

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: P477496

Luminaire Tested: **IFLD-S-SA3D-827-U-T3**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P477496  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3D-827-U-T3  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3  
distribution lens  
Light Source: (48) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

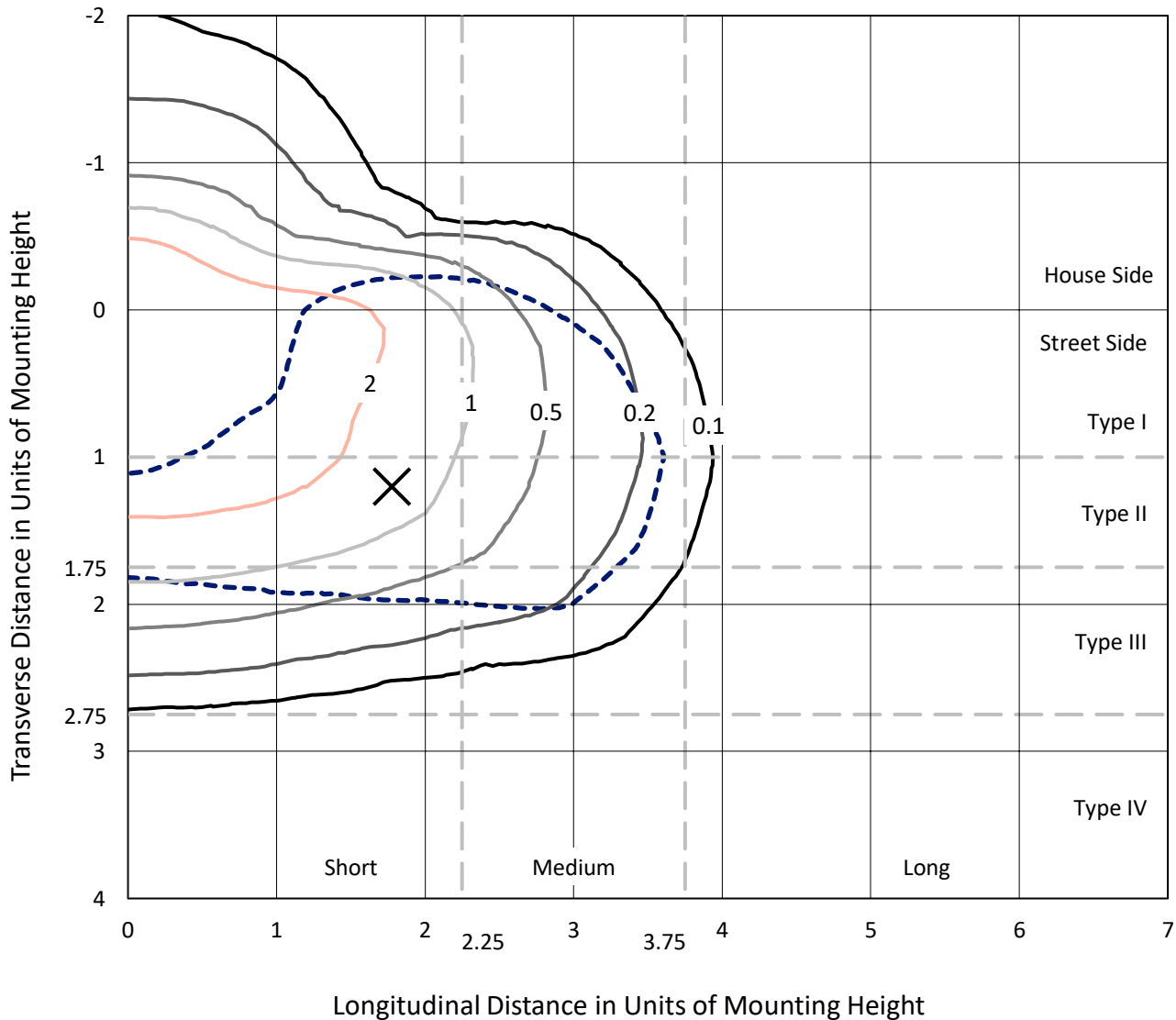
Lumens per Lamp: N/A  
Luminaire Lumens: 17450.3 lumens  
Efficiency: N/A  
Efficacy: 94.8 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G3

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

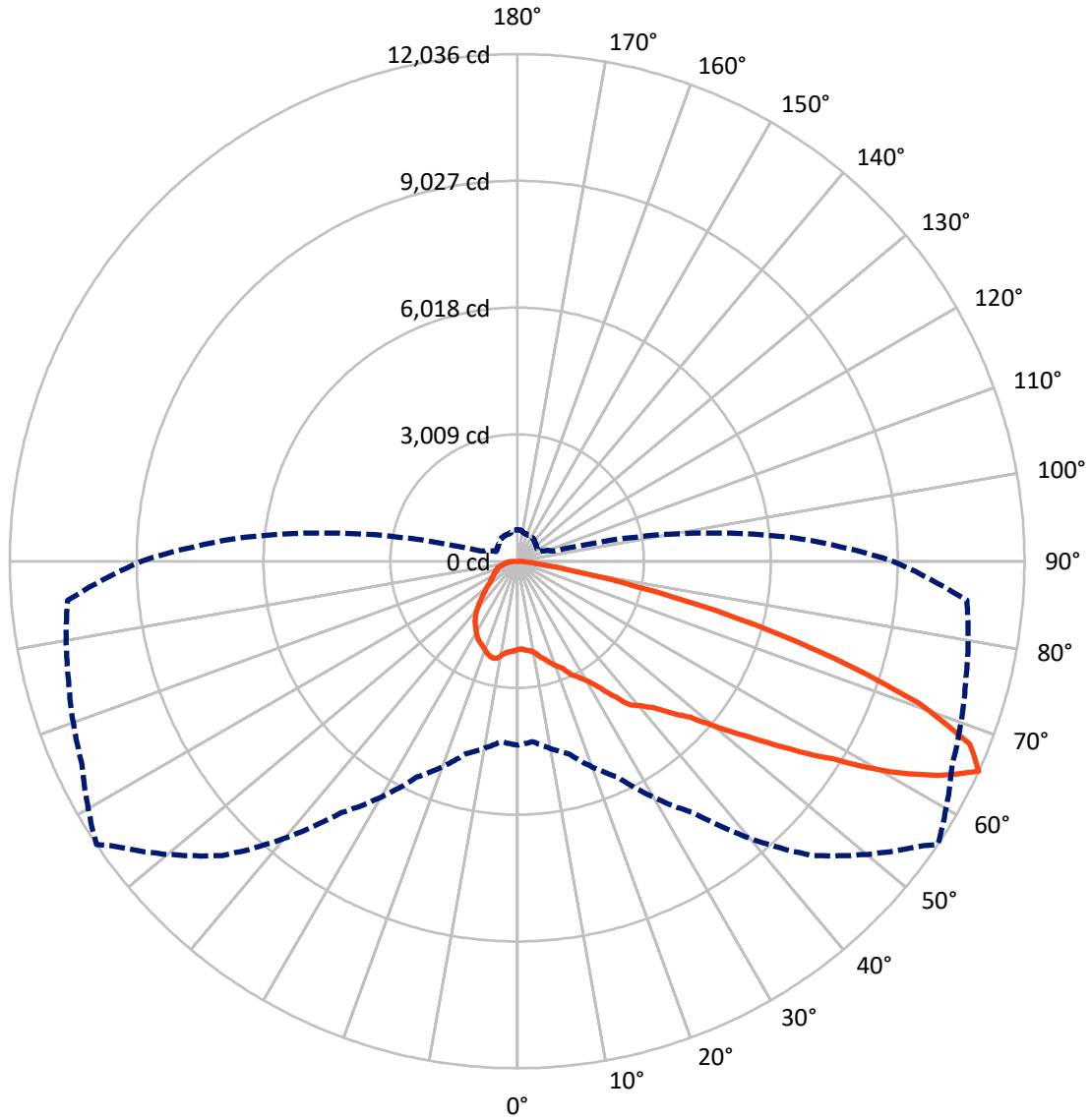
✕ Max cd  
 - - - 1/2 Max cd



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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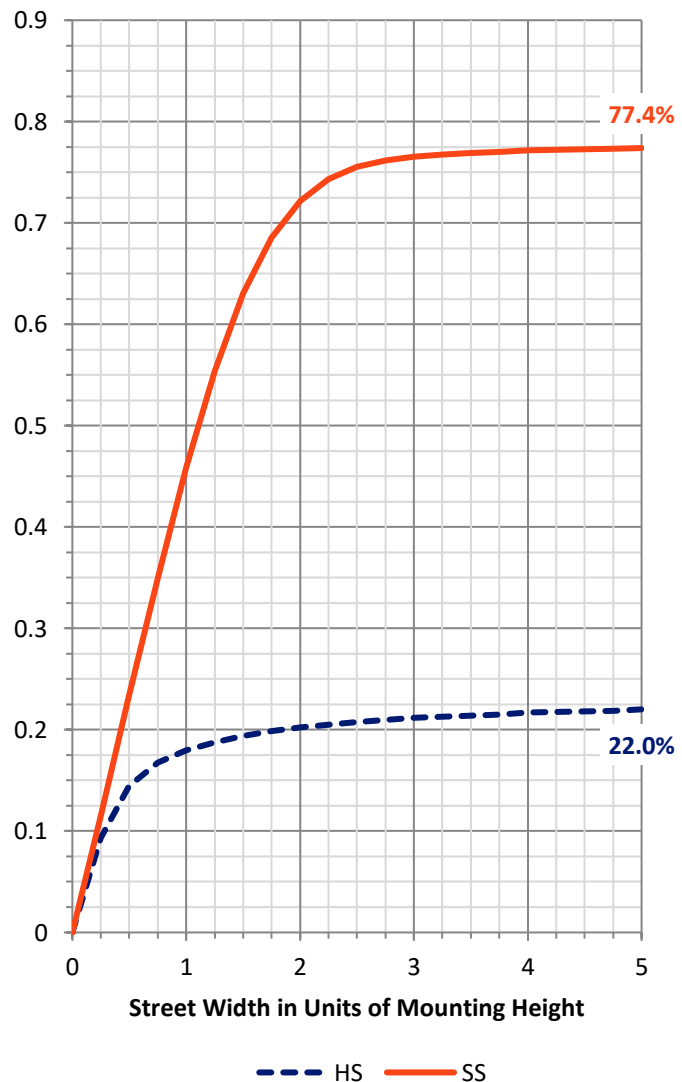
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3913.5	0.0	3913.5
	% Fixture	22.4	0.0	22.4
<b>Street Side</b>	Lumens	13536.8	0.0	13536.8
	% Fixture	77.6	0.0	77.6
<b>Total</b>	Lumens	17450.3	0.0	17450.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	207.6	1.2
10°-20°	674.0	3.9
20°-30°	1200.1	6.9
30°-40°	1797.1	10.3
40°-50°	2662.6	15.3
50°-60°	4102.6	23.5
60°-70°	4644.7	26.6
70°-80°	1927.6	11.0
80°-90°	234.2	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°	17450.3	100.0
0°-180°	17450.3	100.0

**Coefficient of Utilization**

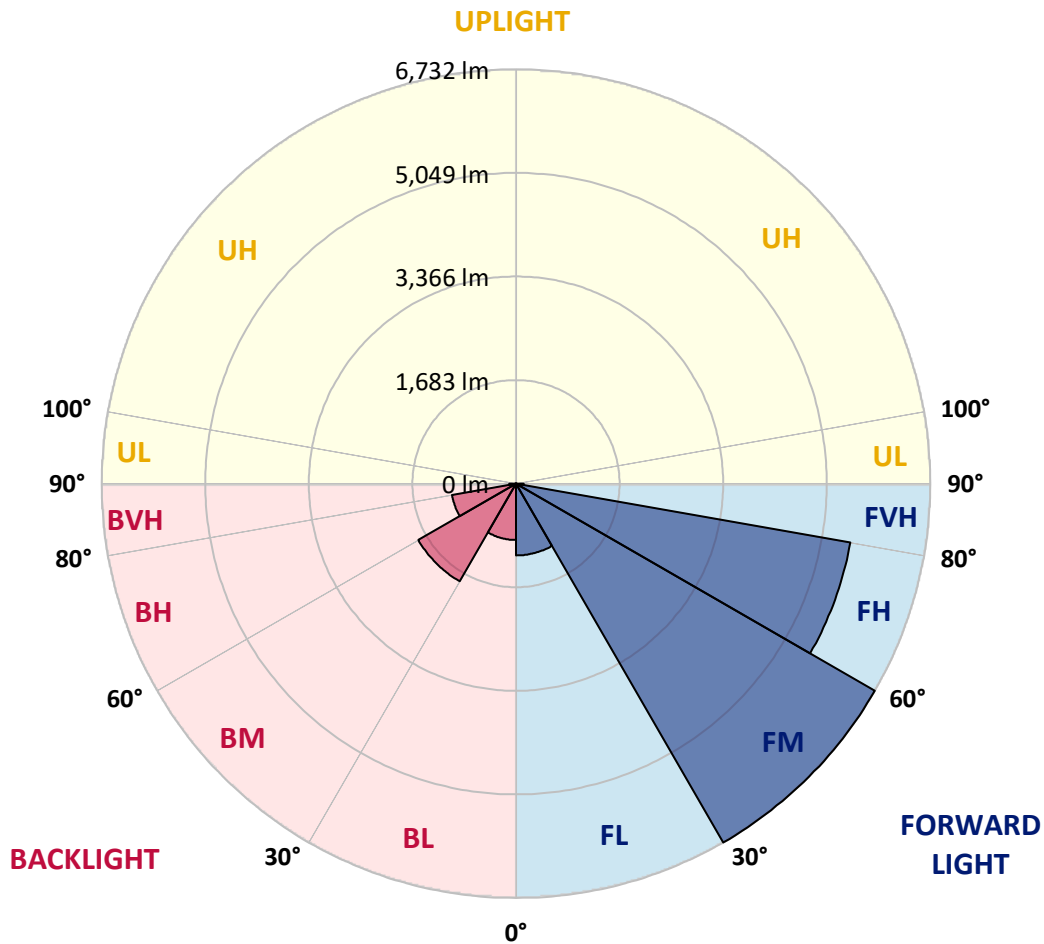


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1166.2	6.7			
FM (30°-60°)	6731.6	38.6			
FH (60°-80°)	5515.5	31.6			G3/7500
FVH (80°-90°)	123.5	0.7			G2/225
BL (0°-30°)	915.4	5.2	B2/1000		
BM (30°-60°)	1830.7	10.5	B2/2500		
BH (60°-80°)	1056.8	6.1	B3/2500		G3/2500
BVH (80°-90°)	110.7	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°	2094.5	2094.5	2094.5	2094.5	2094.5	2094.5	2094.5	2094.5	2094.5	2094.5
2.5°	2039.8	2050.7	2043.4	2065.3	2083.6	2083.6	2098.2	2087.2	2101.8	2121.9
5°	2107.3	2063.5	2087.2	2098.2	2092.7	2101.8	2087.2	2123.8	2100.0	2138.4
7.5°	2123.8	2140.2	2160.3	2142.0	2158.4	2149.3	2151.1	2145.7	2132.9	2163.9
10°	2244.3	2220.5	2266.2	2238.8	2235.1	2231.5	2224.2	2196.8	2227.8	2229.7
12.5°	2383.1	2361.1	2359.3	2337.4	2366.6	2313.7	2324.6	2310.0	2315.5	2322.8
15°	2483.5	2474.4	2516.4	2490.8	2452.4	2428.7	2454.3	2414.1	2434.2	2430.5
17.5°	2682.5	2680.7	2649.7	2607.7	2585.8	2551.1	2545.6	2529.1	2543.8	2536.4
20°	2821.3	2841.4	2846.9	2797.6	2713.6	2675.2	2666.1	2653.3	2669.8	2664.3
22.5°	3033.1	3002.1	3025.8	2940.0	2909.0	2817.7	2784.8	2766.5	2845.1	2825.0
25°	3168.3	3201.1	3177.4	3148.2	3078.8	2965.6	2941.8	2982.0	3013.1	2991.1
27.5°	3473.2	3440.4	3418.5	3330.8	3285.1	3166.5	3139.1	3124.5	3131.8	3144.5
30°	3705.2	3723.4	3674.1	3612.0	3497.0	3376.5	3312.5	3299.8	3274.2	3252.3
32.5°	4035.7	4008.3	3979.1	3938.9	3840.3	3681.4	3619.3	3571.8	3495.1	3392.9
35°	4194.5	4273.1	4251.2	4143.4	4068.5	4008.3	3990.0	3917.0	3853.1	3692.4
37.5°	4459.3	4492.2	4461.2	4426.5	4391.8	4327.8	4305.9	4326.0	4200.0	3935.2
40°	4631.0	4700.4	4764.3	4667.5	4660.2	4673.0	4537.9	4514.1	4254.8	4116.0
42.5°	4981.6	5010.8	5023.6	5019.9	5061.9	5061.9	4804.5	4753.3	4568.9	4455.7
45°	5445.4	5469.2	5514.8	5547.7	5500.2	5523.9	5156.9	5136.8	4972.5	4950.5
47.5°	5847.2	5903.8	6006.0	6102.8	6164.9	6084.6	5682.8	5540.4	5498.4	5629.9
50°	6197.8	6130.2	6369.4	6468.0	6740.1	6873.4	6263.5	6206.9	6139.3	6391.3
52.5°	6232.5	6323.8	6661.6	6858.8	7419.4	7666.0	6975.7	6952.0	6869.8	7160.1
55°	6480.8	6469.9	6809.5	7236.8	7903.3	8317.9	7903.3	7888.7	7709.8	7985.5
57.5°	6438.8	6550.2	6818.6	7415.8	8339.8	9017.3	8978.9	8878.5	8628.3	8852.9
60°	6296.4	6325.6	6652.5	7410.3	8593.6	9734.9	10140.3	10160.4	9649.1	9828.1
62.5°	5489.2	5556.8	5971.3	6827.8	8412.8	10229.8	11274.3	11203.1	10794.1	10589.5
65°	4366.2	4298.6	4729.6	5655.4	7288.0	9879.2	11771.0	12035.8	11393.0	11018.7
67.5°	2677.1	2660.6	3075.1	3891.4	5452.7	8407.3	11374.8	11581.1	11226.8	10927.4
70°	1378.7	1336.7	1596.0	2171.2	3427.6	6168.6	9899.3	10102.0	10439.8	9800.7
72.5°	642.8	633.7	772.4	1068.3	1745.7	3626.6	7666.0	7812.0	8524.2	8263.1
75°	378.0	383.5	462.0	558.8	851.0	1709.2	5087.5	5370.6	6143.0	5954.9
77.5°	283.0	283.0	328.7	389.0	496.7	661.0	2510.9	2885.2	3591.9	3230.4
80°	208.2	211.8	252.0	292.2	345.1	341.5	997.0	1168.7	1647.1	1407.9
82.5°	162.5	168.0	195.4	217.3	242.9	206.3	409.0	440.1	677.5	538.7
85°	113.2	116.9	153.4	147.9	147.9	115.0	169.8	179.0	268.4	255.7
87.5°	27.4	31.0	74.9	82.2	62.1	34.7	53.0	60.3	96.8	111.4
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°
2094.5	0°	2094.5	2094.5	2094.5	2094.5	2094.5	2094.5	2094.5	2094.5	2094.5	2094.5
2131.1	2.5°	2103.7	2111.0	2142.0	2125.6	2134.7	2096.4	2127.4	2101.8	2123.8	2112.8
2147.5	5°	2162.1	2145.7	2163.9	2151.1	2151.1	2165.8	2187.7	2171.2	2204.1	2189.5
2160.3	7.5°	2185.8	2187.7	2198.6	2200.4	2191.3	2237.0	2238.8	2233.3	2264.4	2257.1
2247.9	10°	2244.3	2246.1	2266.2	2277.1	2268.0	2284.4	2266.2	2251.6	2249.8	2242.4
2317.3	12.5°	2337.4	2355.7	2352.0	2361.1	2363.0	2293.6	2251.6	2180.4	2171.2	2180.4
2419.6	15°	2423.2	2415.9	2419.6	2437.8	2361.1	2249.8	2174.9	2114.6	2118.3	2120.1
2552.9	17.5°	2525.5	2531.0	2536.4	2452.4	2311.8	2180.4	2114.6	2114.6	2096.4	2103.7
2646.0	20°	2642.4	2620.4	2573.0	2454.3	2226.0	2100.0	2079.9	2079.9	2058.0	2043.4
2746.4	22.5°	2733.7	2689.8	2618.6	2397.7	2149.3	2069.0	2019.7	1985.0	1959.4	1930.2
2857.8	25°	2792.1	2768.4	2629.6	2339.2	2092.7	1986.8	1913.7	1860.8	1827.9	1789.6
2945.5	27.5°	2881.6	2835.9	2660.6	2271.7	2030.6	1904.6	1791.4	1709.2	1647.1	1607.0
3078.8	30°	3002.1	2936.4	2638.7	2174.9	1935.7	1762.2	1628.9	1523.0	1451.7	1418.9
3204.8	32.5°	3100.7	3014.9	2620.4	2087.2	1829.7	1617.9	1440.8	1333.1	1292.9	1250.9
3416.6	35°	3288.8	3119.0	2607.7	2037.9	1734.8	1473.7	1287.4	1194.3	1143.1	1081.0
3542.6	37.5°	3433.1	3299.8	2576.6	1935.7	1612.4	1333.1	1170.5	1086.5	1009.8	944.1
3834.8	40°	3659.5	3551.8	2578.4	1791.4	1468.2	1212.5	1079.2	991.6	894.8	838.2
4267.6	42.5°	4085.0	3800.1	2589.4	1676.4	1305.7	1113.9	997.0	893.0	796.2	748.7
4760.6	45°	4607.2	4141.6	2521.8	1572.3	1139.5	1020.8	898.4	794.4	732.3	697.6
5430.8	47.5°	5208.0	4475.8	2430.5	1376.9	1000.7	922.2	807.1	746.9	701.2	681.1
6294.6	50°	5880.0	4954.2	2405.0	1197.9	893.0	838.2	763.3	717.7	686.6	662.9
7267.9	52.5°	6745.6	5511.2	2353.8	1013.5	799.8	770.6	746.9	715.8	688.4	668.4
8175.4	55°	7572.8	6128.4	2299.1	861.9	734.1	737.7	750.5	723.1	699.4	668.4
9192.6	57.5°	8504.1	6758.4	2096.4	750.5	684.8	721.3	746.9	715.8	692.1	668.4
10233.4	60°	9079.4	7112.6	1700.1	653.7	641.0	690.3	725.0	692.1	666.5	675.7
10711.9	62.5°	9313.1	6926.4	1281.9	593.5	609.9	648.3	690.3	677.5	659.2	693.9
10706.4	65°	8915.0	6497.3	916.7	542.4	567.9	606.3	659.2	673.8	679.3	746.9
9833.5	67.5°	7932.6	5657.2	673.8	500.4	524.1	580.7	681.1	704.9	701.2	785.2
8252.1	70°	6347.5	4424.6	525.9	465.7	507.7	600.8	712.2	712.2	686.6	785.2
6294.6	72.5°	4618.2	3119.0	452.9	425.5	465.7	551.5	708.5	706.7	673.8	717.7
4008.3	75°	2795.8	1815.1	399.9	385.3	399.9	473.0	677.5	666.5	620.9	617.2
1928.4	77.5°	1393.3	913.0	326.9	341.5	348.8	396.3	595.3	611.7	549.7	535.0
761.5	80°	588.0	398.1	272.1	294.0	294.0	334.2	494.9	505.8	456.5	429.1
301.3	82.5°	268.4	228.3	231.9	255.7	239.2	259.3	392.6	405.4	370.7	325.0
127.8	85°	113.2	129.7	177.1	200.9	177.1	168.0	270.3	284.9	241.0	200.9
54.8	87.5°	51.1	71.2	111.4	146.1	89.5	78.5	144.3	149.7	120.5	89.5
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>
2094.5
2092.7
2169.4
2246.1
2242.4
2184.0
2145.7
2105.5
2021.5
1913.7
1796.9
1625.2
1437.1
1249.1
1075.6
945.9
843.7
752.4
704.9
677.5
666.5
666.5
666.5
666.5
668.4
684.8
746.9
790.7
768.8
692.1
609.9
525.9
420.0
317.7
202.7
84.0
0.0

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