

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: P939769

Luminaire Tested: **GALN-SB2C-735-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939769
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-SB2C-735-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14803 lumens
Efficiency: N/A
Efficacy: 146.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

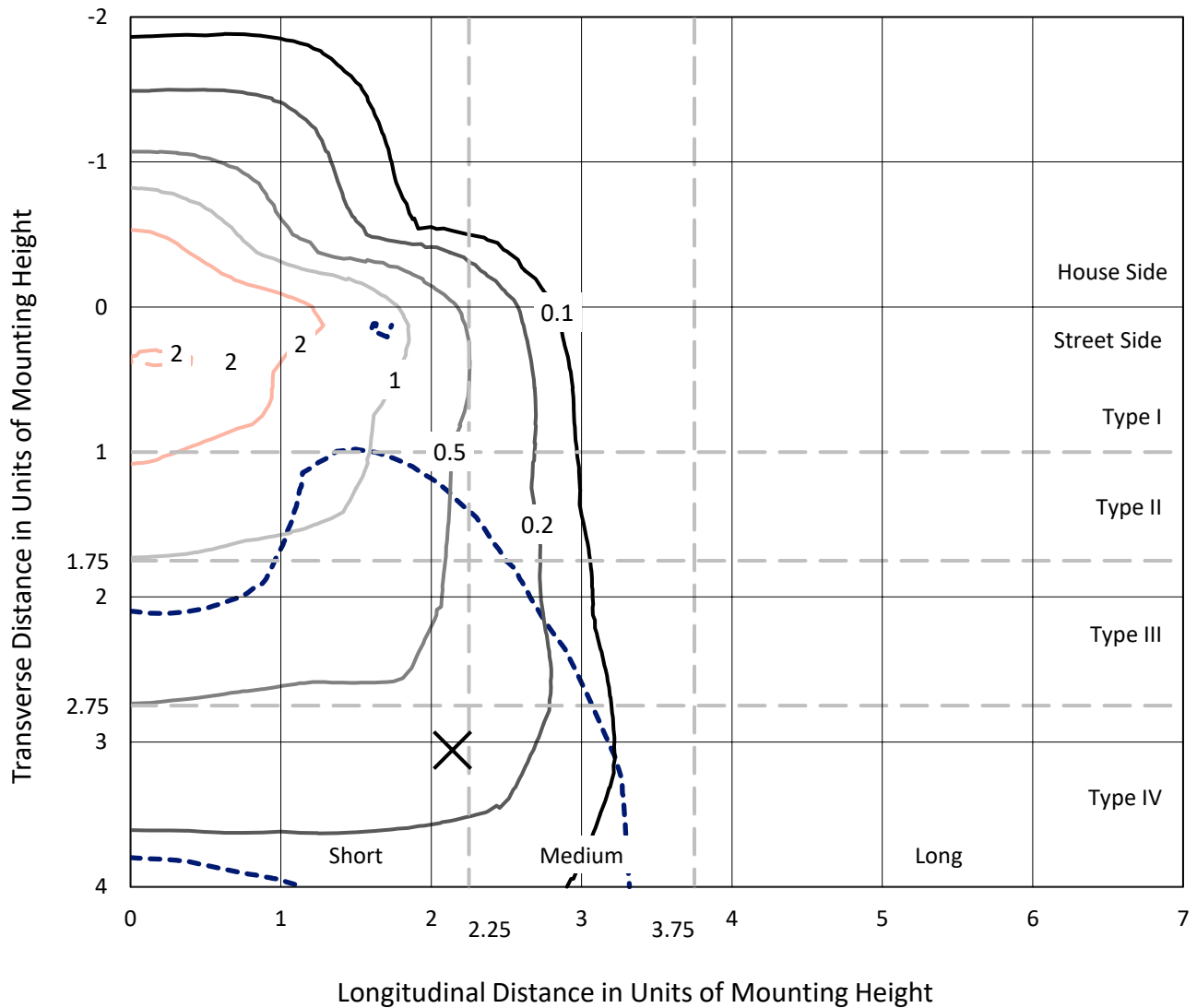
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

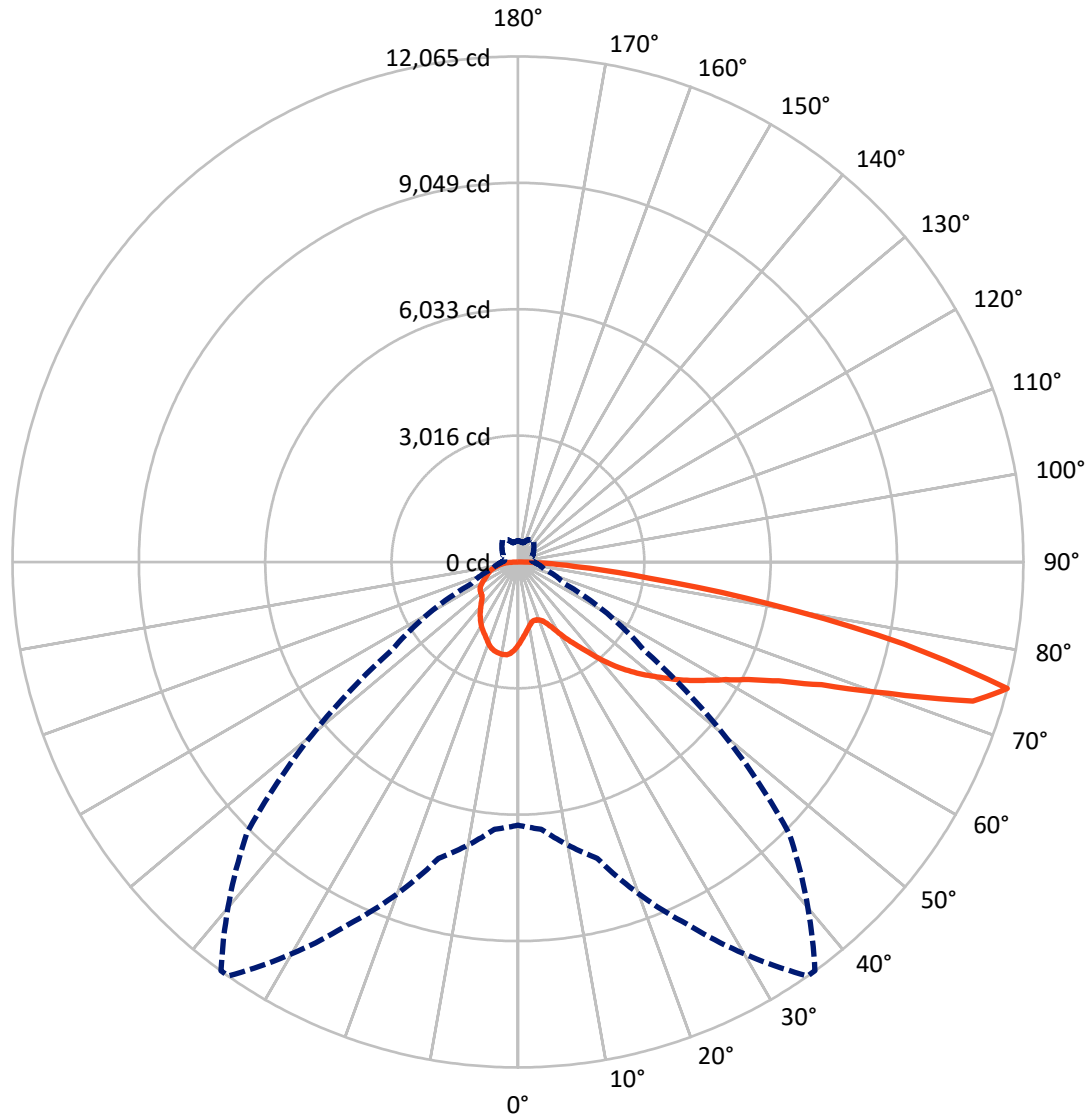
× Max cd
 - - - 1/2 Max cd



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



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3522.7	0.0	3522.7
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	11280.2	0.0	11280.2
	% Fixture	76.2	0.0	76.2
Total	Lumens	14803.0	0.0	14803.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.8	1.3
10°-20°	538.7	3.6
20°-30°	904.6	6.1
30°-40°	1405.9	9.5
40°-50°	2086.8	14.1
50°-60°	2880.9	19.5
60°-70°	3495.2	23.6
70°-80°	2888.5	19.5
80°-90°	415.5	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°	14803.0	100.0
0°-180°	14803.0	100.0



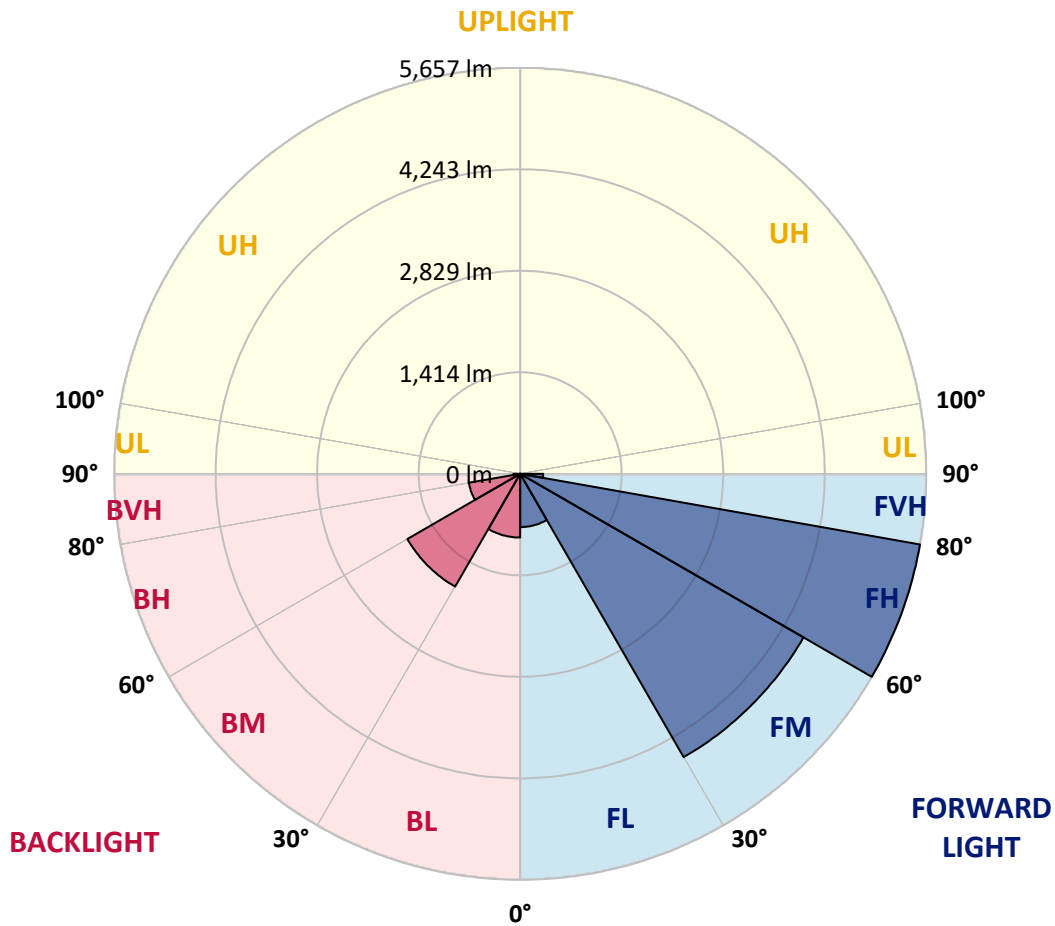
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	742.3	5.0			
FM (30°-60°)	4558.5	30.8			
FH (60°-80°)	5657.5	38.2			G3/7500
FVH (80°-90°)	321.9	2.2			G3/500
BL (0°-30°)	887.8	6.0	B2/1000		
BM (30°-60°)	1815.1	12.3	B2/2500		
BH (60°-80°)	726.3	4.9	B2/1000		G2/1000
BVH (80°-90°)	93.6	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°	1972.6	1972.6	1972.6	1972.6	1972.6	1972.6	1972.6	1972.6	1972.6	1972.6
2.5°	1819.0	1830.2	1835.0	1832.6	1844.6	1843.0	1859.8	1880.6	1909.4	1937.4
5°	1678.9	1690.9	1701.3	1710.9	1734.1	1741.3	1767.7	1807.7	1860.6	1914.2
7.5°	1548.5	1558.9	1574.9	1592.5	1631.7	1638.9	1682.9	1745.3	1819.0	1897.4
10°	1442.0	1452.4	1469.2	1489.3	1538.1	1546.9	1602.9	1686.1	1782.1	1881.4
12.5°	1396.4	1399.6	1409.2	1429.2	1471.6	1477.2	1538.9	1634.1	1746.1	1869.4
15°	1394.0	1400.4	1401.2	1411.6	1446.8	1449.2	1506.1	1600.5	1723.7	1867.0
17.5°	1418.0	1422.8	1415.6	1422.0	1451.6	1455.6	1500.5	1584.5	1716.5	1877.4
20°	1482.1	1486.1	1464.4	1455.6	1477.2	1480.5	1524.5	1594.9	1723.7	1899.0
22.5°	1618.1	1620.5	1567.7	1531.7	1533.3	1534.9	1573.3	1637.3	1751.7	1938.2
25°	1830.2	1828.6	1744.5	1674.9	1634.9	1626.1	1651.7	1706.1	1798.9	1990.2
27.5°	2078.2	2066.2	1982.2	1878.2	1790.9	1778.1	1772.5	1795.7	1866.2	2059.0
30°	2358.3	2347.1	2256.7	2120.6	1999.8	1979.0	1926.2	1914.2	1966.2	2152.7
32.5°	2665.6	2658.4	2550.4	2385.5	2223.9	2199.9	2111.0	2079.0	2119.8	2294.3
35°	2923.3	2916.9	2827.3	2657.6	2459.9	2430.3	2339.9	2303.9	2324.7	2476.0
37.5°	3156.2	3153.0	3076.1	2942.5	2738.4	2702.4	2600.8	2588.8	2584.8	2715.2
40°	3372.2	3364.2	3284.2	3213.8	3062.5	3029.7	2940.1	2929.7	2899.3	3009.7
42.5°	3611.5	3590.7	3474.7	3441.8	3401.0	3373.8	3320.2	3321.8	3254.6	3341.8
45°	3806.8	3794.8	3675.5	3656.3	3700.3	3689.1	3735.5	3747.5	3617.1	3689.9
47.5°	4016.4	4005.2	3904.4	3890.8	4010.0	4013.2	4177.3	4181.3	3970.8	4051.6
50°	4274.9	4258.9	4158.9	4175.7	4309.3	4321.3	4621.4	4594.2	4296.5	4418.9
52.5°	4445.4	4455.0	4433.3	4460.6	4643.0	4654.2	5058.3	4988.7	4619.0	4781.5
55°	4571.0	4590.2	4657.4	4719.8	4995.1	5006.3	5470.5	5364.0	4886.3	5117.6
57.5°	4732.6	4705.4	4831.1	4952.7	5329.6	5359.2	5871.4	5725.7	5123.2	5407.2
60°	4964.7	4945.5	5043.1	5223.2	5704.1	5751.3	6295.5	6051.4	5296.8	5636.9
62.5°	5435.3	5387.2	5402.4	5561.7	6176.3	6238.7	6774.1	6335.5	5383.2	5726.5
65°	6138.7	6056.2	5979.4	6089.9	6841.3	6902.9	7314.2	6558.8	5351.2	5552.9
67.5°	7024.5	6942.9	6848.5	6952.5	7820.8	7869.6	7980.8	6684.4	5099.2	4883.9
70°	7755.2	7724.7	7837.6	8265.7	9385.3	9386.9	8835.5	6580.4	4408.5	3462.7
72.5°	7658.3	7639.9	8234.5	9558.1	11357.1	11314.6	9644.5	5793.0	2969.7	1562.1
75°	6282.7	6401.9	7323.0	9534.9	12065.3	12059.7	9149.2	3682.7	1228.4	647.4
77.5°	3369.0	3557.9	4754.2	7039.7	9418.9	9560.5	6432.4	1288.4	527.4	414.5
80°	1098.7	1263.6	1895.0	3584.3	6120.3	6093.9	2756.8	505.8	360.9	293.7
82.5°	466.5	485.7	846.7	1692.5	3141.0	3092.1	877.9	290.5	253.7	200.9
85°	182.5	204.1	373.7	782.6	1360.4	1330.8	316.9	144.0	162.4	131.2
87.5°	60.0	72.8	133.6	268.1	423.3	408.1	77.6	49.6	70.4	60.0
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°
1972.6	0°	1972.6	1972.6	1972.6	1972.6	1972.6	1972.6	1972.6	1972.6	1972.6	1972.6
1978.2	2.5°	1989.4	2002.2	2017.4	2039.8	2059.0	2075.0	2091.8	2102.2	2106.2	2118.2
1981.4	5°	2003.8	2031.8	2069.4	2106.2	2142.3	2163.9	2183.1	2192.7	2201.5	2207.9
1990.2	7.5°	2027.8	2063.8	2123.0	2171.1	2201.5	2219.1	2231.9	2228.7	2231.9	2233.5
1999.8	10°	2048.6	2099.0	2169.5	2215.1	2238.3	2239.1	2235.9	2224.7	2219.1	2219.9
2014.2	12.5°	2073.4	2129.4	2205.5	2243.9	2250.3	2232.7	2219.1	2199.9	2192.7	2189.5
2035.8	15°	2107.0	2171.1	2244.7	2259.1	2243.1	2220.7	2197.5	2166.3	2150.3	2137.5
2072.6	17.5°	2147.9	2218.3	2275.1	2264.7	2230.3	2193.5	2155.9	2108.6	2075.8	2062.2
2123.0	20°	2204.7	2267.9	2298.3	2252.7	2200.7	2144.7	2080.6	2023.0	1992.6	1979.0
2187.1	22.5°	2273.5	2334.3	2320.7	2231.9	2158.3	2068.6	1988.6	1946.2	1931.0	1921.4
2269.5	25°	2355.9	2407.9	2336.7	2201.5	2088.6	1967.8	1906.2	1892.6	1885.4	1878.2
2370.3	27.5°	2463.1	2491.2	2348.7	2156.7	1979.8	1860.6	1838.2	1840.6	1838.2	1826.2
2510.4	30°	2604.8	2599.2	2359.9	2083.8	1855.0	1763.7	1765.3	1775.7	1777.3	1769.3
2705.6	32.5°	2791.2	2734.4	2365.5	1989.4	1735.7	1678.9	1680.5	1691.7	1699.7	1686.1
2960.9	35°	3016.9	2892.1	2356.7	1871.0	1643.7	1598.1	1586.1	1589.3	1591.7	1578.9
3270.6	37.5°	3280.2	3068.9	2317.5	1739.7	1567.7	1518.9	1493.3	1471.6	1458.8	1446.8
3621.1	40°	3569.1	3261.8	2245.5	1611.7	1482.9	1434.8	1396.4	1355.6	1312.4	1296.4
3992.4	42.5°	3871.6	3460.3	2158.3	1489.3	1385.2	1346.0	1305.2	1246.0	1181.2	1148.3
4378.1	45°	4185.3	3663.5	2072.6	1368.4	1285.2	1268.4	1221.2	1149.9	1079.5	1037.9
4764.6	47.5°	4492.6	3855.6	1947.0	1246.8	1191.6	1210.0	1173.2	1107.5	1029.1	963.5
5148.0	50°	4786.3	4035.6	1741.3	1123.5	1115.5	1192.4	1157.2	1062.7	973.1	889.1
5524.1	52.5°	5077.5	4181.3	1478.0	1011.5	1074.7	1187.6	1136.3	1032.3	922.7	834.7
5877.8	55°	5324.8	4256.5	1224.4	915.5	1015.5	1146.7	1111.5	996.3	851.5	757.8
6120.3	57.5°	5465.7	4195.7	1013.1	821.0	933.9	1079.5	1069.1	919.5	766.6	694.6
6167.5	60°	5404.8	3949.2	840.3	738.6	856.3	1006.7	995.5	843.5	701.8	633.8
5914.6	62.5°	5069.5	3479.5	703.4	666.6	785.8	932.3	921.9	785.0	652.2	586.6
5243.2	65°	4394.1	2830.5	597.0	606.6	714.6	842.7	857.9	736.2	613.0	549.0
4056.4	67.5°	3351.4	2050.2	513.8	554.6	645.0	754.6	798.6	701.0	580.2	519.4
2347.1	70°	1910.2	1164.4	443.3	504.2	583.4	673.0	753.0	673.0	545.0	494.6
879.5	72.5°	724.2	534.6	383.3	453.7	524.2	604.2	702.6	629.0	504.2	466.5
454.5	75°	386.5	325.7	322.5	394.5	456.1	537.0	639.4	585.8	473.7	492.9
314.5	77.5°	263.3	230.5	269.7	337.7	381.7	462.5	572.2	520.2	410.5	408.9
217.7	80°	182.5	163.2	219.3	272.1	295.3	388.9	499.4	446.5	334.5	312.1
134.4	82.5°	109.6	106.4	164.0	203.3	208.9	300.1	413.7	374.5	273.7	238.5
80.0	85°	60.0	63.2	104.8	119.2	121.6	209.7	324.1	289.7	210.5	176.9
28.8	87.5°	16.8	21.6	38.4	47.2	58.4	108.8	192.9	172.1	105.6	73.6
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>
1972.6
2117.4
2209.5
2235.9
2221.5
2187.9
2141.5
2063.0
1977.4
1923.0
1878.2
1828.6
1773.3
1692.5
1587.7
1454.8
1303.6
1152.4
1034.7
956.3
881.9
825.1
749.8
685.0
624.2
576.2
538.6
509.8
488.1
460.1
509.0
376.9
298.5
240.1
178.5
73.6
0.0

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