

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: P940875

Luminaire Tested: **GALN-SB4A-927-U-T2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P940875  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB4A-927-U-T2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 90 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10843 lumens  
Efficiency: N/A  
Efficacy: 95.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G2

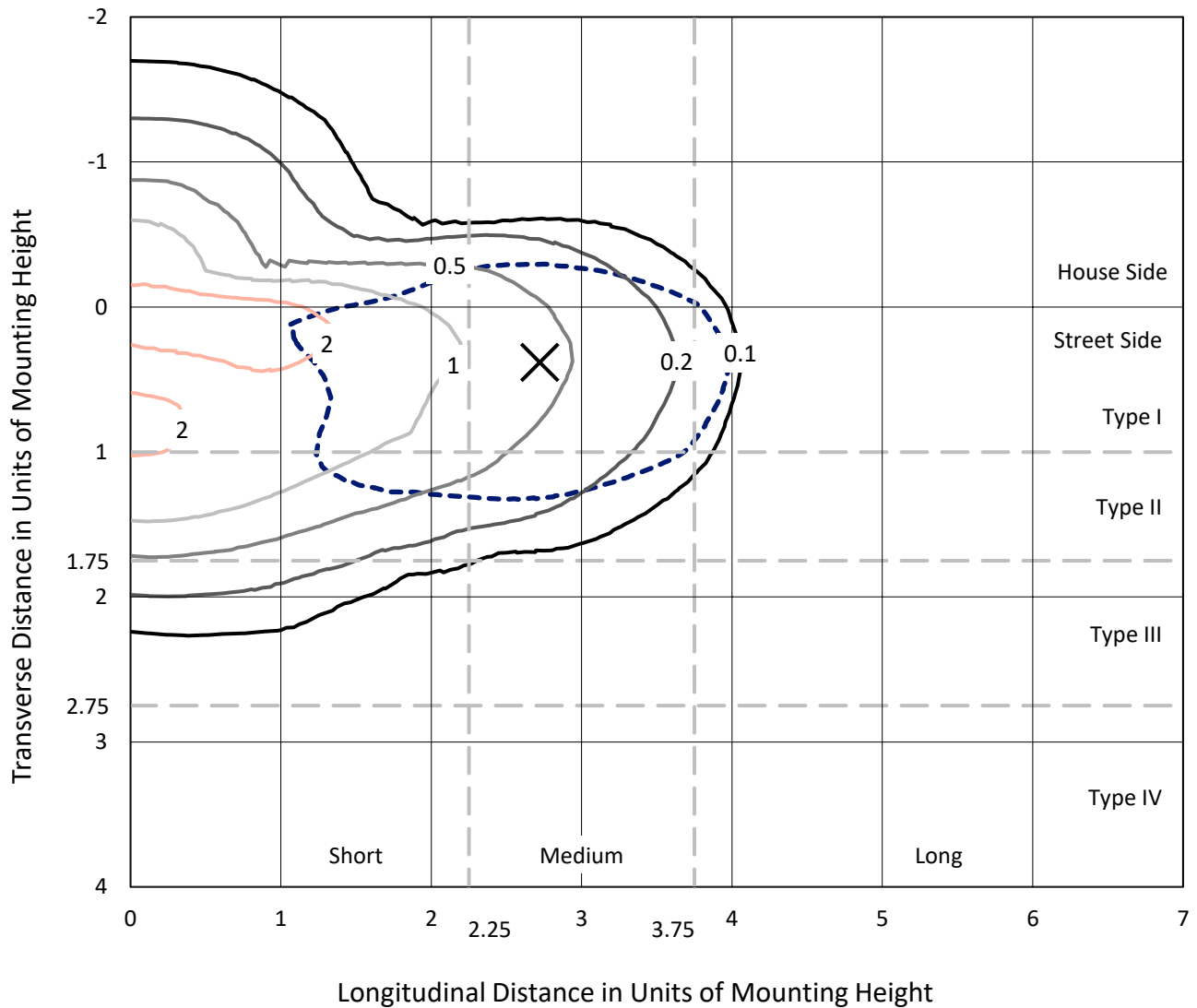
Input Watts (W): 114  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

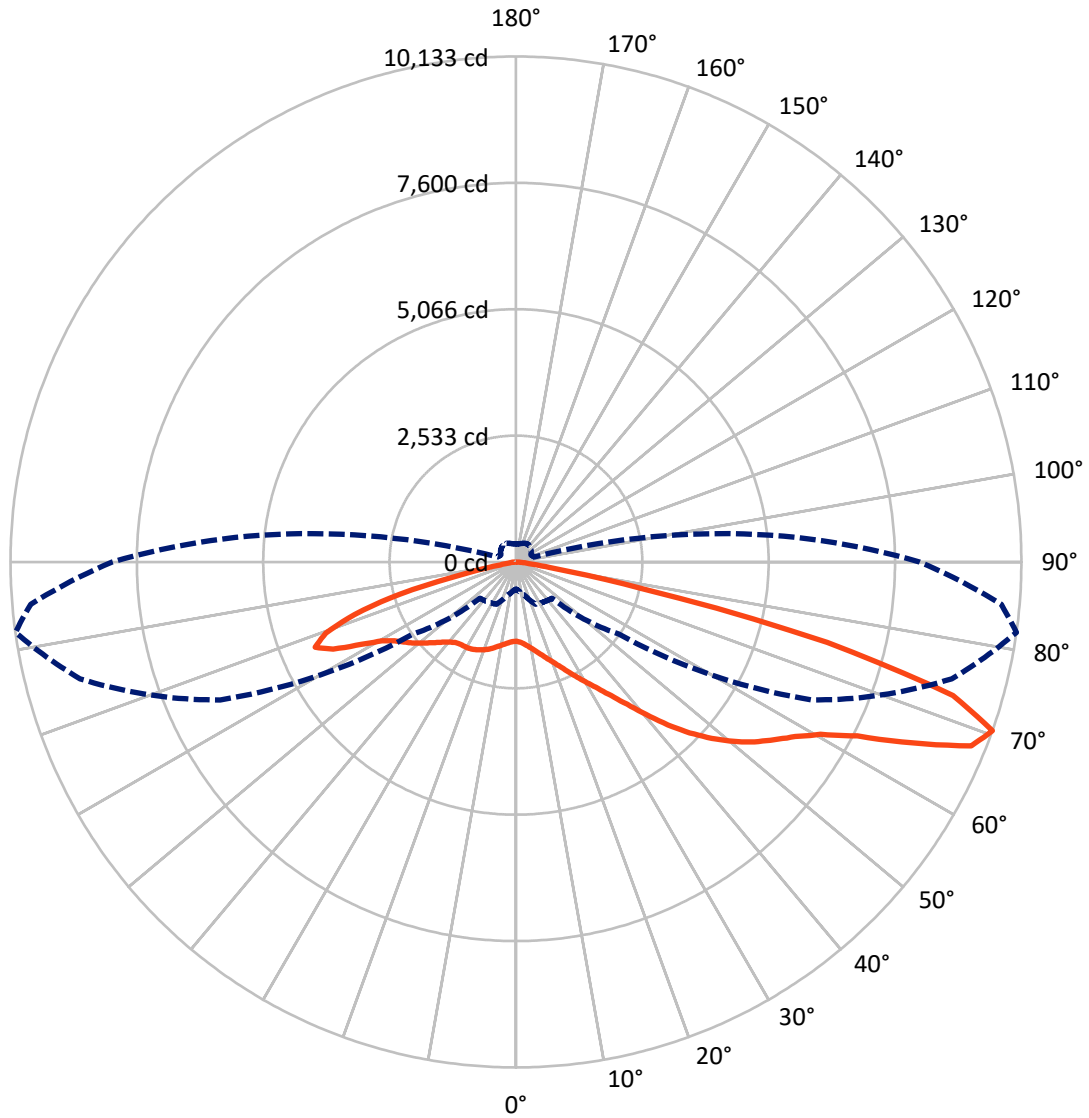
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2673.1	0.0	2673.1
	% Fixture	24.7	0.0	24.7
<b>Street Side</b>	Lumens	8169.9	0.0	8169.9
	% Fixture	75.3	0.0	75.3
<b>Total</b>	Lumens	10843.0	0.0	10843.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	150.1	1.4
10°-20°	431.2	4.0
20°-30°	721.4	6.7
30°-40°	1127.0	10.4
40°-50°	1794.9	16.6
50°-60°	2497.9	23.0
60°-70°	2612.9	24.1
70°-80°	1365.6	12.6
80°-90°	141.8	1.3
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°	10843.0	100.0
0°-180°	10843.0	100.0

**Coefficient of Utilization**



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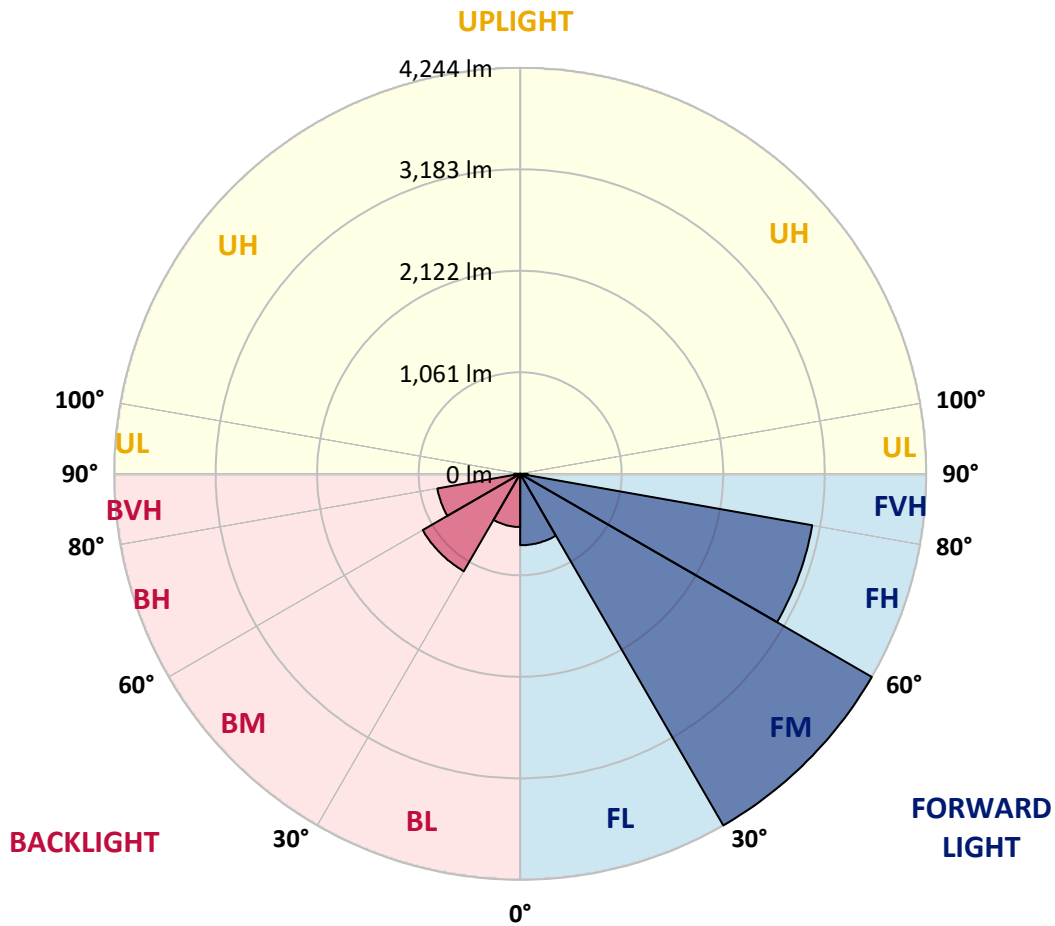
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	746.7	6.9			
FM (30°-60°)	4243.8	39.1			
FH (60°-80°)	3100.0	28.6			G2/5000
FVH (80°-90°)	79.4	0.7			G1/100
BL (0°-30°)	556.1	5.1	B2/1000		
BM (30°-60°)	1176.0	10.8	B2/2500		
BH (60°-80°)	878.5	8.1	B2/1000		G2/1000
BVH (80°-90°)	62.4	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-G2**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7
2.5°	1627.7	1636.9	1634.0	1631.1	1631.1	1627.1	1626.5	1620.8	1616.2	1608.7
5°	1648.4	1658.2	1657.0	1659.3	1666.8	1668.5	1670.3	1666.8	1657.6	1648.4
7.5°	1630.0	1640.9	1644.4	1658.2	1681.2	1701.9	1717.4	1723.8	1715.1	1701.9
10°	1567.9	1579.9	1592.0	1624.8	1665.7	1714.6	1756.0	1780.7	1779.0	1766.4
12.5°	1441.9	1454.5	1480.4	1544.3	1619.1	1705.4	1782.5	1834.2	1852.1	1842.9
15°	1341.2	1352.1	1371.7	1437.2	1534.5	1665.7	1792.2	1892.9	1938.4	1933.2
17.5°	1338.3	1342.9	1355.0	1386.0	1460.8	1603.5	1781.9	1950.5	2037.3	2036.8
20°	1388.9	1390.6	1397.5	1403.9	1446.5	1556.3	1755.4	1998.2	2148.4	2148.4
22.5°	1459.1	1458.0	1464.9	1459.1	1479.8	1552.3	1738.7	2040.2	2272.1	2281.3
25°	1564.4	1558.6	1556.9	1543.7	1547.7	1589.7	1757.1	2088.0	2418.8	2437.8
27.5°	1704.8	1695.6	1689.3	1658.8	1648.4	1666.8	1813.5	2145.5	2582.2	2615.0
30°	1887.8	1871.1	1861.9	1808.9	1771.5	1774.4	1898.7	2222.0	2753.1	2806.0
32.5°	2137.5	2111.6	2086.8	2000.0	1931.5	1909.0	2008.6	2327.9	2938.4	3022.9
35°	2417.1	2396.4	2369.9	2235.8	2130.6	2078.8	2157.0	2475.8	3155.3	3289.3
37.5°	2686.4	2668.5	2681.2	2500.5	2364.7	2289.4	2351.5	2674.3	3422.8	3620.7
40°	2964.8	2951.0	2952.7	2780.1	2621.9	2537.3	2587.4	2923.4	3729.5	4014.9
42.5°	3267.5	3257.1	3222.6	3069.5	2891.8	2812.9	2859.0	3211.1	4058.6	4463.6
45°	3606.4	3600.0	3567.8	3392.3	3188.6	3100.0	3162.2	3528.7	4389.4	4886.0
47.5°	3899.2	3904.4	3900.4	3752.5	3541.3	3411.3	3485.5	3860.1	4697.2	5283.0
50°	4040.2	4067.2	4106.9	4060.9	3929.7	3797.4	3811.8	4180.0	4990.7	5655.2
52.5°	3966.5	4017.7	4125.9	4199.6	4250.2	4222.6	4184.0	4497.6	5266.8	5991.2
55°	3692.1	3764.0	3943.5	4121.3	4379.6	4580.4	4631.1	4849.7	5536.1	6287.0
57.5°	3192.1	3308.9	3470.0	3829.6	4264.6	4753.6	5152.3	5338.2	5821.5	6602.8
60°	2334.8	2491.3	2691.5	3226.6	3861.8	4661.0	5596.0	6088.5	6227.1	7011.9
62.5°	1494.2	1590.9	1775.0	2279.0	3009.1	4186.3	5731.7	7026.3	6914.7	7682.8
65°	1023.0	1085.1	1253.7	1536.8	1945.3	3116.1	5368.1	7729.4	8006.7	8746.0
67.5°	743.4	790.5	934.4	1182.4	1267.5	1844.0	4165.6	7697.2	9068.2	9841.5
70°	542.0	575.4	696.2	934.4	975.2	1025.9	2523.5	6543.0	9045.2	10132.7
72.5°	401.6	424.6	505.7	725.0	789.4	692.7	1249.1	4755.3	7772.5	9164.9
75°	290.6	307.8	367.7	554.6	631.7	527.6	623.1	2779.0	5421.6	6446.9
77.5°	222.1	235.3	274.4	406.2	505.7	395.8	386.6	1278.4	2570.7	2583.4
80°	178.4	187.0	208.3	286.0	387.8	296.3	252.0	516.1	812.4	687.6
82.5°	131.2	145.6	176.1	200.8	277.3	204.3	153.6	260.6	309.0	265.8
85°	74.8	84.6	106.4	143.8	177.2	124.9	88.0	115.6	143.8	117.9
87.5°	26.5	34.5	37.4	56.4	77.1	51.8	33.9	33.4	47.2	35.1
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°
1589.7	0°	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7
1607.0	2.5°	1601.2	1598.3	1586.8	1571.3	1555.2	1539.7	1534.5	1523.6	1516.1	1512.0
1644.4	5°	1633.4	1624.2	1597.2	1562.7	1526.4	1487.3	1459.7	1434.4	1416.0	1398.7
1695.6	7.5°	1679.5	1663.4	1616.8	1556.3	1491.9	1426.9	1378.6	1341.7	1317.0	1300.9
1755.4	10°	1733.0	1708.2	1636.9	1546.6	1447.0	1353.8	1296.9	1265.2	1249.7	1241.1
1823.9	12.5°	1794.5	1759.5	1657.6	1524.1	1378.6	1272.1	1233.0	1223.8	1224.4	1224.9
1910.2	15°	1870.5	1821.6	1674.3	1475.2	1289.4	1209.4	1202.5	1217.5	1233.0	1240.5
2008.0	17.5°	1956.2	1887.2	1677.2	1394.7	1201.9	1169.1	1191.0	1223.2	1246.8	1257.2
2117.3	20°	2048.3	1953.9	1656.5	1280.8	1130.0	1136.3	1175.5	1216.9	1242.8	1256.0
2242.2	22.5°	2153.6	2025.3	1607.0	1161.1	1071.3	1100.7	1146.7	1187.0	1214.0	1227.2
2388.9	25°	2273.8	2105.2	1529.3	1060.4	1020.7	1060.4	1106.4	1139.8	1161.7	1173.7
2552.9	27.5°	2407.3	2188.7	1425.7	980.4	976.4	1019.0	1056.9	1082.8	1094.3	1103.5
2727.2	30°	2541.4	2264.6	1300.3	920.0	937.8	978.1	1005.2	1016.7	1020.1	1021.8
2921.7	32.5°	2686.4	2330.2	1168.6	869.9	901.0	938.4	954.5	959.7	943.6	932.7
3157.6	35°	2861.8	2400.4	1039.7	830.2	864.8	897.0	902.2	897.6	878.6	856.1
3453.3	37.5°	3078.8	2487.9	936.7	802.1	830.8	852.1	845.8	844.6	846.4	819.9
3808.9	40°	3344.6	2601.8	861.3	780.2	803.2	807.8	790.0	799.8	808.4	768.1
4199.0	42.5°	3639.7	2739.3	813.6	765.2	780.2	769.3	741.6	752.6	751.4	698.5
4590.8	45°	3940.6	2888.9	796.9	754.3	758.9	737.0	706.5	709.4	685.3	637.5
4966.5	47.5°	4239.8	3049.4	807.2	745.1	732.4	707.7	684.1	671.4	635.8	600.1
5326.7	50°	4533.3	3218.0	845.2	726.7	696.2	681.8	664.5	642.1	604.1	573.6
5667.3	52.5°	4805.4	3387.7	887.8	696.2	650.7	659.4	648.4	622.5	585.1	554.1
5989.5	55°	5063.2	3557.5	904.5	654.2	608.2	639.8	633.5	585.7	540.8	515.5
6326.7	57.5°	5343.9	3761.7	886.1	600.7	573.6	617.4	593.2	540.3	514.4	495.4
6765.7	60°	5732.9	4082.2	846.4	534.5	540.8	584.0	542.6	520.7	492.5	471.2
7423.9	62.5°	6379.0	4680.0	782.5	468.9	502.3	534.5	518.4	496.5	467.8	447.1
8549.3	65°	7334.1	5510.8	662.2	417.7	459.1	486.2	492.5	470.6	440.7	418.9
9535.4	67.5°	8139.6	6032.1	501.1	375.1	414.8	447.1	464.9	443.6	412.0	390.7
9766.2	70°	8095.3	5653.5	382.6	333.1	375.7	408.5	431.5	414.8	380.9	360.8
8870.9	72.5°	7190.3	4729.5	309.5	290.6	336.0	368.2	395.8	383.2	348.7	329.1
6498.7	75°	5282.4	3357.2	247.4	247.4	286.5	326.2	356.7	348.7	317.0	303.2
2728.4	77.5°	2226.6	1408.5	193.9	205.4	238.2	280.2	318.2	321.1	293.4	310.7
721.5	80°	592.0	388.4	147.9	161.7	187.0	231.3	276.7	275.6	245.7	229.6
268.1	82.5°	225.5	153.0	105.3	113.9	135.2	177.2	219.2	226.1	196.2	169.7
105.3	85°	86.9	65.6	65.0	68.5	78.8	117.4	165.7	171.5	147.9	125.4
29.3	87.5°	22.4	19.6	24.2	23.0	36.2	62.7	94.9	98.4	90.3	52.4
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>
1589.7
1516.6
1405.6
1304.3
1243.4
1226.1
1239.9
1259.5
1259.5
1230.7
1177.2
1107.0
1025.9
936.1
857.3
821.6
769.3
697.9
639.2
600.1
571.3
554.6
513.2
493.7
470.1
447.1
420.0
391.2
362.5
329.1
299.2
281.9
213.5
169.7
129.5
74.8
0.0

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