

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: P940907

Luminaire Tested: **GALN-SB4A-940-U-T3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P940907  
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-SB4A-940-U-T3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 90 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

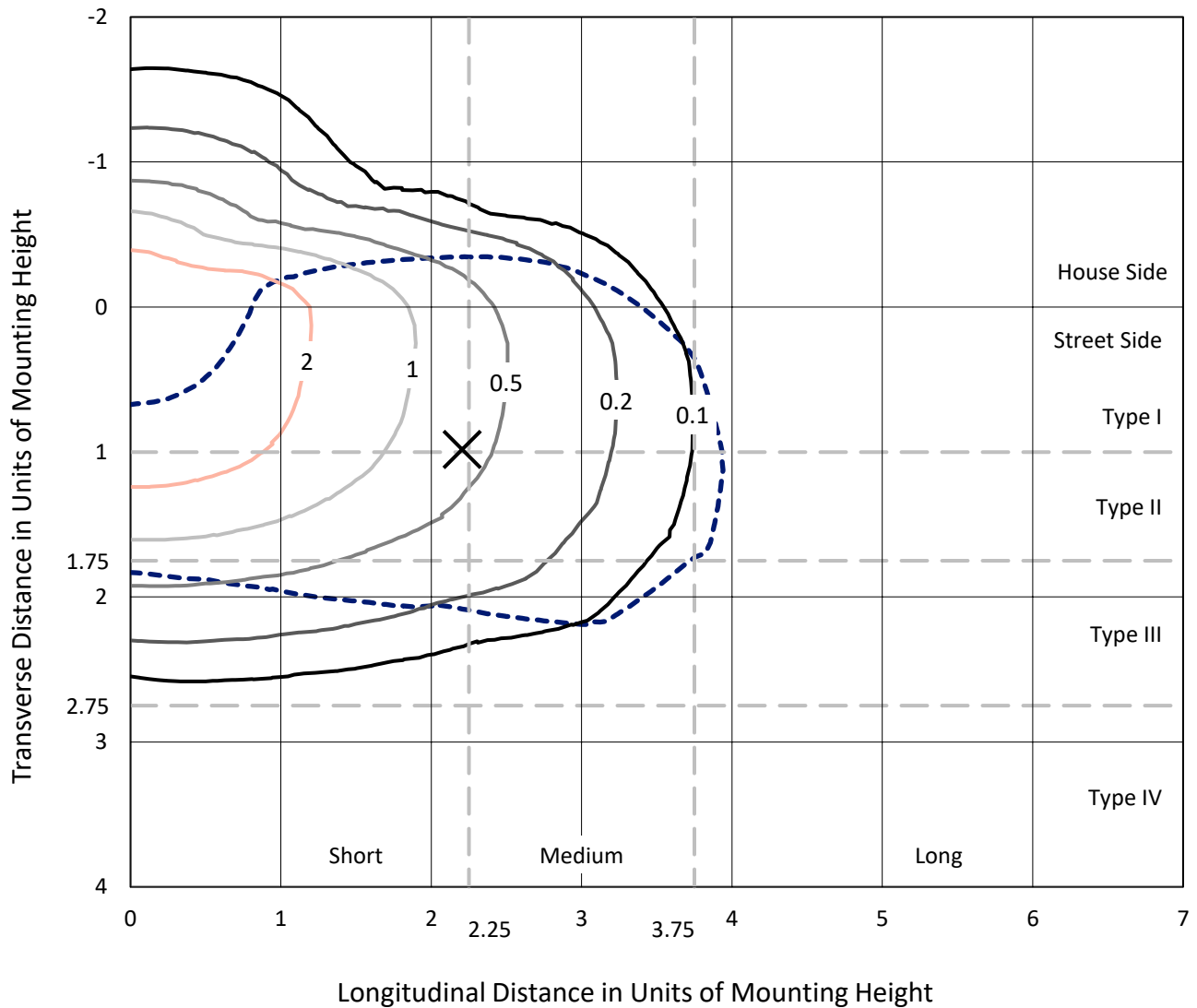
Lumens per Lamp: N/A  
Luminaire Lumens: 13036 lumens  
Efficiency: N/A  
Efficacy: 114.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 114  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

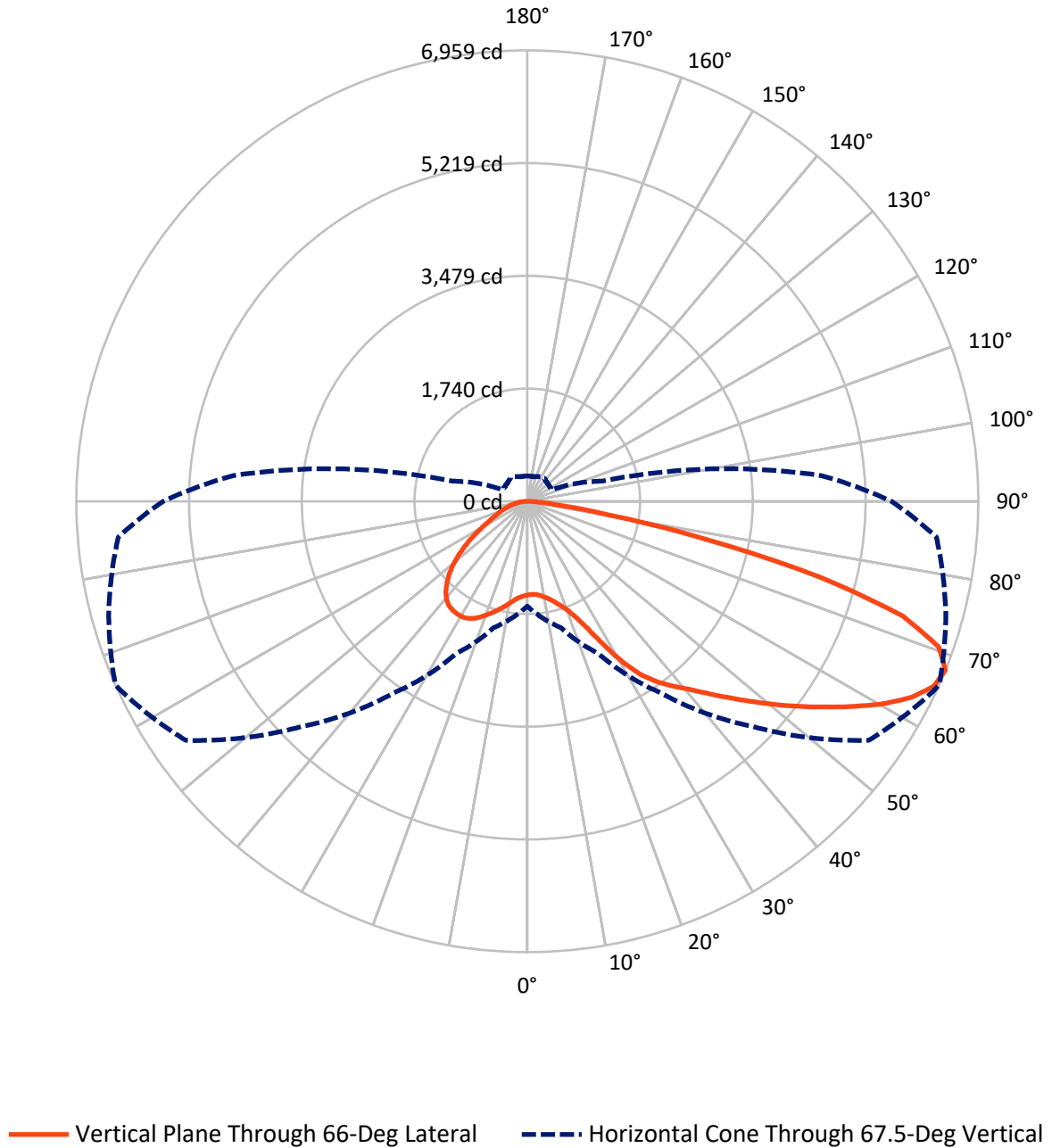
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3241.4	0.0	3241.4
	% Fixture	24.9	0.0	24.9
<b>Street Side</b>	Lumens	9794.6	0.0	9794.6
	% Fixture	75.1	0.0	75.1
<b>Total</b>	Lumens	13036.0	0.0	13036.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	143.4	1.1
10°-20°	473.6	3.6
20°-30°	912.9	7.0
30°-40°	1600.6	12.3
40°-50°	2379.6	18.3
50°-60°	3016.3	23.1
60°-70°	2951.4	22.6
70°-80°	1407.8	10.8
80°-90°	150.5	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°	13036.0	100.0
0°-180°	13036.0	100.0

**Coefficient of Utilization**



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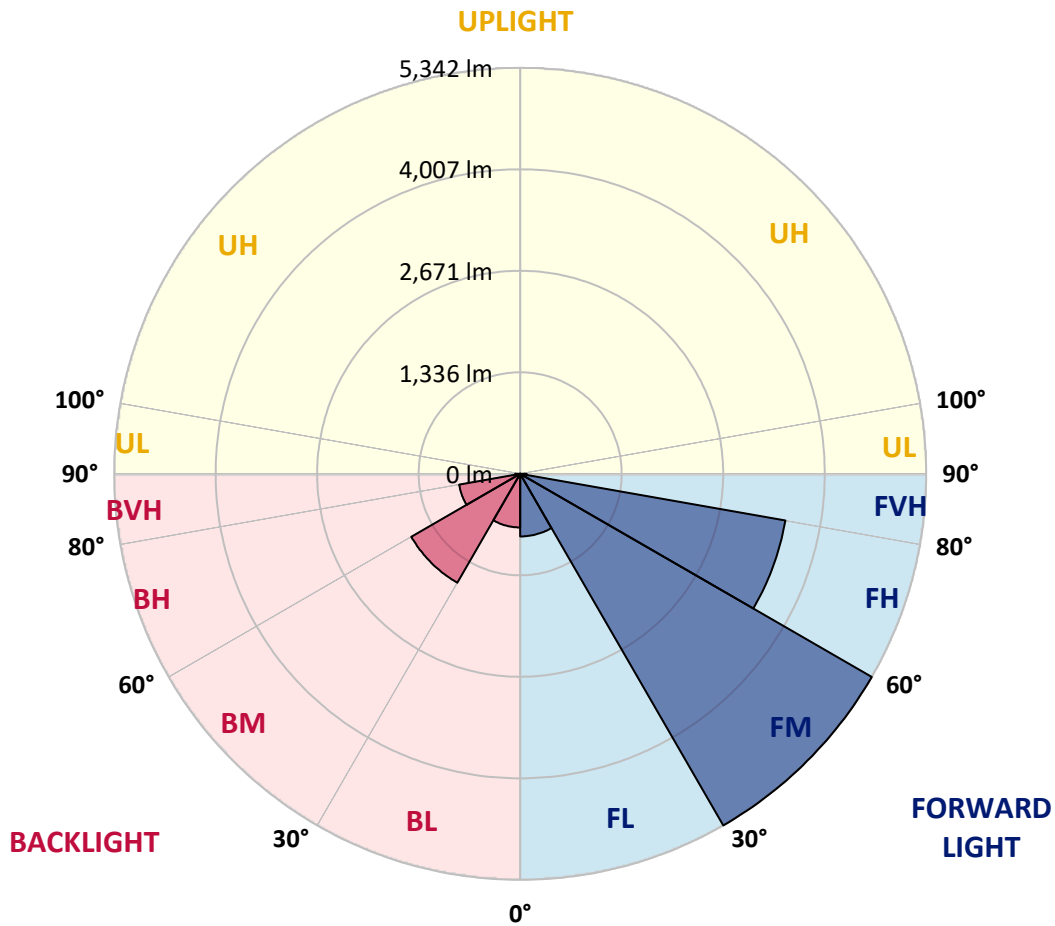
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	823.7	6.3			
FM (30°-60°)	5342.0	41.0			
FH (60°-80°)	3543.5	27.2			G2/5000
FVH (80°-90°)	85.3	0.7			G1/100
BL (0°-30°)	706.1	5.4	B2/1000		
BM (30°-60°)	1654.4	12.7	B2/2500		
BH (60°-80°)	815.7	6.3	B2/1000		G2/1000
BVH (80°-90°)	65.2	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°	1445.9	1445.9	1445.9	1445.9	1445.9	1445.9	1445.9	1445.9	1445.9	1445.9
2.5°	1430.8	1439.0	1437.0	1433.5	1432.9	1434.2	1436.3	1438.3	1437.6	1441.1
5°	1426.7	1434.9	1434.2	1434.2	1437.0	1442.4	1445.9	1449.3	1445.9	1450.0
7.5°	1429.4	1435.6	1438.3	1441.1	1447.9	1458.2	1466.4	1473.9	1469.8	1474.6
10°	1464.4	1469.2	1471.9	1471.9	1476.7	1488.3	1496.5	1510.2	1506.8	1514.4
12.5°	1528.1	1532.8	1532.8	1530.1	1533.5	1541.1	1543.8	1558.9	1552.7	1565.0
15°	1606.1	1615.7	1608.2	1603.4	1604.8	1612.3	1611.6	1623.3	1617.1	1627.4
17.5°	1692.4	1704.8	1692.4	1691.8	1689.0	1697.2	1697.9	1708.2	1697.2	1704.8
20°	1794.5	1811.6	1801.3	1804.8	1798.6	1802.0	1805.4	1820.5	1803.4	1808.9
22.5°	1938.3	1958.9	1947.9	1960.9	1956.8	1954.1	1953.4	1980.1	1953.4	1955.4
25°	2147.9	2172.6	2153.4	2171.2	2171.2	2180.1	2190.4	2224.6	2180.1	2167.1
27.5°	2457.5	2482.1	2444.5	2455.4	2452.0	2473.9	2463.0	2547.9	2500.0	2478.7
30°	2830.1	2873.9	2802.7	2800.0	2796.5	2831.5	2847.2	2903.4	2854.7	2833.5
32.5°	3232.8	3278.7	3193.8	3169.1	3156.1	3177.3	3164.3	3209.5	3176.0	3143.1
35°	3658.8	3704.0	3623.2	3575.3	3523.2	3478.7	3432.1	3443.8	3412.3	3362.3
37.5°	4061.6	4144.4	4058.8	4007.5	3911.6	3824.6	3694.5	3640.3	3610.9	3565.0
40°	4471.8	4519.1	4454.0	4410.2	4306.1	4169.8	3961.6	3847.2	3807.5	3762.9
42.5°	4773.9	4819.1	4784.2	4754.0	4672.5	4514.3	4245.1	4102.0	4044.4	3994.4
45°	5013.6	5047.2	5025.3	5036.2	5001.3	4847.9	4539.0	4375.3	4315.7	4254.7
47.5°	5110.2	5145.8	5180.7	5245.8	5305.4	5192.4	4854.7	4671.1	4608.1	4545.8
50°	5099.2	5135.5	5236.9	5375.2	5560.2	5522.5	5187.6	4986.2	4928.0	4856.8
52.5°	5011.6	5052.6	5182.8	5412.9	5707.4	5769.8	5526.6	5311.5	5256.8	5171.8
55°	4781.4	4806.1	5001.3	5327.3	5742.4	5942.4	5858.8	5658.1	5603.3	5484.8
57.5°	4354.7	4390.3	4674.6	5096.5	5654.7	6059.5	6150.6	6022.5	5969.8	5799.2
60°	3797.9	3854.7	4180.1	4708.8	5431.4	6058.8	6415.6	6380.7	6336.9	6108.8
62.5°	3167.8	3233.5	3546.5	4160.9	5041.0	5886.9	6581.4	6680.7	6658.1	6394.4
65°	2432.8	2478.0	2789.7	3452.0	4433.5	5517.7	6600.6	6885.5	6889.6	6611.5
67.5°	1619.8	1750.0	2020.5	2590.4	3619.8	4914.3	6432.1	6919.1	6958.8	6686.2
70°	790.4	961.6	1226.7	1683.5	2590.4	3989.0	5991.7	6643.7	6732.1	6468.4
72.5°	328.1	383.6	528.1	830.8	1487.0	2691.7	5106.8	5897.2	6060.9	5731.4
75°	221.2	239.7	302.0	426.0	677.4	1327.4	3682.8	4397.2	4660.9	4328.7
77.5°	170.5	182.2	219.9	297.9	402.7	502.0	1971.2	2650.0	2786.3	2579.4
80°	134.2	143.1	164.4	217.1	285.6	268.5	671.9	1200.7	1279.4	1073.3
82.5°	116.4	119.9	117.8	147.3	189.7	156.8	220.5	443.1	489.0	354.8
85°	84.2	93.8	97.9	91.1	100.7	79.5	90.4	156.8	172.6	154.1
87.5°	34.2	50.7	62.3	58.9	37.0	22.6	28.1	45.9	52.7	57.5
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°
1445.9	0°	1445.9	1445.9	1445.9	1445.9	1445.9	1445.9	1445.9	1445.9	1445.9	1445.9
1446.5	2.5°	1447.2	1452.0	1455.5	1459.6	1462.3	1466.4	1474.6	1479.4	1480.1	1483.5
1457.5	5°	1460.2	1467.1	1474.6	1485.6	1497.9	1508.2	1523.9	1534.9	1539.0	1542.4
1484.2	7.5°	1488.3	1497.9	1511.6	1530.8	1548.6	1562.3	1581.5	1594.5	1607.5	1612.3
1526.7	10°	1530.1	1543.8	1563.7	1589.7	1608.9	1626.7	1646.5	1657.5	1670.5	1676.0
1577.4	12.5°	1582.2	1596.5	1622.6	1658.9	1676.7	1689.0	1695.9	1693.1	1695.9	1700.7
1638.3	15°	1641.8	1657.5	1687.0	1726.0	1738.3	1727.4	1712.3	1698.6	1696.5	1697.9
1712.3	17.5°	1712.3	1723.9	1758.2	1791.1	1782.2	1737.0	1704.1	1682.2	1671.2	1667.8
1806.8	20°	1810.9	1810.9	1839.0	1859.6	1800.0	1723.3	1671.9	1636.3	1613.7	1604.1
1935.6	22.5°	1930.8	1919.8	1937.6	1923.3	1796.5	1684.9	1613.7	1552.0	1517.8	1504.1
2115.7	25°	2082.8	2069.8	2065.0	1976.0	1771.9	1623.9	1508.2	1433.5	1403.4	1395.9
2375.3	27.5°	2312.3	2279.4	2217.1	2004.8	1726.7	1528.1	1384.9	1315.7	1298.6	1299.3
2708.9	30°	2617.8	2552.0	2399.3	2009.6	1652.7	1392.4	1258.9	1209.6	1201.3	1204.8
2989.0	32.5°	2900.6	2838.3	2585.6	1987.6	1539.0	1259.6	1145.9	1113.0	1100.7	1104.8
3202.7	35°	3122.5	3105.4	2758.2	1956.8	1399.3	1134.9	1044.5	1016.4	992.4	987.0
3404.0	37.5°	3332.1	3325.3	2887.6	1913.7	1260.9	1046.6	963.0	926.0	891.1	871.9
3626.6	40°	3562.3	3555.4	2972.5	1847.2	1138.3	969.8	889.7	841.1	797.9	763.0
3878.7	42.5°	3821.2	3780.8	3013.0	1752.0	1034.2	904.8	830.1	764.4	707.5	675.3
4163.6	45°	4104.0	4012.9	3012.3	1630.8	946.6	845.2	766.4	673.3	620.5	590.4
4456.1	47.5°	4404.0	4234.9	2975.3	1496.5	861.6	779.4	667.8	596.6	561.6	543.1
4773.9	50°	4713.6	4442.4	2912.3	1342.4	774.6	704.8	606.2	557.5	530.8	513.7
5089.0	52.5°	5004.7	4630.7	2836.3	1167.8	686.3	632.2	578.8	541.1	513.0	493.8
5394.4	55°	5275.2	4793.1	2728.7	989.0	614.4	583.6	565.7	534.2	502.0	479.4
5704.7	57.5°	5515.7	4898.5	2543.1	821.2	563.0	550.0	552.0	522.6	485.6	466.4
6010.2	60°	5715.7	4975.9	2268.5	665.7	521.2	517.1	530.8	500.7	457.5	435.6
6268.4	62.5°	5835.5	4974.6	1931.5	545.2	485.6	487.0	502.7	473.3	429.4	408.9
6403.3	65°	5825.2	4852.7	1561.6	466.4	451.4	452.7	473.3	443.1	406.2	393.8
6335.5	67.5°	5619.1	4555.4	1197.9	415.1	413.7	419.9	443.8	422.6	391.8	390.4
5931.4	70°	5060.9	3938.3	863.0	374.0	374.7	383.6	415.1	409.6	384.2	387.0
4986.9	72.5°	4058.1	3002.7	579.4	330.8	331.5	345.9	387.7	399.3	376.7	413.0
3538.3	75°	2702.7	1872.6	372.6	284.9	285.6	304.1	363.7	379.4	356.2	411.6
1841.1	77.5°	1298.6	841.8	269.9	239.7	239.7	256.8	314.4	339.7	303.4	319.9
591.8	80°	448.6	316.4	212.3	193.1	189.0	200.7	265.1	294.5	261.6	241.1
193.1	82.5°	176.7	164.4	170.5	150.0	136.3	143.8	206.2	243.1	192.5	174.0
108.9	85°	101.4	106.8	120.5	99.3	78.8	88.4	151.4	174.7	145.2	128.1
35.6	87.5°	27.4	37.7	55.5	51.4	35.6	37.7	71.9	96.6	83.6	64.4
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>
1445.9
1482.9
1541.8
1613.0
1678.7
1702.0
1702.7
1672.6
1602.0
1502.0
1397.2
1301.3
1216.4
1110.3
991.1
872.6
766.4
677.4
589.0
539.0
507.5
485.6
470.5
454.1
426.0
402.7
393.1
392.5
386.3
418.5
415.1
293.1
226.0
173.3
130.8
66.4
0.0

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