

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: P950814

Luminaire Tested: **GALN-SB5A-927-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950814
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-SB5A-927-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13766 lumens
Efficiency: N/A
Efficacy: 97.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

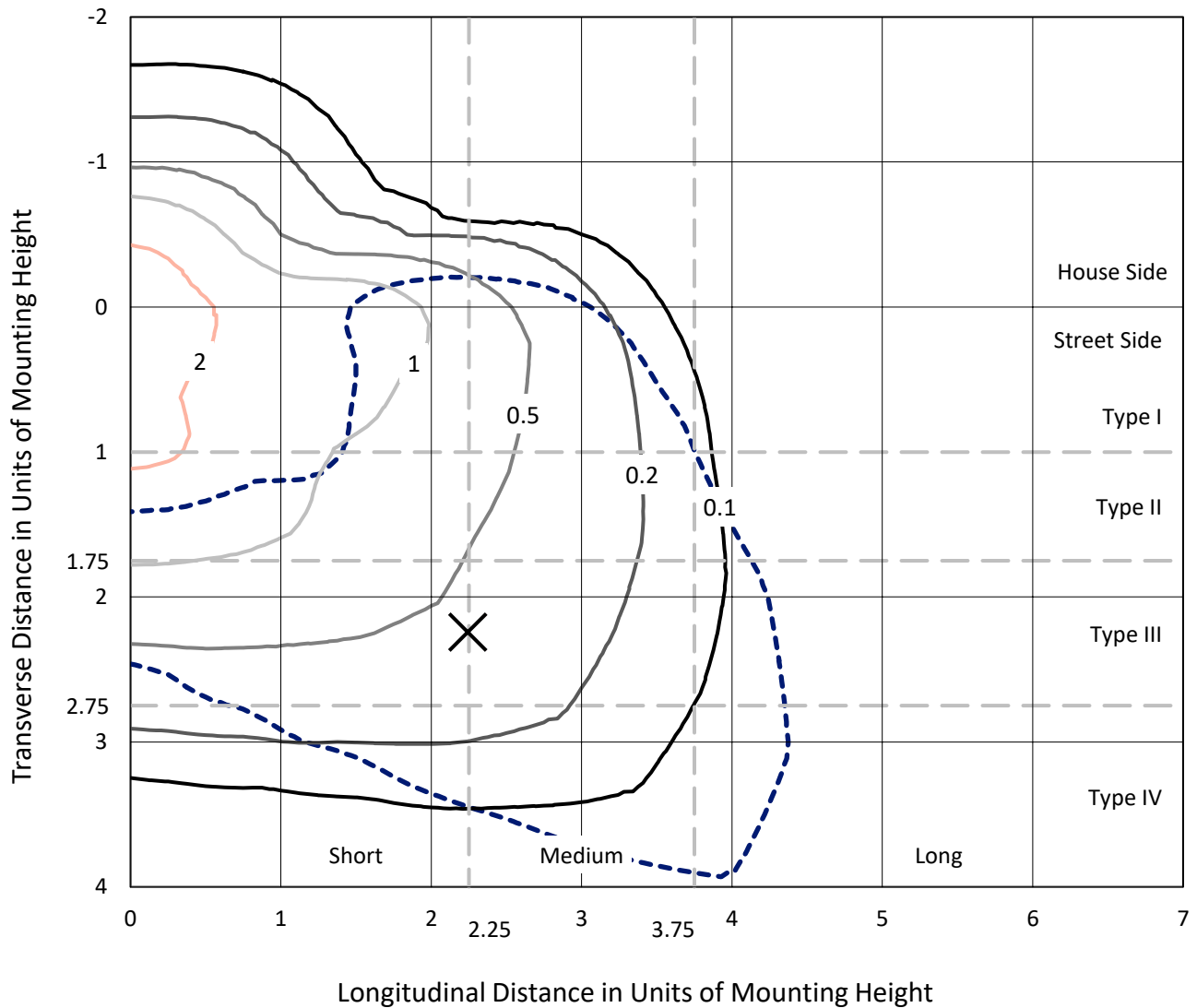
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

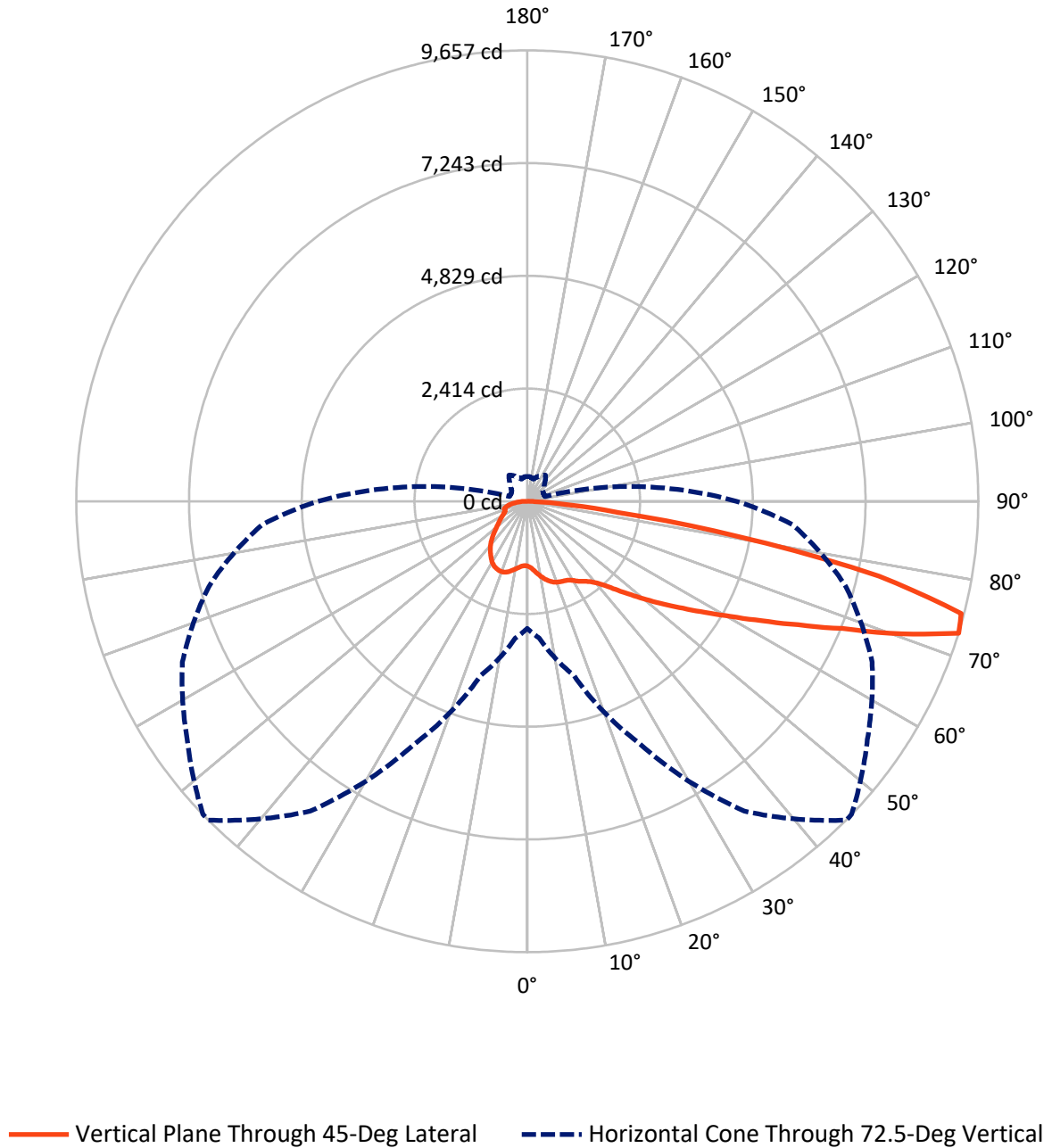
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 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	3112.0	0.0	3112.0
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	10654.0	0.0	10654.0
	% Fixture	77.4	0.0	77.4
Total	Lumens	13766.0	0.0	13766.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.3	1.0
10°-20°	471.3	3.4
20°-30°	819.8	6.0
30°-40°	1175.2	8.5
40°-50°	1654.8	12.0
50°-60°	2534.6	18.4
60°-70°	3671.7	26.7
70°-80°	2932.1	21.3
80°-90°	365.2	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°	13766.0	100.0
0°-180°	13766.0	100.0

Coefficient of Utilization



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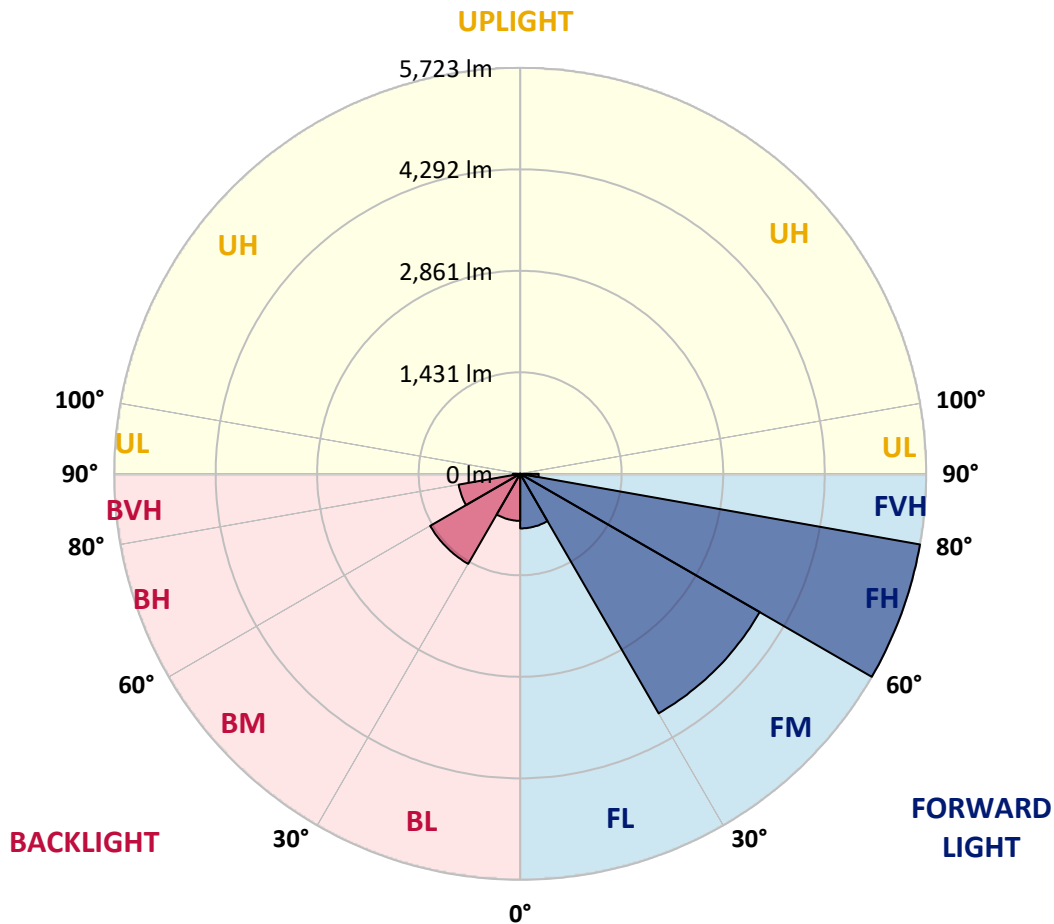
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	769.8	5.6			
FM (30°-60°)	3899.2	28.3			
FH (60°-80°)	5722.9	41.6			G3/7500
FVH (80°-90°)	262.0	1.9			G3/500
BL (0°-30°)	662.6	4.8	B2/1000		
BM (30°-60°)	1465.3	10.6	B2/2500		
BH (60°-80°)	880.9	6.4	B2/1000		G2/1000
BVH (80°-90°)	103.2	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°	1388.7	1388.7	1388.7	1388.7	1388.7	1388.7	1388.7	1388.7	1388.7	1388.7
2.5°	1443.1	1452.5	1443.8	1435.9	1432.2	1422.8	1422.1	1416.3	1412.7	1402.5
5°	1543.9	1556.2	1541.7	1525.8	1511.3	1488.1	1485.2	1468.5	1449.6	1427.9
7.5°	1657.8	1668.6	1652.0	1628.0	1602.6	1564.2	1563.5	1533.0	1503.3	1466.3
10°	1757.1	1771.6	1749.1	1716.5	1684.6	1641.1	1636.0	1601.2	1563.5	1515.6
12.5°	1844.9	1855.0	1833.3	1793.4	1756.4	1712.9	1706.4	1667.9	1625.9	1571.5
15°	1914.5	1927.5	1898.5	1855.7	1816.6	1773.8	1768.0	1733.2	1691.1	1633.8
17.5°	1960.2	1971.0	1941.3	1893.4	1855.7	1820.2	1815.9	1786.8	1749.9	1691.8
20°	1977.6	1989.2	1958.0	1909.4	1874.6	1847.0	1844.9	1823.8	1798.4	1745.5
22.5°	1995.0	2005.9	1965.2	1914.5	1884.0	1866.6	1865.9	1852.1	1842.0	1798.4
25°	2065.3	2068.2	2013.8	1940.6	1897.1	1881.8	1881.1	1880.4	1884.7	1850.7
27.5°	2126.2	2125.5	2079.1	2010.2	1942.8	1910.9	1910.1	1917.4	1931.2	1902.9
30°	2215.4	2207.5	2152.3	2080.5	2018.9	1969.6	1965.2	1958.7	1969.6	1947.1
32.5°	2404.7	2379.3	2290.1	2162.5	2082.0	2044.3	2038.5	1997.9	2002.2	1988.4
35°	2675.9	2642.6	2523.6	2317.7	2160.3	2106.7	2103.7	2052.3	2043.6	2031.2
37.5°	2998.6	2957.3	2818.8	2542.5	2295.2	2179.2	2174.8	2128.4	2092.9	2079.8
40°	3322.8	3270.6	3156.0	2816.6	2493.9	2300.3	2286.5	2216.2	2175.5	2153.8
42.5°	3637.5	3594.0	3496.1	3124.1	2739.0	2477.2	2446.8	2326.4	2295.9	2275.6
45°	3916.0	3876.8	3805.0	3452.6	3026.2	2718.0	2688.2	2491.7	2482.3	2482.3
47.5°	4142.2	4133.5	4057.4	3787.6	3364.8	2992.1	2940.6	2721.6	2747.0	2786.1
50°	4393.1	4369.2	4288.0	4117.6	3763.0	3306.1	3264.0	3003.7	3098.7	3206.0
52.5°	4623.8	4636.8	4546.2	4461.3	4212.6	3656.4	3582.4	3336.6	3541.8	3719.5
55°	4860.9	4861.6	4836.2	4824.6	4683.9	4043.6	3962.4	3736.9	4063.2	4283.6
57.5°	5083.5	5085.0	5122.7	5224.9	5230.7	4490.3	4398.2	4228.5	4642.6	4867.4
60°	5282.2	5292.4	5395.3	5634.7	5711.5	5002.3	4915.3	4809.4	5241.6	5467.9
62.5°	5348.9	5385.9	5615.1	5955.2	6186.5	5630.3	5544.7	5481.6	5871.1	6081.4
65°	5235.8	5320.7	5763.7	6219.9	6675.3	6376.5	6291.7	6222.8	6525.2	6723.2
67.5°	4958.1	5067.6	5755.0	6497.6	7268.5	7274.3	7195.2	7033.5	7226.4	7302.6
70°	4226.4	4390.2	5248.1	6601.3	7949.4	8502.0	8425.9	8009.6	7926.2	7557.8
72.5°	2723.1	2943.5	3864.5	5747.8	8101.0	9657.2	9652.9	8890.7	8147.4	7061.8
75°	993.5	1128.4	1795.5	3607.8	6800.0	9598.5	9626.8	8739.9	7437.5	5454.8
77.5°	361.9	395.9	585.9	1386.5	4182.1	7701.4	7760.2	6987.1	5293.8	2737.6
80°	190.0	208.9	300.2	538.1	1791.9	4573.7	4665.8	4152.4	2488.1	824.5
82.5°	105.2	113.9	168.2	292.2	807.1	1955.8	2010.9	1640.4	875.3	349.5
85°	56.6	60.2	79.0	159.5	394.5	678.0	693.3	490.2	348.8	205.2
87.5°	16.7	20.3	26.1	50.8	154.5	152.3	155.9	97.2	137.8	103.7
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°
1388.7	0°	1388.7	1388.7	1388.7	1388.7	1388.7	1388.7	1388.7	1388.7	1388.7	1388.7
1399.6	2.5°	1395.2	1393.1	1385.1	1381.5	1377.1	1376.4	1380.0	1380.7	1381.5	1382.2
1415.6	5°	1408.3	1401.0	1393.8	1389.4	1390.9	1391.6	1398.9	1404.0	1407.6	1410.5
1445.3	7.5°	1433.7	1427.9	1415.6	1414.8	1417.0	1423.5	1433.0	1444.6	1451.1	1456.2
1483.7	10°	1471.4	1460.5	1446.0	1448.2	1452.5	1462.0	1481.5	1491.0	1501.8	1511.3
1530.9	12.5°	1509.8	1500.4	1483.7	1485.2	1492.4	1509.1	1528.0	1539.6	1546.8	1554.1
1581.6	15°	1559.9	1543.2	1525.1	1525.1	1538.1	1556.2	1564.9	1574.4	1578.7	1586.7
1636.0	17.5°	1611.4	1589.6	1565.7	1564.2	1580.2	1588.9	1593.9	1595.4	1596.8	1605.6
1688.9	20°	1662.8	1638.9	1604.8	1601.9	1605.6	1604.1	1603.4	1601.9	1604.1	1615.0
1743.3	22.5°	1713.6	1686.0	1638.9	1625.9	1615.7	1601.9	1601.2	1600.5	1601.9	1612.8
1802.1	25°	1773.1	1739.7	1676.6	1637.5	1603.4	1584.5	1586.7	1587.4	1588.9	1597.6
1863.0	27.5°	1837.6	1800.6	1711.4	1633.8	1572.2	1559.1	1555.5	1557.7	1562.8	1576.5
1923.9	30°	1902.1	1858.6	1743.3	1619.3	1533.0	1514.9	1503.3	1508.4	1524.3	1538.1
1976.8	32.5°	1960.9	1917.4	1768.7	1587.4	1483.0	1454.7	1439.5	1446.0	1462.0	1467.0
2035.6	35°	2029.8	1980.5	1779.6	1536.7	1428.6	1385.1	1364.8	1355.4	1363.3	1358.3
2104.5	37.5°	2106.7	2055.2	1778.1	1469.9	1364.8	1314.8	1286.5	1250.9	1234.3	1216.9
2206.0	40°	2220.5	2146.5	1760.7	1389.4	1285.7	1240.1	1189.3	1129.1	1091.4	1057.3
2369.9	42.5°	2375.7	2273.4	1728.8	1301.0	1196.5	1153.8	1084.9	1014.5	955.1	898.5
2618.6	45°	2607.0	2439.5	1688.9	1206.7	1100.1	1058.0	983.3	904.3	836.9	764.3
2971.8	47.5°	2940.6	2662.9	1651.2	1099.4	998.6	960.1	892.7	819.5	739.7	669.3
3482.3	50°	3398.9	2983.4	1616.4	994.9	898.5	869.5	815.8	741.1	660.6	604.1
4080.6	52.5°	3982.0	3419.2	1601.9	894.1	805.0	794.1	751.3	681.7	605.5	557.7
4778.2	55°	4651.3	3940.6	1601.9	797.7	723.0	726.6	696.9	632.4	566.4	523.6
5497.6	57.5°	5334.4	4468.6	1572.9	708.5	653.4	668.6	649.8	593.2	533.7	489.5
6254.0	60°	5963.9	4910.9	1455.4	627.3	591.7	615.7	603.4	554.8	482.2	445.3
6886.3	62.5°	6447.6	5160.4	1229.2	562.7	541.0	568.5	562.0	504.0	472.8	457.6
7405.5	65°	6689.8	5119.8	939.8	505.5	498.2	541.0	527.2	525.0	500.4	483.0
7574.5	67.5°	6541.1	4770.2	681.7	463.4	473.5	515.6	568.5	577.2	531.6	497.5
7098.8	70°	5889.2	4137.9	507.6	423.5	442.4	516.3	648.3	604.1	521.4	481.5
5693.4	72.5°	4480.2	3085.6	393.8	381.4	401.8	520.0	683.8	591.7	492.4	532.3
3546.9	75°	2562.1	1694.0	316.2	330.0	351.0	485.9	665.7	559.8	469.9	488.8
1405.4	77.5°	976.8	651.2	261.1	279.2	282.1	424.2	636.7	557.7	447.4	436.6
421.3	80°	338.7	254.5	216.1	221.9	218.3	377.1	610.6	485.1	366.2	327.8
174.0	82.5°	138.5	126.9	171.1	163.9	155.2	293.0	493.1	396.7	299.5	264.7
84.1	85°	60.2	80.5	113.1	99.3	89.9	203.1	395.2	335.8	253.1	218.3
27.6	87.5°	12.3	30.5	47.9	45.0	46.4	135.6	280.6	238.6	179.1	134.2
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>
1388.7
1385.1
1411.9
1457.6
1509.1
1557.0
1589.6
1608.5
1619.3
1620.1
1609.2
1590.3
1553.3
1485.2
1374.2
1227.7
1059.5
893.4
755.6
661.4
600.4
554.0
519.2
482.2
439.5
452.5
477.2
491.7
475.0
527.9
488.8
398.1
316.9
261.8
217.6
105.2
0.0

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