

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: P477223

Luminaire Tested: **IFLD-S-SA3D-722-U-T3**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P477223  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3D-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**

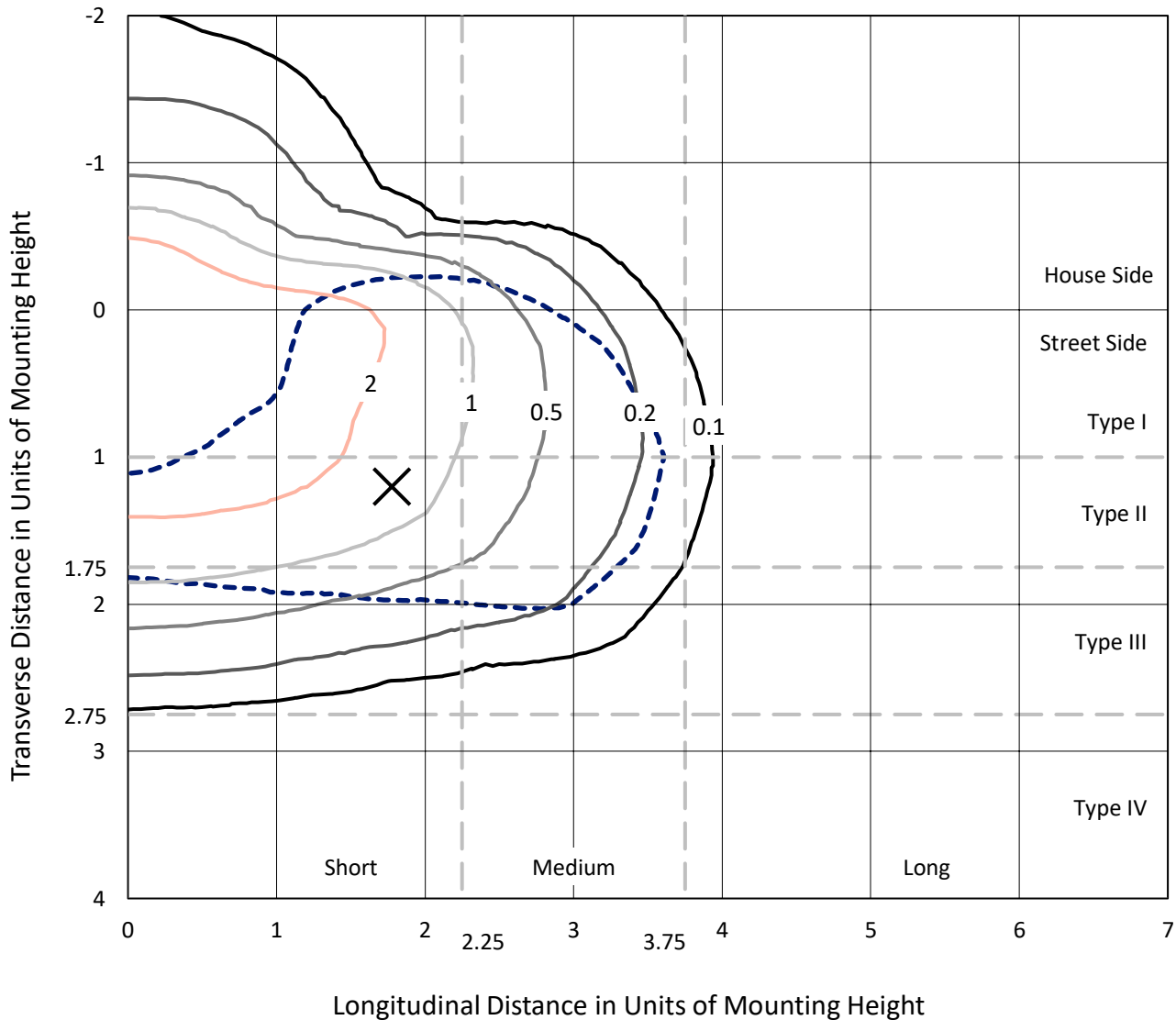
Lumens per Lamp: N/A  
Luminaire Lumens: 17485.9 lumens  
Efficiency: N/A  
Efficacy: 95.0 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G3

Input Watts (W): 184.1  
Input Voltage (V): 120  
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

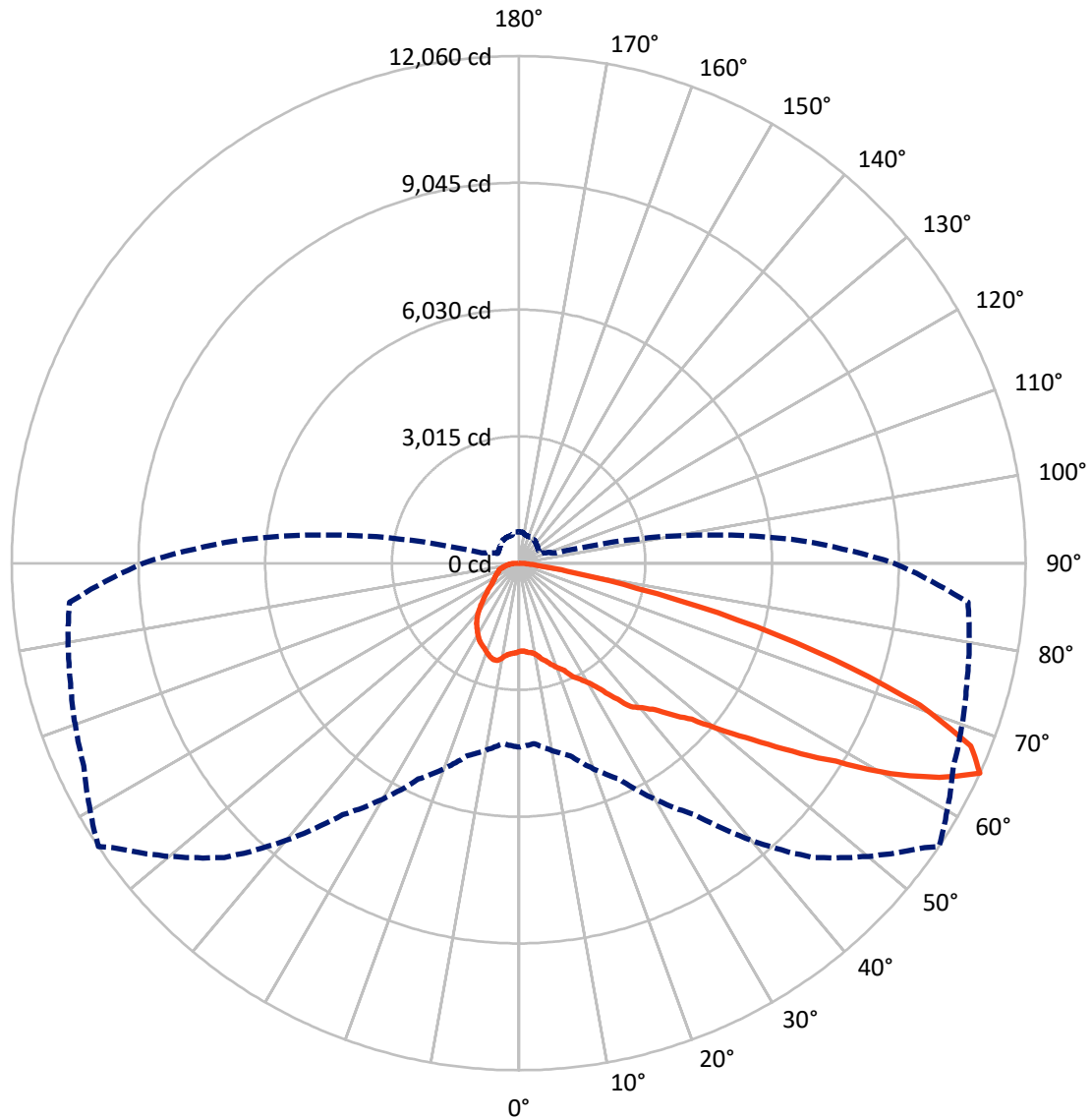
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 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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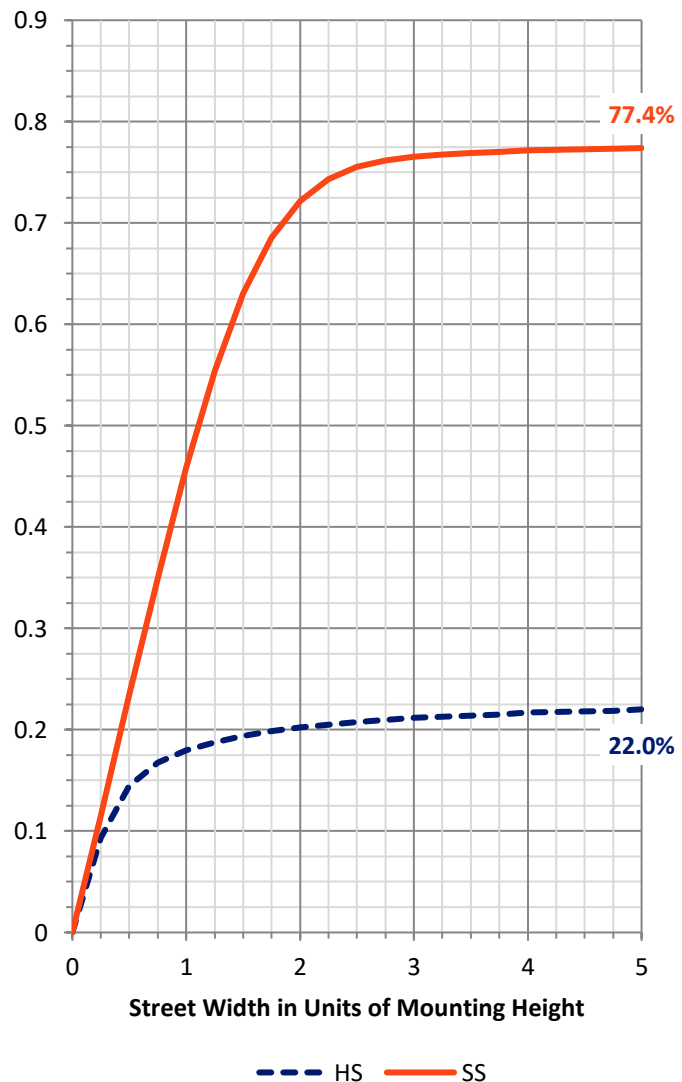
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3921.5	0.0	3921.5
	% Fixture	22.4	0.0	22.4
<b>Street Side</b>	Lumens	13564.4	0.0	13564.4
	% Fixture	77.6	0.0	77.6
<b>Total</b>	Lumens	17485.9	0.0	17485.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	208.0	1.2
10°-20°	675.4	3.9
20°-30°	1202.5	6.9
30°-40°	1800.7	10.3
40°-50°	2668.0	15.3
50°-60°	4111.0	23.5
60°-70°	4654.2	26.6
70°-80°	1931.5	11.0
80°-90°	234.7	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°	17485.9	100.0
0°-180°	17485.9	100.0

**Coefficient of Utilization**

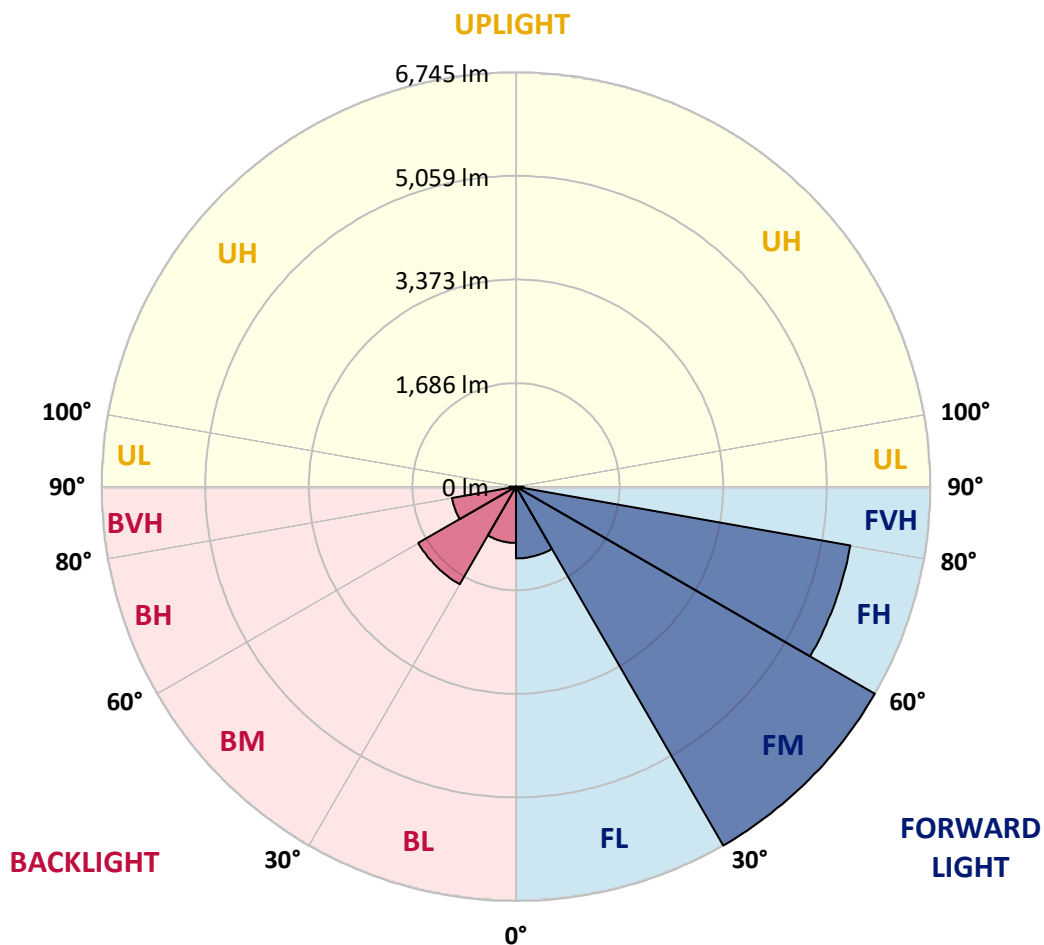


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1168.6	6.7			
FM (30°-60°)	6745.3	38.6			
FH (60°-80°)	5526.7	31.6			G3/7500
FVH (80°-90°)	123.8	0.7			G2/225
BL (0°-30°)	917.3	5.2	B2/1000		
BM (30°-60°)	1834.4	10.5	B2/2500		
BH (60°-80°)	1058.9	6.1	B3/2500		G3/2500
BVH (80°-90°)	110.9	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	2098.8	2098.8	2098.8	2098.8	2098.8	2098.8	2098.8	2098.8	2098.8	2098.8
2.5°	2043.9	2054.9	2047.6	2069.5	2087.8	2087.8	2102.5	2091.5	2106.1	2126.3
5°	2111.6	2067.7	2091.5	2102.5	2097.0	2106.1	2091.5	2128.1	2104.3	2142.7
7.5°	2128.1	2144.6	2164.7	2146.4	2162.9	2153.7	2155.5	2150.0	2137.2	2168.3
10°	2248.9	2225.1	2270.8	2243.4	2239.7	2236.0	2228.7	2201.3	2232.4	2234.2
12.5°	2387.9	2366.0	2364.1	2342.2	2371.5	2318.4	2329.4	2314.7	2320.2	2327.5
15°	2488.6	2479.4	2521.5	2495.9	2457.5	2433.7	2459.3	2419.0	2439.2	2435.5
17.5°	2688.0	2686.2	2655.1	2613.0	2591.0	2556.3	2550.8	2534.3	2548.9	2541.6
20°	2827.1	2847.2	2852.7	2803.3	2719.1	2680.7	2671.5	2658.7	2675.2	2669.7
22.5°	3039.3	3008.2	3032.0	2946.0	2914.9	2823.4	2790.5	2772.2	2850.9	2830.7
25°	3174.7	3207.7	3183.9	3154.6	3085.1	2971.6	2947.8	2988.1	3019.2	2997.3
27.5°	3480.3	3447.4	3425.4	3337.6	3291.9	3172.9	3145.5	3130.8	3138.1	3151.0
30°	3712.7	3731.0	3681.6	3619.4	3504.1	3383.3	3319.3	3306.5	3280.9	3258.9
32.5°	4043.9	4016.5	3987.2	3946.9	3848.1	3688.9	3626.7	3579.1	3502.3	3399.8
35°	4203.1	4281.8	4259.8	4151.9	4076.8	4016.5	3998.2	3925.0	3860.9	3699.9
37.5°	4468.4	4501.4	4470.3	4435.5	4400.7	4336.7	4314.7	4334.9	4208.6	3943.3
40°	4640.4	4710.0	4774.0	4677.0	4669.7	4682.5	4547.1	4523.3	4263.5	4124.4
42.5°	4991.8	5021.0	5033.8	5030.2	5072.3	5072.3	4814.3	4763.0	4578.2	4464.8
45°	5456.5	5480.3	5526.1	5559.0	5511.4	5535.2	5167.4	5147.3	4982.6	4960.7
47.5°	5859.1	5915.8	6018.3	6115.3	6177.5	6097.0	5694.4	5551.7	5509.6	5641.3
50°	6210.4	6142.7	6382.4	6481.2	6753.9	6887.5	6276.3	6219.6	6151.9	6404.4
52.5°	6245.2	6336.7	6675.2	6872.8	7434.6	7681.6	6989.9	6966.1	6883.8	7174.7
55°	6494.0	6483.1	6823.4	7251.6	7919.5	8334.8	7919.5	7904.8	7725.5	8001.8
57.5°	6452.0	6563.6	6832.6	7430.9	8356.8	9035.7	8997.2	8896.6	8645.9	8871.0
60°	6309.2	6338.5	6666.0	7425.4	8611.1	9754.8	10161.0	10181.1	9668.8	9848.1
62.5°	5500.4	5568.2	5983.5	6841.7	8430.0	10250.7	11297.3	11226.0	10816.1	10611.1
65°	4375.1	4307.4	4739.2	5667.0	7302.8	9899.3	11795.0	12060.4	11416.3	11041.2
67.5°	2682.5	2666.1	3081.4	3899.4	5463.9	8424.5	11398.0	11604.7	11249.8	10949.7
70°	1381.5	1339.4	1599.3	2175.7	3434.6	6181.1	9919.5	10122.6	10461.1	9820.7
72.5°	644.1	634.9	774.0	1070.4	1749.3	3634.0	7681.6	7828.0	8541.6	8279.9
75°	378.8	384.3	462.9	559.9	852.7	1712.7	5097.9	5381.5	6155.5	5967.1
77.5°	283.6	283.6	329.4	389.8	497.7	662.4	2516.0	2891.1	3599.3	3237.0
80°	208.6	212.3	252.5	292.8	345.8	342.2	999.1	1171.1	1650.5	1410.8
82.5°	162.9	168.3	195.8	217.7	243.4	206.8	409.9	441.0	678.9	539.8
85°	113.4	117.1	153.7	148.2	148.2	115.3	170.2	179.3	269.0	256.2
87.5°	27.4	31.1	75.0	82.3	62.2	34.8	53.1	60.4	97.0	111.6
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°
2098.8	0°	2098.8	2098.8	2098.8	2098.8	2098.8	2098.8	2098.8	2098.8	2098.8	2098.8
2135.4	2.5°	2108.0	2115.3	2146.4	2129.9	2139.1	2100.6	2131.7	2106.1	2128.1	2117.1
2151.9	5°	2166.5	2150.0	2168.3	2155.5	2155.5	2170.2	2192.1	2175.7	2208.6	2194.0
2164.7	7.5°	2190.3	2192.1	2203.1	2204.9	2195.8	2241.5	2243.4	2237.9	2269.0	2261.7
2252.5	10°	2248.9	2250.7	2270.8	2281.8	2272.6	2289.1	2270.8	2256.2	2254.3	2247.0
2322.0	12.5°	2342.2	2360.5	2356.8	2366.0	2367.8	2298.3	2256.2	2184.8	2175.7	2184.8
2424.5	15°	2428.2	2420.9	2424.5	2442.8	2366.0	2254.3	2179.3	2118.9	2122.6	2124.4
2558.1	17.5°	2530.6	2536.1	2541.6	2457.5	2316.6	2184.8	2118.9	2118.9	2100.6	2108.0
2651.4	20°	2647.8	2625.8	2578.2	2459.3	2230.6	2104.3	2084.2	2084.2	2062.2	2047.6
2752.1	22.5°	2739.2	2695.3	2624.0	2402.6	2153.7	2073.2	2023.8	1989.0	1963.4	1934.1
2863.7	25°	2797.8	2774.0	2634.9	2344.0	2097.0	1990.8	1917.7	1864.6	1831.7	1793.2
2951.5	27.5°	2887.5	2841.7	2666.1	2276.3	2034.8	1908.5	1795.1	1712.7	1650.5	1610.2
3085.1	30°	3008.2	2942.4	2644.1	2179.3	1939.6	1765.8	1632.2	1526.1	1454.7	1421.8
3211.3	32.5°	3107.0	3021.0	2625.8	2091.5	1833.5	1621.2	1443.7	1335.8	1295.5	1253.4
3423.6	35°	3295.5	3125.3	2613.0	2042.1	1738.3	1476.7	1290.0	1196.7	1145.5	1083.3
3549.9	37.5°	3440.1	3306.5	2581.9	1939.6	1615.7	1335.8	1172.9	1088.7	1011.9	946.0
3842.6	40°	3667.0	3559.0	2583.7	1795.1	1471.2	1215.0	1081.4	993.6	896.6	839.9
4276.3	42.5°	4093.3	3807.9	2594.7	1679.8	1308.3	1116.2	999.1	894.8	797.8	750.2
4770.3	45°	4616.6	4150.0	2527.0	1575.5	1141.8	1022.9	900.3	796.0	733.8	699.0
5441.9	47.5°	5218.7	4484.9	2435.5	1379.7	1002.7	924.1	808.8	748.4	702.7	682.5
6307.4	50°	5892.0	4964.3	2409.9	1200.4	894.8	839.9	764.9	719.1	688.0	664.2
7282.7	52.5°	6759.4	5522.4	2358.6	1015.6	801.5	772.2	748.4	717.3	689.8	669.7
8192.1	55°	7588.3	6140.9	2303.7	863.7	735.6	739.2	752.1	724.6	700.8	669.7
9211.3	57.5°	8521.5	6772.2	2100.6	752.1	686.2	722.8	748.4	717.3	693.5	669.7
10254.3	60°	9097.9	7127.2	1703.6	655.1	642.3	691.7	726.4	693.5	667.9	677.0
10733.7	62.5°	9332.1	6940.5	1284.5	594.7	611.2	649.6	691.7	678.9	660.6	695.3
10728.3	65°	8933.2	6510.5	918.6	543.5	569.1	607.5	660.6	675.2	680.7	748.4
9853.6	67.5°	7948.8	5668.8	675.2	501.4	525.2	581.9	682.5	706.3	702.7	786.8
8269.0	70°	6360.5	4433.7	527.0	466.6	508.7	602.0	713.6	713.6	688.0	786.8
6307.4	72.5°	4627.6	3125.3	453.8	426.3	466.6	552.6	710.0	708.1	675.2	719.1
4016.5	75°	2801.5	1818.8	400.7	386.1	400.7	473.9	678.9	667.9	622.1	618.5
1932.3	77.5°	1396.2	914.9	327.5	342.2	349.5	397.1	596.5	613.0	550.8	536.1
763.0	80°	589.2	398.9	272.6	294.6	294.6	334.9	495.9	506.9	457.5	430.0
301.9	82.5°	269.0	228.7	232.4	256.2	239.7	259.8	393.4	406.2	371.5	325.7
128.1	85°	113.4	129.9	177.5	201.3	177.5	168.3	270.8	285.5	241.5	201.3
54.9	87.5°	51.2	71.4	111.6	146.4	89.7	78.7	144.6	150.0	120.8	89.7
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>
2098.8
2097.0
2173.8
2250.7
2247.0
2188.5
2150.0
2109.8
2025.6
1917.7
1800.5
1628.5
1440.1
1251.6
1077.8
947.8
845.4
753.9
706.3
678.9
667.9
667.9
667.9
667.9
669.7
686.2
748.4
792.3
770.4
693.5
611.2
527.0
420.9
318.4
203.1
84.2
0.0

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