809.6	568.0	538.3	634.5	752.8	744.4	633.9	526.6	473.6
4233.7	65°	3548.1	2285.5	482.0	489.8	577.0	680.4	692.7	594.5	495.0	443.3
3275.5	67.5°	2706.2	1655.5	414.8	447.8	520.8	609.3	644.9	566.0	468.5	419.4
1895.2	70°	1542.4	940.2	358.0	407.1	471.1	543.4	608.0	543.4	440.0	399.3
710.1	72.5°	584.8	431.6	309.5	366.4	423.2	487.9	567.3	507.9	407.1	376.7
367.0	75°	312.1	263.0	260.4	318.6	368.3	433.6	516.3	473.0	382.5	398.0
253.9	77.5°	212.6	186.1	217.8	272.7	308.2	373.5	462.0	420.0	331.5	330.2
175.8	80°	147.3	131.8	177.1	219.7	238.4	314.0	403.2	360.6	270.1	252.0
108.6	82.5°	88.5	85.9	132.5	164.1	168.7	242.3	334.1	302.4	221.0	192.6
64.6	85°	48.5	51.0	84.6	96.3	98.2	169.3	261.7	233.9	169.9	142.8
23.3	87.5°	13.6	17.4	31.0	38.1	47.2	87.9	155.7	138.9	85.3	59.4
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>
1592.8
1709.8
1784.1
1805.4
1793.8
1766.6
1729.2
1665.8
1596.7
1552.8
1516.6
1476.5
1431.9
1366.7
1282.0
1174.7
1052.6
930.5
835.5
772.2
712.1
666.2
605.5
553.1
504.0
465.2
434.9
411.6
394.2
371.5
<i>411.0</i>
304.3
241.0
193.9
144.1
59.4
0.0

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