

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: P940329

Luminaire Tested: **GALN-SB3B-830-U-T4FT**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P940329  
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-SB3B-830-U-T4FT  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

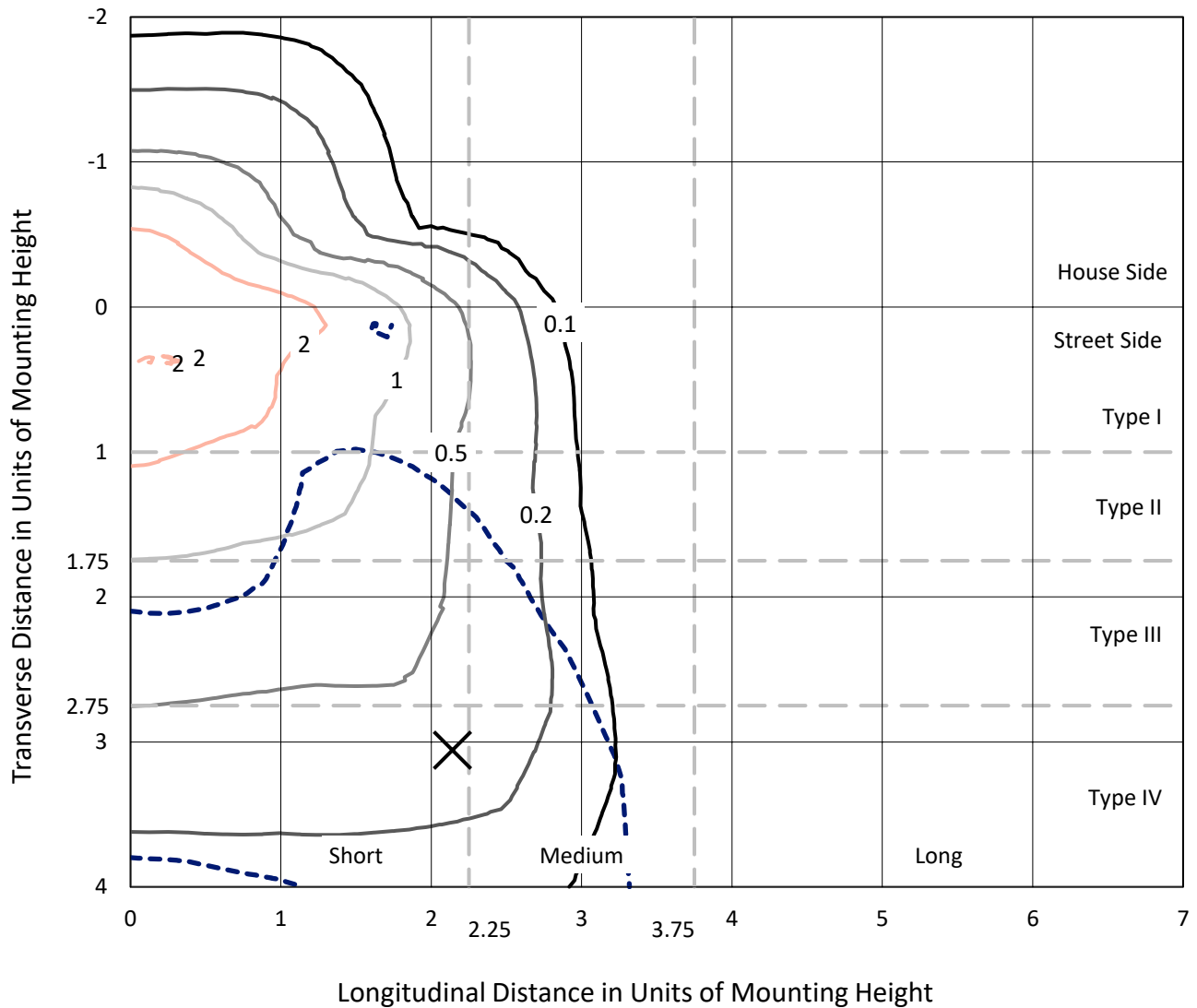
Lumens per Lamp: N/A  
Luminaire Lumens: 15005 lumens  
Efficiency: N/A  
Efficacy: 137.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 109.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

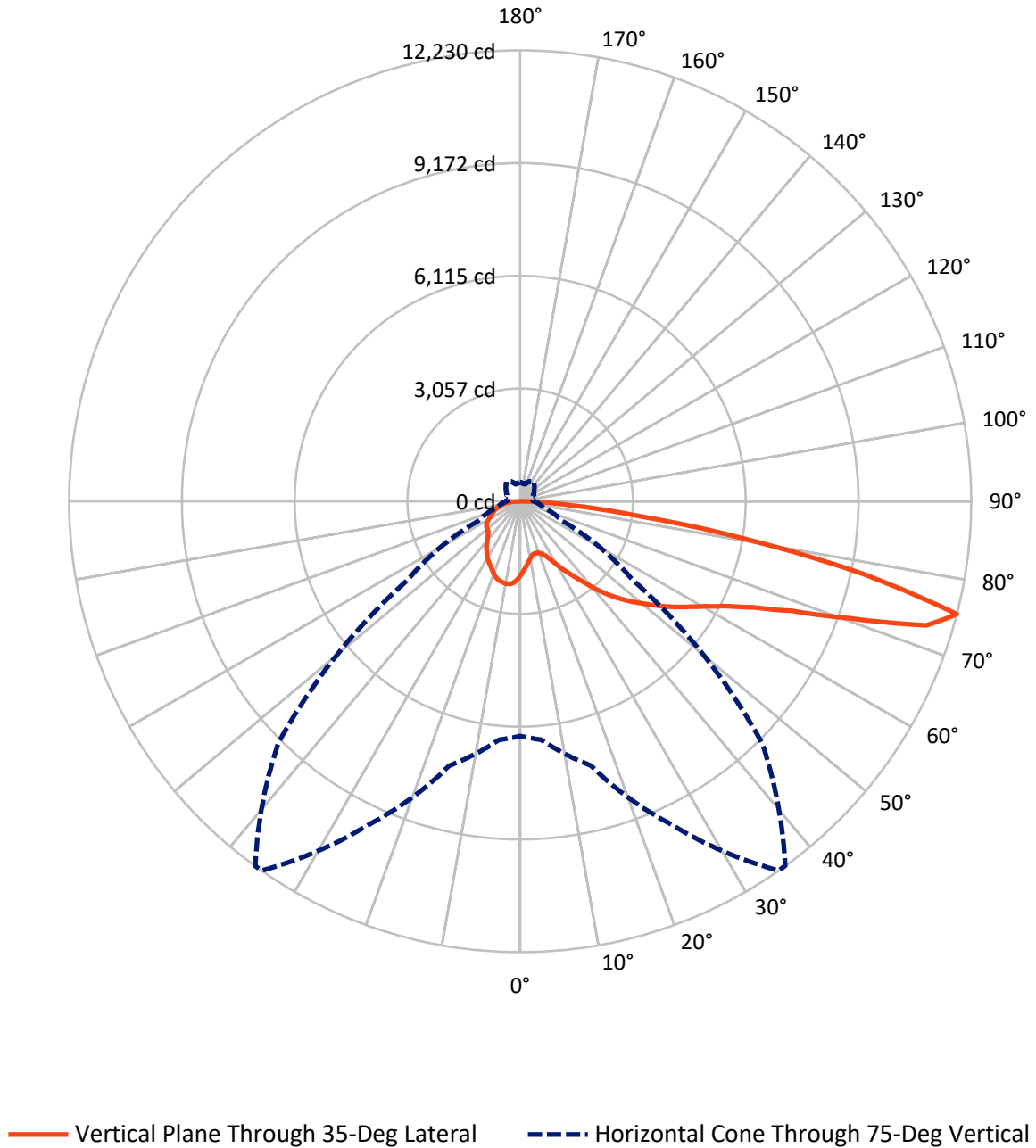
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc  
 Type 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	3570.8	0.0	3570.8
	% Fixture	23.8	0.0	23.8
<b>Street Side</b>	Lumens	11434.2	0.0	11434.2
	% Fixture	76.2	0.0	76.2
<b>Total</b>	Lumens	15005.0	0.0	15005.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	189.3	1.3
10°-20°	546.1	3.6
20°-30°	917.0	6.1
30°-40°	1425.1	9.5
40°-50°	2115.3	14.1
50°-60°	2920.2	19.5
60°-70°	3542.9	23.6
70°-80°	2928.0	19.5
80°-90°	421.1	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°	15005.0	100.0
0°-180°	15005.0	100.0

**Coefficient of Utilization**



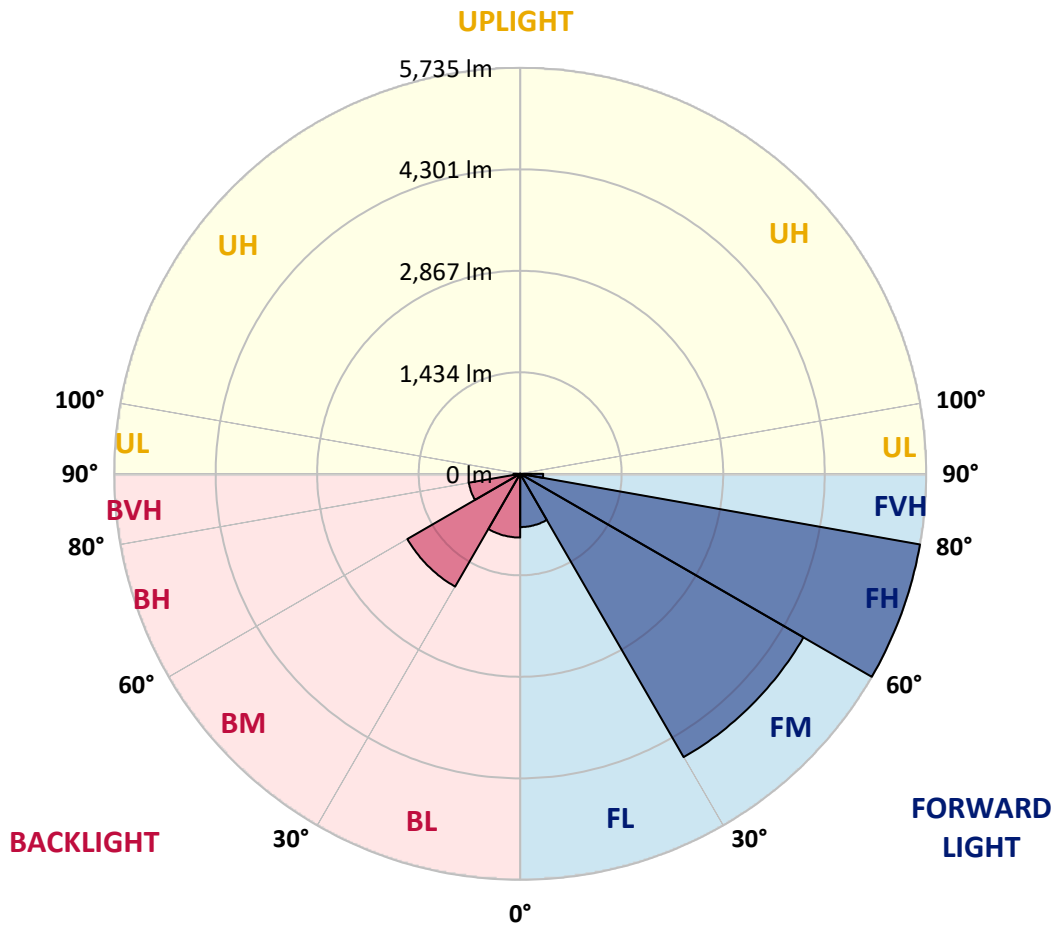
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	752.5	5.0			
FM (30°-60°)	4620.7	30.8			
FH (60°-80°)	5734.7	38.2			G3/7500
FVH (80°-90°)	326.3	2.2			G3/500
BL (0°-30°)	899.9	6.0	B2/1000		
BM (30°-60°)	1839.9	12.3	B2/2500		
BH (60°-80°)	736.2	4.9	B2/1000		G2/1000
BVH (80°-90°)	94.8	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°	1999.5	1999.5	1999.5	1999.5	1999.5	1999.5	1999.5	1999.5	1999.5	1999.5
2.5°	1843.8	1855.1	1860.0	1857.6	1869.7	1868.1	1885.1	1906.2	1935.4	1963.8
5°	1701.8	1714.0	1724.5	1734.3	1757.8	1765.1	1791.9	1832.4	1886.0	1940.3
7.5°	1569.6	1580.1	1596.4	1614.2	1654.0	1661.3	1705.9	1769.1	1843.8	1923.3
10°	1461.7	1472.3	1489.3	1509.6	1559.1	1568.0	1624.8	1709.1	1806.5	1907.0
12.5°	1415.5	1418.7	1428.5	1448.7	1491.7	1497.4	1559.9	1656.4	1770.0	1894.9
15°	1413.0	1419.5	1420.3	1430.9	1466.6	1469.0	1526.6	1622.3	1747.2	1892.4
17.5°	1437.4	1442.2	1434.9	1441.4	1471.5	1475.5	1520.9	1606.1	1739.9	1903.0
20°	1502.3	1506.3	1484.4	1475.5	1497.4	1500.7	1545.3	1616.6	1747.2	1924.9
22.5°	1640.2	1642.6	1589.1	1552.6	1554.2	1555.8	1594.7	1659.6	1775.6	1964.6
25°	1855.1	1853.5	1768.3	1697.8	1657.2	1648.3	1674.2	1729.4	1823.5	2017.4
27.5°	2106.6	2094.4	2009.3	1903.8	1815.4	1802.4	1796.7	1820.3	1891.6	2087.1
30°	2390.5	2379.1	2287.5	2149.6	2027.1	2006.0	1952.5	1940.3	1993.0	2182.0
32.5°	2702.0	2694.7	2585.2	2418.1	2254.2	2229.9	2139.8	2107.4	2148.8	2325.6
35°	2963.2	2956.7	2865.8	2693.9	2493.5	2463.5	2371.8	2335.3	2356.4	2509.7
37.5°	3199.2	3196.0	3118.1	2982.6	2775.8	2739.3	2636.3	2624.1	2620.1	2752.3
40°	3418.2	3410.1	3329.0	3257.6	3104.3	3071.1	2980.2	2969.7	2938.8	3050.8
42.5°	3660.8	3639.7	3522.1	3488.8	3447.4	3419.9	3365.5	3367.1	3299.0	3387.4
45°	3858.7	3846.5	3725.7	3706.2	3750.8	3739.5	3786.5	3798.7	3666.5	3740.3
47.5°	4071.2	4059.9	3957.7	3943.9	4064.7	4068.0	4234.3	4238.3	4025.0	4106.9
50°	4333.2	4317.0	4215.6	4232.7	4368.1	4380.3	4684.5	4656.9	4355.1	4479.2
52.5°	4506.0	4515.7	4493.8	4521.4	4706.4	4717.7	5127.4	5056.8	4682.0	4846.7
55°	4633.4	4652.8	4721.0	4784.2	5063.3	5074.6	5545.1	5437.2	4953.0	5187.4
57.5°	4797.2	4769.6	4897.0	5020.3	5402.3	5432.4	5951.5	5803.9	5193.1	5481.0
60°	5032.5	5013.0	5112.0	5294.5	5782.0	5829.8	6381.4	6134.0	5369.1	5713.8
62.5°	5509.4	5460.8	5476.2	5637.6	6260.6	6323.8	6866.5	6422.0	5456.7	5804.7
65°	6222.4	6138.9	6061.0	6173.0	6934.6	6997.1	7414.0	6648.3	5424.2	5628.7
67.5°	7120.4	7037.7	6941.9	7047.4	7927.5	7977.0	8089.7	6775.6	5168.7	4950.5
70°	7861.0	7830.2	7944.5	8378.5	9513.3	9514.9	8956.1	6670.2	4468.7	3509.9
72.5°	7762.8	7744.2	8346.9	9688.5	11512.0	11469.0	9776.1	5872.0	3010.2	1583.4
75°	6368.4	6489.3	7423.0	9665.0	12229.9	12224.2	9274.0	3733.0	1245.1	656.2
77.5°	3415.0	3606.4	4819.1	7135.8	9547.4	9691.0	6520.1	1306.0	534.6	420.2
80°	1113.7	1280.8	1920.8	3633.2	6203.8	6177.0	2794.5	512.7	365.8	297.7
82.5°	472.9	492.4	858.2	1715.6	3183.8	3134.3	889.8	294.5	257.1	203.6
85°	184.9	206.8	378.8	793.3	1379.0	1349.0	321.2	146.0	164.7	133.0
87.5°	60.8	73.8	135.5	271.7	429.1	413.7	78.7	50.3	71.4	60.8
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°
1999.5	0°	1999.5	1999.5	1999.5	1999.5	1999.5	1999.5	1999.5	1999.5	1999.5	1999.5
2005.2	2.5°	2016.6	2029.5	2044.9	2067.7	2087.1	2103.3	2120.4	2130.9	2135.0	2147.1
2008.4	5°	2031.2	2059.5	2097.7	2135.0	2171.5	2193.4	2212.9	2222.6	2231.5	2238.0
2017.4	7.5°	2055.5	2092.0	2152.0	2200.7	2231.5	2249.4	2262.3	2259.1	2262.3	2264.0
2027.1	10°	2076.6	2127.7	2199.1	2245.3	2268.8	2269.6	2266.4	2255.0	2249.4	2250.2
2041.7	12.5°	2101.7	2158.5	2235.6	2274.5	2281.0	2263.1	2249.4	2229.9	2222.6	2219.3
2063.6	15°	2135.8	2200.7	2275.3	2289.9	2273.7	2251.0	2227.5	2195.8	2179.6	2166.6
2100.9	17.5°	2177.2	2248.5	2306.1	2295.6	2260.7	2223.4	2185.3	2137.4	2104.2	2090.4
2152.0	20°	2234.8	2298.8	2329.7	2283.4	2230.7	2173.9	2109.0	2050.6	2019.8	2006.0
2216.9	22.5°	2304.5	2366.2	2352.4	2262.3	2187.7	2096.9	2015.7	1972.7	1957.3	1947.6
2300.5	25°	2388.1	2440.8	2368.6	2231.5	2117.1	1994.7	1932.2	1918.4	1911.1	1903.8
2402.7	27.5°	2496.8	2525.2	2380.8	2186.1	2006.8	1886.0	1863.2	1865.7	1863.2	1851.1
2544.6	30°	2640.3	2634.7	2392.1	2112.3	1880.3	1787.8	1789.4	1800.0	1801.6	1793.5
2742.5	32.5°	2829.3	2771.7	2397.8	2016.6	1759.4	1701.8	1703.4	1714.8	1722.9	1709.1
3001.3	35°	3058.1	2931.5	2388.9	1896.5	1666.1	1619.9	1607.7	1611.0	1613.4	1600.4
3315.2	37.5°	3325.0	3110.8	2349.1	1763.5	1589.1	1539.6	1513.6	1491.7	1478.8	1466.6
3670.5	40°	3617.8	3306.3	2276.1	1633.7	1503.1	1454.4	1415.5	1374.1	1330.3	1314.1
4046.9	42.5°	3924.4	3507.5	2187.7	1509.6	1404.1	1364.4	1323.0	1263.0	1197.3	1164.0
4437.9	45°	4242.4	3713.5	2100.9	1387.1	1302.7	1285.7	1237.8	1165.6	1094.3	1052.1
4829.7	47.5°	4553.9	3908.2	1973.6	1263.8	1207.8	1226.5	1189.2	1122.7	1043.2	976.6
5218.2	50°	4851.6	4090.7	1765.1	1138.9	1130.8	1208.6	1172.9	1077.2	986.4	901.2
5599.5	52.5°	5146.8	4238.3	1498.2	1025.3	1089.4	1203.8	1151.9	1046.4	935.3	846.0
5958.0	55°	5397.5	4314.6	1241.1	928.0	1029.4	1162.4	1126.7	1009.9	863.1	768.2
6203.8	57.5°	5540.2	4252.9	1026.9	832.3	946.6	1094.3	1083.7	932.0	777.1	704.1
6251.6	60°	5478.6	4003.1	851.7	748.7	867.9	1020.4	1009.1	855.0	711.4	642.4
5995.3	62.5°	5138.7	3526.9	713.0	675.7	796.6	945.0	934.5	795.8	661.1	594.6
5314.7	65°	4454.1	2869.1	605.1	614.9	724.4	854.2	869.6	746.3	621.4	556.5
4111.8	67.5°	3397.2	2078.2	520.8	562.1	653.8	764.9	809.5	710.6	588.1	526.4
2379.1	70°	1936.2	1180.2	449.4	511.0	591.3	682.2	763.3	682.2	552.4	501.3
891.5	72.5°	734.1	541.9	388.5	459.9	531.3	612.4	712.2	637.6	511.0	472.9
460.7	75°	391.8	330.1	326.9	399.9	462.4	544.3	648.1	593.8	480.2	499.7
318.8	77.5°	266.9	233.6	273.4	342.3	386.9	468.9	580.0	527.3	416.1	414.5
220.6	80°	184.9	165.5	222.3	275.8	299.3	394.2	506.2	452.6	339.1	316.4
136.3	82.5°	111.1	107.9	166.3	206.0	211.7	304.2	419.4	379.6	277.4	241.7
81.1	85°	60.8	64.1	106.3	120.9	123.3	212.5	328.5	293.6	213.3	179.3
29.2	87.5°	17.0	21.9	38.9	47.9	59.2	110.3	195.5	174.4	107.1	74.6
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>
1999.5
2146.3
2239.6
2266.4
2251.8
2217.7
2170.7
2091.2
2004.4
1949.2
1903.8
1853.5
1797.5
1715.6
1609.3
1474.7
1321.4
1168.1
1048.8
969.3
893.9
836.3
760.1
694.4
632.7
584.0
545.9
516.7
494.8
466.4
515.9
382.1
302.6
243.3
180.9
74.6
0.0

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