

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: P946432

Luminaire Tested: **GALN-SB2A-830-U-SL2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946432  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB2A-830-U-SL2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

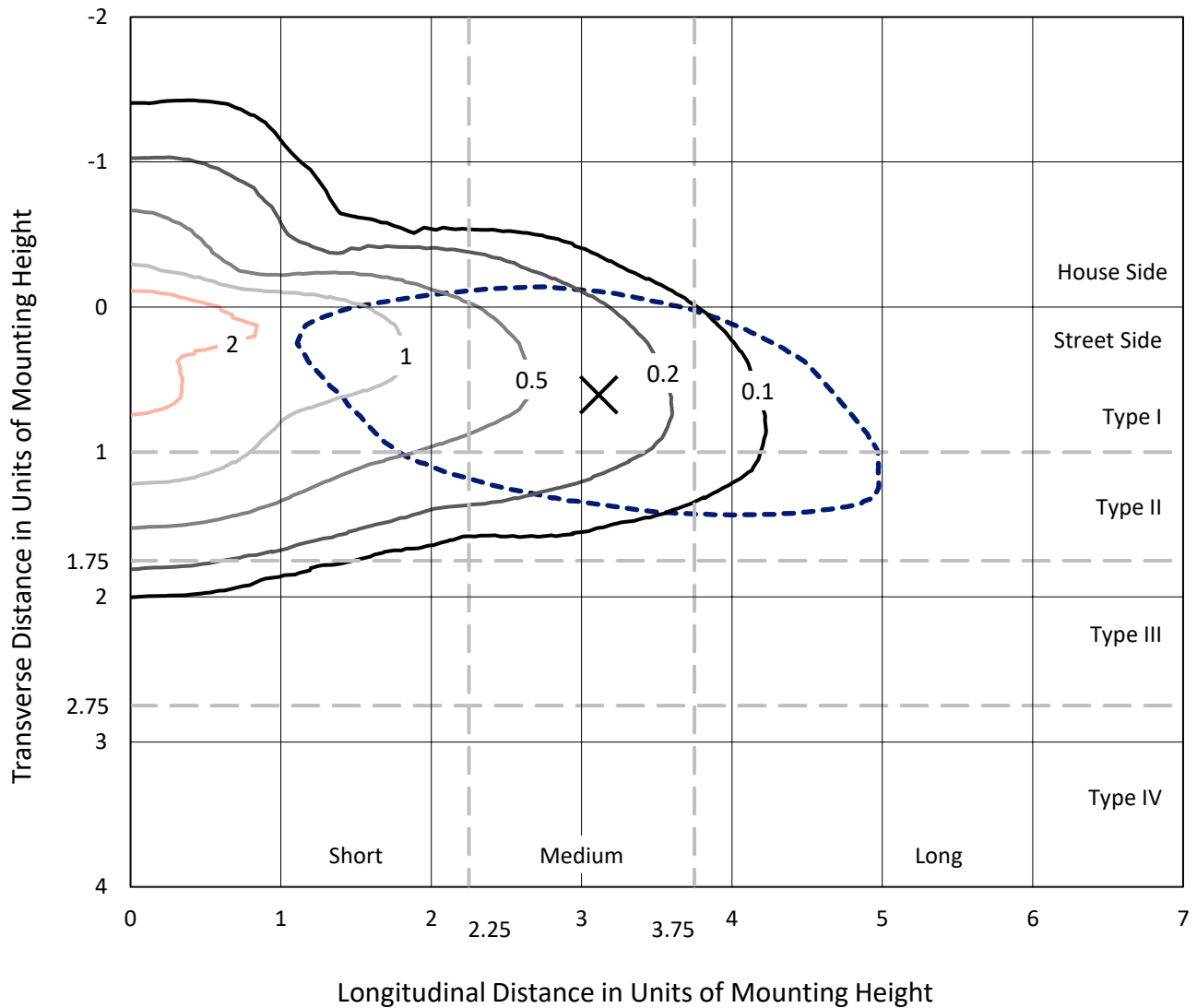
Lumens per Lamp: N/A  
Luminaire Lumens: 8012 lumens  
Efficiency: N/A  
Efficacy: 139.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 57.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

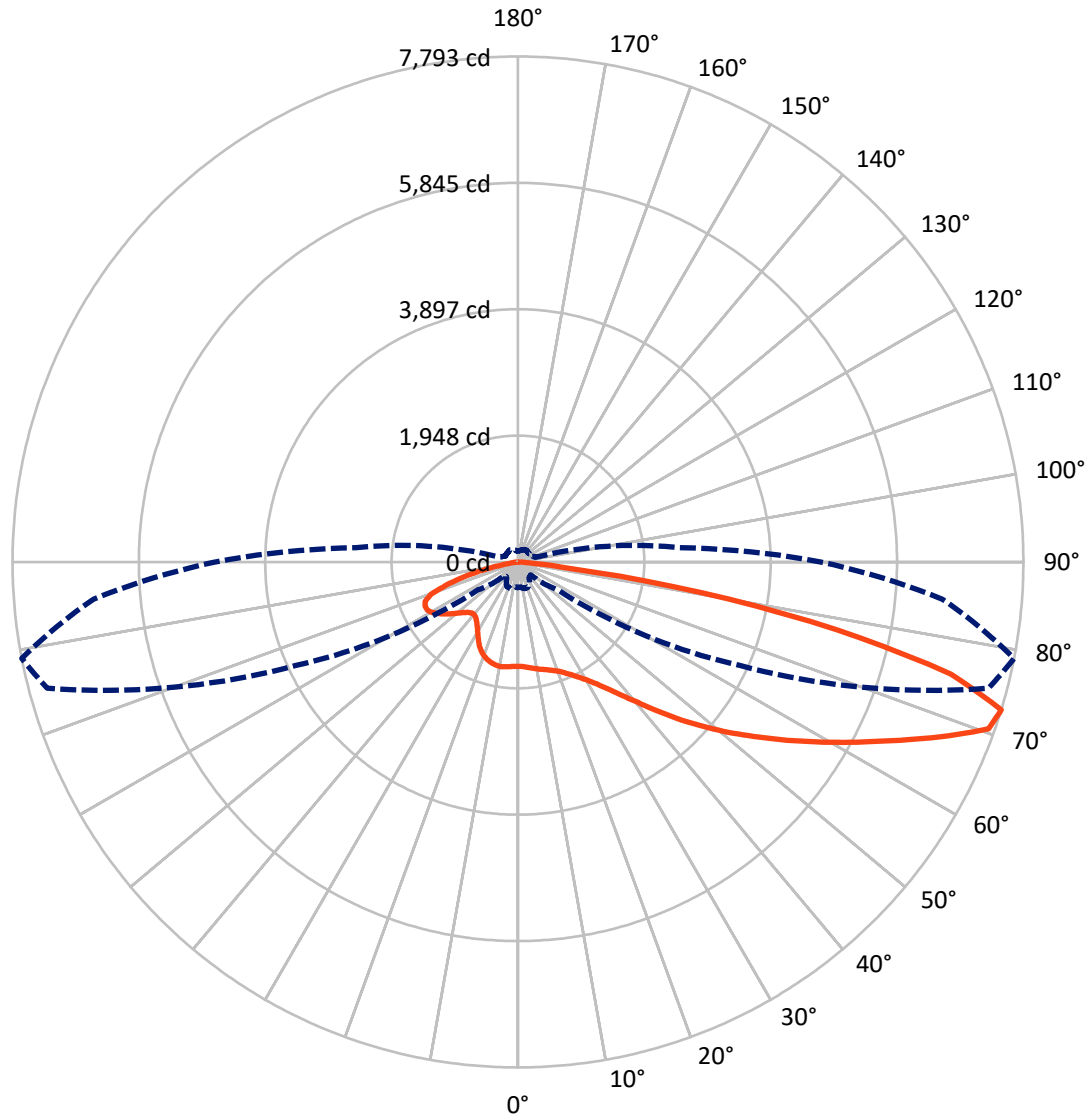
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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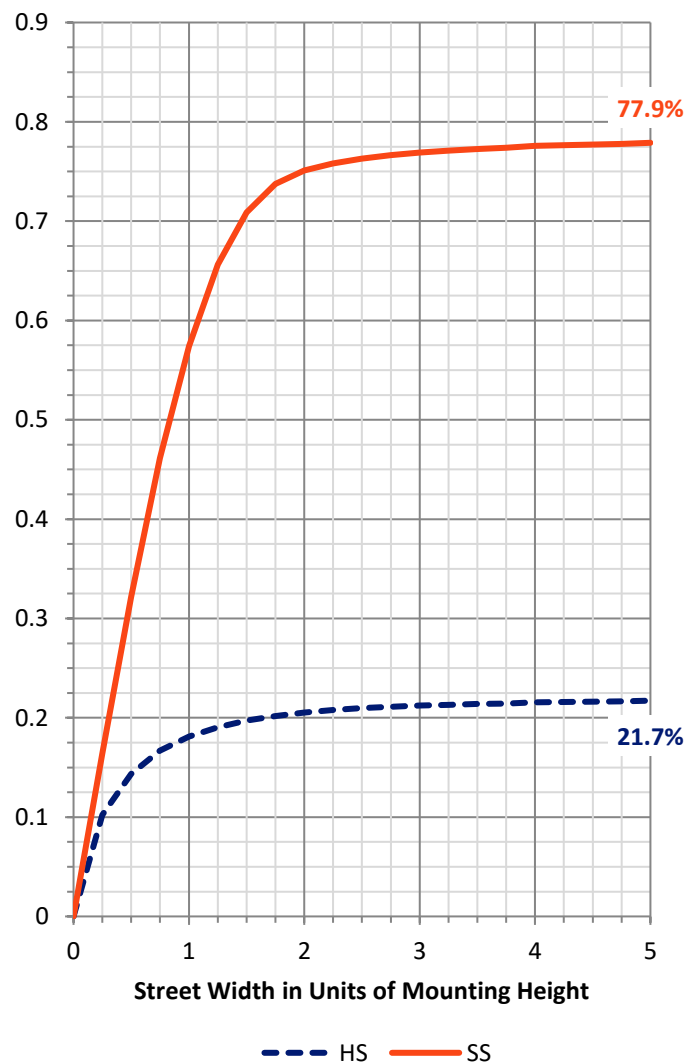
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1763.1	0.0	1763.1
	% Fixture	22.0	0.0	22.0
<b>Street Side</b>	Lumens	6248.9	0.0	6248.9
	% Fixture	78.0	0.0	78.0
<b>Total</b>	Lumens	8012.0	0.0	8012.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	146.0	1.8
10°-20°	381.7	4.8
20°-30°	615.9	7.7
30°-40°	924.4	11.5
40°-50°	1311.3	16.4
50°-60°	1656.0	20.7
60°-70°	1681.8	21.0
70°-80°	1146.3	14.3
80°-90°	148.7	1.9
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°	8012.0	100.0
0°-180°	8012.0	100.0

**Coefficient of Utilization**



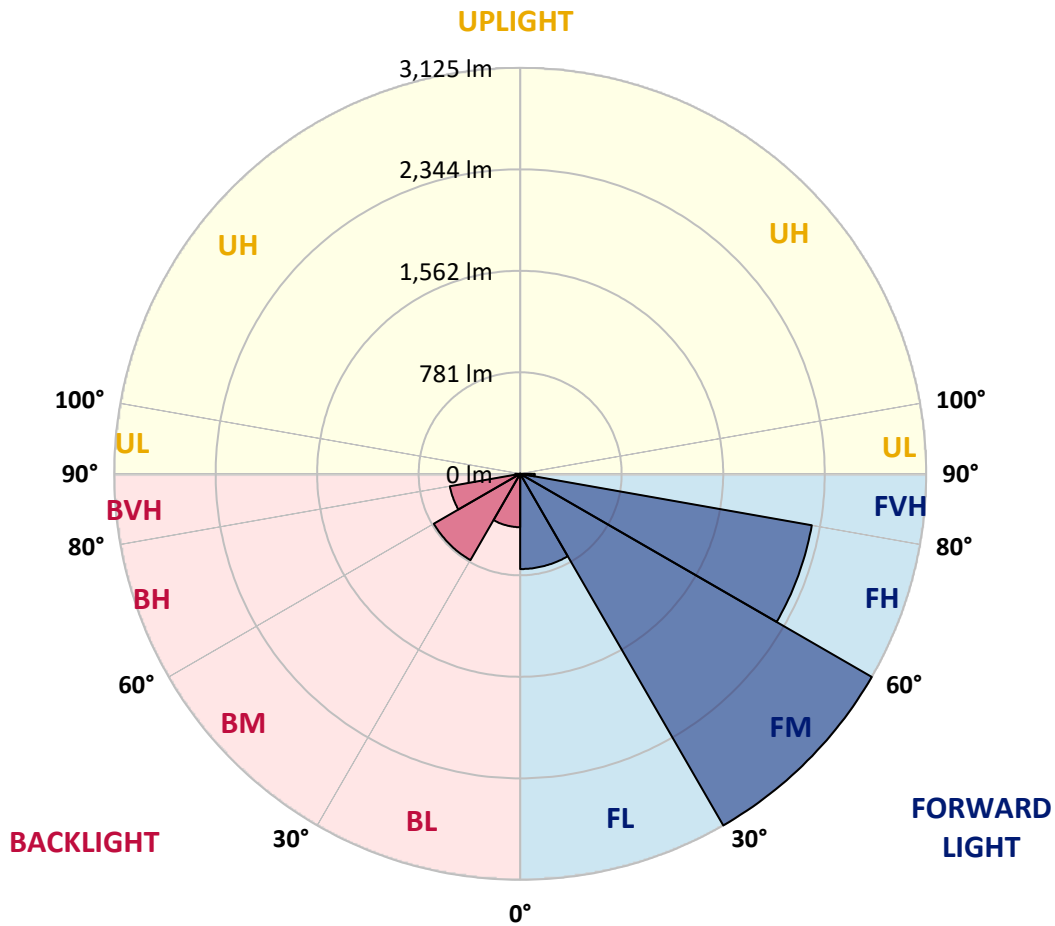
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	732.9	9.1			
FM (30°-60°)	3124.8	39.0			
FH (60°-80°)	2279.1	28.4			G2/5000
FVH (80°-90°)	112.0	1.4			G2/225
BL (0°-30°)	410.7	5.1	B1/500		
BM (30°-60°)	766.8	9.6	B1/1000		
BH (60°-80°)	549.0	6.9	B2/1000		G2/1000
BVH (80°-90°)	36.7	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 II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	1608.3	1608.3	1608.3	1608.3	1608.3	1608.3	1608.3	1608.3	1608.3	1608.3
2.5°	1609.2	1601.6	1606.2	1604.5	1606.6	1609.2	1610.0	1611.3	1615.5	1615.1
5°	1605.8	1598.2	1604.5	1602.4	1607.9	1613.8	1618.9	1623.6	1630.4	1633.3
7.5°	1598.6	1593.5	1599.9	1606.2	1616.4	1625.3	1632.5	1643.1	1652.8	1654.5
10°	1556.6	1552.8	1567.6	1584.2	1612.1	1636.3	1652.0	1664.3	1674.9	1676.6
12.5°	1513.0	1508.3	1524.8	1547.3	1592.7	1636.3	1669.4	1685.5	1694.8	1700.3
15°	1505.8	1502.0	1511.3	1530.8	1568.5	1624.9	1681.2	1710.9	1718.9	1725.3
17.5°	1540.5	1533.3	1537.1	1543.9	1566.0	1614.3	1690.6	1739.7	1752.0	1758.8
20°	1621.0	1610.9	1604.9	1591.4	1587.6	1616.0	1689.7	1774.5	1790.6	1799.0
22.5°	1728.3	1721.5	1708.8	1674.4	1637.2	1636.7	1705.8	1819.0	1849.1	1857.1
25°	1858.0	1847.8	1831.7	1785.1	1713.4	1677.8	1732.9	1875.8	1926.2	1928.3
27.5°	2007.1	1991.9	1969.8	1908.4	1811.8	1742.3	1774.5	1941.0	2014.8	2013.9
30°	2164.4	2149.1	2125.8	2051.2	1929.6	1829.1	1832.1	2011.4	2119.9	2115.2
32.5°	2279.2	2267.8	2263.1	2205.5	2065.2	1931.7	1898.2	2089.3	2249.5	2245.3
35°	2367.4	2352.5	2358.0	2328.8	2213.1	2046.5	1979.2	2182.2	2407.2	2406.8
37.5°	2454.7	2441.5	2446.2	2426.7	2350.0	2192.3	2077.9	2295.7	2602.6	2611.9
40°	2534.3	2520.4	2539.0	2520.8	2456.4	2347.4	2190.2	2424.2	2828.9	2846.7
42.5°	2582.2	2571.2	2602.2	2602.6	2548.8	2478.4	2313.5	2565.7	3090.8	3130.6
45°	2598.8	2594.9	2641.6	2651.3	2630.5	2554.3	2424.6	2720.0	3373.0	3444.2
47.5°	2581.0	2573.8	2638.2	2674.2	2690.7	2589.9	2516.5	2886.9	3661.2	3765.5
50°	2491.1	2477.1	2572.9	2648.8	2707.7	2613.2	2609.4	3079.8	3988.8	4102.8
52.5°	2329.6	2319.1	2428.0	2559.8	2670.4	2624.6	2713.6	3290.4	4299.9	4447.4
55°	2123.3	2109.3	2229.2	2401.3	2577.6	2620.8	2817.9	3526.0	4666.9	4816.5
57.5°	1796.1	1768.1	1919.8	2123.3	2426.3	2616.1	2926.4	3760.4	5039.9	5219.1
60°	1318.9	1277.3	1463.4	1704.5	2130.5	2570.8	3060.7	4023.2	5487.4	5648.9
62.5°	767.9	743.8	865.4	1090.4	1605.8	2303.8	3136.1	4328.7	5927.3	6096.8
65°	596.3	589.5	600.1	617.5	893.8	1724.9	2903.5	4626.7	6486.7	6605.4
67.5°	545.4	540.3	545.0	512.4	453.5	960.8	2297.0	4702.1	7086.0	7158.0
70°	484.8	478.9	494.2	466.2	356.8	436.9	1484.2	4428.3	7562.8	7698.0
72.5°	395.0	388.2	423.8	411.1	300.5	280.6	745.5	3777.8	7512.8	7793.3
75°	303.4	299.6	342.0	352.6	245.0	220.8	357.7	2808.1	6611.3	6894.0
77.5°	235.6	232.7	254.3	292.8	197.5	171.2	220.0	1781.2	4982.2	5031.8
80°	176.7	168.2	188.2	226.7	153.8	125.0	149.2	1038.7	3149.3	2854.7
82.5°	110.6	106.4	122.9	151.3	108.5	86.0	97.1	573.8	1262.1	743.4
85°	63.1	61.5	67.0	86.5	58.9	49.6	55.5	253.4	230.5	158.5
87.5°	25.4	24.6	30.5	38.6	21.6	18.2	19.5	61.0	50.9	47.0
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°
1608.3	0°	1608.3	1608.3	1608.3	1608.3	1608.3	1608.3	1608.3	1608.3	1608.3	1608.3
1614.7	2.5°	1613.0	1613.0	1607.1	1597.7	1587.1	1580.4	1569.3	1566.4	1554.9	1551.5
1629.1	5°	1632.5	1629.1	1610.9	1584.6	1548.6	1515.5	1479.1	1456.2	1424.0	1412.5
1657.5	7.5°	1657.1	1647.7	1616.4	1558.7	1483.3	1409.1	1332.0	1273.5	1217.6	1197.7
1680.8	10°	1679.5	1666.4	1613.0	1512.1	1381.6	1253.2	1130.3	1044.3	979.0	952.3
1706.7	12.5°	1702.0	1677.8	1590.5	1434.6	1237.1	1062.9	931.9	865.0	824.7	792.5
1727.8	15°	1723.2	1689.3	1555.8	1330.7	1078.6	901.9	805.2	751.8	719.6	698.4
1758.8	17.5°	1747.8	1699.0	1503.7	1198.9	927.7	790.4	711.6	679.4	673.0	670.5
1801.2	20°	1782.1	1707.9	1435.0	1051.5	816.7	701.4	660.7	657.7	657.3	656.0
1852.0	22.5°	1819.0	1718.5	1344.3	917.5	722.2	645.9	638.7	632.7	628.9	628.5
1913.5	25°	1862.6	1721.9	1230.7	807.8	641.6	619.6	611.1	602.2	599.7	599.7
1983.4	27.5°	1905.0	1710.5	1098.5	712.4	596.3	595.4	584.4	581.5	581.0	582.3
2063.1	30°	1947.4	1688.9	967.1	624.3	570.0	570.0	566.2	568.3	570.0	574.3
2172.4	32.5°	2004.6	1666.0	857.4	559.0	547.1	542.9	546.7	550.9	552.6	558.1
2316.1	35°	2088.5	1649.9	770.1	523.4	523.4	517.9	520.0	519.2	515.3	512.8
2489.8	37.5°	2199.5	1649.0	698.0	506.9	503.5	502.6	503.1	497.5	482.7	464.9
2700.0	40°	2333.0	1671.9	642.5	495.4	492.9	498.0	495.4	480.6	439.9	409.0
2958.6	42.5°	2512.3	1737.2	606.9	481.4	489.1	495.4	485.3	434.0	406.4	385.7
3253.1	45°	2723.4	1843.1	588.7	466.6	481.9	489.5	440.3	417.9	395.8	370.8
3574.4	47.5°	2962.4	1976.6	584.4	452.6	465.8	470.4	421.3	411.1	386.1	359.0
3897.3	50°	3222.6	2134.7	595.9	436.1	442.5	426.3	414.9	405.6	379.7	353.0
4228.3	52.5°	3491.7	2308.9	618.8	413.6	419.1	401.3	412.4	404.3	375.9	339.9
4570.3	55°	3756.2	2484.3	640.8	387.4	395.4	378.9	405.2	399.2	358.5	317.9
4935.2	57.5°	4024.9	2658.9	662.4	364.0	372.5	357.3	393.7	385.7	339.0	297.5
5333.6	60°	4304.1	2828.5	672.6	341.6	347.5	337.3	376.3	362.4	317.0	276.7
5725.2	62.5°	4565.6	2969.6	656.0	319.1	322.9	318.7	353.5	334.8	295.0	253.4
6133.3	65°	4828.0	3053.5	605.2	297.1	297.9	295.8	321.2	305.1	269.1	233.1
6490.5	67.5°	5065.7	3100.5	524.2	273.4	271.2	270.4	291.2	272.9	244.1	212.7
6762.2	70°	5116.2	2981.0	400.5	245.4	245.4	243.3	258.1	239.4	216.6	191.1
6567.7	72.5°	4672.9	2507.6	284.4	213.6	217.0	212.7	225.0	209.4	188.6	171.6
5660.3	75°	3768.0	1838.9	206.8	181.0	186.9	179.7	191.1	180.1	162.3	161.9
3900.7	77.5°	2589.0	1137.1	150.0	149.2	153.4	144.1	157.2	151.3	135.2	128.0
1697.8	80°	1104.9	453.5	109.3	115.3	115.3	106.8	122.1	123.8	109.8	106.4
327.6	82.5°	220.0	128.8	76.7	79.3	74.6	72.0	86.5	95.8	132.2	147.1
98.7	85°	66.1	47.5	46.2	43.2	38.1	38.6	50.9	96.2	118.7	67.8
32.6	87.5°	18.2	11.9	12.3	9.7	8.1	10.6	17.4	72.9	39.8	17.0
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>
1608.3
1557.1
1421.0
1200.2
958.2
803.1
702.2
672.2
660.3
633.2
602.2
585.7
577.2
562.8
518.7
465.3
408.1
384.8
369.1
356.8
350.1
337.3
315.7
296.7
275.5
253.0
230.5
210.2
190.3
166.6
145.8
119.9
106.4
147.5
58.5
14.4
0.0

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