

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: STREETWORKS

Report Number: P477220

Luminaire Tested: **IFLD-S-SA3A-722-U-T3**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P477220  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3A-722-U-T3  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3  
distribution lens  
Light Source: (48) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

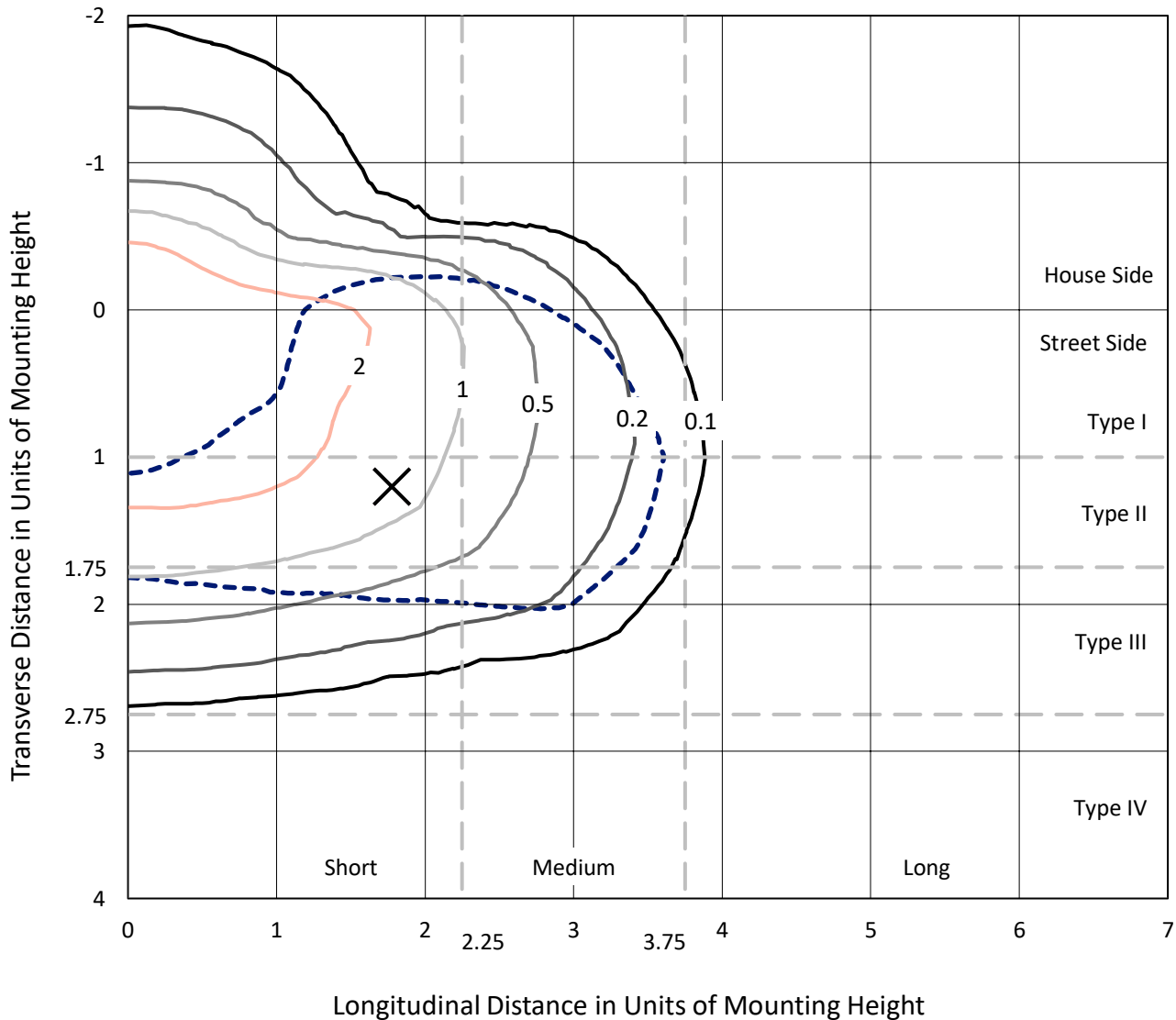
Lumens per Lamp: N/A  
Luminaire Lumens: 10322.2 lumens  
Efficiency: N/A  
Efficacy: 108.9 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2

Input Watts (W): 94.8  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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

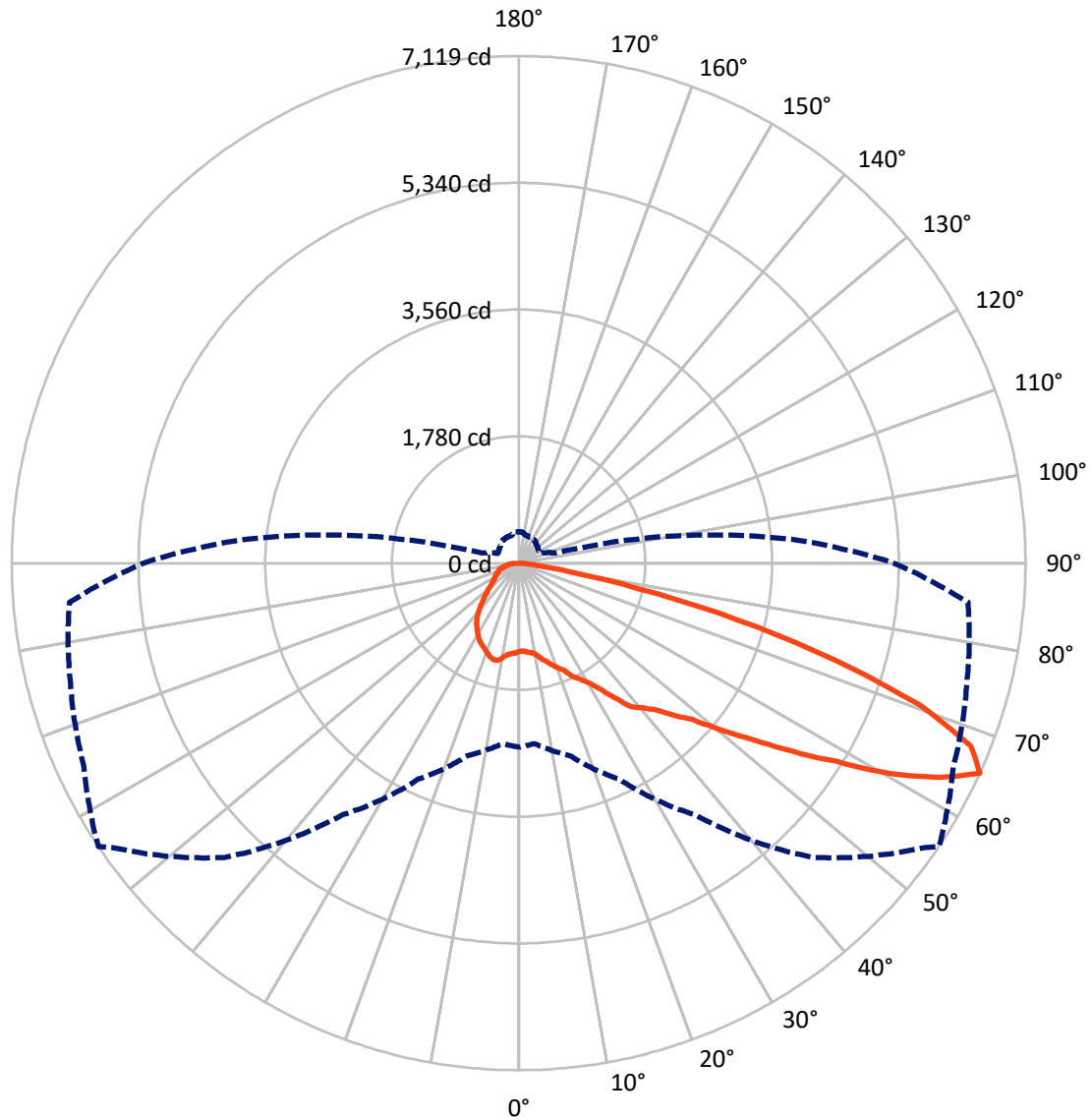
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.6 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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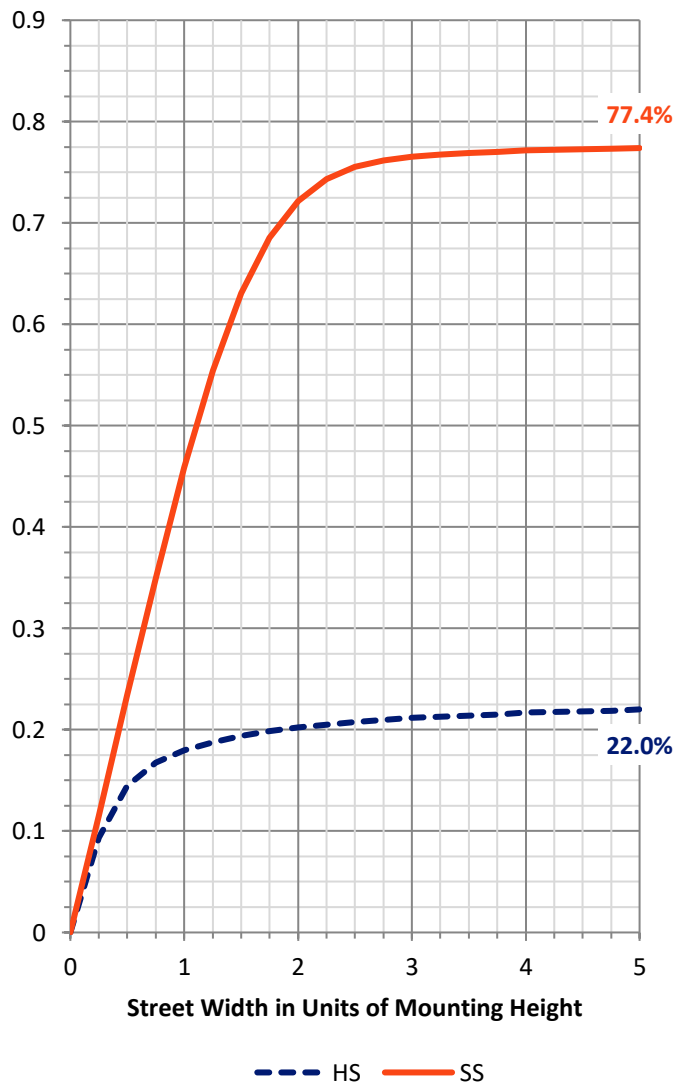
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2314.9	0.0	2314.9
	% Fixture	22.4	0.0	22.4
<b>Street Side</b>	Lumens	8007.3	0.0	8007.3
	% Fixture	77.6	0.0	77.6
<b>Total</b>	Lumens	10322.2	0.0	10322.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	122.8	1.2
10°-20°	398.7	3.9
20°-30°	709.9	6.9
30°-40°	1063.0	10.3
40°-50°	1575.0	15.3
50°-60°	2426.8	23.5
60°-70°	2747.4	26.6
70°-80°	1140.2	11.0
80°-90°	138.5	1.3
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°	10322.2	100.0
0°-180°	10322.2	100.0

**Coefficient of Utilization**

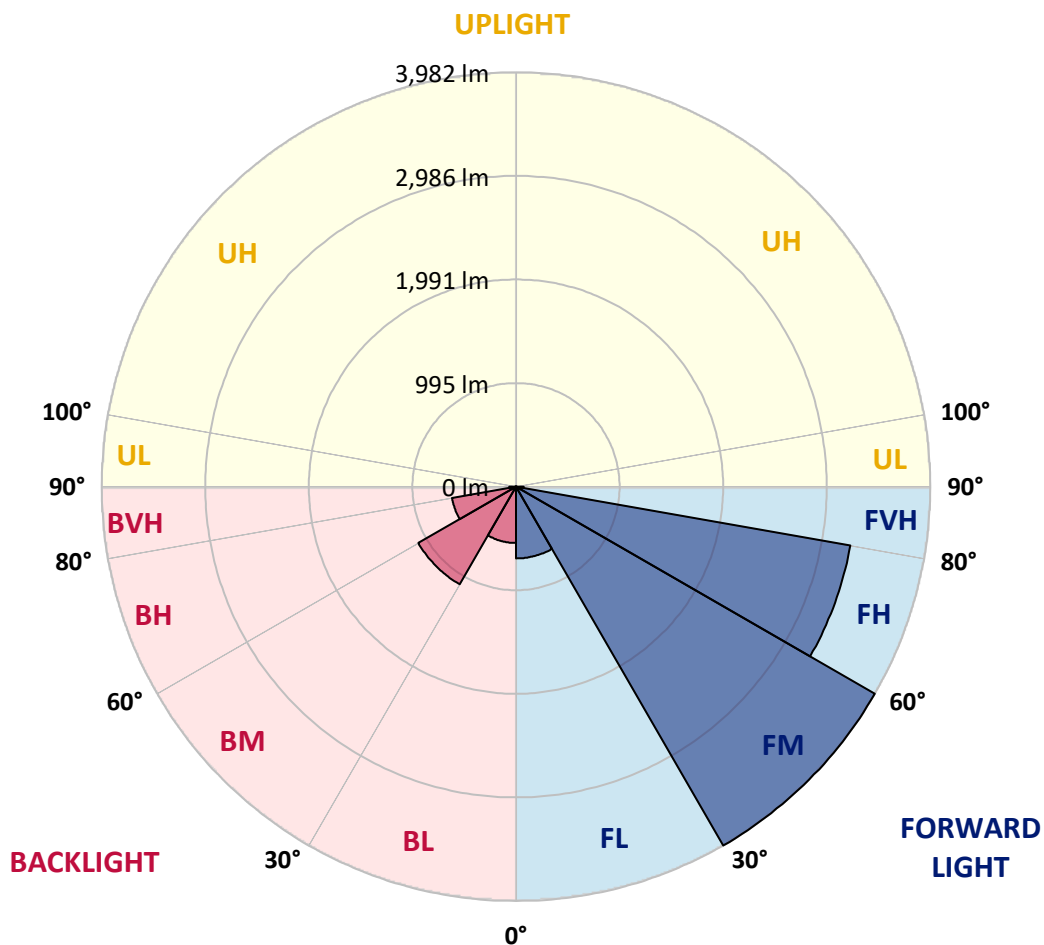


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	689.8	6.7			
FM (30°-60°)	3981.9	38.6			
FH (60°-80°)	3262.5	31.6			G2/5000
FVH (80°-90°)	73.1	0.7			G1/100
BL (0°-30°)	541.5	5.2	B2/1000		
BM (30°-60°)	1082.9	10.5	B2/2500		
BH (60°-80°)	625.1	6.1	B2/1000		G2/1000
BVH (80°-90°)	65.5	0.6			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°	56°	65°	75°
0°	1239.0	1239.0	1239.0	1239.0	1239.0	1239.0	1239.0	1239.0	1239.0	1239.0
2.5°	1206.6	1213.0	1208.7	1221.7	1232.5	1232.5	1241.1	1234.6	1243.3	1255.2
5°	1246.5	1220.6	1234.6	1241.1	1237.9	1243.3	1234.6	1256.2	1242.2	1264.9
7.5°	1256.2	1266.0	1277.8	1267.0	1276.8	1271.4	1272.4	1269.2	1261.6	1280.0
10°	1327.5	1313.5	1340.5	1324.3	1322.1	1320.0	1315.7	1299.5	1317.8	1318.9
12.5°	1409.6	1396.7	1395.6	1382.6	1399.9	1368.6	1375.1	1366.4	1369.7	1374.0
15°	1469.0	1463.6	1488.5	1473.4	1450.7	1436.6	1451.8	1428.0	1439.9	1437.7
17.5°	1586.8	1585.7	1567.3	1542.5	1529.5	1509.0	1505.8	1496.0	1504.7	1500.4
20°	1668.9	1680.8	1684.0	1654.8	1605.1	1582.5	1577.1	1569.5	1579.2	1576.0
22.5°	1794.2	1775.8	1789.9	1739.1	1720.7	1666.7	1647.3	1636.5	1682.9	1671.0
25°	1874.1	1893.5	1879.5	1862.2	1821.2	1754.2	1740.2	1763.9	1782.3	1769.3
27.5°	2054.5	2035.1	2022.1	1970.2	1943.2	1873.0	1856.8	1848.2	1852.5	1860.1
30°	2191.7	2202.5	2173.3	2136.6	2068.5	1997.2	1959.4	1951.9	1936.8	1923.8
32.5°	2387.2	2371.0	2353.7	2329.9	2271.6	2177.6	2140.9	2112.8	2067.5	2007.0
35°	2481.2	2527.6	2514.6	2450.9	2406.6	2371.0	2360.2	2317.0	2279.2	2184.1
37.5°	2637.8	2657.2	2638.9	2618.3	2597.8	2560.0	2547.1	2558.9	2484.4	2327.8
40°	2739.3	2780.4	2818.2	2760.9	2756.6	2764.2	2684.2	2670.2	2516.8	2434.7
42.5°	2946.7	2964.0	2971.6	2969.4	2994.2	2994.2	2841.9	2811.7	2702.6	2635.6
45°	3221.1	3235.1	3262.1	3281.6	3253.5	3267.5	3050.4	3038.5	2941.3	2928.4
47.5°	3458.7	3492.2	3552.7	3609.9	3646.7	3599.1	3361.5	3277.3	3252.4	3330.2
50°	3666.1	3626.1	3767.7	3826.0	3986.9	4065.8	3705.0	3671.5	3631.6	3780.6
52.5°	3686.6	3740.6	3940.5	4057.1	4388.8	4534.6	4126.3	4112.2	4063.6	4235.4
55°	3833.5	3827.1	4028.0	4280.7	4675.0	4920.2	4675.0	4666.4	4560.5	4723.6
57.5°	3808.7	3874.6	4033.4	4386.6	4933.2	5333.9	5311.2	5251.8	5103.8	5236.7
60°	3724.4	3741.7	3935.1	4383.4	5083.3	5758.4	5998.2	6010.1	5707.6	5813.5
62.5°	3247.0	3287.0	3532.2	4038.8	4976.4	6051.1	6669.0	6626.9	6384.9	6263.9
65°	2582.7	2542.7	2797.7	3345.3	4311.0	5843.8	6962.8	7119.4	6739.2	6517.8
67.5°	1583.5	1573.8	1819.0	2301.9	3225.4	4973.1	6728.4	6850.5	6640.9	6463.8
70°	815.5	790.7	944.1	1284.3	2027.5	3648.8	5855.6	5975.5	6175.4	5797.3
72.5°	380.2	374.8	456.9	631.9	1032.6	2145.2	4534.6	4621.0	5042.3	4887.8
75°	223.6	226.8	273.3	330.5	503.4	1011.0	3009.4	3176.8	3633.7	3522.5
77.5°	167.4	167.4	194.4	230.1	293.8	391.0	1485.2	1706.7	2124.7	1910.8
80°	123.1	125.3	149.1	172.8	204.2	202.0	589.8	691.3	974.3	832.8
82.5°	96.1	99.4	115.6	128.5	143.7	122.1	242.0	260.3	400.7	318.7
85°	67.0	69.1	90.7	87.5	87.5	68.1	100.5	105.9	158.8	151.2
87.5°	16.2	18.4	44.3	48.6	36.7	20.5	31.3	35.6	57.2	65.9
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°
1239.0	0°	1239.0	1239.0	1239.0	1239.0	1239.0	1239.0	1239.0	1239.0	1239.0	1239.0
1260.6	2.5°	1244.4	1248.7	1267.0	1257.3	1262.7	1240.0	1258.4	1243.3	1256.2	1249.8
1270.3	5°	1278.9	1269.2	1280.0	1272.4	1272.4	1281.1	1294.1	1284.3	1303.8	1295.1
1277.8	7.5°	1293.0	1294.1	1300.5	1301.6	1296.2	1323.2	1324.3	1321.1	1339.4	1335.1
1329.7	10°	1327.5	1328.6	1340.5	1347.0	1341.6	1351.3	1340.5	1331.9	1330.8	1326.5
1370.7	12.5°	1382.6	1393.4	1391.3	1396.7	1397.7	1356.7	1331.9	1289.7	1284.3	1289.7
1431.2	15°	1433.4	1429.1	1431.2	1442.0	1396.7	1330.8	1286.5	1250.8	1253.0	1254.1
1510.1	17.5°	1493.9	1497.1	1500.4	1450.7	1367.5	1289.7	1250.8	1250.8	1240.0	1244.4
1565.2	20°	1563.0	1550.1	1522.0	1451.8	1316.7	1242.2	1230.3	1230.3	1217.4	1208.7
1624.6	22.5°	1617.0	1591.1	1549.0	1418.3	1271.4	1223.8	1194.7	1174.2	1159.0	1141.7
1690.5	25°	1651.6	1637.5	1555.5	1383.7	1237.9	1175.2	1132.0	1100.7	1081.3	1058.6
1742.3	27.5°	1704.5	1677.5	1573.8	1343.7	1201.2	1126.6	1059.7	1011.0	974.3	950.6
1821.2	30°	1775.8	1736.9	1560.9	1286.5	1145.0	1042.4	963.5	900.9	858.7	839.3
1895.7	32.5°	1834.1	1783.4	1550.1	1234.6	1082.3	957.0	852.3	788.5	764.8	739.9
2021.0	35°	1945.4	1844.9	1542.5	1205.5	1026.2	871.7	761.5	706.4	676.2	639.5
2095.5	37.5°	2030.7	1951.9	1524.1	1145.0	953.8	788.5	692.4	642.7	597.3	558.5
2268.4	40°	2164.7	2100.9	1525.2	1059.7	868.5	717.2	638.4	586.5	529.3	495.8
2524.4	42.5°	2416.4	2247.8	1531.7	991.6	772.3	658.9	589.8	528.2	471.0	442.9
2816.0	45°	2725.3	2449.8	1491.7	930.0	674.0	603.8	531.4	469.9	433.2	412.6
3212.4	47.5°	3080.7	2647.5	1437.7	814.5	591.9	545.5	477.4	441.8	414.8	402.9
3723.4	50°	3478.2	2930.5	1422.6	708.6	528.2	495.8	451.5	424.5	406.1	392.1
4299.1	52.5°	3990.2	3260.0	1392.3	599.5	473.1	455.8	441.8	423.4	407.2	395.3
4835.9	55°	4479.5	3625.1	1359.9	509.8	434.2	436.4	444.0	427.7	413.7	395.3
5437.6	57.5°	5030.4	3997.7	1240.0	444.0	405.1	426.7	441.8	423.4	409.4	395.3
6053.3	60°	5370.6	4207.3	1005.6	386.7	379.1	408.3	428.8	409.4	394.3	399.7
6336.3	62.5°	5508.9	4097.1	758.3	351.1	360.8	383.5	408.3	400.7	389.9	410.5
6333.1	65°	5273.4	3843.3	542.2	320.8	335.9	358.6	389.9	398.6	401.8	441.8
5816.7	67.5°	4692.3	3346.4	398.6	296.0	310.0	343.5	402.9	416.9	414.8	464.5
4881.3	70°	3754.7	2617.3	311.1	275.4	300.3	355.4	421.3	421.3	406.1	464.5
3723.4	72.5°	2731.8	1844.9	267.9	251.7	275.4	326.2	419.1	418.0	398.6	424.5
2371.0	75°	1653.7	1073.7	236.6	227.9	236.6	279.8	400.7	394.3	367.3	365.1
1140.7	77.5°	824.2	540.1	193.4	202.0	206.3	234.4	352.1	361.9	325.1	316.5
450.4	80°	347.8	235.5	160.9	173.9	173.9	197.7	292.7	299.2	270.0	253.8
178.2	82.5°	158.8	135.0	137.2	151.2	141.5	153.4	232.2	239.8	219.3	192.3
75.6	85°	67.0	76.7	104.8	118.8	104.8	99.4	159.9	168.5	142.6	118.8
32.4	87.5°	30.2	42.1	65.9	86.4	52.9	46.4	85.3	88.6	71.3	52.9
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>
1239.0
1237.9
1283.2
1328.6
1326.5
1291.9
1269.2
1245.4
1195.8
1132.0
1062.9
961.4
850.1
738.8
636.2
559.5
499.0
445.0
416.9
400.7
394.3
394.3
394.3
394.3
395.3
405.1
441.8
467.7
454.8
409.4
360.8
311.1
248.4
188.0
119.9
49.7
0.0

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