

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: P947790

Luminaire Tested: **GALN-SB3A-740-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947790
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3A-740-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14211 lumens
Efficiency: N/A
Efficacy: 167.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

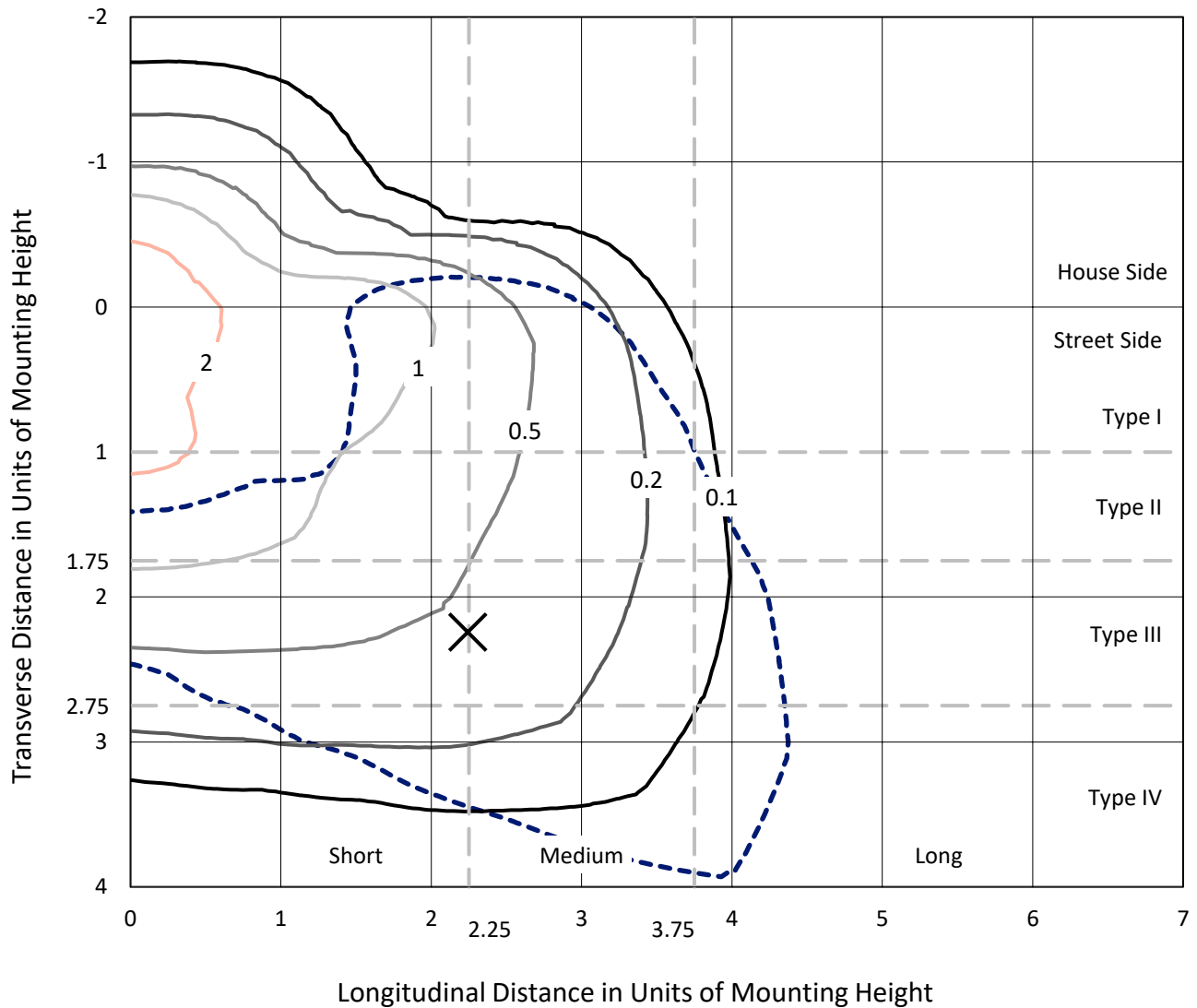
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

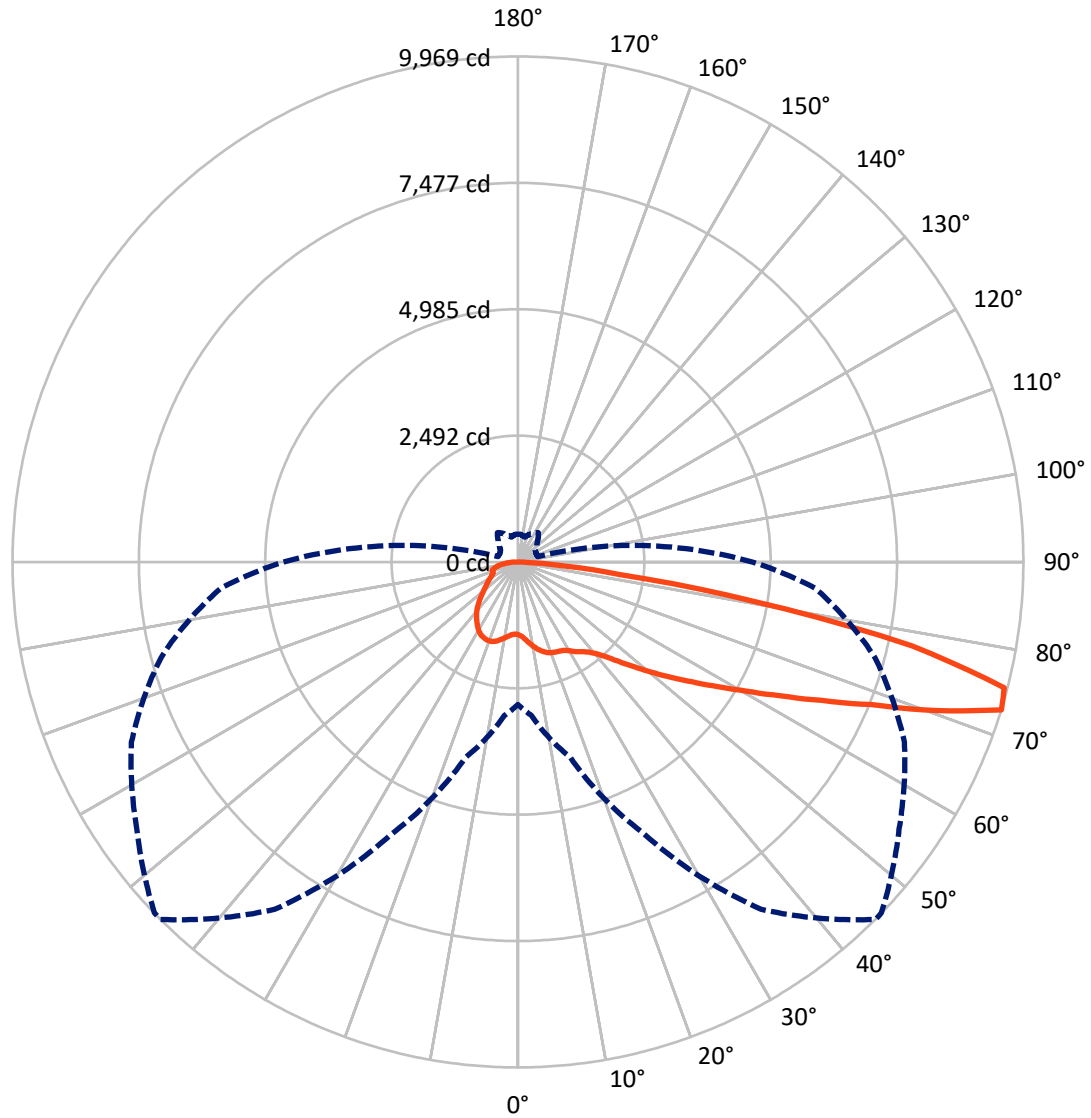
✕ Max cd
 - - - 1/2 Max cd



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 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3212.6	0.0	3212.6
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	10998.4	0.0	10998.4
	% Fixture	77.4	0.0	77.4
Total	Lumens	14211.0	0.0	14211.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.9	1.0
10°-20°	486.5	3.4
20°-30°	846.3	6.0
30°-40°	1213.2	8.5
40°-50°	1708.2	12.0
50°-60°	2616.5	18.4
60°-70°	3790.4	26.7
70°-80°	3026.9	21.3
80°-90°	377.0	2.7
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°	14211.0	100.0
0°-180°	14211.0	100.0

Coefficient of Utilization



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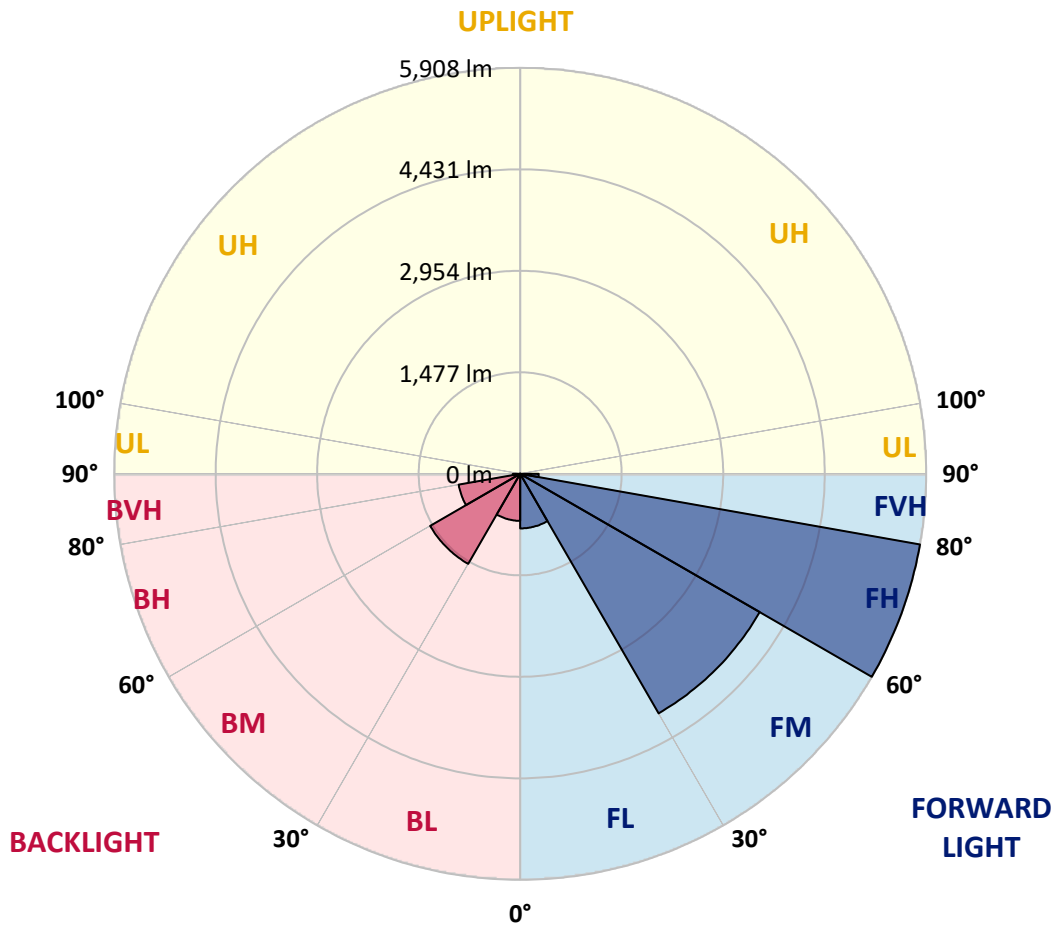
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	794.7	5.6			
FM (30°-60°)	4025.3	28.3			
FH (60°-80°)	5907.9	41.6			G3/7500
FVH (80°-90°)	270.5	1.9			G3/500
BL (0°-30°)	684.0	4.8	B2/1000		
BM (30°-60°)	1512.7	10.6	B2/2500		
BH (60°-80°)	909.4	6.4	B2/1000		G2/1000
BVH (80°-90°)	106.5	0.7			G2/225
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°	45°	46°	55°	65°	75°
0°	1433.6	1433.6	1433.6	1433.6	1433.6	1433.6	1433.6	1433.6	1433.6	1433.6
2.5°	1489.8	1499.5	1490.5	1482.3	1478.5	1468.8	1468.0	1462.1	1458.3	1447.8
5°	1593.8	1606.5	1591.6	1575.1	1560.1	1536.2	1533.2	1516.0	1496.5	1474.0
7.5°	1711.4	1722.6	1705.4	1680.7	1654.5	1614.8	1614.0	1582.6	1551.9	1513.7
10°	1813.9	1828.9	1805.7	1772.0	1739.1	1694.1	1688.9	1653.0	1614.0	1564.6
12.5°	1904.5	1915.0	1892.5	1851.3	1813.2	1768.2	1761.5	1721.8	1678.4	1622.3
15°	1976.4	1989.8	1959.9	1915.7	1875.3	1831.1	1825.1	1789.2	1745.8	1686.6
17.5°	2023.5	2034.8	2004.1	1954.7	1915.7	1879.0	1874.6	1844.6	1806.4	1746.5
20°	2041.5	2053.5	2021.3	1971.1	1935.2	1906.7	1904.5	1882.8	1856.6	1801.9
22.5°	2059.5	2070.7	2028.8	1976.4	1944.9	1927.0	1926.2	1912.0	1901.5	1856.6
25°	2132.1	2135.1	2078.9	2003.3	1958.4	1942.7	1941.9	1941.2	1945.7	1910.5
27.5°	2195.0	2194.2	2146.3	2075.2	2005.6	1972.6	1971.9	1979.4	1993.6	1964.4
30°	2287.0	2278.8	2221.9	2147.8	2084.2	2033.3	2028.8	2022.0	2033.3	2010.1
32.5°	2482.4	2456.2	2364.2	2232.4	2149.3	2110.4	2104.4	2062.5	2066.9	2052.7
35°	2762.4	2728.0	2605.2	2392.6	2230.1	2174.8	2171.8	2118.6	2109.6	2096.9
37.5°	3095.6	3052.9	2909.9	2624.7	2369.4	2249.6	2245.1	2197.2	2160.5	2147.1
40°	3430.2	3376.3	3258.0	2907.7	2574.5	2374.6	2360.4	2287.8	2245.9	2223.4
42.5°	3755.1	3710.2	3609.1	3225.1	2827.5	2557.3	2525.9	2401.6	2370.1	2349.2
45°	4042.6	4002.1	3928.0	3564.2	3124.0	2805.8	2775.1	2572.3	2562.5	2562.5
47.5°	4276.1	4267.2	4188.5	3910.1	3473.6	3088.8	3035.7	2809.6	2835.8	2876.2
50°	4535.2	4510.5	4426.6	4250.7	3884.6	3413.0	3369.6	3100.8	3198.9	3309.7
52.5°	4773.2	4786.7	4693.1	4605.5	4348.8	3774.6	3698.2	3444.4	3656.3	3839.7
55°	5018.0	5018.8	4992.6	4980.6	4835.4	4174.3	4090.5	3857.7	4194.5	4422.1
57.5°	5247.8	5249.3	5288.3	5393.8	5399.8	4635.5	4540.4	4365.2	4792.7	5024.8
60°	5453.0	5463.5	5569.8	5816.8	5896.2	5164.0	5074.2	4964.9	5411.0	5644.6
62.5°	5521.8	5560.0	5796.6	6147.7	6386.5	5812.3	5724.0	5658.8	6060.9	6278.0
65°	5405.1	5492.6	5950.1	6420.9	6891.1	6582.6	6495.1	6423.9	6736.1	6940.5
67.5°	5118.3	5231.4	5941.1	6707.7	7503.4	7509.4	7427.8	7260.9	7460.0	7538.6
70°	4363.0	4532.2	5417.8	6814.7	8206.4	8776.9	8698.3	8268.5	8182.5	7802.2
72.5°	2811.1	3038.7	3989.4	5933.6	8362.9	9969.4	9964.9	9178.1	8410.8	7290.1
75°	1025.6	1164.9	1853.6	3724.4	7019.8	9908.8	9938.0	9022.4	7677.9	5631.1
77.5°	373.6	408.7	604.9	1431.4	4317.3	7950.4	8011.0	7213.0	5464.9	2826.1
80°	196.1	215.6	309.9	555.5	1849.8	4721.6	4816.6	4286.6	2568.5	851.2
82.5°	108.6	117.5	173.7	301.7	833.2	2019.0	2075.9	1693.4	903.6	360.8
85°	58.4	62.1	81.6	164.7	407.3	700.0	715.7	506.1	360.1	211.9
87.5°	17.2	21.0	27.0	52.4	159.5	157.2	161.0	100.3	142.2	107.1
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°
1433.6	0°	1433.6	1433.6	1433.6	1433.6	1433.6	1433.6	1433.6	1433.6	1433.6	1433.6
1444.8	2.5°	1440.4	1438.1	1429.9	1426.1	1421.6	1420.9	1424.6	1425.4	1426.1	1426.9
1461.3	5°	1453.8	1446.3	1438.9	1434.4	1435.9	1436.6	1444.1	1449.3	1453.1	1456.1
1492.0	7.5°	1480.0	1474.0	1461.3	1460.6	1462.8	1469.5	1479.3	1491.3	1498.0	1503.2
1531.7	10°	1519.0	1507.7	1492.8	1495.0	1499.5	1509.2	1529.4	1539.2	1550.4	1560.1
1580.3	12.5°	1558.6	1548.9	1531.7	1533.2	1540.7	1557.9	1577.3	1589.3	1596.8	1604.3
1632.7	15°	1610.3	1593.1	1574.4	1574.4	1587.8	1606.5	1615.5	1625.3	1629.8	1638.0
1688.9	17.5°	1663.4	1641.0	1616.3	1614.8	1631.2	1640.2	1645.5	1647.0	1648.5	1657.5
1743.5	20°	1716.6	1691.9	1656.7	1653.7	1657.5	1656.0	1655.2	1653.7	1656.0	1667.2
1799.7	22.5°	1769.0	1740.5	1691.9	1678.4	1667.9	1653.7	1653.0	1652.2	1653.7	1664.9
1860.3	25°	1830.4	1795.9	1730.8	1690.4	1655.2	1635.7	1638.0	1638.7	1640.2	1649.2
1923.2	27.5°	1897.0	1858.8	1766.8	1686.6	1623.0	1609.5	1605.8	1608.0	1613.3	1627.5
1986.1	30°	1963.6	1918.7	1799.7	1671.7	1582.6	1563.9	1551.9	1557.1	1573.6	1587.8
2040.7	32.5°	2024.3	1979.4	1825.9	1638.7	1530.9	1501.7	1486.0	1492.8	1509.2	1514.5
2101.4	35°	2095.4	2044.5	1837.1	1586.3	1474.8	1429.9	1408.9	1399.2	1407.4	1402.2
2172.5	37.5°	2174.8	2121.6	1835.6	1517.5	1408.9	1357.3	1328.1	1291.4	1274.2	1256.2
2277.3	40°	2292.3	2215.9	1817.7	1434.4	1327.3	1280.1	1227.7	1165.6	1126.7	1091.5
2446.5	42.5°	2452.5	2346.9	1784.7	1343.0	1235.2	1191.1	1119.9	1047.3	985.9	927.5
2703.3	45°	2691.3	2518.4	1743.5	1245.7	1135.7	1092.2	1015.1	933.5	863.9	789.0
3067.9	47.5°	3035.7	2748.9	1704.6	1134.9	1030.9	991.2	921.6	845.9	763.6	691.0
3594.9	50°	3508.8	3079.8	1668.7	1027.1	927.5	897.6	842.2	765.1	682.0	623.6
4212.5	52.5°	4110.7	3529.8	1653.7	923.1	831.0	819.7	775.6	703.7	625.1	575.7
4932.7	55°	4801.7	4068.0	1653.7	823.5	746.4	750.1	719.4	652.8	584.7	540.5
5675.3	57.5°	5506.9	4613.0	1623.8	731.4	674.5	690.2	670.8	612.4	551.0	505.3
6456.1	60°	6156.7	5069.7	1502.5	647.6	610.9	635.6	622.9	572.7	497.8	459.7
7108.9	62.5°	6656.0	5327.2	1268.9	580.9	558.5	586.9	580.2	520.3	488.1	472.4
7644.9	65°	6906.0	5285.3	970.2	521.8	514.3	558.5	544.2	542.0	516.5	498.6
7819.4	67.5°	6752.6	4924.4	703.7	478.4	488.9	532.3	586.9	595.9	548.7	513.6
7328.3	70°	6079.6	4271.6	524.0	437.2	456.7	533.0	669.3	623.6	538.3	497.1
5877.4	72.5°	4625.0	3185.4	406.5	393.8	414.7	536.8	706.0	610.9	508.3	549.5
3661.5	75°	2644.9	1748.8	326.4	340.6	362.3	501.6	687.2	577.9	485.1	504.6
1450.8	77.5°	1008.4	672.3	269.5	288.2	291.2	437.9	657.3	575.7	461.9	450.7
435.0	80°	349.6	262.8	223.1	229.1	225.3	389.3	630.3	500.8	378.1	338.4
179.7	82.5°	143.0	131.0	176.7	169.2	160.2	302.4	509.1	409.5	309.2	273.2
86.8	85°	62.1	83.1	116.8	102.6	92.8	209.6	408.0	346.6	261.3	225.3
28.4	87.5°	12.7	31.4	49.4	46.4	47.9	140.0	289.7	246.3	184.9	138.5
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>
1433.6
1429.9
1457.6
1504.7
1557.9
1607.3
1641.0
1660.4
1671.7
1672.4
1661.2
1641.7
1603.6
1533.2
1418.6
1267.4
1093.7
922.3
780.1
682.7
619.9
571.9
536.0
497.8
453.7
467.1
492.6
507.6
490.3
545.0
504.6
411.0
327.1
270.3
224.6
108.6
0.0

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