

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: P941557

Luminaire Tested: **GALN-SB5A-927-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941557
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-SB5A-927-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13802 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

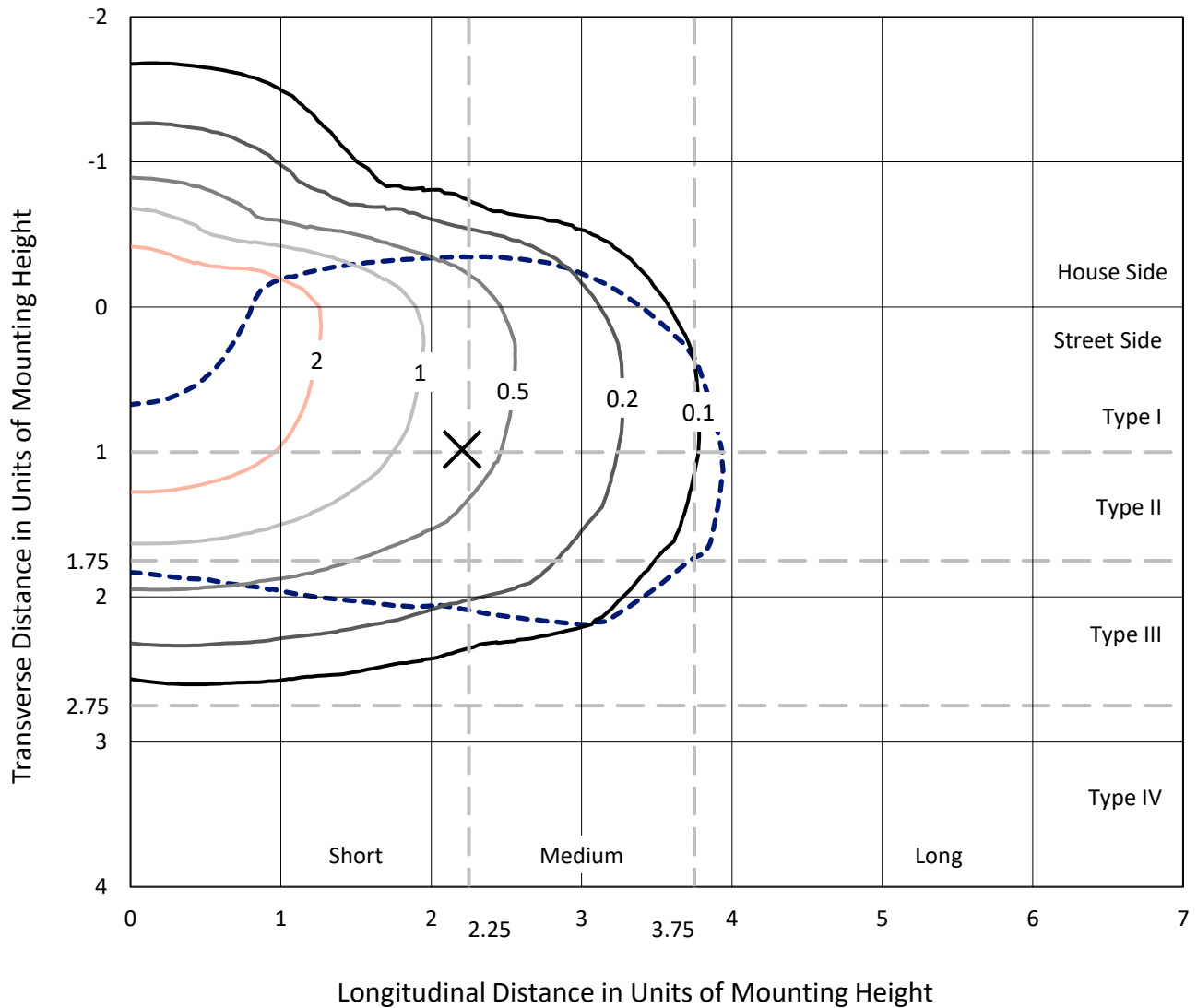
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

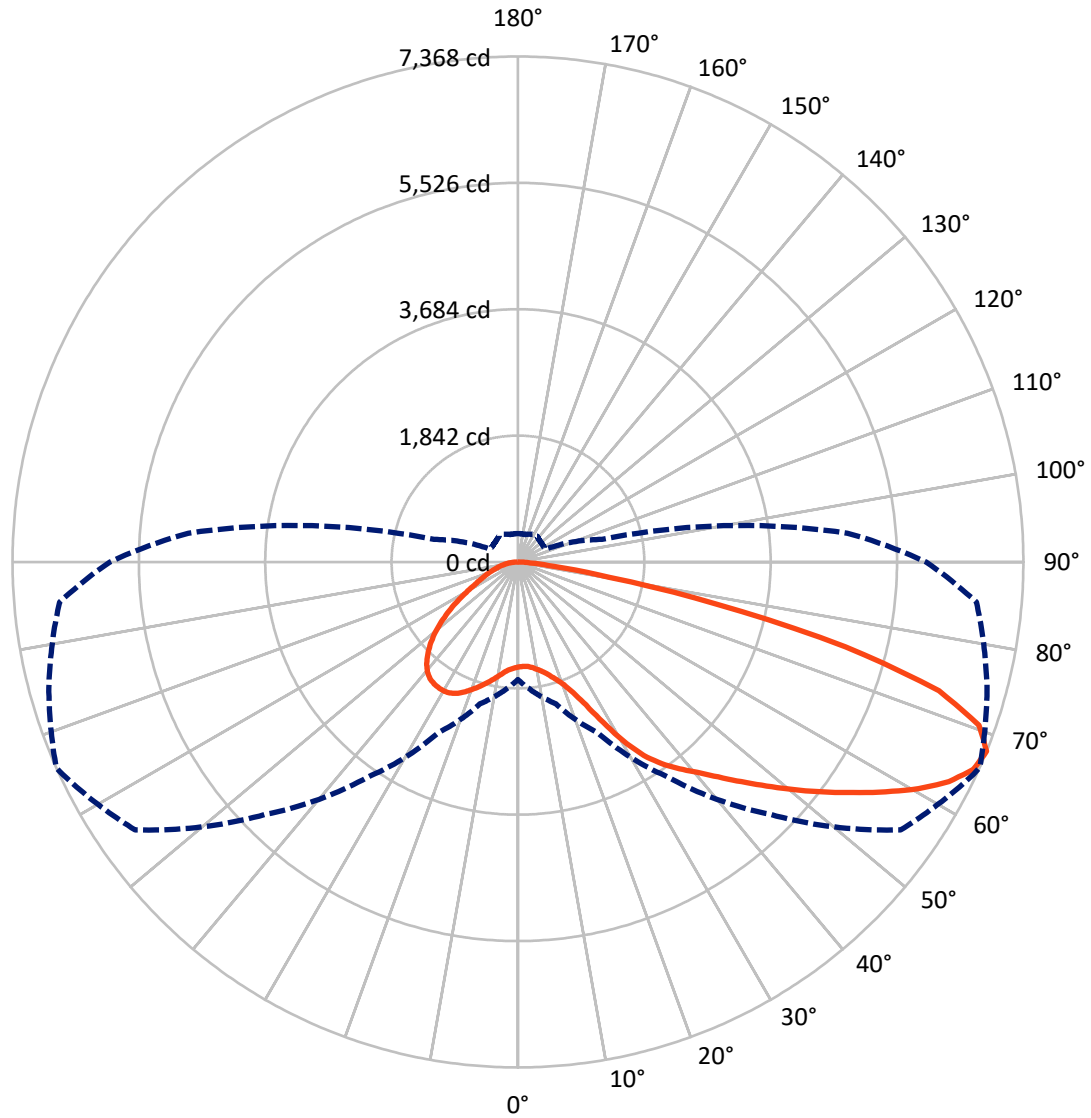
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 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	3431.8	0.0	3431.8
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	10370.2	0.0	10370.2
	% Fixture	75.1	0.0	75.1
Total	Lumens	13802.0	0.0	13802.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.8	1.1
10°-20°	501.4	3.6
20°-30°	966.5	7.0
30°-40°	1694.6	12.3
40°-50°	2519.4	18.3
50°-60°	3193.6	23.1
60°-70°	3124.8	22.6
70°-80°	1490.6	10.8
80°-90°	159.3	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°	13802.0	100.0
0°-180°	13802.0	100.0

Coefficient of Utilization



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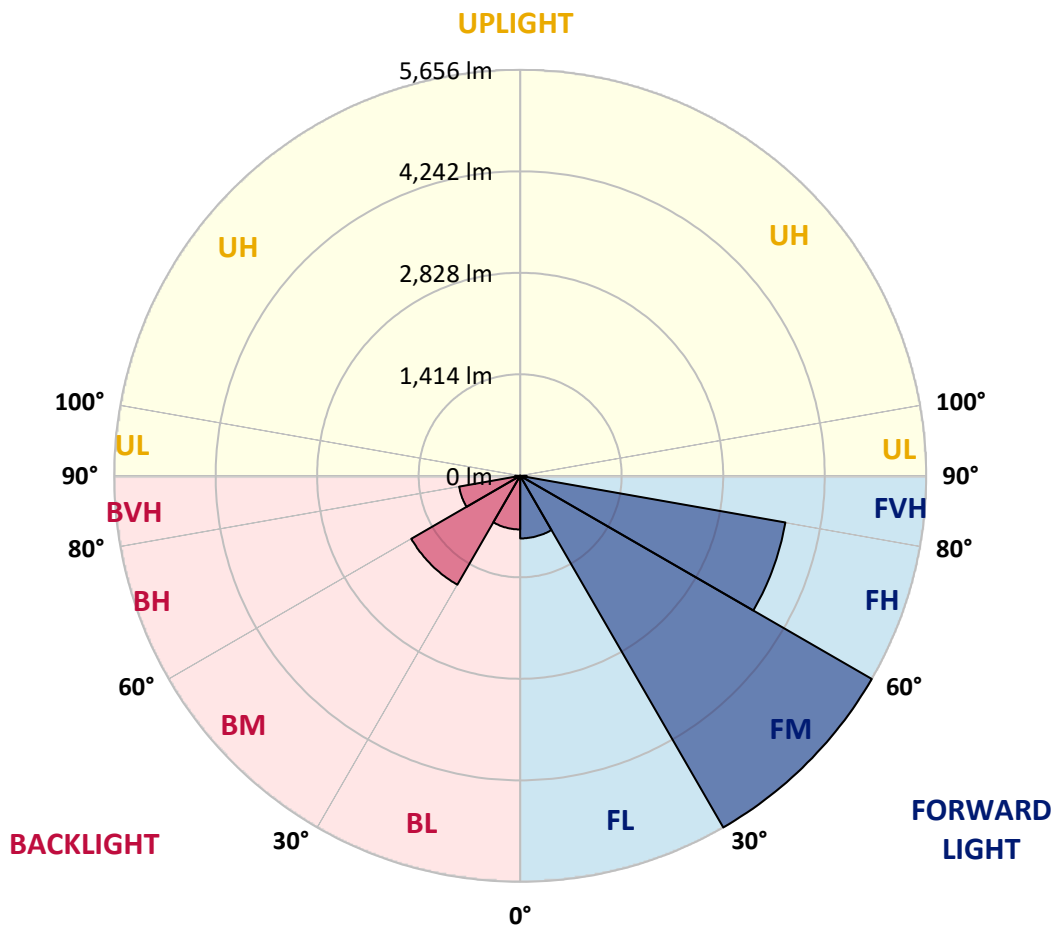
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	872.2	6.3			
FM (30°-60°)	5655.9	41.0			
FH (60°-80°)	3751.8	27.2			G2/5000
FVH (80°-90°)	90.3	0.7			G1/100
BL (0°-30°)	747.6	5.4	B2/1000		
BM (30°-60°)	1751.6	12.7	B2/2500		
BH (60°-80°)	863.6	6.3	B2/1000		G2/1000
BVH (80°-90°)	69.0	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°	1530.8	1530.8	1530.8	1530.8	1530.8	1530.8	1530.8	1530.8	1530.8	1530.8
2.5°	1514.9	1523.6	1521.4	1517.8	1517.0	1518.5	1520.7	1522.8	1522.1	1525.7
5°	1510.5	1519.2	1518.5	1518.5	1521.4	1527.2	1530.8	1534.5	1530.8	1535.2
7.5°	1513.4	1519.9	1522.8	1525.7	1533.0	1543.9	1552.6	1560.6	1556.2	1561.3
10°	1550.4	1555.5	1558.4	1558.4	1563.5	1575.8	1584.5	1599.0	1595.4	1603.3
12.5°	1617.8	1622.9	1622.9	1620.0	1623.6	1631.6	1634.5	1650.5	1644.0	1657.0
15°	1700.5	1710.7	1702.7	1697.6	1699.1	1707.0	1706.3	1718.6	1712.1	1723.0
17.5°	1791.9	1804.9	1791.9	1791.2	1788.3	1797.0	1797.7	1808.6	1797.0	1804.9
20°	1899.9	1918.1	1907.2	1910.8	1904.3	1907.9	1911.5	1927.5	1909.4	1915.2
22.5°	2052.2	2074.0	2062.4	2076.1	2071.8	2068.9	2068.2	2096.5	2068.2	2070.3
25°	2274.1	2300.2	2279.9	2298.8	2298.8	2308.2	2319.1	2355.3	2308.2	2294.4
27.5°	2601.9	2628.0	2588.1	2599.7	2596.1	2619.3	2607.7	2697.6	2646.9	2624.4
30°	2996.4	3042.8	2967.4	2964.5	2960.9	2997.8	3014.5	3074.0	3022.5	3000.0
32.5°	3422.8	3471.4	3381.4	3355.3	3341.6	3364.0	3350.3	3398.1	3362.6	3327.8
35°	3873.8	3921.7	3836.1	3785.4	3730.3	3683.1	3633.8	3646.1	3612.8	3559.8
37.5°	4300.2	4388.0	4297.3	4242.9	4141.4	4049.3	3911.5	3854.3	3823.1	3774.5
40°	4734.6	4784.6	4715.8	4669.3	4559.1	4414.8	4194.4	4073.3	4031.2	3984.1
42.5°	5054.4	5102.3	5065.3	5033.4	4947.1	4779.6	4494.6	4343.0	4282.1	4229.2
45°	5308.2	5343.7	5320.5	5332.1	5295.2	5132.7	4805.7	4632.4	4569.3	4504.7
47.5°	5410.5	5448.2	5485.2	5554.0	5617.1	5497.5	5140.0	4945.6	4878.9	4812.9
50°	5398.9	5437.3	5544.6	5691.1	5886.9	5847.0	5492.4	5279.2	5217.6	5142.1
52.5°	5306.0	5349.5	5487.3	5731.0	6042.8	6108.8	5851.4	5623.7	5565.6	5475.7
55°	5062.4	5088.5	5295.2	5640.3	6079.8	6291.5	6203.1	5990.6	5932.6	5807.1
57.5°	4610.6	4648.3	4949.3	5396.0	5987.0	6415.5	6512.0	6376.4	6320.5	6140.0
60°	4021.0	4081.2	4425.7	4985.5	5750.6	6414.8	6792.6	6755.6	6709.2	6467.8
62.5°	3353.9	3423.5	3754.9	4405.4	5337.2	6232.8	6968.1	7073.3	7049.3	6770.1
65°	2575.8	2623.6	2953.6	3654.8	4694.0	5841.9	6988.4	7290.1	7294.4	7000.0
67.5°	1715.0	1852.8	2139.2	2742.6	3832.5	5203.1	6810.0	7325.6	7367.7	7079.1
70°	836.8	1018.1	1298.8	1782.5	2742.6	4223.4	6343.7	7034.1	7127.7	6848.5
72.5°	347.4	406.1	559.1	879.6	1574.3	2849.9	5406.8	6243.7	6417.0	6068.2
75°	234.2	253.8	319.8	451.1	717.2	1405.4	3899.2	4655.6	4934.8	4583.0
77.5°	180.6	192.9	232.8	315.4	426.4	531.5	2087.0	2805.7	2950.0	2731.0
80°	142.1	151.6	174.0	229.9	302.4	284.3	711.4	1271.2	1354.6	1136.3
82.5°	123.3	126.9	124.7	155.9	200.9	166.1	233.5	469.2	517.8	375.6
85°	89.2	99.3	103.7	96.4	106.6	84.1	95.7	166.1	182.7	163.2
87.5°	36.3	53.7	66.0	62.4	39.2	23.9	29.7	48.6	55.8	60.9
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°
1530.8	0°	1530.8	1530.8	1530.8	1530.8	1530.8	1530.8	1530.8	1530.8	1530.8	1530.8
1531.5	2.5°	1532.3	1537.4	1541.0	1545.3	1548.2	1552.6	1561.3	1566.4	1567.1	1570.7
1543.2	5°	1546.1	1553.3	1561.3	1572.9	1585.9	1596.8	1613.5	1625.1	1629.4	1633.1
1571.4	7.5°	1575.8	1585.9	1600.4	1620.7	1639.6	1654.1	1674.4	1688.2	1702.0	1707.0
1616.4	10°	1620.0	1634.5	1655.6	1683.1	1703.4	1722.3	1743.3	1754.9	1768.7	1774.5
1670.1	12.5°	1675.1	1690.4	1717.9	1756.4	1775.2	1788.3	1795.5	1792.6	1795.5	1800.6
1734.6	15°	1738.2	1754.9	1786.1	1827.4	1840.5	1828.9	1812.9	1798.4	1796.2	1797.7
1812.9	17.5°	1812.9	1825.2	1861.5	1896.3	1886.9	1839.0	1804.2	1781.0	1769.4	1765.8
1913.0	20°	1917.3	1917.3	1947.1	1968.8	1905.7	1824.5	1770.1	1732.4	1708.5	1698.3
2049.3	22.5°	2044.2	2032.6	2051.5	2036.3	1902.1	1783.9	1708.5	1643.2	1607.0	1592.5
2240.0	25°	2205.2	2191.4	2186.4	2092.1	1876.0	1719.4	1596.8	1517.8	1485.9	1477.9
2514.9	27.5°	2448.2	2413.4	2347.4	2122.6	1828.1	1617.8	1466.3	1393.0	1374.9	1375.6
2868.0	30°	2771.6	2702.0	2540.3	2127.6	1749.8	1474.3	1332.9	1280.6	1271.9	1275.6
3164.6	32.5°	3071.1	3005.1	2737.5	2104.4	1629.4	1333.6	1213.2	1178.4	1165.3	1169.7
3390.9	35°	3306.0	3287.9	2920.2	2071.8	1481.5	1201.6	1105.9	1076.1	1050.8	1045.0
3604.1	37.5°	3527.9	3520.7	3057.3	2026.1	1335.0	1108.1	1019.6	980.4	943.4	923.1
3839.8	40°	3771.6	3764.3	3147.2	1955.8	1205.2	1026.8	942.0	890.5	844.8	807.8
4106.6	42.5°	4045.7	4002.9	3190.0	1855.0	1095.0	957.9	878.9	809.3	749.1	715.0
4408.3	45°	4345.2	4248.7	3189.3	1726.6	1002.2	894.9	811.5	712.8	657.0	625.1
4717.9	47.5°	4662.8	4483.7	3150.1	1584.5	912.3	825.2	707.0	631.6	594.6	575.1
5054.4	50°	4990.6	4703.4	3083.4	1421.3	820.2	746.2	641.8	590.3	562.0	543.9
5388.0	52.5°	5298.8	4902.8	3002.9	1236.4	726.6	669.3	612.8	572.9	543.1	522.8
5711.4	55°	5585.2	5074.7	2889.1	1047.1	650.5	617.8	599.0	565.6	531.5	507.6
6039.9	57.5°	5839.8	5186.4	2692.5	869.5	596.1	582.3	584.5	553.3	514.1	493.8
6363.3	60°	6051.5	5268.3	2401.7	704.9	551.9	547.5	562.0	530.1	484.4	461.2
6636.7	62.5°	6178.4	5266.9	2045.0	577.2	514.1	515.6	532.3	501.1	454.7	432.9
6779.6	65°	6167.5	5137.8	1653.4	493.8	477.9	479.3	501.1	469.2	430.0	417.0
6707.8	67.5°	5949.3	4823.1	1268.3	439.5	438.0	444.5	469.9	447.4	414.8	413.3
6279.9	70°	5358.2	4169.7	913.7	395.9	396.7	406.1	439.5	433.6	406.8	409.7
5279.9	72.5°	4296.6	3179.1	613.5	350.3	351.0	366.2	410.4	422.8	398.8	437.3
3746.2	75°	2861.5	1982.6	394.5	301.7	302.4	322.0	385.1	401.7	377.1	435.8
1949.2	77.5°	1374.9	891.2	285.7	253.8	253.8	271.9	332.9	359.7	321.2	338.7
626.5	80°	475.0	335.0	224.8	204.5	200.1	212.5	280.6	311.8	277.0	255.3
204.5	82.5°	187.1	174.0	180.6	158.8	144.3	152.3	218.3	257.4	203.8	184.2
115.3	85°	107.3	113.1	127.6	105.1	83.4	93.5	160.3	184.9	153.7	135.6
37.7	87.5°	29.0	39.9	58.7	54.4	37.7	39.9	76.1	102.2	88.5	68.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END O

<u>180°</u>
1530.8
1570.0
1632.3
1707.8
1777.4
1802.0
1802.8
1770.9
1696.2
1590.3
1479.3
1377.8
1287.9
1175.5
1049.3
923.9
811.5
717.2
623.6
570.7
537.3
514.1
498.2
480.8
451.1
426.4
416.2
415.5
409.0
443.1
439.5
310.4
239.3
183.5
138.5
70.3
0.0

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