

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: P939847

Luminaire Tested: **GALN-SB2C-850-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939847
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2C-850-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14335 lumens
Efficiency: N/A
Efficacy: 142.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

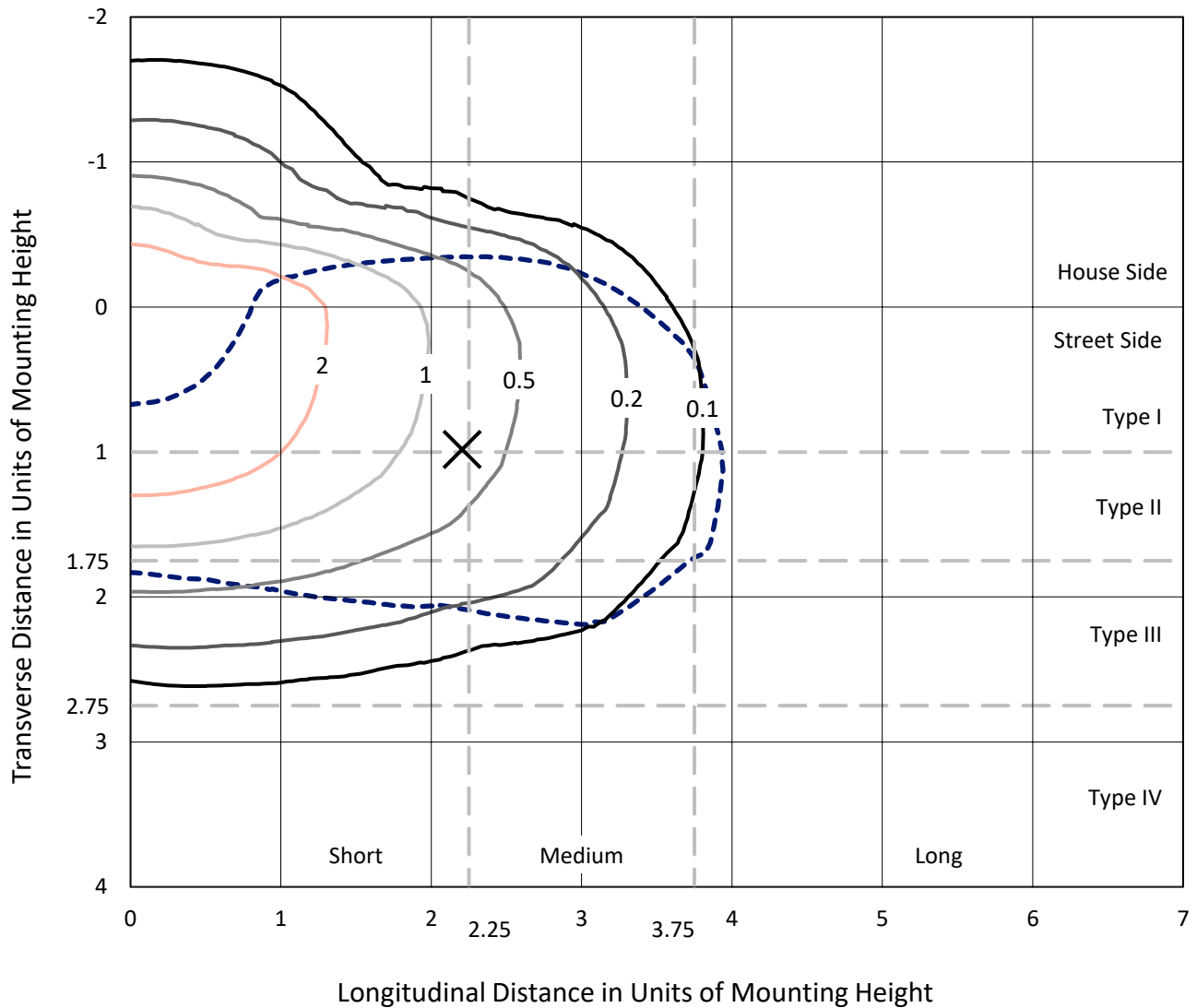
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

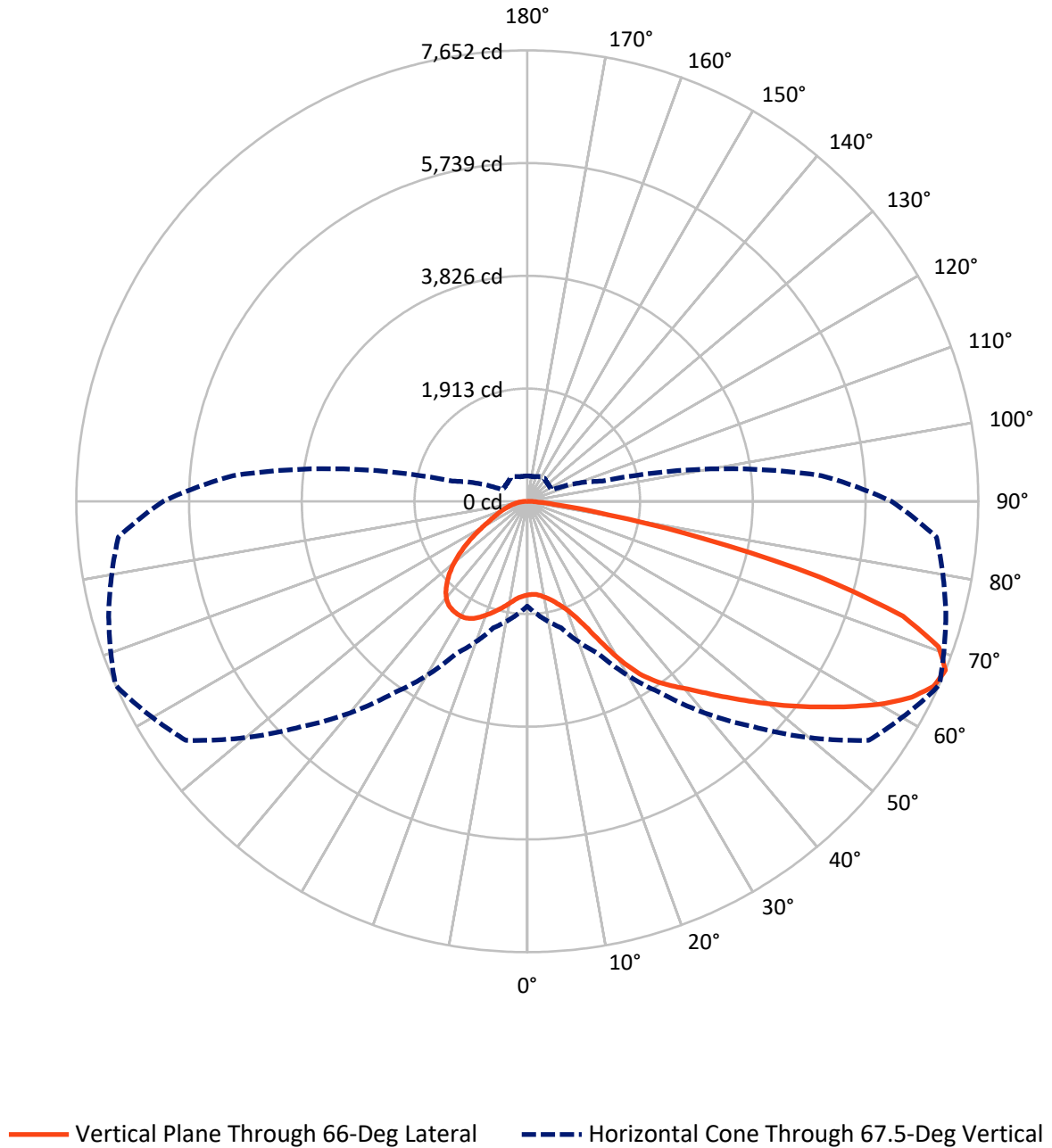
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3564.4	0.0	3564.4
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	10770.6	0.0	10770.6
	% Fixture	75.1	0.0	75.1
Total	Lumens	14335.0	0.0	14335.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.6	1.1
10°-20°	520.8	3.6
20°-30°	1003.8	7.0
30°-40°	1760.1	12.3
40°-50°	2616.7	18.3
50°-60°	3316.9	23.1
60°-70°	3245.5	22.6
70°-80°	1548.1	10.8
80°-90°	165.5	1.2
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°	14335.0	100.0
0°-180°	14335.0	100.0

Coefficient of Utilization



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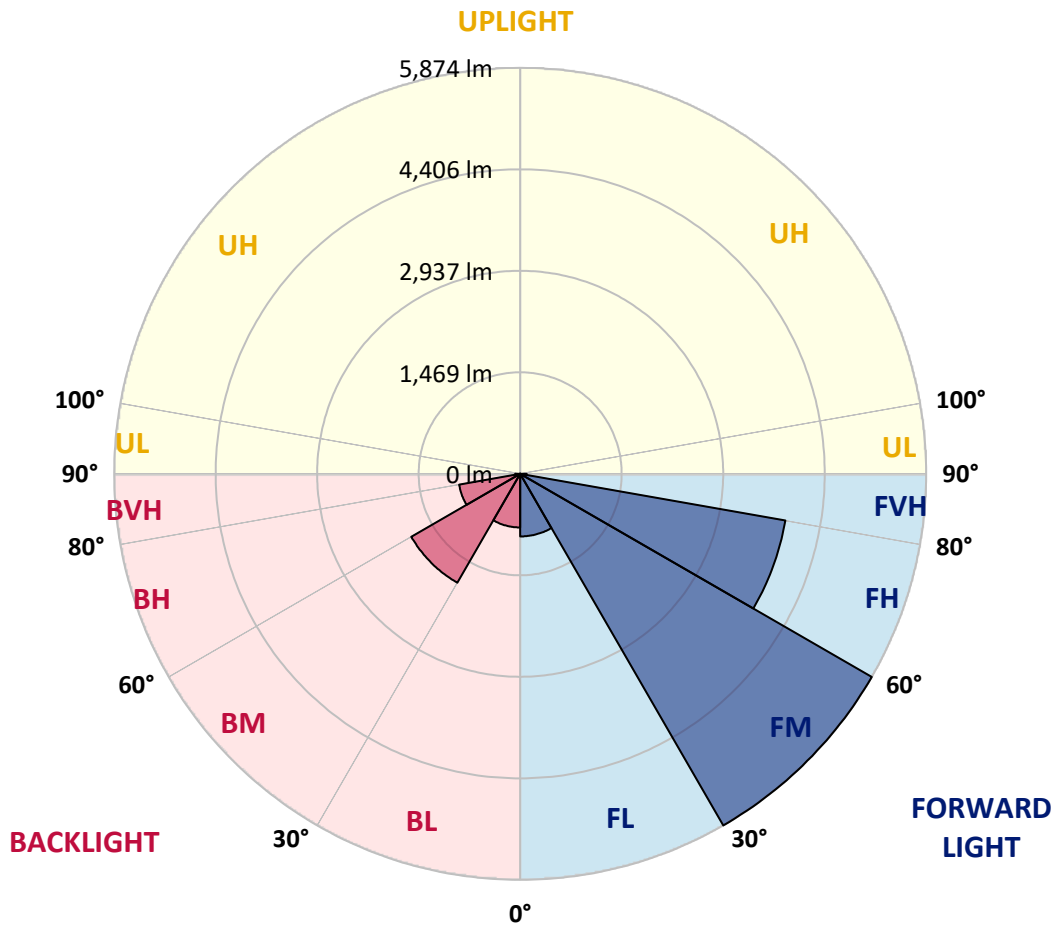
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	905.8	6.3			
FM (30°-60°)	5874.4	41.0			
FH (60°-80°)	3896.6	27.2			G2/5000
FVH (80°-90°)	93.8	0.7			G1/100
BL (0°-30°)	776.4	5.4	B2/1000		
BM (30°-60°)	1819.3	12.7	B2/2500		
BH (60°-80°)	897.0	6.3	B2/1000		G2/1000
BVH (80°-90°)	71.7	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	1589.9	1589.9	1589.9	1589.9	1589.9	1589.9	1589.9	1589.9	1589.9	1589.9
2.5°	1573.4	1582.4	1580.1	1576.4	1575.6	1577.1	1579.4	1581.7	1580.9	1584.7
5°	1568.9	1577.9	1577.1	1577.1	1580.1	1586.2	1589.9	1593.7	1589.9	1594.5
7.5°	1571.9	1578.6	1581.7	1584.7	1592.2	1603.5	1612.5	1620.8	1616.3	1621.6
10°	1610.3	1615.5	1618.6	1618.6	1623.8	1636.6	1645.7	1660.7	1657.0	1665.3
12.5°	1680.3	1685.6	1685.6	1682.6	1686.3	1694.6	1697.6	1714.2	1707.4	1721.0
15°	1766.2	1776.7	1768.4	1763.2	1764.7	1773.0	1772.2	1785.0	1778.2	1789.5
17.5°	1861.1	1874.6	1861.1	1860.3	1857.3	1866.4	1867.1	1878.4	1866.4	1874.6
20°	1973.3	1992.1	1980.8	1984.6	1977.8	1981.6	1985.4	2001.9	1983.1	1989.1
22.5°	2131.5	2154.1	2142.0	2156.3	2151.8	2148.8	2148.0	2177.4	2148.0	2150.3
25°	2361.9	2389.1	2368.0	2387.5	2387.5	2397.3	2408.6	2446.3	2397.3	2383.0
27.5°	2702.4	2729.5	2688.1	2700.1	2696.3	2720.4	2708.4	2801.8	2749.1	2725.7
30°	3112.1	3160.3	3082.0	3079.0	3075.2	3113.6	3130.9	3192.7	3139.2	3115.9
32.5°	3555.0	3605.4	3512.0	3484.9	3470.6	3494.0	3479.6	3529.4	3492.4	3456.3
35°	4023.4	4073.1	3984.3	3931.5	3874.3	3825.3	3774.1	3786.9	3752.3	3697.3
37.5°	4466.3	4557.4	4463.3	4406.8	4301.4	4205.7	4062.6	4003.1	3970.7	3920.2
40°	4917.4	4969.4	4897.9	4849.7	4735.2	4585.3	4356.3	4230.6	4186.9	4137.9
42.5°	5249.6	5299.3	5260.9	5227.7	5138.1	4964.1	4668.1	4510.7	4447.5	4392.5
45°	5513.2	5550.1	5526.0	5538.1	5499.6	5330.9	4991.3	4811.2	4745.7	4678.7
47.5°	5619.4	5658.6	5697.0	5768.5	5834.1	5709.8	5338.5	5136.6	5067.3	4998.8
50°	5607.3	5647.3	5758.7	5910.9	6114.2	6072.8	5704.5	5483.1	5419.1	5340.7
52.5°	5510.9	5556.1	5699.2	5952.3	6276.2	6344.7	6077.3	5840.8	5780.6	5687.2
55°	5257.9	5285.0	5499.6	5858.2	6314.6	6534.5	6442.6	6221.9	6161.7	6031.4
57.5°	4788.7	4827.8	5140.4	5604.3	6218.2	6663.3	6763.5	6622.6	6564.6	6377.1
60°	4176.3	4238.8	4596.6	5178.0	5972.6	6662.5	7054.9	7016.5	6968.3	6717.5
62.5°	3483.4	3555.7	3899.9	4575.5	5543.3	6473.5	7237.2	7346.4	7321.6	7031.6
65°	2675.3	2725.0	3067.7	3796.0	4875.3	6067.5	7258.3	7571.6	7576.1	7270.3
67.5°	1781.2	1924.3	2221.9	2848.5	3980.5	5404.0	7073.0	7608.5	7652.2	7352.4
70°	869.2	1057.5	1348.9	1851.3	2848.5	4386.5	6588.7	7305.7	7402.9	7112.9
72.5°	360.8	421.8	580.7	913.6	1635.1	2960.0	5615.6	6484.8	6664.8	6302.5
75°	243.3	263.6	332.1	468.5	744.9	1459.6	4049.8	4835.3	5125.3	4760.0
77.5°	187.5	200.3	241.8	327.6	442.9	552.1	2167.6	2914.0	3063.9	2836.4
80°	147.6	157.4	180.8	238.8	314.1	295.2	738.9	1320.3	1406.9	1180.2
82.5°	128.0	131.8	129.5	161.9	208.6	172.5	242.5	487.3	537.8	390.1
85°	92.6	103.2	107.7	100.2	110.7	87.4	99.4	172.5	189.8	169.5
87.5°	37.7	55.7	68.5	64.8	40.7	24.9	30.9	50.5	58.0	63.3
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°
1589.9	0°	1589.9	1589.9	1589.9	1589.9	1589.9	1589.9	1589.9	1589.9	1589.9	1589.9
1590.7	2.5°	1591.4	1596.7	1600.5	1605.0	1608.0	1612.5	1621.6	1626.8	1627.6	1631.4
1602.7	5°	1605.8	1613.3	1621.6	1633.6	1647.2	1658.5	1675.8	1687.9	1692.4	1696.1
1632.1	7.5°	1636.6	1647.2	1662.2	1683.3	1702.9	1718.0	1739.1	1753.4	1767.7	1773.0
1678.8	10°	1682.6	1697.6	1719.5	1748.1	1769.2	1788.8	1810.6	1822.7	1837.0	1843.0
1734.5	12.5°	1739.8	1755.6	1784.3	1824.2	1843.8	1857.3	1864.8	1861.8	1864.8	1870.1
1801.6	15°	1805.3	1822.7	1855.1	1898.0	1911.5	1899.5	1882.9	1867.9	1865.6	1867.1
1882.9	17.5°	1882.9	1895.7	1933.4	1969.5	1959.7	1910.0	1873.9	1849.8	1837.7	1834.0
1986.9	20°	1991.4	1991.4	2022.3	2044.9	1979.3	1895.0	1838.5	1799.3	1774.5	1763.9
2128.5	22.5°	2123.2	2111.1	2130.7	2114.9	1975.6	1852.8	1774.5	1706.7	1669.0	1654.0
2326.5	25°	2290.4	2276.1	2270.8	2172.9	1948.4	1785.8	1658.5	1576.4	1543.2	1535.0
2612.0	27.5°	2542.7	2506.5	2438.0	2204.5	1898.7	1680.3	1522.9	1446.8	1428.0	1428.8
2978.8	30°	2878.6	2806.3	2638.4	2209.8	1817.4	1531.2	1384.3	1330.1	1321.1	1324.8
3286.8	32.5°	3189.7	3121.1	2843.2	2185.7	1692.4	1385.1	1260.1	1223.9	1210.3	1214.9
3521.8	35°	3433.7	3414.9	3033.0	2151.8	1538.7	1248.0	1148.6	1117.7	1091.3	1085.3
3743.3	37.5°	3664.2	3656.6	3175.4	2104.4	1386.6	1150.8	1059.0	1018.3	979.9	958.8
3988.0	40°	3917.2	3909.7	3268.8	2031.3	1251.8	1066.5	978.4	924.9	877.4	839.0
4265.2	42.5°	4201.9	4157.5	3313.2	1926.6	1137.3	994.9	912.8	840.5	778.0	742.6
4578.5	45°	4513.0	4412.8	3312.4	1793.3	1040.9	929.4	842.8	740.4	682.4	649.2
4900.1	47.5°	4842.9	4656.8	3271.8	1645.7	947.5	857.1	734.3	656.0	617.6	597.3
5249.6	50°	5183.3	4885.1	3202.5	1476.2	851.8	775.0	666.6	613.1	583.7	564.9
5596.0	52.5°	5503.4	5092.2	3118.9	1284.2	754.7	695.2	636.4	595.0	564.1	543.0
5932.0	55°	5800.9	5270.7	3000.6	1087.6	675.6	641.7	622.1	587.5	552.1	527.2
6273.1	57.5°	6065.3	5386.7	2796.5	903.1	619.1	604.8	607.1	574.7	534.0	512.9
6609.1	60°	6285.2	5471.8	2494.5	732.1	573.2	568.6	583.7	550.6	503.1	479.0
6893.0	62.5°	6417.0	5470.3	2123.9	599.5	534.0	535.5	552.8	520.4	472.2	449.6
7041.4	65°	6405.7	5336.2	1717.2	512.9	496.3	497.8	520.4	487.3	446.6	433.1
6966.8	67.5°	6179.0	5009.3	1317.3	456.4	454.9	461.7	488.1	464.7	430.8	429.3
6522.4	70°	5565.2	4330.7	949.0	411.2	412.0	421.8	456.4	450.4	422.5	425.5
5483.8	72.5°	4462.5	3301.9	637.2	363.8	364.5	380.4	426.3	439.1	414.2	454.2
3890.9	75°	2972.0	2059.2	409.7	313.3	314.1	334.4	399.9	417.3	391.6	452.7
2024.5	77.5°	1428.0	925.6	296.7	263.6	263.6	282.4	345.7	373.6	333.7	351.7
650.7	80°	493.3	348.0	233.5	212.4	207.9	220.7	291.5	323.9	287.7	265.1
212.4	82.5°	194.3	180.8	187.5	164.9	149.9	158.2	226.7	267.4	211.6	191.3
119.8	85°	111.5	117.5	132.6	109.2	86.6	97.2	166.5	192.1	159.7	140.8
39.2	87.5°	30.1	41.4	61.0	56.5	39.2	41.4	79.1	106.2	91.9	70.8
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>
1589.9
1630.6
1695.4
1773.7
1846.0
1871.6
1872.4
1839.2
1761.7
1651.7
1536.5
1431.0
1337.6
1220.9
1089.8
959.5
842.8
744.9
647.7
592.7
558.1
534.0
517.4
499.4
468.5
442.9
432.3
431.6
424.8
460.2
456.4
322.4
248.5
190.6
143.9
73.1
0.0

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