

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: P947055

Luminaire Tested: **GALN-SB2C-735-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947055
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-SB2C-735-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14948 lumens
Efficiency: N/A
Efficacy: 148.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

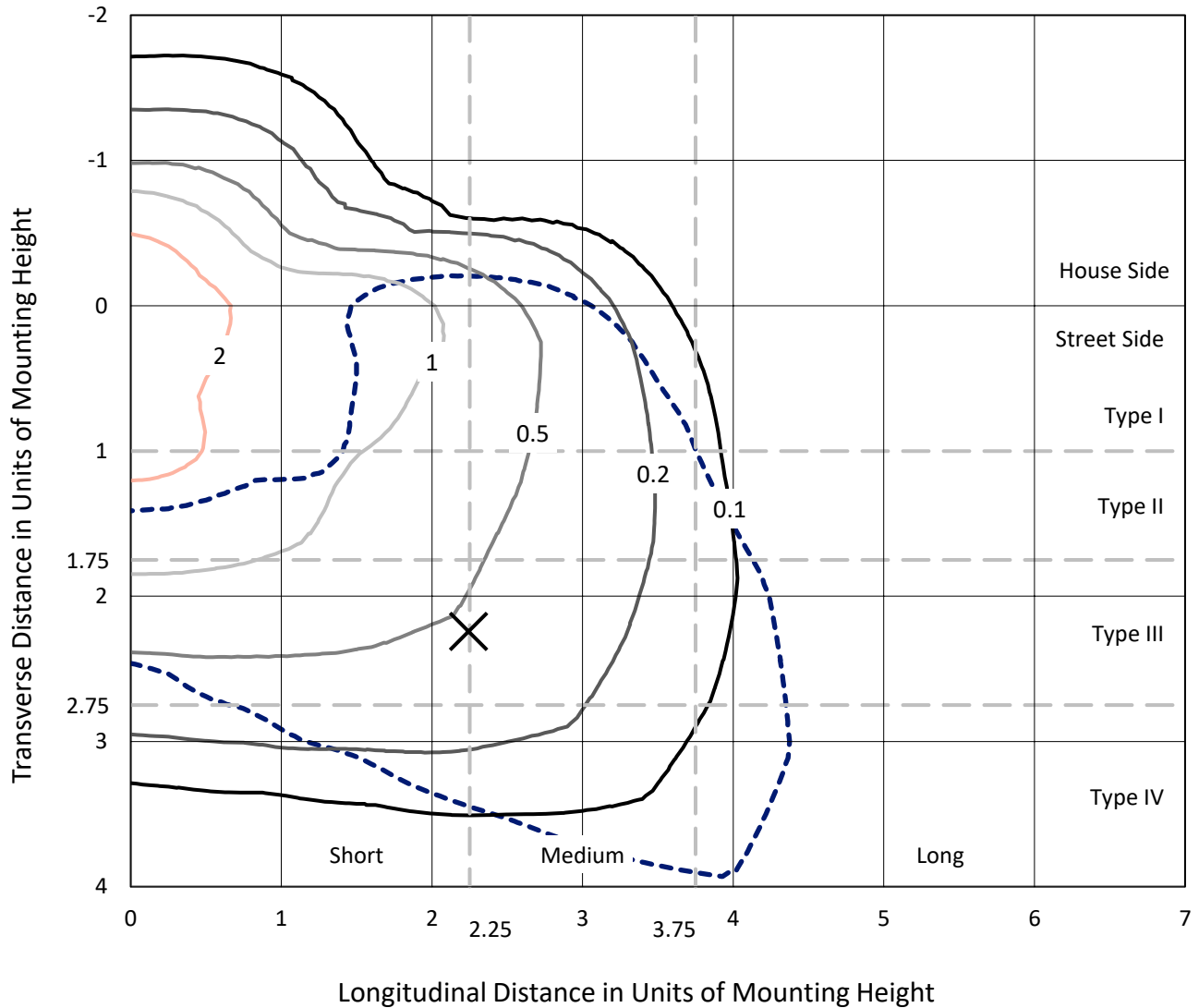
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

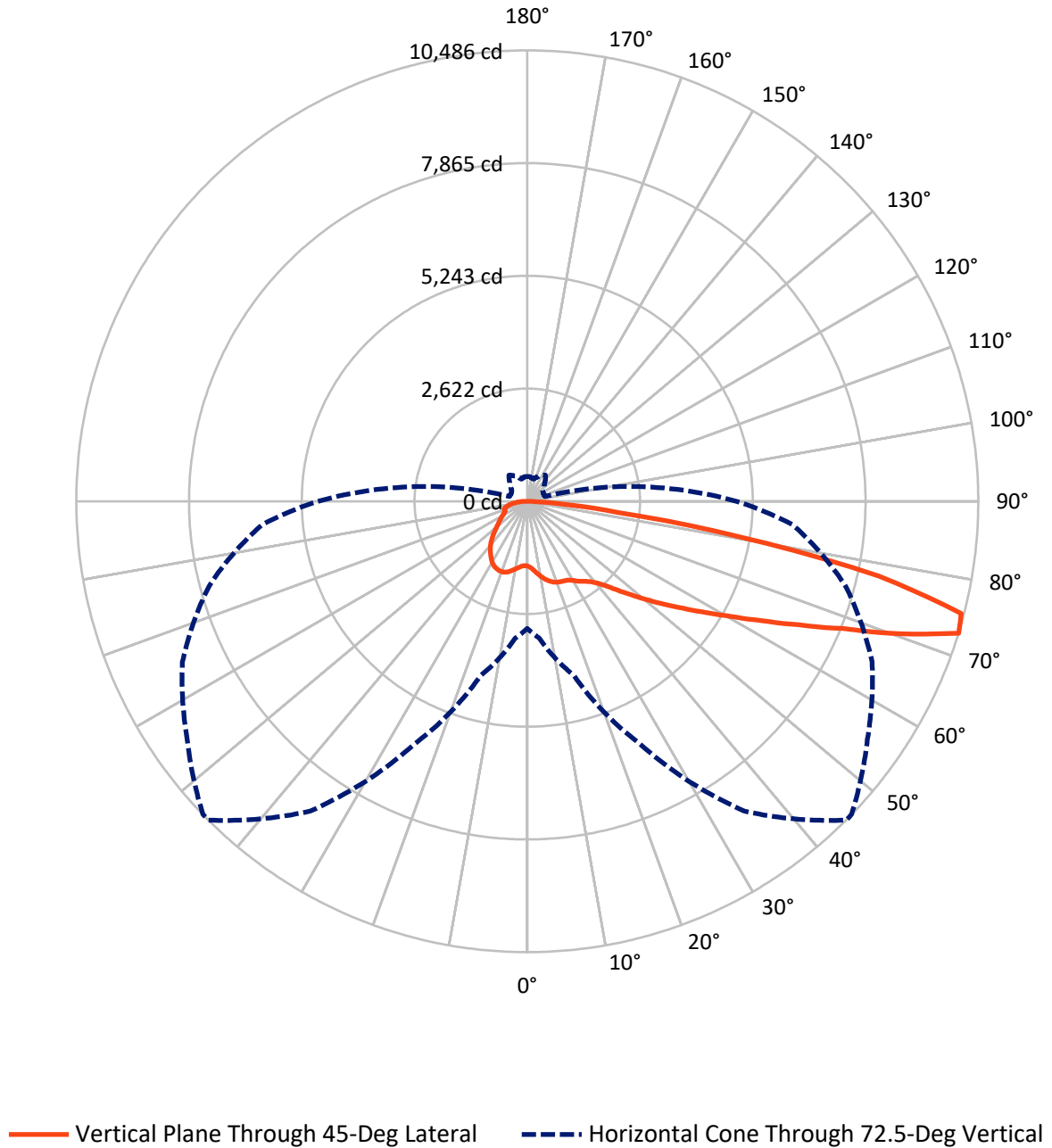
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 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	3379.2	0.0	3379.2
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	11568.8	0.0	11568.8
	% Fixture	77.4	0.0	77.4
Total	Lumens	14948.0	0.0	14948.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.5	1.0
10°-20°	511.7	3.4
20°-30°	890.2	6.0
30°-40°	1276.1	8.5
40°-50°	1796.8	12.0
50°-60°	2752.2	18.4
60°-70°	3987.0	26.7
70°-80°	3183.9	21.3
80°-90°	396.5	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°	14948.0	100.0
0°-180°	14948.0	100.0



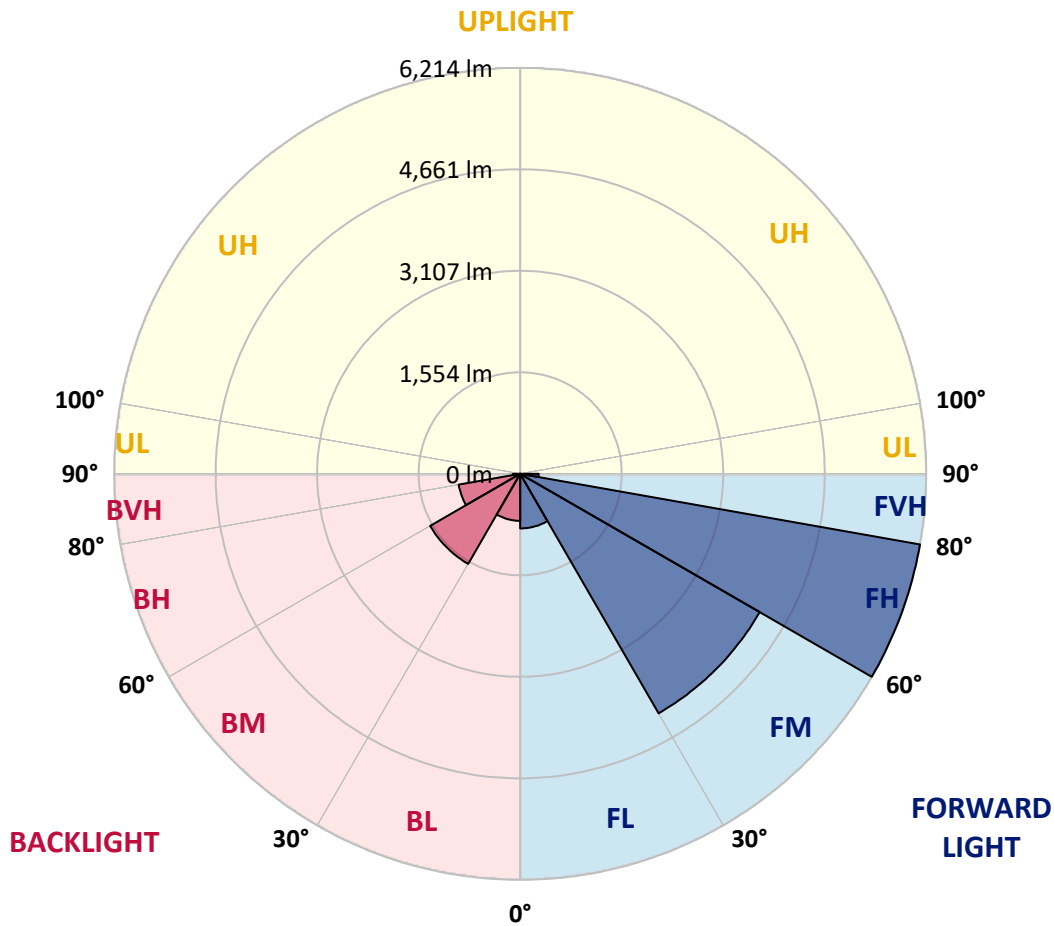
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	835.9	5.6			
FM (30°-60°)	4234.1	28.3			
FH (60°-80°)	6214.3	41.6			G3/7500
FVH (80°-90°)	284.5	1.9			G3/500
BL (0°-30°)	719.5	4.8	B2/1000		
BM (30°-60°)	1591.1	10.6	B2/2500		
BH (60°-80°)	956.6	6.4	B2/1000		G2/1000
BVH (80°-90°)	112.1	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°	1508.0	1508.0	1508.0	1508.0	1508.0	1508.0	1508.0	1508.0	1508.0	1508.0
2.5°	1567.0	1577.3	1567.8	1559.1	1555.2	1545.0	1544.2	1537.9	1533.9	1522.9
5°	1676.5	1689.9	1674.1	1656.8	1641.0	1615.8	1612.7	1594.6	1574.1	1550.5
7.5°	1800.1	1811.9	1793.8	1767.8	1740.3	1698.5	1697.7	1664.7	1632.4	1592.2
10°	1908.0	1923.7	1899.3	1863.9	1829.2	1782.0	1776.5	1738.7	1697.7	1645.8
12.5°	2003.3	2014.3	1990.7	1947.4	1907.2	1860.0	1852.9	1811.1	1765.5	1706.4
15°	2078.9	2093.0	2061.5	2015.1	1972.6	1926.1	1919.8	1882.0	1836.3	1774.1
17.5°	2128.5	2140.3	2108.0	2056.0	2015.1	1976.5	1971.8	1940.3	1900.1	1837.1
20°	2147.4	2160.0	2126.1	2073.3	2035.6	2005.6	2003.3	1980.4	1952.9	1895.4
22.5°	2166.3	2178.1	2134.0	2078.9	2045.8	2026.9	2026.1	2011.1	2000.1	1952.9
25°	2242.7	2245.8	2186.7	2107.2	2060.0	2043.4	2042.6	2041.9	2046.6	2009.6
27.5°	2308.8	2308.0	2257.6	2182.8	2109.6	2074.9	2074.1	2082.0	2097.0	2066.3
30°	2405.7	2397.0	2337.1	2259.2	2192.3	2138.7	2134.0	2126.9	2138.7	2114.3
32.5°	2611.2	2583.6	2486.8	2348.2	2260.8	2219.8	2213.5	2169.4	2174.1	2159.2
35°	2905.7	2869.5	2740.3	2516.7	2345.8	2287.5	2284.4	2228.5	2219.0	2205.6
37.5°	3256.1	3211.2	3060.8	2760.8	2492.3	2366.3	2361.6	2311.2	2272.6	2258.4
40°	3608.1	3551.4	3427.0	3058.4	2708.0	2497.8	2482.8	2406.4	2362.3	2338.7
42.5°	3949.8	3902.6	3796.3	3392.3	2974.2	2689.9	2656.8	2526.1	2493.1	2471.0
45°	4252.2	4209.7	4131.7	3749.0	3286.0	2951.4	2919.1	2705.7	2695.4	2695.4
47.5°	4497.9	4488.5	4405.8	4112.8	3653.8	3249.0	3193.1	2955.3	2982.9	3025.4
50°	4770.4	4744.4	4656.2	4471.1	4086.1	3590.0	3544.3	3261.6	3364.8	3481.3
52.5°	5020.8	5034.9	4936.5	4844.4	4574.3	3970.3	3890.0	3623.0	3845.9	4038.8
55°	5278.3	5279.0	5251.5	5238.9	5086.1	4390.8	4302.6	4057.7	4412.1	4651.5
57.5°	5520.0	5521.6	5562.5	5673.6	5679.9	4875.9	4775.9	4591.6	5041.2	5285.3
60°	5735.8	5746.8	5858.6	6118.5	6201.9	5431.8	5337.3	5222.4	5691.7	5937.4
62.5°	5808.2	5848.4	6097.2	6466.5	6717.7	6113.7	6020.8	5952.3	6375.2	6603.5
65°	5685.4	5777.5	6258.6	6753.9	7248.5	6924.0	6831.9	6757.1	7085.5	7300.4
67.5°	5383.8	5502.7	6249.2	7055.5	7892.6	7898.9	7813.1	7637.5	7846.9	7929.6
70°	4589.2	4767.2	5698.8	7168.1	8632.0	9232.0	9149.4	8697.4	8606.8	8206.8
72.5°	2956.9	3196.3	4196.3	6241.3	8796.6	10486.4	10481.7	9654.1	8847.0	7668.2
75°	1078.8	1225.3	1949.7	3917.6	7383.9	10422.7	10453.4	9490.3	8076.1	5923.2
77.5°	392.9	429.9	636.3	1505.6	4541.2	8362.7	8426.5	7587.1	5748.4	2972.6
80°	206.3	226.8	326.0	584.3	1945.8	4966.4	5066.4	4508.9	2701.7	895.3
82.5°	114.2	123.6	182.7	317.3	876.4	2123.7	2183.6	1781.2	950.4	379.5
85°	61.4	65.4	85.8	173.2	428.4	736.3	752.8	532.3	378.8	222.8
87.5°	18.1	22.0	28.3	55.1	167.7	165.4	169.3	105.5	149.6	112.6
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°
1508.0	0°	1508.0	1508.0	1508.0	1508.0	1508.0	1508.0	1508.0	1508.0	1508.0	1508.0
1519.8	2.5°	1515.0	1512.7	1504.0	1500.1	1495.4	1494.6	1498.5	1499.3	1500.1	1500.9
1537.1	5°	1529.2	1521.3	1513.5	1508.7	1510.3	1511.1	1519.0	1524.5	1528.4	1531.6
1569.4	7.5°	1556.8	1550.5	1537.1	1536.3	1538.7	1545.8	1556.0	1568.6	1575.7	1581.2
1611.1	10°	1597.7	1585.9	1570.2	1572.5	1577.3	1587.5	1608.8	1619.0	1630.8	1641.0
1662.3	12.5°	1639.5	1629.2	1611.1	1612.7	1620.6	1638.7	1659.2	1671.8	1679.6	1687.5
1717.4	15°	1693.8	1675.7	1656.0	1656.0	1670.2	1689.9	1699.3	1709.5	1714.3	1722.9
1776.5	17.5°	1749.7	1726.1	1700.1	1698.5	1715.8	1725.3	1730.8	1732.4	1734.0	1743.4
1834.0	20°	1805.6	1779.6	1742.6	1739.5	1743.4	1741.8	1741.0	1739.5	1741.8	1753.6
1893.0	22.5°	1860.7	1830.8	1779.6	1765.5	1754.4	1739.5	1738.7	1737.9	1739.5	1751.3
1956.8	25°	1925.3	1889.1	1820.6	1778.1	1741.0	1720.6	1722.9	1723.7	1725.3	1734.7
2023.0	27.5°	1995.4	1955.2	1858.4	1774.1	1707.2	1693.0	1689.1	1691.4	1696.9	1711.9
2089.1	30°	2065.5	2018.2	1893.0	1758.4	1664.7	1645.0	1632.4	1637.9	1655.2	1670.2
2146.6	32.5°	2129.3	2082.0	1920.6	1723.7	1610.3	1579.6	1563.1	1570.2	1587.5	1593.0
2210.4	35°	2204.1	2150.5	1932.4	1668.6	1551.3	1504.0	1482.0	1471.7	1480.4	1474.9
2285.2	37.5°	2287.5	2231.6	1930.8	1596.2	1482.0	1427.6	1396.9	1358.3	1340.2	1321.3
2395.4	40°	2411.2	2330.8	1911.9	1508.7	1396.1	1346.5	1291.4	1226.1	1185.1	1148.1
2573.4	42.5°	2579.7	2468.6	1877.3	1412.7	1299.3	1252.8	1178.0	1101.6	1037.1	975.6
2843.5	45°	2830.9	2649.0	1834.0	1310.3	1194.6	1148.9	1067.8	981.9	908.7	830.0
3227.0	47.5°	3193.1	2891.5	1793.0	1193.8	1084.3	1042.6	969.3	889.8	803.2	726.8
3781.3	50°	3690.8	3239.6	1755.2	1080.4	975.6	944.1	885.9	804.8	717.4	655.9
4431.0	52.5°	4323.9	3712.8	1739.5	970.9	874.1	862.3	815.8	740.2	657.5	605.5
5188.5	55°	5050.7	4279.0	1739.5	866.2	785.1	789.0	756.7	686.7	615.0	568.5
5969.6	57.5°	5792.5	4852.3	1708.0	769.3	709.5	726.0	705.6	644.1	579.6	531.5
6790.9	60°	6476.0	5332.6	1580.4	681.1	642.6	668.5	655.2	602.4	523.7	483.5
7477.6	62.5°	7001.2	5603.5	1334.7	611.1	587.4	617.4	610.3	547.3	513.4	496.9
8041.4	65°	7264.2	5559.4	1020.5	548.9	541.0	587.4	572.5	570.1	543.3	524.4
8224.9	67.5°	7102.8	5179.8	740.2	503.2	514.2	559.9	617.4	626.8	577.2	540.2
7708.3	70°	6394.9	4493.2	551.2	459.9	480.3	560.7	704.0	655.9	566.2	522.9
6182.3	72.5°	4864.9	3350.6	427.6	414.2	436.2	564.6	742.6	642.6	534.7	578.0
3851.4	75°	2782.1	1839.5	343.3	358.3	381.1	527.6	722.9	607.9	510.3	530.7
1526.1	77.5°	1060.7	707.1	283.5	303.2	306.3	460.7	691.4	605.5	485.9	474.0
457.5	80°	367.7	276.4	234.7	241.0	237.0	409.5	663.0	526.8	397.7	355.9
189.0	82.5°	150.4	137.8	185.8	178.0	168.5	318.1	535.5	430.7	325.2	287.4
91.3	85°	65.4	87.4	122.8	107.9	97.6	220.5	429.2	364.6	274.8	237.0
29.9	87.5°	13.4	33.1	52.0	48.8	50.4	147.3	304.7	259.1	194.5	145.7
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>
1508.0
1504.0
1533.2
1582.8
1638.7
1690.7
1726.1
1746.6
1758.4
1759.2
1747.3
1726.9
1686.7
1612.7
1492.2
1333.1
1150.5
970.1
820.5
718.2
652.0
601.6
563.8
523.7
477.2
491.4
518.1
533.9
515.8
573.3
530.7
432.3
344.1
284.3
236.2
114.2
0.0

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