

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: P950810

Luminaire Tested: **GALN-SB5A-927-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950810
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5A-927-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13978 lumens
Efficiency: N/A
Efficacy: 98.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

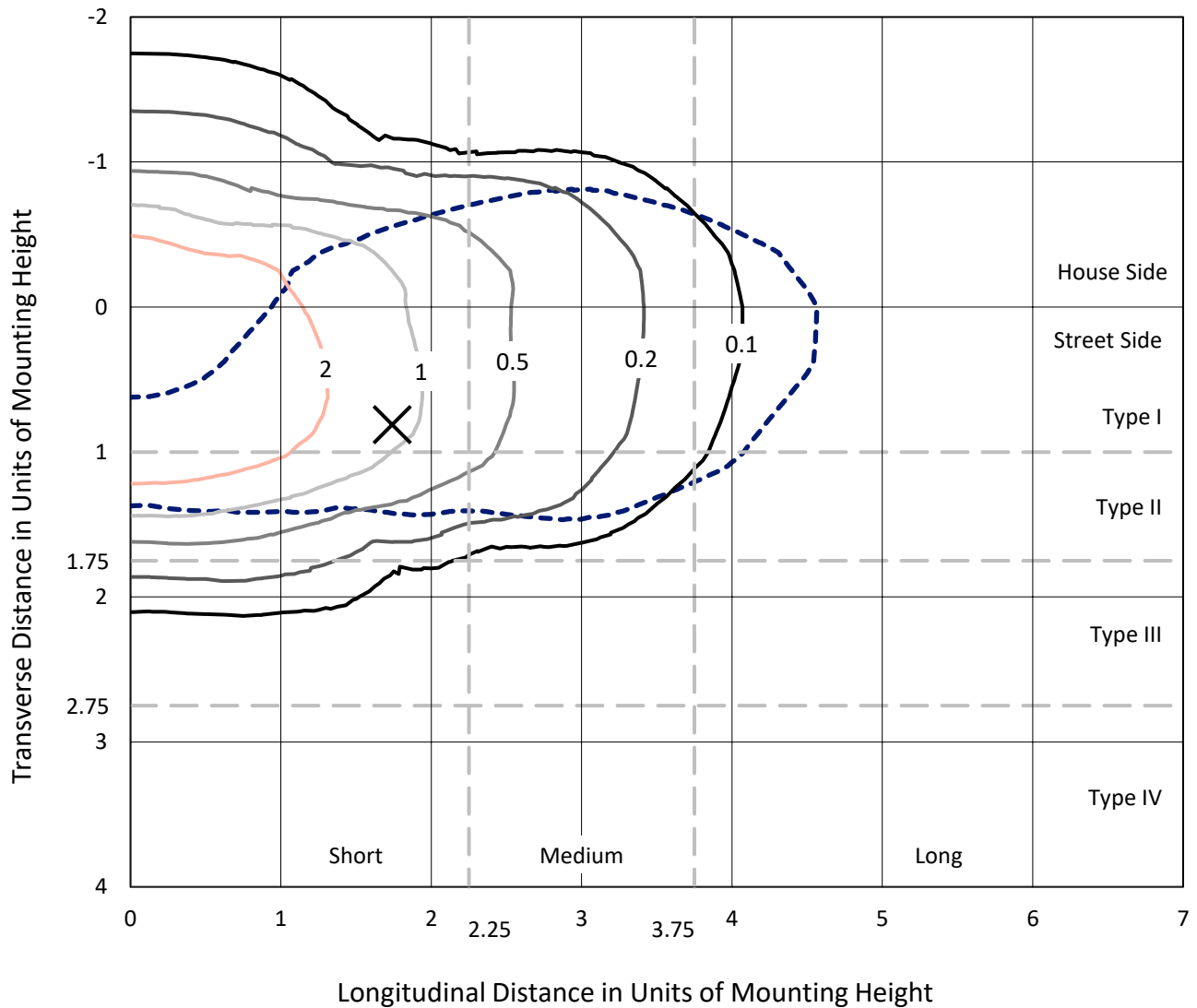
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

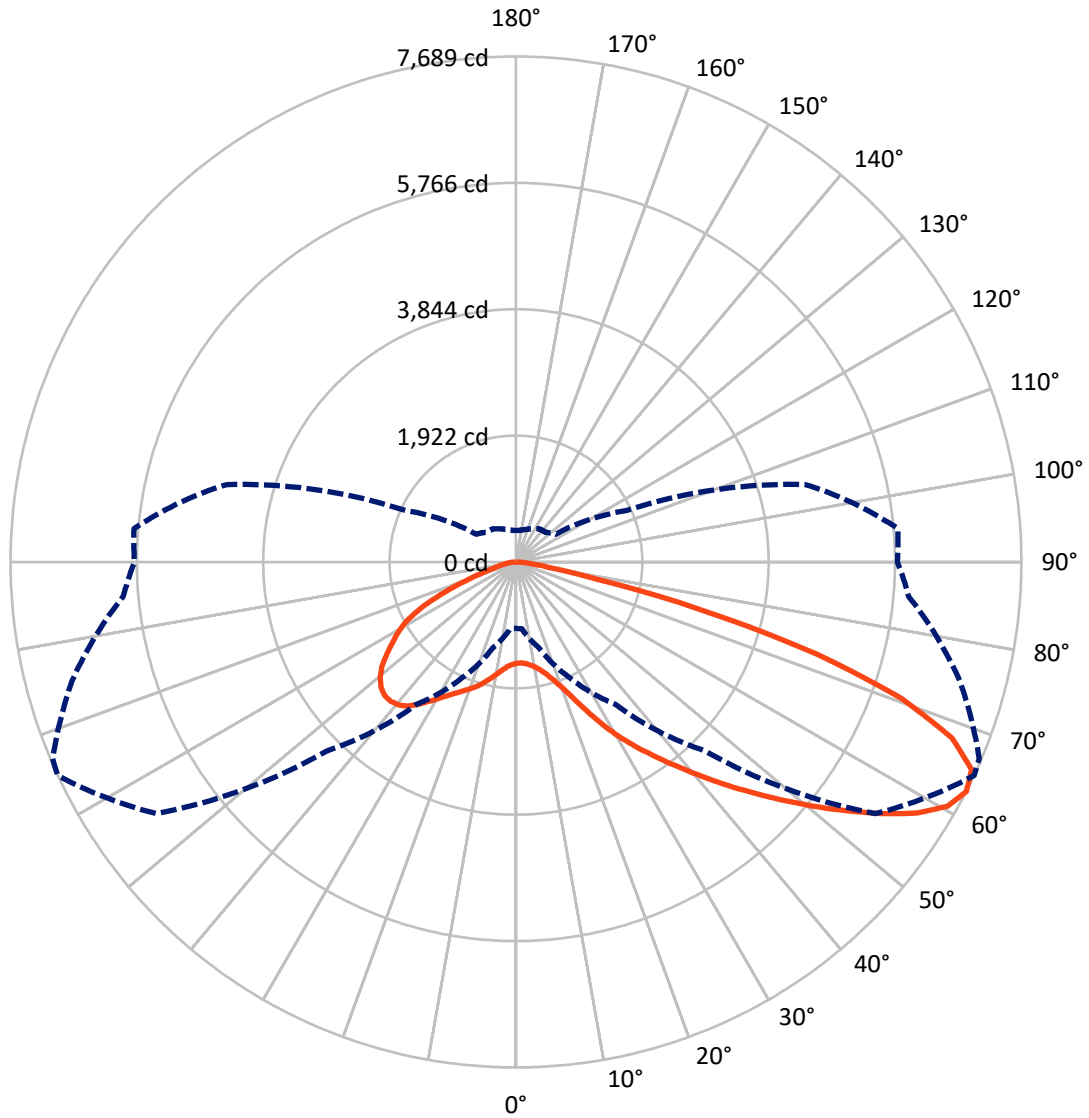
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4410.8	0.0	4410.8
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	9567.1	0.0	9567.1
	% Fixture	68.4	0.0	68.4
Total	Lumens	13978.0	0.0	13978.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.6	1.1
10°-20°	520.8	3.7
20°-30°	1055.9	7.6
30°-40°	1827.2	13.1
40°-50°	2765.1	19.8
50°-60°	3242.0	23.2
60°-70°	2718.0	19.4
70°-80°	1500.5	10.7
80°-90°	194.9	1.4
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°	13978.0	100.0
0°-180°	13978.0	100.0



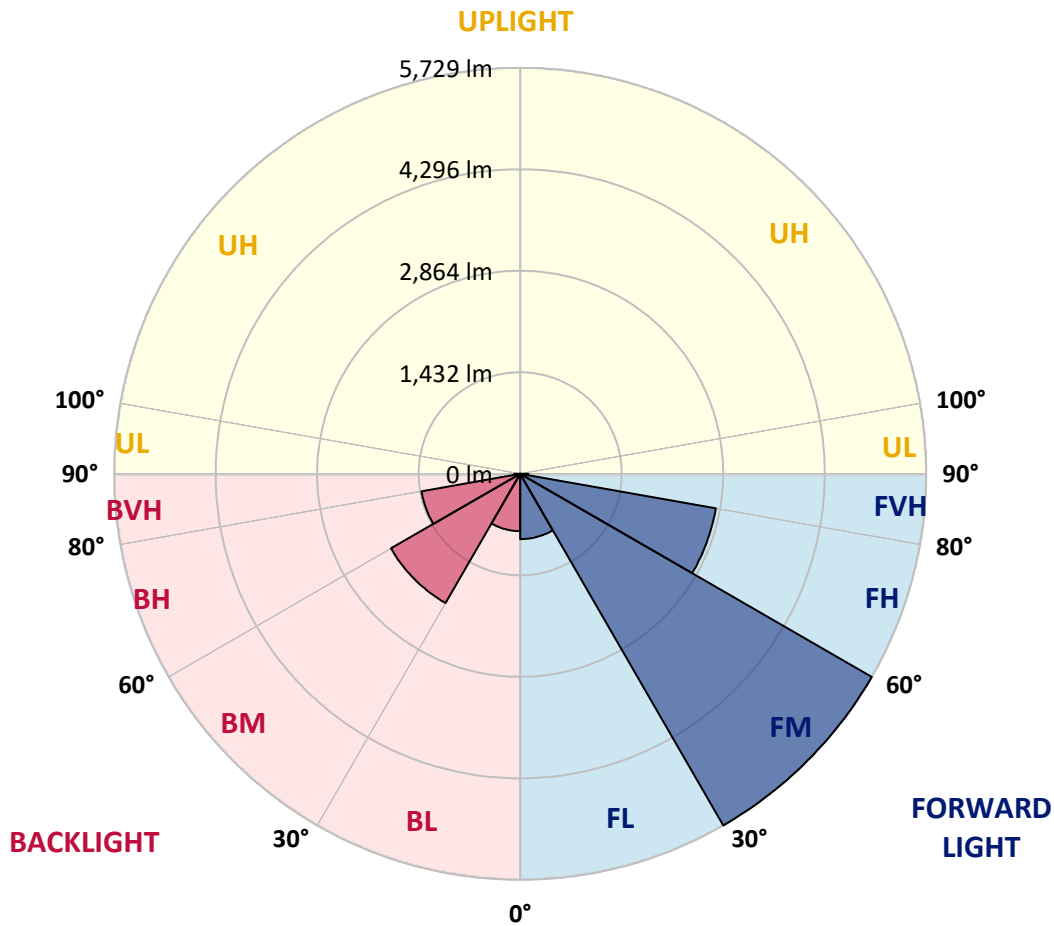
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	921.3	6.6			
FM (30°-60°)	5728.6	41.0			
FH (60°-80°)	2803.6	20.1			G2/5000
FVH (80°-90°)	113.6	0.8			G2/225
BL (0°-30°)	808.9	5.8	B2/1000		
BM (30°-60°)	2105.7	15.1	B2/2500		
BH (60°-80°)	1415.0	10.1	B3/2500		G3/2500
BVH (80°-90°)	81.3	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	1540.3	1540.3	1540.3	1540.3	1540.3	1540.3	1540.3	1540.3	1540.3	1540.3
2.5°	1530.2	1525.8	1529.4	1529.4	1530.9	1530.2	1535.2	1536.7	1538.9	1543.2
5°	1514.9	1514.2	1520.7	1526.5	1532.3	1537.4	1543.9	1553.4	1554.8	1559.9
7.5°	1509.9	1505.5	1515.7	1522.9	1536.7	1549.0	1566.4	1582.4	1588.9	1591.1
10°	1549.0	1541.8	1551.2	1555.5	1567.1	1579.5	1599.8	1625.2	1632.4	1641.1
12.5°	1615.7	1607.8	1621.5	1628.1	1638.9	1649.8	1663.6	1688.3	1691.9	1707.8
15°	1707.1	1697.7	1706.4	1714.4	1732.5	1742.6	1756.4	1780.4	1780.4	1792.7
17.5°	1831.1	1818.8	1825.3	1828.2	1839.8	1855.0	1878.3	1899.3	1910.2	1905.8
20°	2016.0	2000.8	2000.8	1986.3	1982.0	1994.3	2024.7	2053.8	2065.4	2042.9
22.5°	2293.8	2272.0	2259.7	2210.4	2190.8	2192.3	2222.7	2258.3	2267.7	2227.8
25°	2647.0	2612.9	2596.2	2523.7	2479.4	2441.0	2464.9	2510.6	2523.7	2474.4
27.5°	3000.1	3002.3	2986.4	2899.3	2826.1	2755.7	2743.4	2791.3	2805.1	2749.2
30°	3495.4	3444.0	3413.5	3309.1	3204.6	3106.0	3055.2	3074.8	3078.5	3011.7
32.5°	3922.6	3909.5	3844.3	3752.9	3618.7	3464.3	3379.4	3348.2	3342.4	3247.4
35°	4409.2	4401.9	4333.0	4224.3	4079.2	3864.6	3711.5	3622.4	3615.1	3481.7
37.5°	4903.8	4903.8	4836.3	4717.4	4567.3	4299.0	4066.2	3924.8	3901.6	3727.5
40°	5298.3	5274.3	5286.7	5236.6	5064.8	4779.8	4460.0	4254.7	4223.5	4014.7
42.5°	5522.4	5514.4	5588.4	5644.2	5573.9	5346.1	4893.6	4612.2	4568.7	4330.9
45°	5572.4	5563.7	5695.7	5900.2	5998.8	5905.3	5365.0	4988.6	4935.7	4661.6
47.5°	5457.1	5439.7	5633.3	5956.0	6272.2	6436.8	5875.5	5396.9	5320.0	4983.5
50°	5110.5	5093.8	5386.8	5815.3	6364.3	6798.0	6429.6	5829.8	5712.4	5328.7
52.5°	4357.0	4365.0	4824.0	5412.9	6243.2	7022.8	6906.8	6286.0	6144.6	5681.9
55°	3393.9	3411.3	3975.5	4623.8	5758.8	6988.7	7232.4	6755.9	6615.2	6014.0
57.5°	2430.1	2507.0	3035.7	3677.5	4828.4	6448.4	7303.4	7202.6	7066.3	6376.6
60°	1575.1	1588.9	2132.8	2779.7	3676.7	5488.3	7159.1	7541.3	7434.7	6746.5
62.5°	1009.5	1018.9	1350.3	1944.2	2646.2	4060.4	6673.2	7688.5	7655.9	6990.9
65°	741.9	734.6	907.2	1285.0	1782.5	2504.1	5729.8	7617.5	7682.0	7143.9
67.5°	619.3	609.2	694.0	889.8	1313.3	1422.1	4239.5	7155.5	7391.9	7126.5
70°	564.2	555.5	607.0	660.7	1024.7	952.2	2137.2	6220.7	6584.8	6928.5
72.5°	477.9	462.7	533.0	586.7	797.0	730.3	883.3	4778.3	5222.1	6294.0
75°	370.6	360.4	420.6	516.3	599.0	570.0	558.4	2901.5	3385.9	4867.5
77.5°	293.7	279.9	335.0	402.5	538.8	430.0	406.8	1249.5	1729.6	3107.5
80°	221.2	208.9	254.5	318.4	414.1	324.2	263.2	509.8	652.0	1574.4
82.5°	157.4	146.5	177.7	233.5	278.5	290.8	161.7	285.7	321.3	607.0
85°	100.8	94.3	118.9	146.5	176.9	187.1	98.6	149.4	163.9	250.2
87.5°	55.1	45.0	63.8	68.2	81.9	74.7	47.1	54.4	58.7	90.6
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°
1540.3	0°	1540.3	1540.3	1540.3	1540.3	1540.3	1540.3	1540.3	1540.3	1540.3	1540.3
1543.2	2.5°	1546.1	1548.3	1555.5	1557.7	1562.8	1569.3	1573.7	1578.0	1578.0	1582.4
1566.4	5°	1567.1	1572.2	1587.5	1595.4	1608.5	1621.5	1629.5	1638.9	1644.7	1647.6
1603.4	7.5°	1607.8	1615.7	1637.5	1651.3	1673.8	1691.9	1704.2	1717.3	1720.2	1728.1
1654.9	10°	1662.9	1672.3	1697.0	1723.1	1749.9	1772.4	1784.0	1793.4	1797.0	1798.5
1720.9	12.5°	1726.0	1739.7	1771.7	1803.6	1831.8	1851.4	1854.3	1852.1	1842.0	1833.3
1802.1	15°	1803.6	1815.9	1851.4	1886.2	1913.8	1917.4	1899.3	1887.7	1875.4	1873.2
1892.8	17.5°	1896.4	1902.9	1935.5	1969.6	1971.8	1959.5	1932.6	1921.8	1910.2	1902.2
2011.0	20°	2004.4	2002.3	2025.5	2040.0	2024.7	1987.0	1946.4	1928.3	1916.7	1907.3
2156.0	22.5°	2133.5	2116.8	2113.9	2110.3	2069.7	1990.7	1935.5	1912.3	1894.2	1881.2
2358.3	25°	2321.4	2257.5	2213.3	2188.6	2097.3	1971.1	1900.7	1849.2	1815.2	1792.7
2605.6	27.5°	2556.3	2449.0	2337.3	2277.1	2097.3	1931.2	1816.6	1733.2	1677.4	1654.2
2844.9	30°	2780.4	2668.0	2503.4	2383.7	2092.2	1865.9	1681.0	1565.0	1499.7	1476.5
3049.4	32.5°	2971.9	2849.3	2679.6	2500.5	2079.9	1760.0	1512.8	1384.4	1321.3	1293.7
3251.8	35°	3149.5	3019.0	2856.5	2628.8	2047.2	1604.9	1327.8	1229.9	1159.6	1115.4
3457.7	37.5°	3331.5	3176.4	3024.1	2744.9	1988.5	1423.6	1185.7	1102.3	1019.6	960.2
3676.7	40°	3529.5	3343.9	3203.2	2813.8	1892.0	1251.0	1075.5	999.3	911.6	848.5
3929.1	42.5°	3760.9	3544.8	3402.6	2849.3	1760.0	1128.4	1003.7	929.0	846.3	794.8
4199.6	45°	4002.4	3765.9	3584.6	2848.6	1612.8	1071.1	980.5	906.5	815.1	761.5
4477.4	47.5°	4255.4	3997.3	3742.0	2802.2	1485.2	1079.1	967.4	857.9	757.1	704.9
4758.0	50°	4509.3	4250.4	3894.3	2715.1	1430.8	1061.7	918.8	789.7	670.8	623.7
5021.3	52.5°	4760.9	4519.4	4025.6	2591.1	1375.7	997.1	856.5	701.3	635.3	602.6
5293.2	55°	5014.0	4785.6	4168.4	2410.5	1237.9	921.7	752.0	667.9	607.0	577.3
5559.3	57.5°	5267.8	5093.0	4304.0	2230.0	1064.6	828.9	694.7	627.3	578.7	553.3
5782.0	60°	5531.8	5444.8	4444.0	2063.9	893.4	710.0	652.7	594.7	545.3	517.1
5995.9	62.5°	5803.7	5832.0	4553.5	1850.0	736.1	637.4	615.0	555.5	507.6	480.8
6172.9	65°	6077.9	6205.5	4625.3	1553.4	596.8	568.6	574.4	512.7	464.1	440.9
6302.7	67.5°	6284.5	6474.5	4605.0	1175.5	489.5	503.3	523.6	467.8	422.1	403.9
6281.6	70°	6307.7	6442.6	4404.8	805.0	409.7	439.5	467.0	423.5	376.4	363.3
5985.8	72.5°	5998.8	6007.5	3847.2	525.8	346.6	385.8	407.6	378.6	332.9	319.8
5236.6	75°	5188.8	4968.3	2824.6	346.6	290.1	331.4	351.7	331.4	287.2	290.1
3918.2	77.5°	3931.3	3518.6	1715.1	246.6	242.2	278.5	306.0	291.5	253.8	285.0
1970.4	80°	2025.5	1903.6	765.1	184.2	191.5	222.6	251.6	232.8	200.9	191.5
440.2	82.5°	464.1	539.5	301.7	132.0	138.5	160.3	192.2	174.8	144.3	121.8
183.5	85°	162.4	177.7	133.4	82.7	81.2	100.1	130.5	116.8	97.9	78.3
77.6	87.5°	51.5	67.4	50.0	33.4	34.8	45.0	60.2	55.1	45.7	29.7
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>
1540.3
1582.4
1649.1
1725.2
1794.9
1833.3
1873.2
1902.9
1908.0
1885.5
1801.4
1665.8
1490.3
1307.5
1129.9
976.1
860.8
805.0
770.2
712.1
626.6
602.6
574.4
549.0
514.9
480.1
440.2
404.7
364.0
319.1
279.9
250.9
174.8
120.4
82.7
31.2
0.0

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