

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: P941047

Luminaire Tested: **GALN-SB4B-927-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941047
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4B-927-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13746 lumens
Efficiency: N/A
Efficacy: 93.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

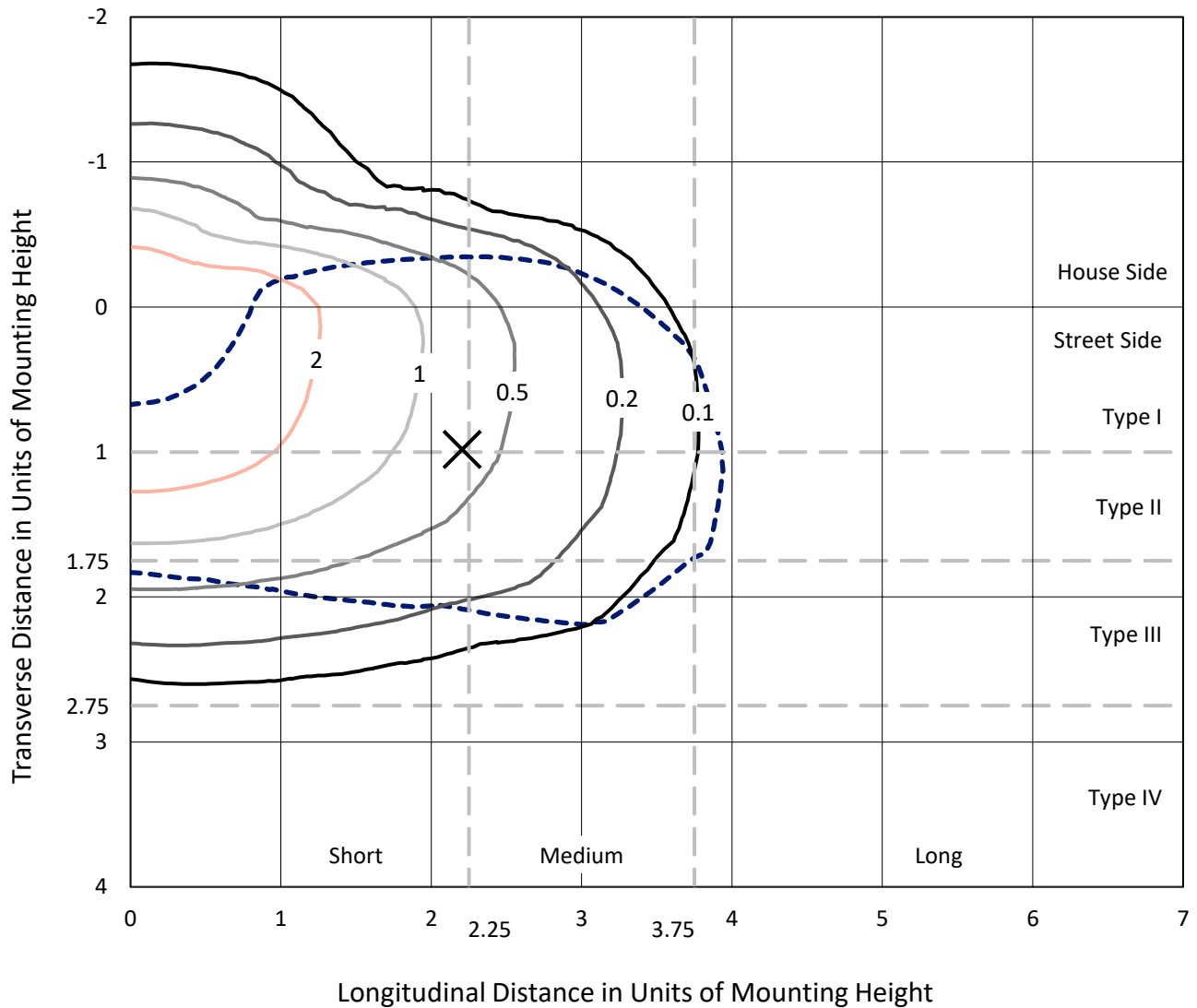
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

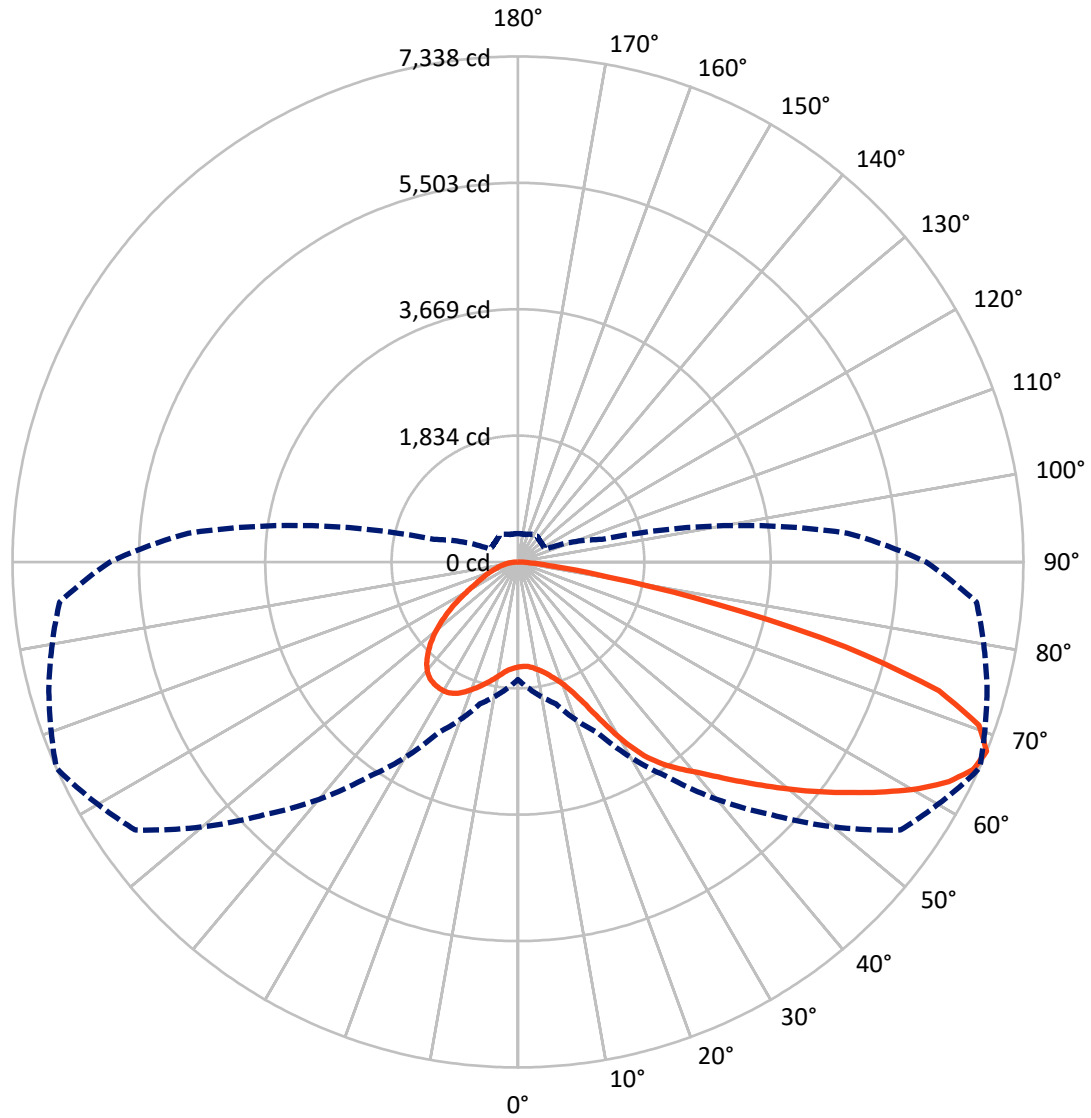
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3417.9	0.0	3417.9
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	10328.1	0.0	10328.1
	% Fixture	75.1	0.0	75.1
Total	Lumens	13746.0	0.0	13746.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.2	1.1
10°-20°	499.4	3.6
20°-30°	962.6	7.0
30°-40°	1687.8	12.3
40°-50°	2509.2	18.3
50°-60°	3180.6	23.1
60°-70°	3112.1	22.6
70°-80°	1484.5	10.8
80°-90°	158.7	1.2
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°	13746.0	100.0
0°-180°	13746.0	100.0

Coefficient of Utilization



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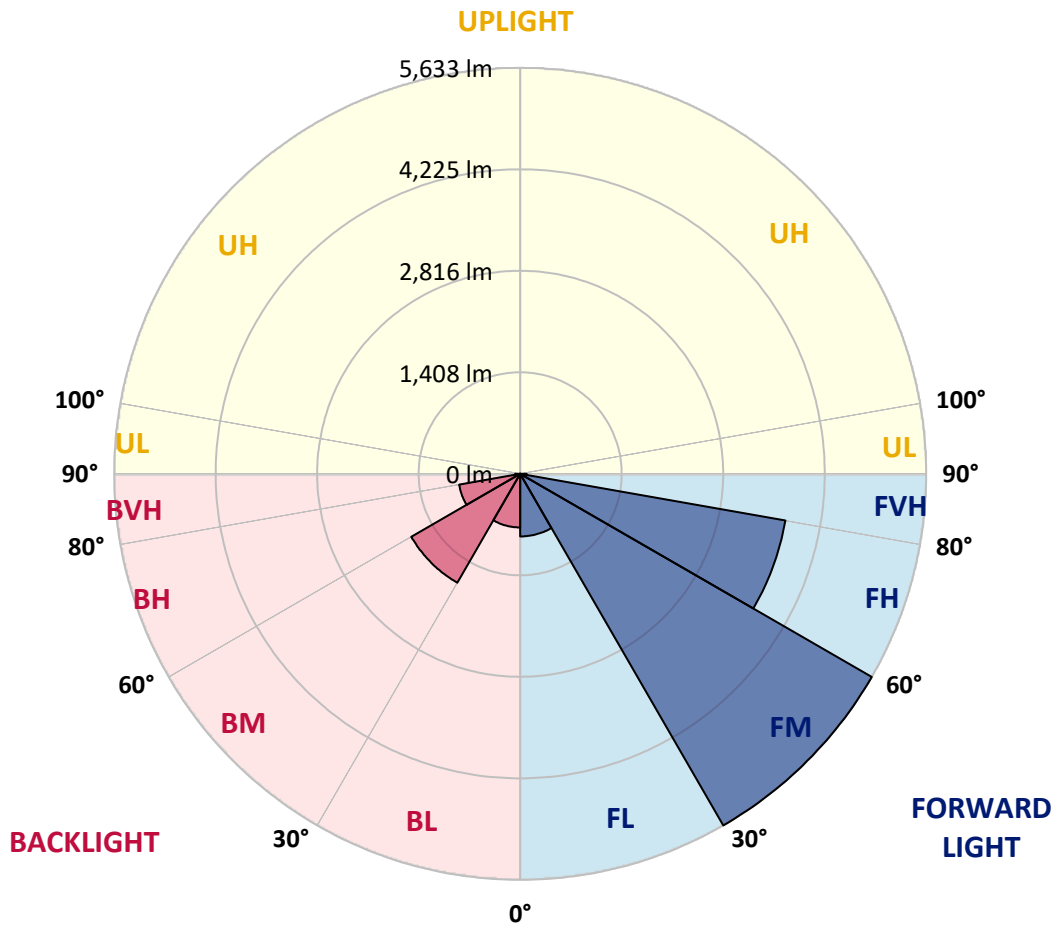
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	868.6	6.3			
FM (30°-60°)	5633.0	41.0			
FH (60°-80°)	3736.5	27.2			G2/5000
FVH (80°-90°)	90.0	0.7			G1/100
BL (0°-30°)	744.5	5.4	B2/1000		
BM (30°-60°)	1744.5	12.7	B2/2500		
BH (60°-80°)	860.1	6.3	B2/1000		G2/1000
BVH (80°-90°)	68.7	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	1524.6	1524.6	1524.6	1524.6	1524.6	1524.6	1524.6	1524.6	1524.6	1524.6
2.5°	1508.7	1517.4	1515.2	1511.6	1510.9	1512.3	1514.5	1516.7	1515.9	1519.6
5°	1504.4	1513.1	1512.3	1512.3	1515.2	1521.0	1524.6	1528.2	1524.6	1528.9
7.5°	1507.3	1513.8	1516.7	1519.6	1526.8	1537.6	1546.3	1554.2	1549.9	1554.9
10°	1544.1	1549.2	1552.1	1552.1	1557.1	1569.4	1578.1	1592.5	1588.9	1596.8
12.5°	1611.3	1616.3	1616.3	1613.4	1617.1	1625.0	1627.9	1643.8	1637.3	1650.3
15°	1693.6	1703.7	1695.8	1690.7	1692.2	1700.1	1699.4	1711.7	1705.2	1716.0
17.5°	1784.6	1797.6	1784.6	1783.9	1781.0	1789.7	1790.4	1801.2	1789.7	1797.6
20°	1892.2	1910.3	1899.4	1903.1	1896.6	1900.2	1903.8	1919.7	1901.6	1907.4
22.5°	2043.9	2065.6	2054.0	2067.7	2063.4	2060.5	2059.8	2087.9	2059.8	2061.9
25°	2264.9	2290.9	2270.7	2289.4	2289.4	2298.8	2309.7	2345.8	2298.8	2285.1
27.5°	2591.3	2617.3	2577.6	2589.2	2585.6	2608.7	2597.1	2686.7	2636.1	2613.7
30°	2984.2	3030.4	2955.3	2952.4	2948.8	2985.7	3002.3	3061.5	3010.2	2987.8
32.5°	3408.9	3457.3	3367.7	3341.7	3328.0	3350.4	3336.7	3384.3	3348.9	3314.3
35°	3858.1	3905.8	3820.6	3770.0	3715.1	3668.2	3619.1	3631.3	3598.1	3545.4
37.5°	4282.8	4370.2	4279.9	4225.7	4124.6	4032.9	3895.7	3838.6	3807.6	3759.2
40°	4715.4	4765.2	4696.6	4650.4	4540.6	4396.9	4177.3	4056.7	4014.8	3967.9
42.5°	5033.9	5081.6	5044.7	5013.0	4927.0	4760.2	4476.3	4325.4	4264.7	4212.0
45°	5286.7	5322.1	5299.0	5310.5	5273.7	5111.9	4786.2	4613.6	4550.7	4486.5
47.5°	5388.5	5426.1	5462.9	5531.5	5594.3	5475.2	5119.1	4925.6	4859.1	4793.4
50°	5377.0	5415.2	5522.1	5668.0	5863.0	5823.3	5470.1	5257.8	5196.4	5121.3
52.5°	5284.5	5327.8	5465.1	5707.7	6018.3	6084.0	5827.6	5600.8	5543.1	5453.5
55°	5041.8	5067.8	5273.7	5617.5	6055.1	6266.0	6177.9	5966.3	5908.5	5783.6
57.5°	4591.9	4629.5	4929.2	5374.1	5962.7	6389.5	6485.6	6350.5	6294.9	6115.1
60°	4004.7	4064.7	4407.7	4965.3	5727.2	6388.8	6765.1	6728.2	6682.0	6441.5
62.5°	3340.3	3409.6	3739.7	4387.5	5315.6	6207.5	6939.8	7044.6	7020.7	6742.7
65°	2565.3	2613.0	2941.6	3640.0	4675.0	5818.2	6960.1	7260.5	7264.8	6971.6
67.5°	1708.1	1845.3	2130.6	2731.4	3816.9	5182.0	6782.4	7295.9	7337.8	7050.3
70°	833.4	1014.0	1293.5	1775.2	2731.4	4206.2	6318.0	7005.6	7098.7	6820.7
72.5°	345.9	404.4	556.8	876.1	1567.9	2838.3	5384.9	6218.3	6391.0	6043.6
75°	233.3	252.8	318.5	449.2	714.3	1399.7	3883.4	4636.7	4914.7	4564.5
77.5°	179.8	192.1	231.8	314.2	424.7	529.4	2078.6	2794.3	2938.0	2719.9
80°	141.6	150.9	173.3	228.9	301.2	283.1	708.5	1266.1	1349.1	1131.7
82.5°	122.8	126.4	124.2	155.3	200.1	165.4	232.6	467.3	515.7	374.1
85°	88.8	98.9	103.3	96.1	106.2	83.8	95.3	165.4	182.0	162.5
87.5°	36.1	53.4	65.7	62.1	39.0	23.8	29.6	48.4	55.6	60.7
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°
1524.6	0°	1524.6	1524.6	1524.6	1524.6	1524.6	1524.6	1524.6	1524.6	1524.6	1524.6
1525.3	2.5°	1526.1	1531.1	1534.7	1539.1	1541.9	1546.3	1554.9	1560.0	1560.7	1564.3
1536.9	5°	1539.8	1547.0	1554.9	1566.5	1579.5	1590.3	1606.9	1618.5	1622.8	1626.4
1565.1	7.5°	1569.4	1579.5	1593.9	1614.2	1632.9	1647.4	1667.6	1681.3	1695.1	1700.1
1609.8	10°	1613.4	1627.9	1648.8	1676.3	1696.5	1715.3	1736.2	1747.8	1761.5	1767.3
1663.3	12.5°	1668.3	1683.5	1710.9	1749.2	1768.0	1781.0	1788.2	1785.3	1788.2	1793.3
1727.6	15°	1731.2	1747.8	1778.8	1820.0	1833.0	1821.4	1805.6	1791.1	1788.9	1790.4
1805.6	17.5°	1805.6	1817.8	1853.9	1888.6	1879.2	1831.6	1796.9	1773.8	1762.2	1758.6
1905.2	20°	1909.6	1909.6	1939.2	1960.8	1898.0	1817.1	1762.9	1725.4	1701.6	1691.4
2041.0	22.5°	2035.9	2024.4	2043.2	2028.0	1894.4	1776.7	1701.6	1636.6	1600.4	1586.0
2230.9	25°	2196.3	2182.6	2177.5	2083.6	1868.4	1712.4	1590.3	1511.6	1479.8	1471.9
2504.7	27.5°	2438.2	2403.6	2337.8	2113.9	1820.7	1611.3	1460.3	1387.4	1369.3	1370.1
2856.4	30°	2760.3	2691.0	2529.9	2119.0	1742.7	1468.3	1327.4	1275.4	1266.8	1270.4
3151.8	32.5°	3058.6	2992.9	2726.4	2095.9	1622.8	1328.2	1208.3	1173.6	1160.6	1164.9
3377.1	35°	3292.6	3274.6	2908.4	2063.4	1475.5	1196.7	1101.4	1071.8	1046.5	1040.7
3589.4	37.5°	3513.6	3506.4	3044.9	2017.9	1329.6	1103.6	1015.4	976.4	939.6	919.4
3824.2	40°	3756.3	3749.1	3134.4	1947.8	1200.3	1022.7	938.2	886.9	841.4	804.6
4089.9	42.5°	4029.3	3986.7	3177.1	1847.4	1090.6	954.1	875.3	806.0	746.1	712.1
4390.4	45°	4327.6	4231.5	3176.3	1719.6	998.1	891.2	808.2	709.9	654.3	622.6
4698.8	47.5°	4643.9	4465.5	3137.3	1578.1	908.6	821.9	704.2	629.1	592.2	572.7
5033.9	50°	4970.3	4684.3	3070.9	1415.6	816.8	743.2	639.2	587.9	559.7	541.7
5366.1	52.5°	5277.3	4883.0	2990.7	1231.4	723.7	666.6	610.3	570.6	540.9	520.7
5688.2	55°	5562.6	5054.1	2877.3	1042.9	647.8	615.3	596.6	563.3	529.4	505.6
6015.4	57.5°	5816.1	5165.3	2681.6	865.9	593.7	579.9	582.1	551.1	512.1	491.8
6337.5	60°	6027.0	5247.0	2392.0	702.0	549.6	545.3	559.7	527.9	482.4	459.3
6609.8	62.5°	6153.3	5245.5	2036.7	574.9	512.1	513.5	530.1	499.1	452.8	431.2
6752.1	65°	6142.5	5117.0	1646.7	491.8	475.9	477.4	499.1	467.3	428.3	415.3
6680.6	67.5°	5925.1	4803.5	1263.2	437.7	436.2	442.7	468.0	445.6	413.1	411.7
6254.5	70°	5336.5	4152.8	910.0	394.3	395.1	404.4	437.7	431.9	405.2	408.1
5258.5	72.5°	4279.2	3166.2	611.0	348.8	349.6	364.7	408.8	421.1	397.2	435.5
3731.0	75°	2849.9	1974.6	392.9	300.4	301.2	320.7	383.5	400.1	375.6	434.1
1941.3	77.5°	1369.3	887.6	284.6	252.8	252.8	270.8	331.5	358.2	319.9	337.3
624.0	80°	473.1	333.7	223.9	203.7	199.3	211.6	279.5	310.6	275.9	254.2
203.7	82.5°	186.3	173.3	179.8	158.2	143.7	151.7	217.4	256.4	202.9	183.4
114.8	85°	106.9	112.7	127.1	104.7	83.1	93.2	159.6	184.2	153.1	135.1
37.6	87.5°	28.9	39.7	58.5	54.2	37.6	39.7	75.8	101.8	88.1	67.9
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>
1524.6
1563.6
1625.7
1700.8
1770.2
1794.7
1795.4
1763.7
1689.3
1583.8
1473.3
1372.2
1282.7
1170.7
1045.1
920.1
808.2
714.3
621.1
568.4
535.2
512.1
496.2
478.8
449.2
424.7
414.6
413.8
407.3
441.3
437.7
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238.3
182.7
137.9
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