

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: P949445

Luminaire Tested: **GALN-SB4A-940-U-T2U**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949445  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB4A-940-U-T2U  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 90 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

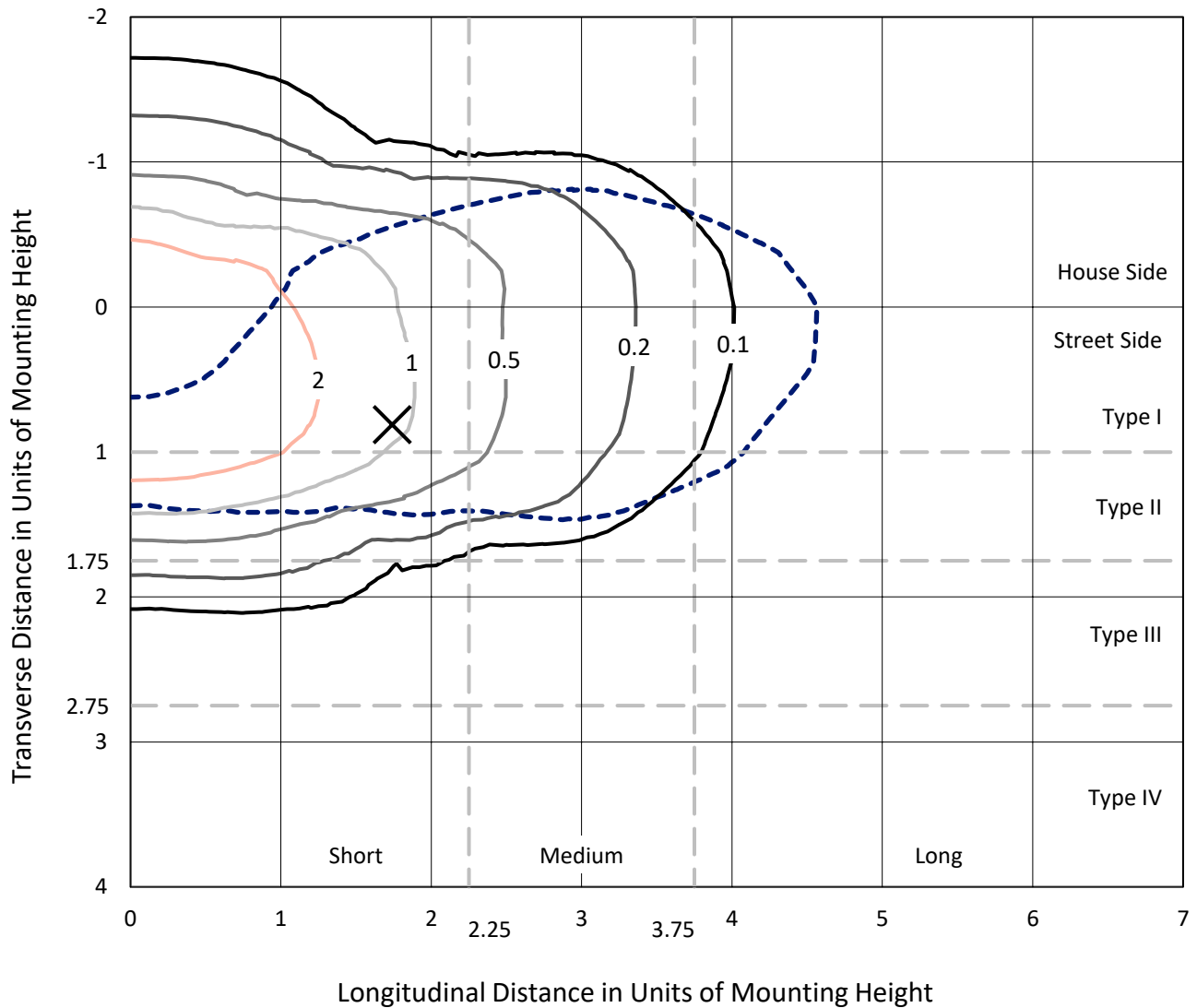
Lumens per Lamp: N/A  
Luminaire Lumens: 13202 lumens  
Efficiency: N/A  
Efficacy: 115.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 114  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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

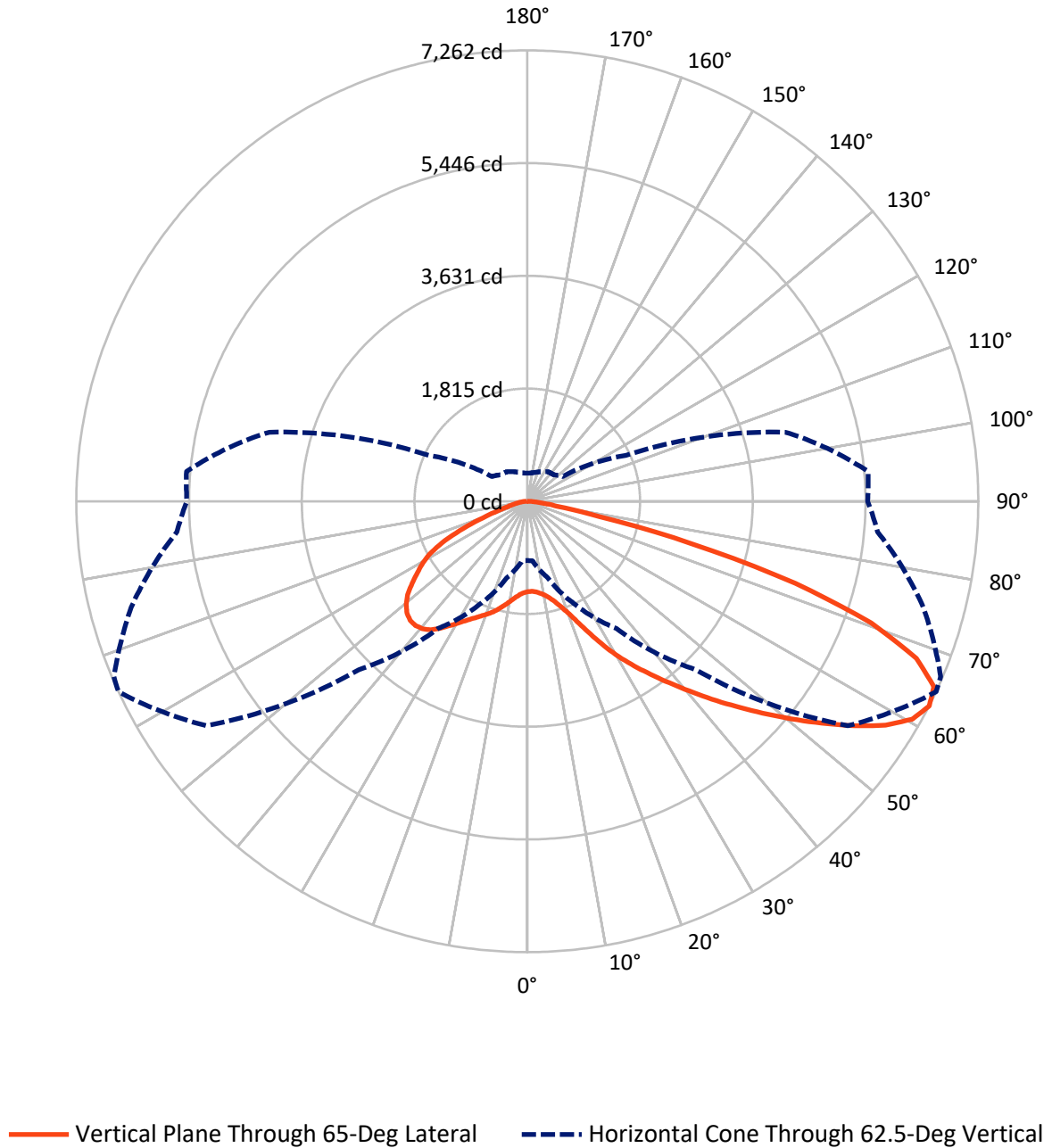
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4166.0	0.0	4166.0
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	9036.0	0.0	9036.0
	% Fixture	68.4	0.0	68.4
<b>Total</b>	Lumens	13202.0	0.0	13202.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	145.0	1.1
10°-20°	491.8	3.7
20°-30°	997.3	7.6
30°-40°	1725.8	13.1
40°-50°	2611.6	19.8
50°-60°	3062.0	23.2
60°-70°	2567.1	19.4
70°-80°	1417.2	10.7
80°-90°	184.1	1.4
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°	13202.0	100.0
0°-180°	13202.0	100.0



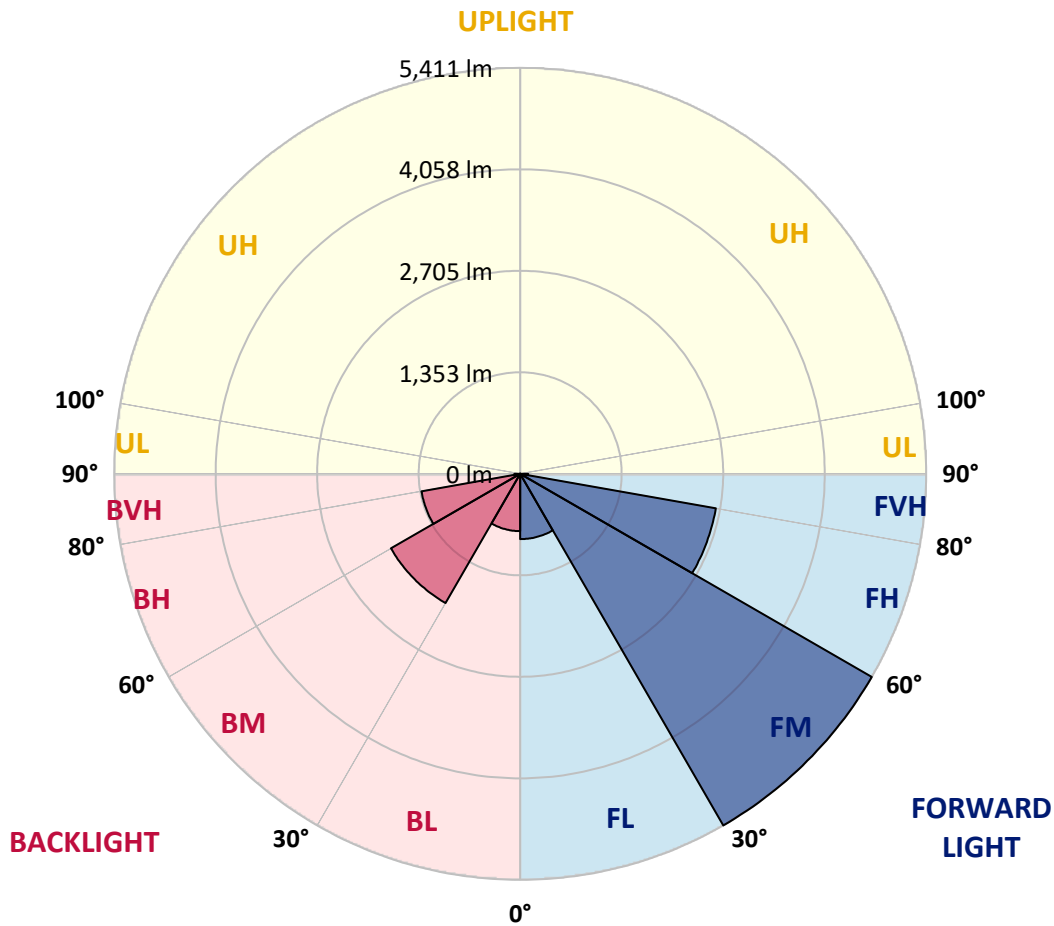
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	870.2	6.6			
FM (30°-60°)	5410.6	41.0			
FH (60°-80°)	2647.9	20.1			G2/5000
FVH (80°-90°)	107.3	0.8			G2/225
BL (0°-30°)	764.0	5.8	B2/1000		
BM (30°-60°)	1988.8	15.1	B2/2500		
BH (60°-80°)	1336.4	10.1	B3/2500		G3/2500
BVH (80°-90°)	76.8	0.6			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 II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	1454.8	1454.8	1454.8	1454.8	1454.8	1454.8	1454.8	1454.8	1454.8	1454.8
2.5°	1445.2	1441.1	1444.5	1444.5	1445.9	1445.2	1450.0	1451.4	1453.4	1457.5
5°	1430.8	1430.1	1436.3	1441.8	1447.3	1452.1	1458.2	1467.1	1468.5	1473.3
7.5°	1426.0	1421.9	1431.5	1438.4	1451.4	1463.0	1479.5	1494.5	1500.7	1502.7
10°	1463.0	1456.2	1465.1	1469.2	1480.1	1491.8	1511.0	1534.9	1541.8	1550.0
12.5°	1526.0	1518.5	1531.5	1537.7	1548.0	1558.2	1571.2	1594.5	1598.0	1613.0
15°	1612.3	1603.4	1611.7	1619.2	1636.3	1645.9	1658.9	1681.5	1681.5	1693.2
17.5°	1729.5	1717.8	1724.0	1726.7	1737.7	1752.1	1774.0	1793.8	1804.1	1800.0
20°	1904.1	1889.7	1889.7	1876.0	1871.9	1883.6	1912.3	1939.7	1950.7	1929.5
22.5°	2166.5	2145.9	2134.3	2087.7	2069.2	2070.6	2099.3	2132.9	2141.8	2104.1
25°	2500.0	2467.8	2452.1	2383.6	2341.8	2305.5	2328.1	2371.2	2383.6	2337.0
27.5°	2833.6	2835.6	2820.6	2738.4	2669.2	2602.8	2591.1	2636.3	2649.3	2596.6
30°	3301.4	3252.8	3224.0	3125.4	3026.7	2933.6	2885.6	2904.1	2907.6	2844.5
32.5°	3704.8	3692.5	3630.8	3544.5	3417.8	3271.9	3191.8	3162.3	3156.9	3067.1
35°	4164.4	4157.6	4092.5	3989.7	3852.8	3650.0	3505.5	3421.3	3414.4	3288.4
37.5°	4631.5	4631.5	4567.8	4455.5	4313.7	4060.3	3840.4	3706.9	3685.0	3520.6
40°	5004.1	4981.5	4993.2	4945.9	4783.6	4514.4	4212.4	4018.5	3989.1	3791.8
42.5°	5215.8	5208.3	5278.1	5330.9	5264.4	5049.3	4621.9	4356.2	4315.1	4090.4
45°	5263.0	5254.8	5379.5	5572.6	5665.8	5577.4	5067.2	4711.7	4661.7	4402.8
47.5°	5154.1	5137.7	5320.6	5625.4	5924.0	6079.5	5549.3	5097.3	5024.7	4706.9
50°	4826.7	4811.0	5087.7	5492.5	6011.0	6420.6	6072.6	5506.2	5395.2	5032.9
52.5°	4115.1	4122.6	4556.2	5112.4	5896.6	6632.9	6523.3	5937.0	5803.5	5366.5
55°	3205.5	3221.9	3754.8	4367.1	5439.1	6600.7	6830.9	6380.9	6248.0	5680.2
57.5°	2295.2	2367.8	2867.1	3473.3	4560.3	6090.4	6898.0	6802.8	6674.0	6022.6
60°	1487.7	1500.7	2014.4	2625.4	3472.6	5183.6	6761.7	7122.6	7022.0	6372.0
62.5°	953.4	962.3	1275.4	1836.3	2499.3	3835.0	6302.8	7261.7	7230.9	6602.8
65°	700.7	693.8	856.9	1213.7	1683.6	2365.1	5411.7	7194.6	7255.5	6747.3
67.5°	584.9	575.3	655.5	840.4	1240.4	1343.2	4004.1	6758.3	6981.5	6730.9
70°	532.9	524.7	573.3	624.0	967.8	899.3	2018.5	5875.4	6219.2	6543.9
72.5°	451.4	437.0	503.4	554.1	752.7	689.7	834.3	4513.0	4932.2	5944.6
75°	350.0	340.4	397.3	487.7	565.8	538.4	527.4	2740.4	3198.0	4597.3
77.5°	277.4	264.4	316.4	380.1	508.9	406.2	384.2	1180.1	1633.6	2934.9
80°	208.9	197.3	240.4	300.7	391.1	306.2	248.6	481.5	615.8	1487.0
82.5°	148.6	138.4	167.8	220.5	263.0	274.7	152.7	269.9	303.4	573.3
85°	95.2	89.0	112.3	138.4	167.1	176.7	93.2	141.1	154.8	236.3
87.5°	52.1	42.5	60.3	64.4	77.4	70.5	44.5	51.4	55.5	85.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P949445  
 CATALOG NUMBER: GALN-SB4A-940-U-T2U

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1454.8	0°	1454.8	1454.8	1454.8	1454.8	1454.8	1454.8	1454.8	1454.8	1454.8	1454.8
1457.5	2.5°	1460.3	1462.3	1469.2	1471.2	1476.0	1482.2	1486.3	1490.4	1490.4	1494.5
1479.5	5°	1480.1	1484.9	1499.3	1506.9	1519.2	1531.5	1539.1	1548.0	1553.4	1556.2
1514.4	7.5°	1518.5	1526.0	1546.6	1559.6	1580.8	1598.0	1609.6	1621.9	1624.7	1632.2
1563.0	10°	1570.6	1579.5	1602.7	1627.4	1652.7	1674.0	1684.9	1693.8	1697.3	1698.6
1625.4	12.5°	1630.1	1643.2	1673.3	1703.4	1730.1	1748.6	1751.4	1749.3	1739.7	1731.5
1702.1	15°	1703.4	1715.1	1748.6	1781.5	1807.5	1811.0	1793.8	1782.9	1771.2	1769.2
1787.7	17.5°	1791.1	1797.3	1828.1	1860.3	1862.3	1850.7	1825.4	1815.1	1804.1	1796.6
1899.3	20°	1893.2	1891.1	1913.0	1926.7	1912.3	1876.7	1838.4	1821.2	1810.3	1801.4
2036.3	22.5°	2015.1	1999.3	1996.6	1993.2	1954.8	1880.1	1828.1	1806.2	1789.1	1776.7
2227.4	25°	2192.5	2132.2	2090.4	2067.1	1980.8	1861.7	1795.2	1746.6	1714.4	1693.2
2461.0	27.5°	2414.4	2313.0	2207.5	2150.7	1980.8	1824.0	1715.8	1637.0	1584.3	1562.3
2687.0	30°	2626.0	2519.9	2364.4	2251.4	1976.0	1762.3	1587.7	1478.1	1416.4	1394.5
2880.2	32.5°	2806.9	2691.1	2530.8	2361.7	1964.4	1662.3	1428.8	1307.5	1248.0	1221.9
3071.3	35°	2974.7	2851.4	2698.0	2482.9	1933.6	1515.8	1254.1	1161.7	1095.2	1053.4
3265.8	37.5°	3146.6	3000.0	2856.2	2592.5	1878.1	1344.5	1119.9	1041.1	963.0	906.9
3472.6	40°	3333.6	3158.2	3025.4	2657.6	1787.0	1181.5	1015.8	943.8	861.0	801.4
3711.0	42.5°	3552.1	3348.0	3213.7	2691.1	1662.3	1065.8	948.0	877.4	799.3	750.7
3966.5	45°	3780.2	3556.9	3385.6	2690.4	1523.3	1011.6	926.0	856.2	769.9	719.2
4228.8	47.5°	4019.2	3775.4	3534.3	2646.6	1402.7	1019.2	913.7	810.3	715.1	665.8
4493.9	50°	4258.9	4014.4	3678.1	2564.4	1351.4	1002.7	867.8	745.9	633.6	589.0
4742.5	52.5°	4496.6	4268.5	3802.1	2447.3	1299.3	941.8	808.9	662.3	600.0	569.2
4999.3	55°	4735.6	4519.9	3937.0	2276.7	1169.2	870.6	710.3	630.8	573.3	545.2
5250.7	57.5°	4975.4	4810.3	4065.1	2106.2	1005.5	782.9	656.2	592.5	546.6	522.6
5461.0	60°	5224.7	5142.5	4197.3	1949.3	843.8	670.6	616.4	561.6	515.1	488.4
5663.0	62.5°	5481.5	5508.3	4300.7	1747.3	695.2	602.1	580.8	524.7	479.5	454.1
5830.2	65°	5740.4	5861.0	4368.5	1467.1	563.7	537.0	542.5	484.2	438.4	416.4
5952.8	67.5°	5935.7	6115.1	4349.3	1110.3	462.3	475.3	494.5	441.8	398.6	381.5
5932.9	70°	5957.6	6085.0	4160.3	760.3	387.0	415.1	441.1	400.0	355.5	343.2
5653.5	72.5°	5665.8	5674.0	3633.6	496.6	327.4	364.4	384.9	357.5	314.4	302.1
4945.9	75°	4900.7	4692.5	2667.8	327.4	274.0	313.0	332.2	313.0	271.2	274.0
3700.7	77.5°	3713.0	3323.3	1619.9	232.9	228.8	263.0	289.0	275.3	239.7	269.2
1861.0	80°	1913.0	1798.0	722.6	174.0	180.8	210.3	237.7	219.9	189.7	180.8
415.8	82.5°	438.4	509.6	284.9	124.7	130.8	151.4	181.5	165.1	136.3	115.1
173.3	85°	153.4	167.8	126.0	78.1	76.7	94.5	123.3	110.3	92.5	74.0
73.3	87.5°	48.6	63.7	47.3	31.5	32.9	42.5	56.8	52.1	43.2	28.1
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>
1454.8
1494.5
1557.5
1629.5
1695.2
1731.5
1769.2
1797.3
1802.1
1780.8
1701.4
1573.3
1407.5
1234.9
1067.1
921.9
813.0
760.3
727.4
672.6
591.8
569.2
542.5
518.5
486.3
453.4
415.8
382.2
343.8
301.4
264.4
237.0
165.1
113.7
78.1
29.5
0.0

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