

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: P947664

Luminaire Tested: **GALN-SB2D-940-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947664
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2D-940-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14718 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

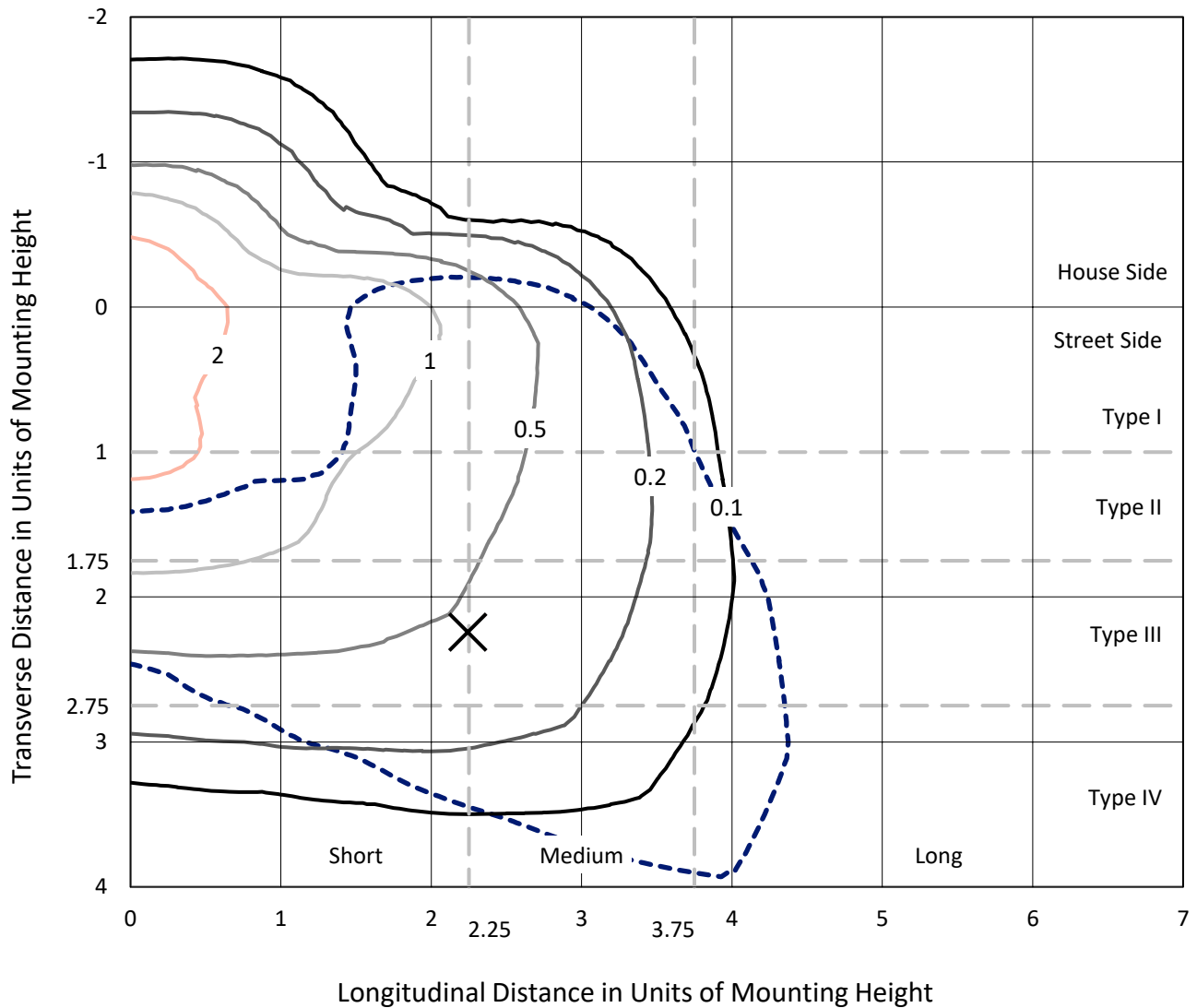
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

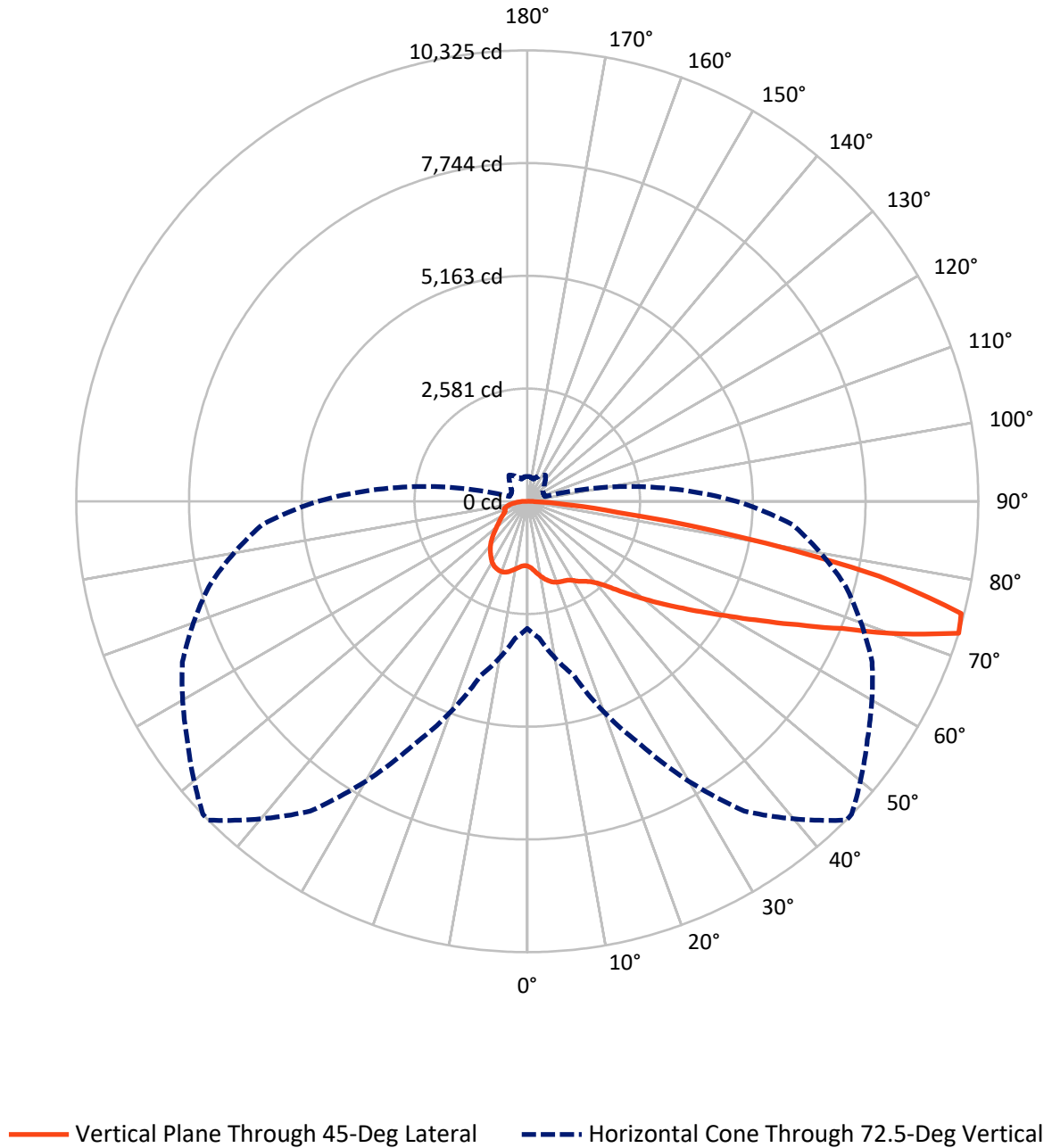
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3327.2	0.0	3327.2
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	11390.8	0.0	11390.8
	% Fixture	77.4	0.0	77.4
Total	Lumens	14718.0	0.0	14718.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.1	1.0
10°-20°	503.8	3.4
20°-30°	876.5	6.0
30°-40°	1256.5	8.5
40°-50°	1769.2	12.0
50°-60°	2709.9	18.4
60°-70°	3925.7	26.7
70°-80°	3134.9	21.3
80°-90°	390.4	2.7
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°	14718.0	100.0
0°-180°	14718.0	100.0

Coefficient of Utilization



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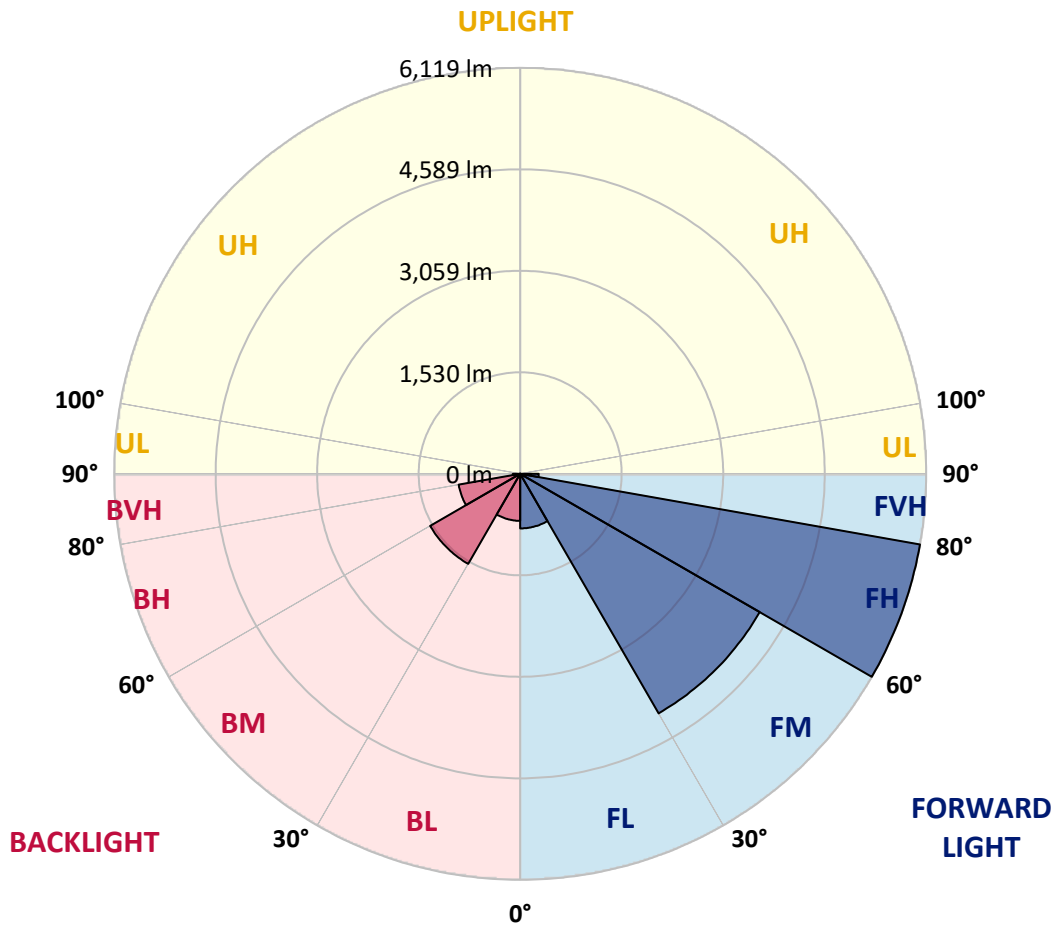
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	823.1	5.6			
FM (30°-60°)	4168.9	28.3			
FH (60°-80°)	6118.7	41.6			G3/7500
FVH (80°-90°)	280.1	1.9			G3/500
BL (0°-30°)	708.4	4.8	B2/1000		
BM (30°-60°)	1566.7	10.6	B2/2500		
BH (60°-80°)	941.9	6.4	B2/1000		G2/1000
BVH (80°-90°)	110.3	0.7			G2/225
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°	45°	46°	55°	65°	75°
0°	1484.8	1484.8	1484.8	1484.8	1484.8	1484.8	1484.8	1484.8	1484.8	1484.8
2.5°	1542.9	1553.0	1543.7	1535.2	1531.3	1521.2	1520.4	1514.2	1510.3	1499.5
5°	1650.7	1663.9	1648.4	1631.3	1615.8	1591.0	1587.9	1570.0	1549.9	1526.6
7.5°	1772.4	1784.0	1766.2	1740.6	1713.5	1672.4	1671.6	1639.1	1607.3	1567.7
10°	1878.6	1894.1	1870.1	1835.2	1801.1	1754.6	1749.1	1711.9	1671.6	1620.4
12.5°	1972.4	1983.3	1960.0	1917.4	1877.9	1831.3	1824.4	1783.3	1738.3	1680.1
15°	2046.9	2060.8	2029.8	1984.1	1942.2	1896.5	1890.3	1853.0	1808.1	1746.8
17.5°	2095.7	2107.4	2075.6	2024.4	1984.1	1946.1	1941.4	1910.4	1870.9	1808.8
20°	2114.3	2126.7	2093.4	2041.4	2004.2	1974.8	1972.4	1950.0	1922.8	1866.2
22.5°	2132.9	2144.6	2101.1	2046.9	2014.3	1995.7	1994.9	1980.2	1969.3	1922.8
25°	2208.1	2211.2	2153.1	2074.8	2028.3	2012.0	2011.2	2010.4	2015.1	1978.6
27.5°	2273.3	2272.5	2222.9	2149.2	2077.1	2043.0	2042.2	2050.0	2064.7	2034.5
30°	2368.6	2360.1	2301.2	2224.4	2158.5	2105.8	2101.1	2094.2	2105.8	2081.8
32.5°	2571.0	2543.9	2448.5	2312.0	2226.0	2185.7	2179.5	2136.0	2140.7	2126.0
35°	2861.0	2825.3	2698.2	2478.0	2309.7	2252.3	2249.2	2194.2	2184.9	2171.7
37.5°	3206.0	3161.8	3013.7	2718.3	2453.9	2329.9	2325.2	2275.6	2237.6	2223.7
40°	3552.6	3496.7	3374.2	3011.4	2666.4	2459.4	2444.6	2369.4	2326.0	2302.7
42.5°	3889.1	3842.5	3737.9	3340.1	2928.4	2648.5	2616.0	2487.3	2454.7	2433.0
45°	4186.8	4144.9	4068.2	3691.4	3235.5	2905.9	2874.2	2664.0	2654.0	2654.0
47.5°	4428.7	4419.4	4338.0	4049.6	3597.5	3199.0	3144.0	2909.8	2937.0	2978.8
50°	4697.0	4671.4	4584.5	4402.3	4023.2	3534.7	3489.8	3211.4	3313.0	3427.7
52.5°	4943.5	4957.5	4860.6	4769.8	4503.9	3909.2	3830.1	3567.3	3786.7	3976.7
55°	5197.0	5197.8	5170.7	5158.3	5007.9	4323.2	4236.4	3995.3	4344.2	4579.9
57.5°	5435.1	5436.6	5476.9	5586.3	5592.5	4800.9	4702.4	4521.0	4963.7	5204.0
60°	5647.5	5658.4	5768.5	6024.3	6106.5	5348.2	5255.2	5142.0	5604.1	5846.0
62.5°	5718.8	5758.4	6003.4	6367.0	6614.4	6019.7	5928.2	5860.7	6277.1	6501.9
65°	5597.9	5688.6	6162.3	6650.0	7136.9	6817.5	6726.8	6653.1	6976.4	7188.1
67.5°	5300.9	5418.0	6153.0	6947.0	7771.1	7777.3	7692.8	7519.9	7726.2	7807.6
70°	4518.6	4693.9	5611.1	7057.8	8499.2	9090.0	9008.6	8563.5	8474.4	8080.5
72.5°	2911.4	3147.1	4131.7	6145.3	8661.2	10325.1	10320.4	9505.6	8710.8	7550.2
75°	1062.2	1206.4	1919.7	3857.3	7270.3	10262.3	10292.5	9344.3	7951.8	5832.0
77.5°	386.9	423.3	626.5	1482.4	4471.3	8234.0	8296.8	7470.3	5659.9	2926.9
80°	203.1	223.3	321.0	575.3	1915.8	4890.0	4988.5	4439.5	2660.2	881.6
82.5°	112.4	121.7	179.9	312.5	862.9	2091.1	2150.0	1753.8	935.8	373.7
85°	60.5	64.4	84.5	170.6	421.8	724.9	741.2	524.1	372.9	219.4
87.5°	17.8	21.7	27.9	54.3	165.1	162.8	166.7	103.9	147.3	110.9
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°
1484.8	0°	1484.8	1484.8	1484.8	1484.8	1484.8	1484.8	1484.8	1484.8	1484.8	1484.8
1496.4	2.5°	1491.7	1489.4	1480.9	1477.0	1472.4	1471.6	1475.5	1476.2	1477.0	1477.8
1513.4	5°	1505.7	1497.9	1490.2	1485.5	1487.1	1487.9	1495.6	1501.0	1504.9	1508.0
1545.2	7.5°	1532.8	1526.6	1513.4	1512.7	1515.0	1522.0	1532.1	1544.5	1551.4	1556.9
1586.3	10°	1573.1	1561.5	1546.0	1548.3	1553.0	1563.1	1584.0	1594.1	1605.7	1615.8
1636.7	12.5°	1614.2	1604.2	1586.3	1587.9	1595.6	1613.5	1633.6	1646.0	1653.8	1661.5
1691.0	15°	1667.7	1649.9	1630.5	1630.5	1644.5	1663.9	1673.2	1683.2	1687.9	1696.4
1749.1	17.5°	1722.8	1699.5	1673.9	1672.4	1689.4	1698.8	1704.2	1705.7	1707.3	1716.6
1805.7	20°	1777.8	1752.2	1715.8	1712.7	1716.6	1715.0	1714.3	1712.7	1715.0	1726.7
1863.9	22.5°	1832.1	1802.6	1752.2	1738.3	1727.4	1712.7	1711.9	1711.2	1712.7	1724.3
1926.7	25°	1895.7	1860.0	1792.6	1750.7	1714.3	1694.1	1696.4	1697.2	1698.8	1708.1
1991.8	27.5°	1964.7	1925.1	1829.8	1746.8	1680.9	1667.0	1663.1	1665.4	1670.8	1685.6
2057.0	30°	2033.7	1987.2	1863.9	1731.3	1639.1	1619.7	1607.3	1612.7	1629.7	1644.5
2113.6	32.5°	2096.5	2050.0	1891.0	1697.2	1585.6	1555.3	1539.0	1546.0	1563.1	1568.5
2176.4	35°	2170.2	2117.4	1902.7	1642.9	1527.4	1480.9	1459.2	1449.1	1457.6	1452.2
2250.0	37.5°	2252.3	2197.3	1901.1	1571.6	1459.2	1405.7	1375.4	1337.4	1319.6	1301.0
2358.6	40°	2374.1	2295.0	1882.5	1485.5	1374.7	1325.8	1271.5	1207.2	1166.9	1130.4
2533.8	42.5°	2540.0	2430.7	1848.4	1390.9	1279.3	1233.6	1159.9	1084.7	1021.1	960.6
2799.7	45°	2787.3	2608.2	1805.7	1290.2	1176.2	1131.2	1051.3	966.8	894.7	817.2
3177.3	47.5°	3144.0	2847.0	1765.4	1175.4	1067.6	1026.5	954.4	876.1	790.8	715.6
3723.1	50°	3634.0	3189.7	1728.2	1063.8	960.6	929.6	872.2	792.4	706.3	645.9
4362.8	52.5°	4257.3	3655.7	1712.7	956.0	860.6	849.0	803.2	728.8	647.4	596.2
5108.7	55°	4973.0	4213.2	1712.7	852.9	773.0	776.9	745.1	676.1	605.5	559.8
5877.8	57.5°	5703.3	4777.6	1681.7	757.5	698.6	714.9	694.7	634.2	570.6	523.3
6686.5	60°	6376.3	5250.5	1556.1	670.7	632.7	658.3	645.1	593.1	515.6	476.1
7362.5	62.5°	6893.5	5517.3	1314.2	601.7	578.4	607.9	600.9	538.9	505.5	489.2
7917.7	65°	7152.4	5473.8	1004.8	540.4	532.7	578.4	563.7	561.3	535.0	516.4
8098.3	67.5°	6993.5	5100.1	728.8	495.4	506.3	551.3	607.9	617.2	568.3	531.9
7589.7	70°	6296.5	4424.0	542.7	452.8	473.0	552.0	693.1	645.9	557.5	514.8
6087.1	72.5°	4790.0	3299.0	421.0	407.8	429.5	555.9	731.1	632.7	526.5	569.1
3792.1	75°	2739.2	1811.2	338.0	352.8	375.3	519.5	711.8	598.6	502.4	522.6
1502.6	77.5°	1044.4	696.2	279.1	298.5	301.6	453.6	680.7	596.2	478.4	466.7
450.5	80°	362.1	272.1	231.0	237.3	233.4	403.2	652.8	518.7	391.5	350.4
186.1	82.5°	148.1	135.7	183.0	175.2	165.9	313.2	527.2	424.1	320.2	283.0
89.9	85°	64.4	86.1	121.0	106.2	96.1	217.1	422.6	359.0	270.6	233.4
29.5	87.5°	13.2	32.6	51.2	48.1	49.6	145.0	300.1	255.1	191.5	143.4
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>
1484.8
1480.9
1509.6
1558.4
1613.5
1664.6
1699.5
1719.7
1731.3
1732.1
1720.5
1700.3
1660.8
1587.9
1469.3
1312.6
1132.8
955.2
807.9
707.1
642.0
592.4
555.1
515.6
469.9
483.8
510.2
525.7
507.8
564.4
522.6
425.7
338.8
279.9
232.6
112.4
0.0

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