

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: P939762

Luminaire Tested: **GALN-SB2C-735-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939762
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
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-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14846 lumens
Efficiency: N/A
Efficacy: 147.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G3

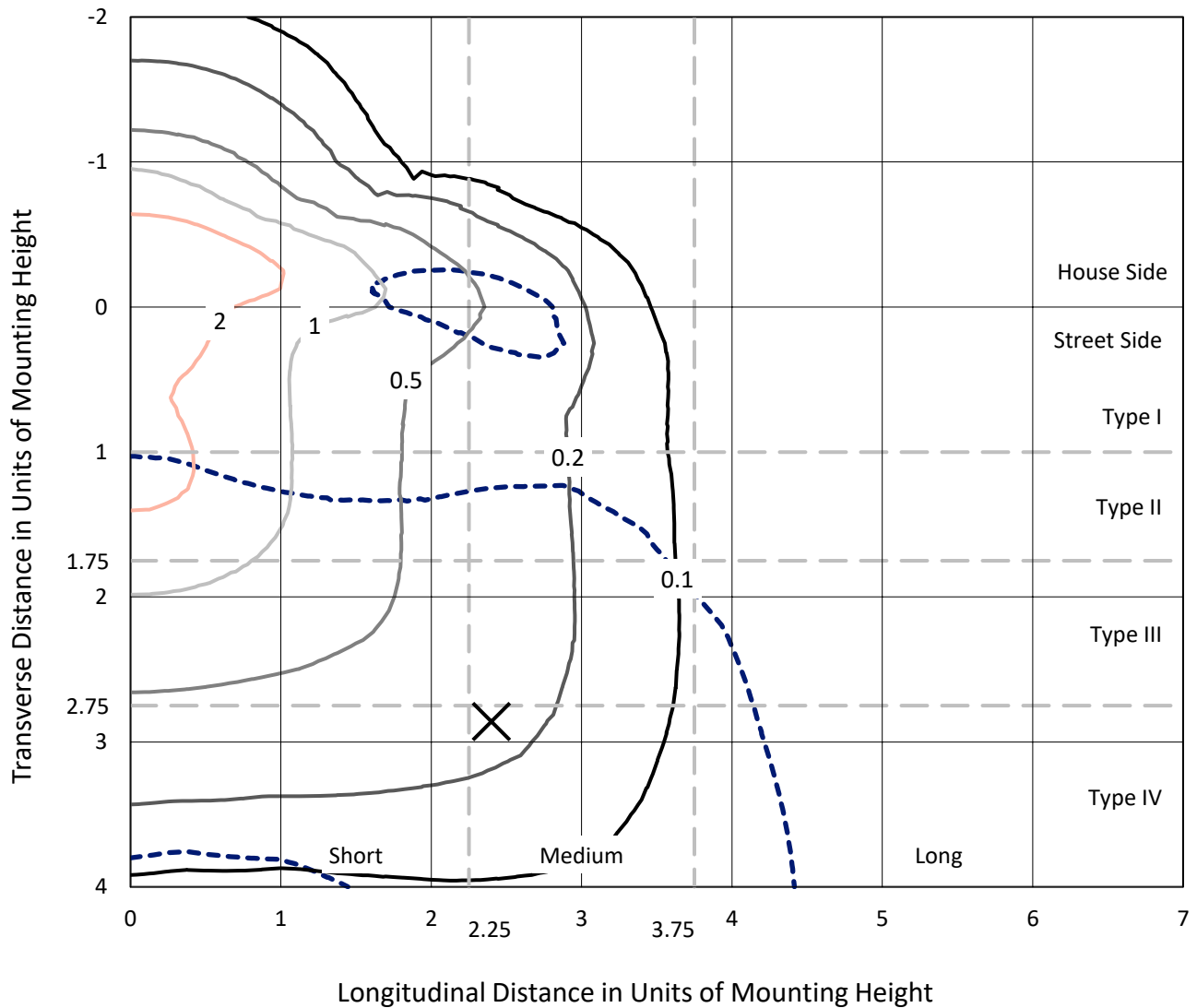
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

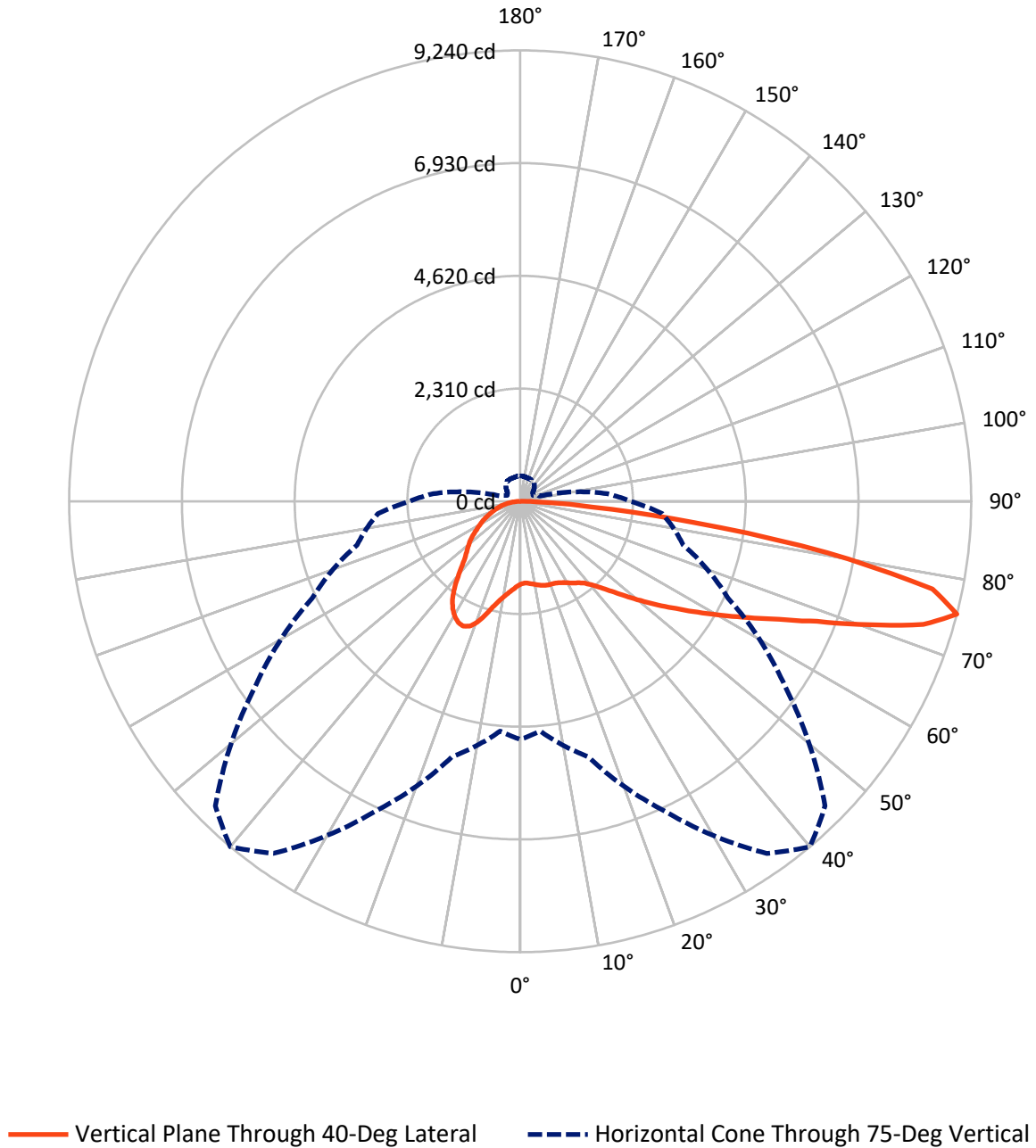
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4599.8	0.0	4599.8
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	10246.2	0.0	10246.2
	% Fixture	69.0	0.0	69.0
Total	Lumens	14846.0	0.0	14846.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.5	1.1
10°-20°	569.0	3.8
20°-30°	1038.9	7.0
30°-40°	1473.4	9.9
40°-50°	1989.5	13.4
50°-60°	2676.4	18.0
60°-70°	3397.0	22.9
70°-80°	3083.0	20.8
80°-90°	449.4	3.0
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°	14846.0	100.0
0°-180°	14846.0	100.0



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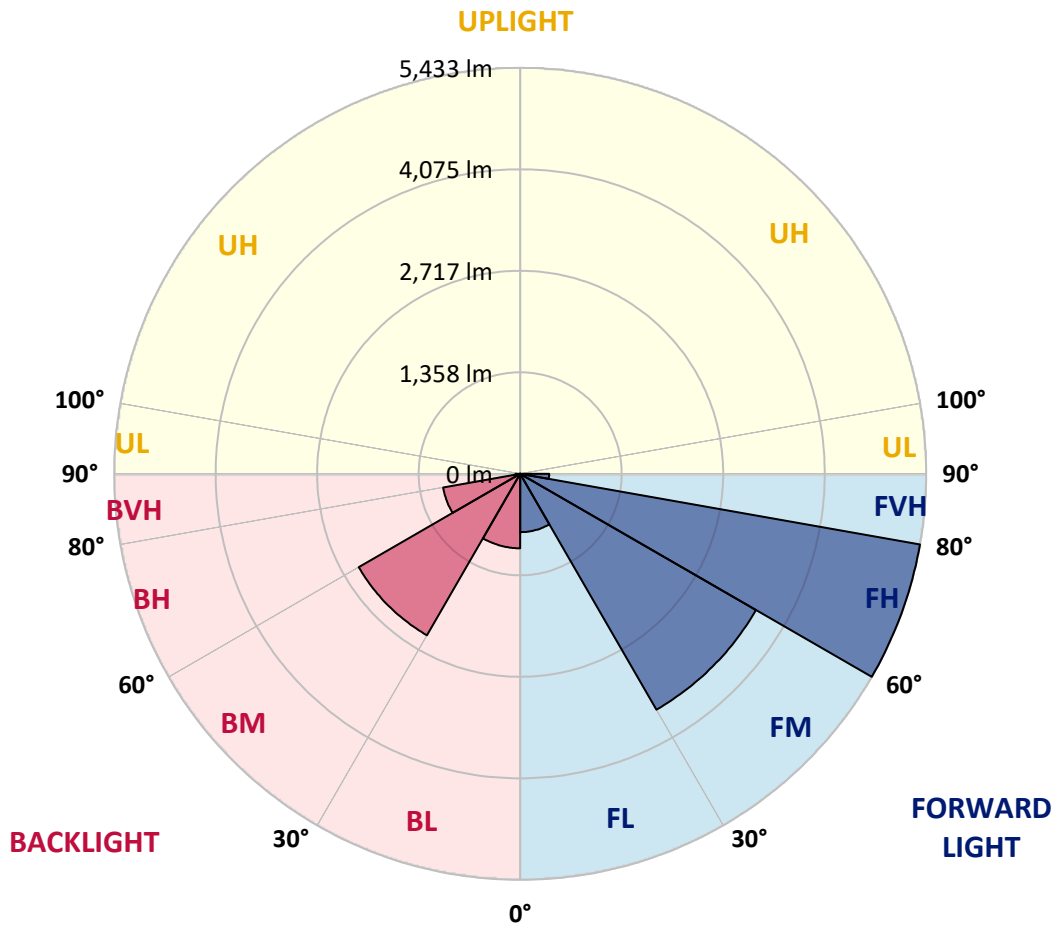
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	780.9	5.3			
FM (30°-60°)	3644.4	24.5			
FH (60°-80°)	5433.4	36.6			G3/7500
FVH (80°-90°)	387.5	2.6			G3/500
BL (0°-30°)	996.4	6.7	B2/1000		
BM (30°-60°)	2495.0	16.8	B2/2500		
BH (60°-80°)	1046.6	7.0	B3/2500		G3/2500
BVH (80°-90°)	61.9	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	1697.7	1697.7	1697.7	1697.7	1697.7	1697.7	1697.7	1697.7	1697.7	1697.7
2.5°	1671.7	1681.1	1678.8	1675.6	1675.6	1676.4	1675.6	1681.1	1686.6	1692.1
5°	1689.0	1698.4	1693.7	1689.8	1686.6	1685.8	1683.5	1682.7	1685.8	1692.9
7.5°	1722.9	1732.3	1725.2	1718.1	1711.8	1708.7	1705.5	1700.8	1698.4	1702.4
10°	1760.7	1770.1	1761.4	1748.8	1738.6	1734.7	1731.5	1726.8	1723.6	1726.0
12.5°	1798.4	1807.9	1796.1	1778.8	1765.4	1763.0	1759.1	1757.5	1756.7	1755.9
15°	1833.9	1841.8	1826.8	1806.3	1792.1	1788.2	1784.3	1786.6	1790.6	1795.3
17.5°	1861.4	1869.3	1847.3	1820.5	1807.1	1805.5	1803.2	1811.0	1822.1	1833.9
20°	1886.6	1894.5	1866.2	1829.9	1814.2	1814.2	1815.0	1831.5	1847.3	1864.6
22.5°	1922.1	1928.4	1893.7	1844.1	1821.3	1822.9	1829.2	1845.7	1865.4	1889.0
25°	1974.8	1979.6	1937.0	1870.9	1844.9	1849.6	1855.1	1863.0	1881.9	1909.5
27.5°	2059.9	2063.8	2007.9	1918.1	1878.8	1886.6	1894.5	1889.0	1897.7	1921.3
30°	2179.6	2181.9	2111.1	1992.2	1936.2	1940.2	1941.8	1918.9	1902.4	1921.3
32.5°	2321.3	2320.5	2236.2	2081.9	2001.6	1997.7	1984.3	1939.4	1900.8	1917.3
35°	2541.0	2532.3	2423.7	2207.9	2075.6	2051.2	2019.7	1962.2	1908.7	1913.4
37.5°	2904.8	2878.0	2727.6	2414.2	2185.9	2123.6	2077.2	1999.2	1926.0	1911.8
40°	3315.0	3281.1	3115.8	2696.9	2351.2	2251.2	2176.4	2052.0	1954.4	1918.9
42.5°	3801.6	3753.6	3575.6	3030.0	2560.7	2415.8	2303.2	2118.9	1996.1	1941.8
45°	4399.3	4335.5	4083.5	3405.6	2824.4	2631.5	2481.1	2220.5	2059.9	1985.9
47.5°	5003.2	5019.0	4660.7	3835.5	3141.0	2897.7	2704.0	2373.3	2152.8	2056.7
50°	5645.0	5656.0	5234.7	4311.9	3500.0	3198.5	2954.4	2544.1	2281.9	2157.5
52.5°	6145.7	6147.3	5756.0	4810.3	3874.1	3529.2	3224.5	2739.4	2431.5	2291.4
55°	6459.1	6455.2	6121.3	5282.0	4304.0	3876.4	3523.7	2961.5	2614.2	2448.9
57.5°	6686.7	6674.9	6373.3	5687.5	4762.3	4286.7	3862.3	3213.4	2830.0	2636.3
60°	6773.3	6766.2	6544.2	6037.9	5244.2	4740.2	4252.8	3495.3	3074.8	2857.5
62.5°	6806.4	6819.8	6711.9	6377.2	5759.9	5242.6	4682.0	3832.3	3350.4	3107.9
65°	6922.9	6947.3	6925.3	6821.3	6342.6	5830.8	5251.2	4233.1	3651.2	3376.4
67.5°	7153.6	7178.0	7187.5	7352.9	7054.4	6563.9	5961.5	4732.3	4003.2	3655.2
70°	7148.1	7141.0	7308.0	7775.7	7945.8	7578.8	6919.0	5346.5	4422.9	3886.7
72.5°	6506.4	6449.7	6844.2	7771.0	8687.5	8638.7	8088.3	6138.7	4785.1	3915.0
75°	4881.2	4730.0	5426.8	7003.2	8811.1	9240.3	8831.6	6630.0	4699.3	3459.1
77.5°	2087.4	1935.5	2756.7	5184.3	7885.9	8637.9	8149.7	5784.3	3751.2	2287.4
80°	546.5	545.7	833.1	2350.4	5363.1	6378.8	5596.1	3735.5	2143.3	817.3
82.5°	226.0	220.5	306.3	914.2	2620.5	3579.6	2921.3	1666.2	774.0	221.3
85°	84.3	83.5	148.8	315.8	924.4	1476.4	1068.5	426.0	192.9	107.9
87.5°	23.6	22.8	32.3	109.5	225.2	341.7	182.7	70.1	54.3	42.5
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°
1697.7	0°	1697.7	1697.7	1697.7	1697.7	1697.7	1697.7	1697.7	1697.7	1697.7	1697.7
1700.8	2.5°	1703.2	1707.1	1714.2	1719.7	1726.8	1734.7	1745.7	1752.8	1759.9	1764.6
1704.7	5°	1710.3	1718.9	1737.0	1755.1	1776.4	1796.1	1818.9	1835.5	1848.8	1852.8
1718.9	7.5°	1726.0	1740.2	1770.9	1801.6	1835.5	1867.7	1900.8	1929.2	1952.0	1960.7
1744.1	10°	1753.6	1772.5	1815.8	1859.1	1904.0	1953.6	1996.1	2037.0	2069.3	2082.7
1774.0	12.5°	1788.2	1811.8	1868.5	1928.4	1990.6	2059.1	2114.2	2164.6	2204.8	2222.9
1815.8	15°	1833.1	1863.8	1936.2	2016.6	2107.9	2203.2	2273.3	2329.2	2374.0	2396.1
1859.1	17.5°	1881.9	1922.9	2014.2	2135.5	2266.2	2391.4	2473.3	2514.2	2560.7	2581.9
1899.2	20°	1929.2	1979.6	2110.3	2286.6	2460.7	2593.7	2659.9	2670.9	2674.1	2676.4
1937.0	22.5°	1978.0	2045.7	2230.7	2477.2	2663.8	2755.9	2765.4	2718.1	2652.0	2621.3
1974.0	25°	2031.5	2121.3	2388.2	2687.4	2838.6	2849.6	2777.2	2662.2	2537.0	2479.6
2004.0	27.5°	2083.5	2208.7	2577.2	2888.2	2964.6	2867.8	2711.8	2548.9	2397.7	2337.0
2025.2	30°	2135.5	2308.7	2785.9	3063.8	3022.1	2822.9	2608.7	2426.8	2274.8	2211.1
2044.1	32.5°	2188.2	2425.2	3026.0	3190.6	3011.9	2727.6	2480.3	2289.8	2155.9	2089.0
2060.7	35°	2248.1	2568.5	3253.6	3259.9	2943.3	2587.4	2311.1	2126.0	2009.5	1955.9
2080.3	37.5°	2326.0	2750.4	3454.4	3277.2	2823.7	2381.9	2100.8	1932.3	1836.2	1811.8
2109.5	40°	2422.9	2969.3	3607.9	3249.6	2646.5	2132.3	1870.9	1736.2	1681.9	1687.4
2148.8	42.5°	2548.9	3214.2	3715.8	3178.8	2400.0	1874.8	1669.3	1609.5	1635.5	1657.5
2207.9	45°	2712.6	3468.5	3782.7	3058.3	2121.3	1656.7	1550.4	1564.6	1584.3	1586.6
2303.2	47.5°	2922.1	3726.0	3826.8	2876.4	1837.0	1503.2	1474.8	1478.0	1474.0	1457.5
2445.7	50°	3183.5	3976.4	3866.2	2635.5	1595.3	1407.1	1369.3	1358.3	1304.0	1250.4
2635.5	52.5°	3481.1	4206.4	3882.7	2336.3	1407.1	1326.8	1265.4	1196.1	1094.5	1078.0
2874.1	55°	3811.9	4419.0	3840.2	1968.5	1248.8	1223.6	1130.7	1047.3	1036.2	1022.1
3188.2	57.5°	4207.1	4648.1	3753.6	1558.3	1086.6	1103.2	1012.6	1022.1	1002.4	980.3
3592.2	60°	4639.4	4885.1	3601.6	1184.3	918.9	952.8	981.9	981.1	975.6	957.5
4018.2	62.5°	5028.4	5041.0	3302.4	907.1	771.7	836.2	915.8	915.0	910.2	900.0
4463.1	65°	5259.9	5017.4	2803.2	714.2	650.4	740.2	826.0	832.3	833.1	832.3
4797.7	67.5°	5219.0	4741.0	2118.1	568.5	550.4	642.5	737.0	745.7	752.0	753.6
4840.2	70°	4756.0	4133.9	1381.1	453.5	461.4	556.7	652.8	661.4	666.9	673.2
4200.1	72.5°	3707.1	3039.4	790.6	366.9	383.5	482.7	569.3	579.5	582.7	594.5
2922.9	75°	2259.1	1787.4	426.8	289.0	315.0	412.6	486.6	498.4	503.9	518.1
1435.5	77.5°	1074.0	774.0	243.3	225.2	253.5	337.0	411.0	424.4	409.5	417.3
396.1	80°	363.0	287.4	153.5	171.7	193.7	263.0	329.1	342.5	311.0	309.5
131.5	82.5°	126.8	116.5	97.6	114.2	125.2	188.2	248.8	266.1	231.5	230.7
59.1	85°	49.6	47.2	54.3	62.2	74.8	115.7	163.8	172.4	142.5	115.0
17.3	87.5°	10.2	11.0	13.4	14.2	22.8	40.2	59.1	72.4	57.5	48.8
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>
1697.7
1761.4
1854.4
1961.4
2083.5
2222.9
2394.5
2581.1
2682.7
2630.0
2488.2
2344.1
2218.1
2097.7
1967.7
1829.2
1706.3
1678.0
1602.4
1470.1
1257.5
1083.5
1024.4
976.4
951.2
896.1
832.3
755.1
676.4
599.2
519.7
411.0
306.3
219.7
113.4
44.9
0.0

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