

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: P940179

Luminaire Tested: **GALN-SB3A-840-U-T4FT**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P940179  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB3A-840-U-T4FT  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 80 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

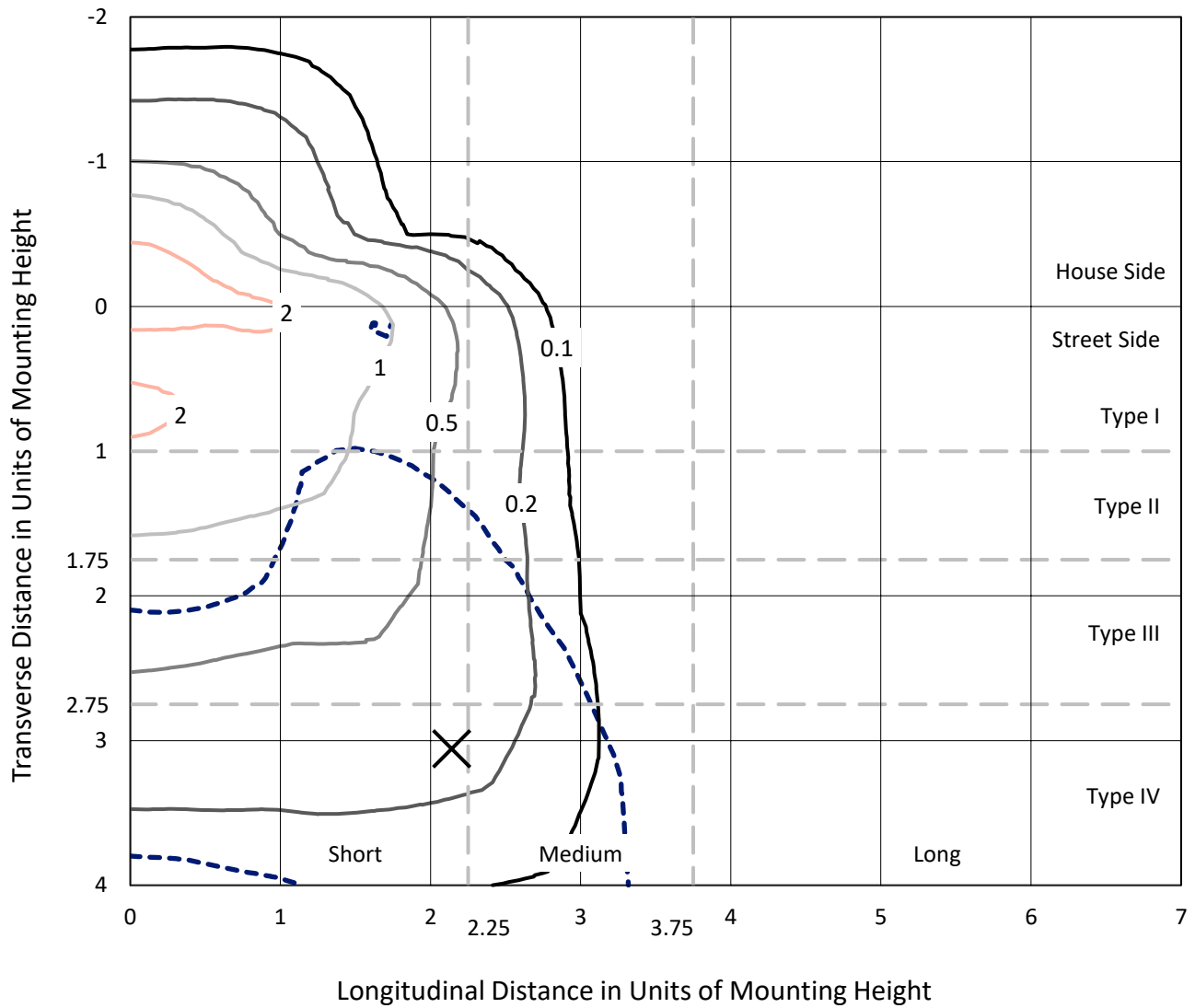
Lumens per Lamp: N/A  
Luminaire Lumens: 12724 lumens  
Efficiency: N/A  
Efficacy: 150.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 84.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

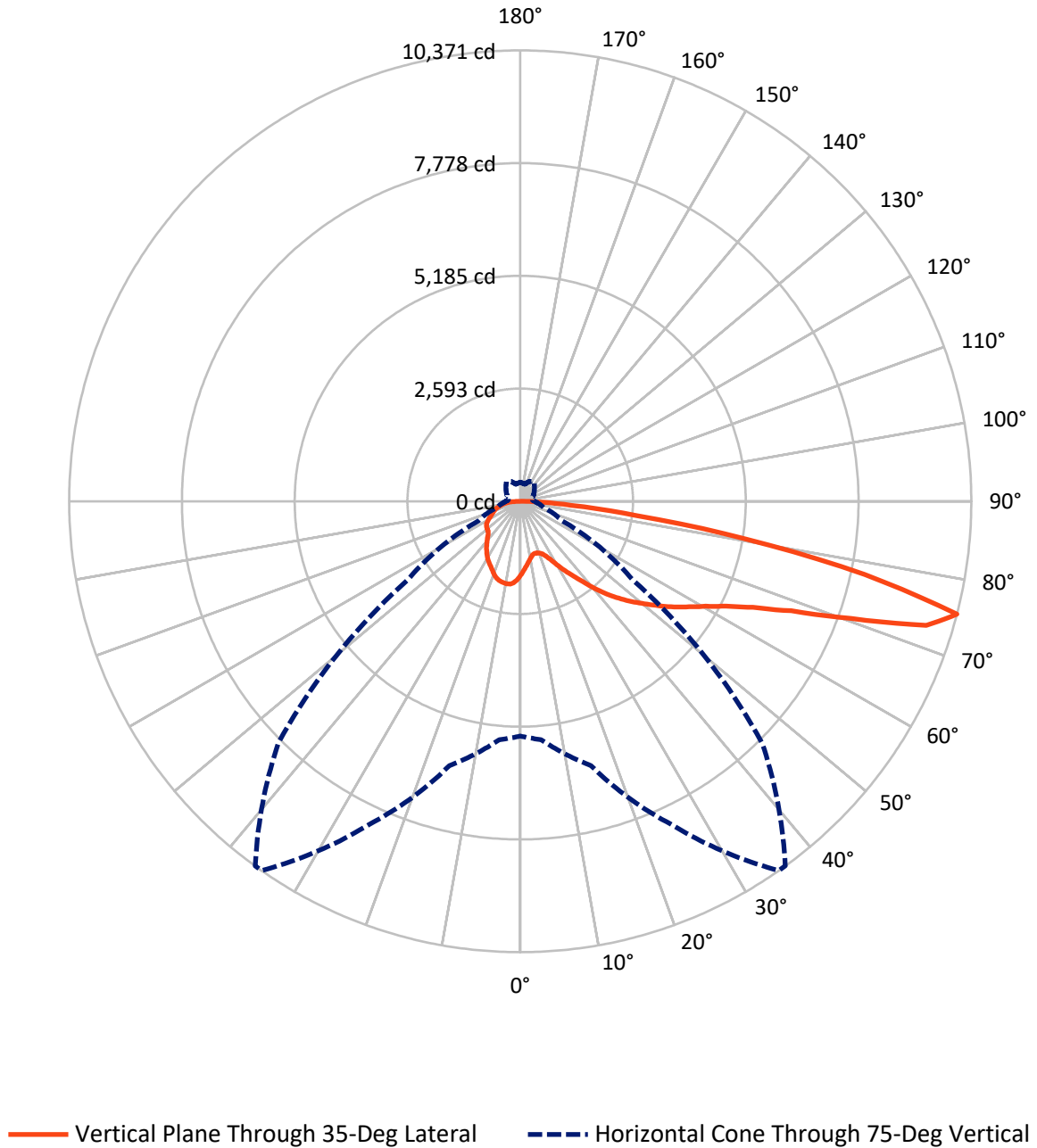
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc  
 Type IV - 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	3028.0	0.0	3028.0
	% Fixture	23.8	0.0	23.8
<b>Street Side</b>	Lumens	9696.0	0.0	9696.0
	% Fixture	76.2	0.0	76.2
<b>Total</b>	Lumens	12724.0	0.0	12724.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	160.5	1.3
10°-20°	463.1	3.6
20°-30°	777.6	6.1
30°-40°	1208.5	9.5
40°-50°	1793.7	14.1
50°-60°	2476.3	19.5
60°-70°	3004.3	23.6
70°-80°	2482.9	19.5
80°-90°	357.1	2.8
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°	12724.0	100.0
0°-180°	12724.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P940179

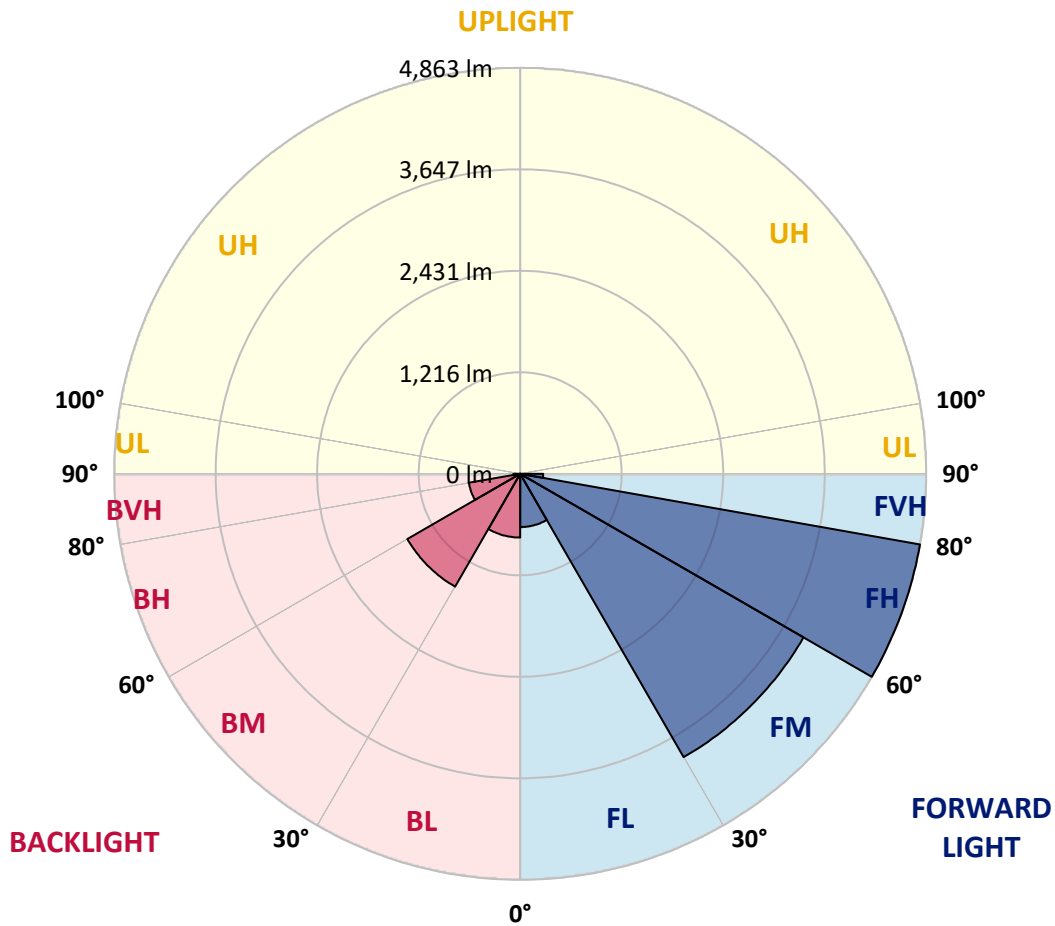
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	638.1	5.0			
FM (30°-60°)	3918.3	30.8			
FH (60°-80°)	4862.9	38.2			G2/5000
FVH (80°-90°)	276.7	2.2			G3/500
BL (0°-30°)	763.1	6.0	B2/1000		
BM (30°-60°)	1560.2	12.3	B2/2500		
BH (60°-80°)	624.3	4.9	B2/1000		G2/1000
BVH (80°-90°)	80.4	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-G3**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	1695.6	1695.6	1695.6	1695.6	1695.6	1695.6	1695.6	1695.6	1695.6	1695.6
2.5°	1563.5	1573.1	1577.2	1575.2	1585.5	1584.1	1598.6	1616.5	1641.2	1665.3
5°	1443.1	1453.4	1462.4	1470.6	1490.6	1496.8	1519.5	1553.9	1599.3	1645.3
7.5°	1331.0	1339.9	1353.7	1368.8	1402.5	1408.7	1446.6	1500.2	1563.5	1630.9
10°	1239.5	1248.5	1262.9	1280.1	1322.1	1329.6	1377.8	1449.3	1531.8	1617.1
12.5°	1200.3	1203.1	1211.3	1228.5	1265.0	1269.8	1322.7	1404.6	1500.9	1606.8
15°	1198.2	1203.7	1204.4	1213.4	1243.6	1245.7	1294.5	1375.7	1481.6	1604.8
17.5°	1218.9	1223.0	1216.8	1222.3	1247.8	1251.2	1289.7	1362.0	1475.4	1613.7
20°	1273.9	1277.3	1258.8	1251.2	1269.8	1272.5	1310.4	1370.9	1481.6	1632.3
22.5°	1390.8	1392.9	1347.5	1316.6	1317.9	1319.3	1352.3	1407.3	1505.7	1666.0
25°	1573.1	1571.7	1499.5	1439.7	1405.3	1397.7	1419.7	1466.5	1546.3	1710.7
27.5°	1786.4	1776.0	1703.8	1614.4	1539.4	1528.4	1523.6	1543.5	1604.1	1769.8
30°	2027.1	2017.5	1939.7	1822.8	1718.9	1701.1	1655.7	1645.3	1690.1	1850.3
32.5°	2291.2	2285.0	2192.2	2050.5	1911.5	1890.9	1814.6	1787.0	1822.1	1972.1
35°	2512.7	2507.2	2430.2	2284.4	2114.5	2089.0	2011.3	1980.3	1998.2	2128.2
37.5°	2712.9	2710.1	2644.1	2529.2	2353.8	2322.9	2235.5	2225.2	2221.8	2333.9
40°	2898.6	2891.7	2823.0	2762.4	2632.4	2604.2	2527.2	2518.2	2492.1	2587.0
42.5°	3104.3	3086.4	2986.7	2958.5	2923.4	2900.0	2853.9	2855.3	2797.5	2872.5
45°	3272.1	3261.8	3159.3	3142.8	3180.6	3171.0	3210.9	3221.2	3109.1	3171.7
47.5°	3452.3	3442.7	3356.0	3344.3	3446.8	3449.6	3590.6	3594.0	3413.1	3482.6
50°	3674.5	3660.8	3574.8	3589.2	3704.1	3714.4	3972.4	3949.0	3693.1	3798.3
52.5°	3821.0	3829.3	3810.7	3834.1	3990.9	4000.6	4347.9	4288.1	3970.3	4109.9
55°	3929.0	3945.5	4003.3	4057.0	4293.6	4303.2	4702.2	4610.7	4200.0	4398.8
57.5°	4068.0	4044.6	4152.6	4257.1	4581.1	4606.6	5046.8	4921.6	4403.6	4647.8
60°	4267.4	4250.9	4334.9	4489.6	4903.0	4943.6	5411.3	5201.5	4552.9	4845.2
62.5°	4671.9	4630.6	4643.7	4780.6	5308.9	5362.5	5822.7	5445.7	4627.2	4922.3
65°	5276.5	5205.7	5139.6	5234.6	5880.5	5933.4	6287.0	5637.6	4599.7	4773.0
67.5°	6038.0	5967.8	5886.7	5976.1	6722.4	6764.4	6860.0	5745.6	4383.0	4198.0
70°	6666.0	6639.9	6736.8	7104.8	8067.1	8068.5	7594.6	5656.2	3789.4	2976.3
72.5°	6582.8	6566.9	7078.0	8215.7	9762.0	9725.6	8290.0	4979.4	2552.6	1342.7
75°	5400.3	5502.8	6294.5	8195.8	10370.8	10366.0	7864.2	3165.5	1055.9	556.5
77.5°	2895.9	3058.2	4086.5	6051.0	8096.0	8217.8	5529.0	1107.4	453.3	356.3
80°	944.4	1086.1	1628.8	3080.9	5260.7	5238.0	2369.7	434.7	310.2	252.4
82.5°	401.0	417.5	727.7	1454.8	2699.8	2657.9	754.6	249.7	218.0	172.7
85°	156.8	175.4	321.2	672.7	1169.4	1143.9	272.4	123.8	139.6	112.8
87.5°	51.6	62.6	114.9	230.4	363.9	350.8	66.7	42.6	60.5	51.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P940179  
 CATALOG NUMBER: GALN-SB3A-840-U-T4FT

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1695.6	0°	1695.6	1695.6	1695.6	1695.6	1695.6	1695.6	1695.6	1695.6	1695.6	1695.6
1700.4	2.5°	1710.0	1721.0	1734.1	1753.3	1769.8	1783.6	1798.0	1807.0	1810.4	1820.7
1703.1	5°	1722.4	1746.5	1778.8	1810.4	1841.4	1860.0	1876.5	1884.7	1892.3	1897.8
1710.7	7.5°	1743.0	1774.0	1824.9	1866.1	1892.3	1907.4	1918.4	1915.7	1918.4	1919.8
1718.9	10°	1760.9	1804.2	1864.8	1904.0	1923.9	1924.6	1921.9	1912.2	1907.4	1908.1
1731.3	12.5°	1782.2	1830.4	1895.7	1928.7	1934.2	1919.1	1907.4	1890.9	1884.7	1882.0
1749.9	15°	1811.1	1866.1	1929.4	1941.8	1928.1	1908.8	1888.8	1862.0	1848.3	1837.3
1781.5	17.5°	1846.2	1906.7	1955.6	1946.6	1917.0	1885.4	1853.1	1812.5	1784.3	1772.6
1824.9	20°	1895.0	1949.4	1975.5	1936.3	1891.6	1843.4	1788.4	1738.9	1712.8	1701.1
1879.9	22.5°	1954.2	2006.5	1994.8	1918.4	1855.1	1778.1	1709.3	1672.9	1659.8	1651.5
1950.8	25°	2025.0	2069.8	2008.5	1892.3	1795.3	1691.4	1638.5	1626.8	1620.6	1614.4
2037.4	27.5°	2117.2	2141.3	2018.9	1853.8	1701.7	1599.3	1580.0	1582.1	1580.0	1569.7
2157.8	30°	2239.0	2234.1	2028.5	1791.2	1594.4	1516.0	1517.4	1526.3	1527.7	1520.8
2325.6	32.5°	2399.2	2350.4	2033.3	1710.0	1492.0	1443.1	1444.5	1454.1	1461.0	1449.3
2545.1	35°	2593.2	2485.9	2025.7	1608.2	1412.9	1373.6	1363.3	1366.1	1368.1	1357.1
2811.3	37.5°	2819.5	2637.9	1992.0	1495.4	1347.5	1305.5	1283.5	1265.0	1254.0	1243.6
3112.5	40°	3067.8	2803.7	1930.1	1385.3	1274.6	1233.3	1200.3	1165.2	1128.1	1114.3
3431.7	42.5°	3327.8	2974.3	1855.1	1280.1	1190.7	1157.0	1121.9	1071.0	1015.3	987.1
3763.2	45°	3597.5	3149.0	1781.5	1176.2	1104.7	1090.2	1049.7	988.4	927.9	892.1
4095.5	47.5°	3861.6	3314.1	1673.5	1071.7	1024.2	1040.0	1008.4	952.0	884.6	828.2
4425.0	50°	4114.1	3468.8	1496.8	965.7	958.9	1024.9	994.6	913.5	836.4	764.2
4748.3	52.5°	4364.4	3594.0	1270.5	869.4	923.8	1020.8	976.8	887.3	793.1	717.4
5052.3	55°	4577.0	3658.7	1052.4	786.9	872.9	985.7	955.4	856.4	731.9	651.4
5260.7	57.5°	4698.0	3606.4	870.8	705.7	802.7	927.9	919.0	790.3	659.0	597.1
5301.3	60°	4645.8	3394.6	722.2	634.9	736.0	865.3	855.7	725.0	603.2	544.8
5083.9	62.5°	4357.6	2990.8	604.6	573.0	675.5	801.3	792.4	674.8	560.6	504.2
4506.8	65°	3777.0	2432.9	513.1	521.4	614.3	724.3	737.4	632.8	526.9	471.9
3486.7	67.5°	2880.7	1762.3	441.6	476.7	554.4	648.6	686.5	602.6	498.7	446.4
2017.5	70°	1641.9	1000.8	381.1	433.3	501.4	578.5	647.3	578.5	468.4	425.1
756.0	72.5°	622.5	459.5	329.5	390.0	450.5	519.3	603.9	540.7	433.3	401.0
390.7	75°	332.2	280.0	277.2	339.1	392.1	461.5	549.6	503.5	407.2	423.7
270.3	77.5°	226.3	198.1	231.8	290.3	328.1	397.6	491.8	447.1	352.9	351.5
187.1	80°	156.8	140.3	188.5	233.9	253.8	334.3	429.2	383.8	287.5	268.3
115.6	82.5°	94.2	91.5	141.0	174.7	179.5	257.9	355.6	321.9	235.2	205.0
68.8	85°	51.6	54.3	90.1	102.5	104.6	180.2	278.6	249.0	180.9	152.0
24.8	87.5°	14.4	18.6	33.0	40.6	50.2	93.5	165.8	147.9	90.8	63.3
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>
1695.6
1820.1
1899.2
1921.9
1909.5
1880.6
1840.7
1773.3
1699.7
1652.9
1614.4
1571.7
1524.3
1454.8
1364.7
1250.5
1120.5
990.5
889.4
822.0
758.0
709.2
644.5
588.8
536.5
495.3
462.9
438.2
419.6
395.5
437.5
324.0
256.6
206.4
153.4
63.3
0.0

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