

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: P477495

Luminaire Tested: **IFLD-S-SA3C-827-U-T3**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P477495  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3C-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**

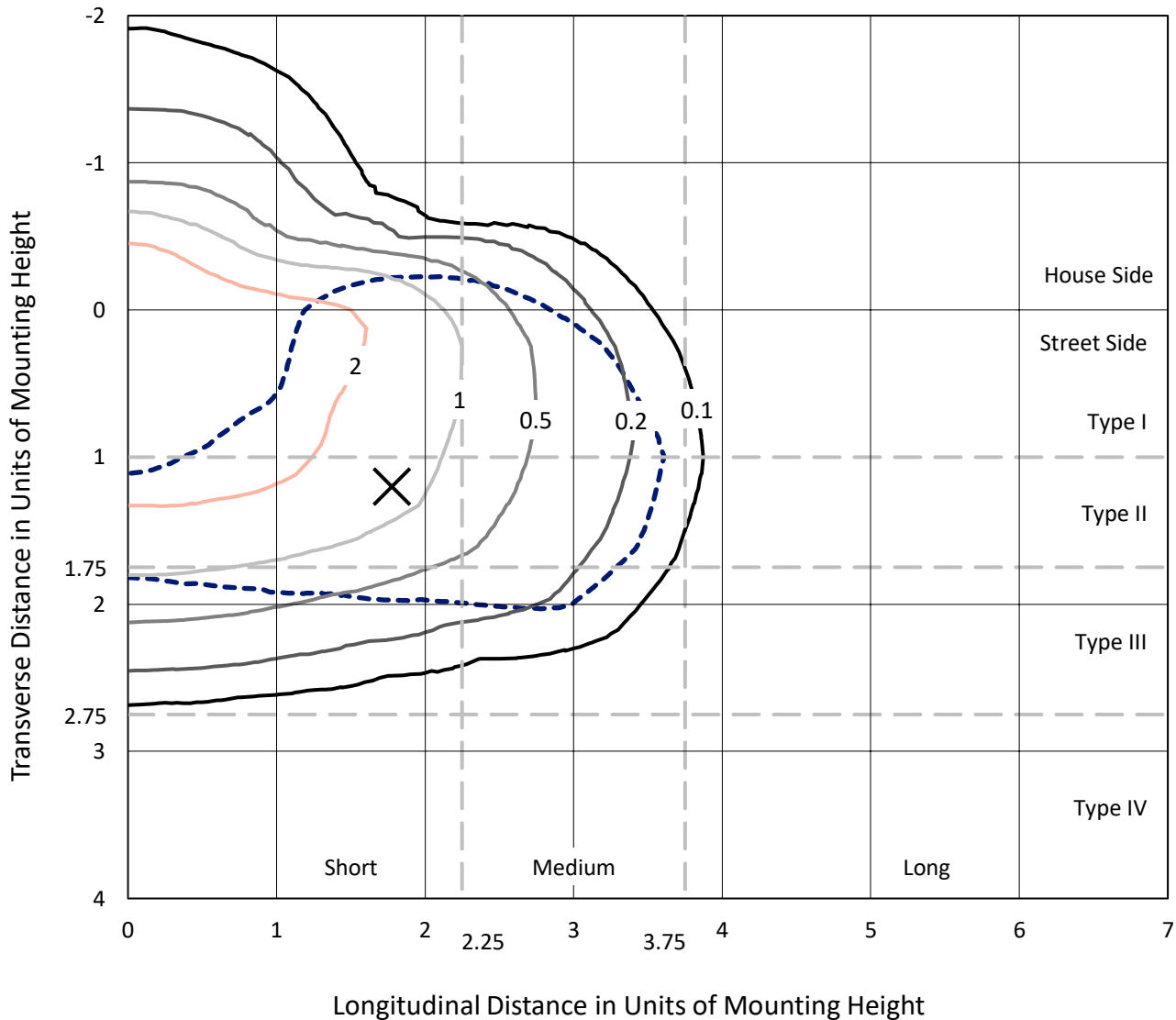
Lumens per Lamp: N/A  
Luminaire Lumens: 15859.3 lumens  
Efficiency: N/A  
Efficacy: 98.6 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3

Input Watts (W): 160.8  
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

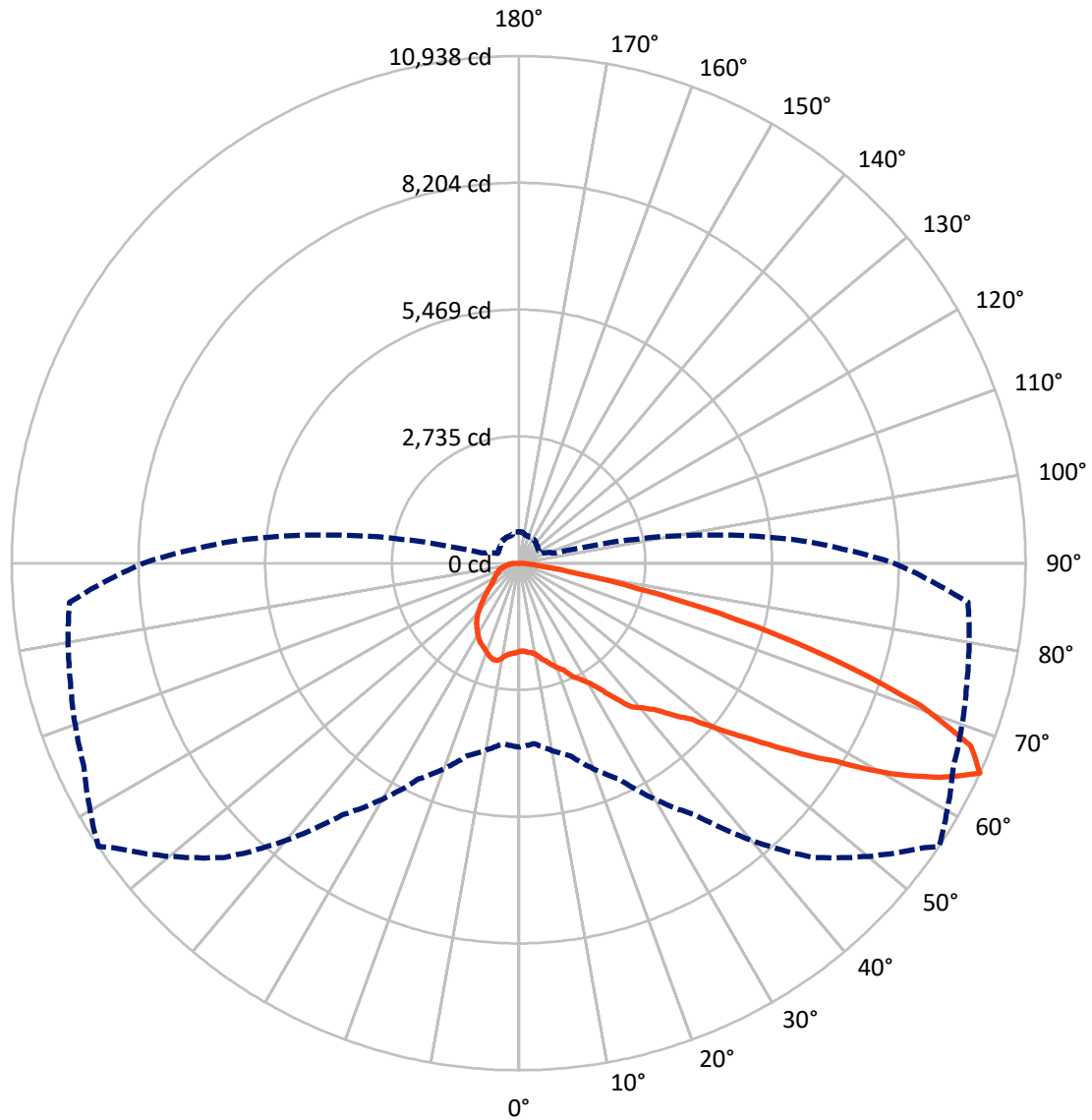
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 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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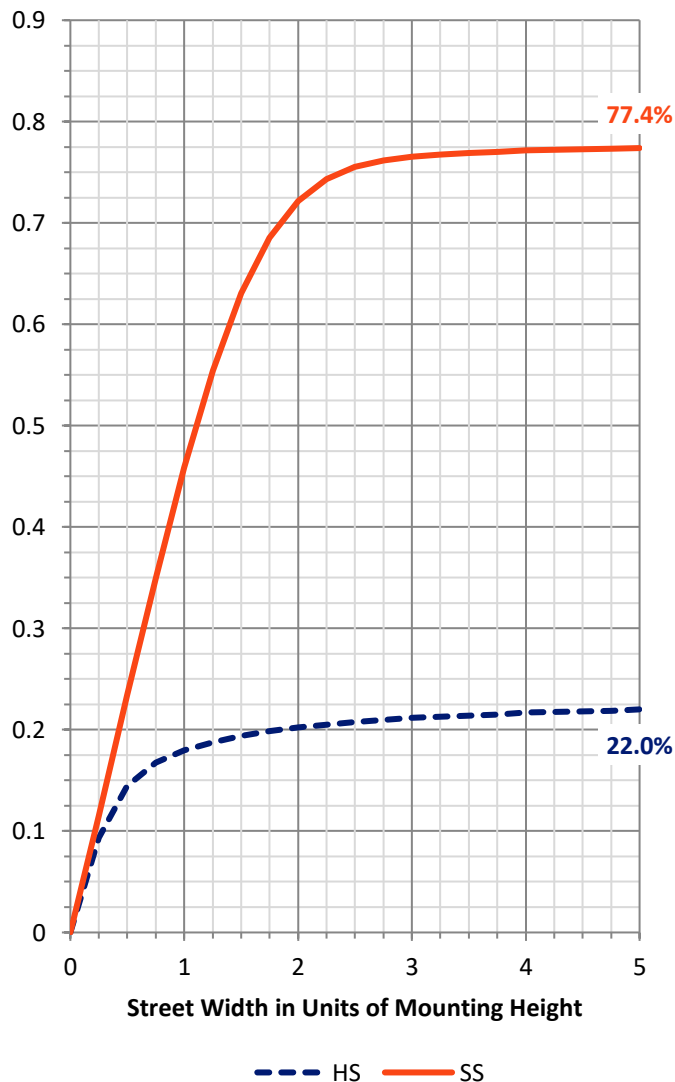
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3556.7	0.0	3556.7
	% Fixture	22.4	0.0	22.4
<b>Street Side</b>	Lumens	12302.5	0.0	12302.5
	% Fixture	77.6	0.0	77.6
<b>Total</b>	Lumens	15859.3	0.0	15859.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	188.6	1.2
10°-20°	612.5	3.9
20°-30°	1090.6	6.9
30°-40°	1633.2	10.3
40°-50°	2419.8	15.3
50°-60°	3728.6	23.5
60°-70°	4221.2	26.6
70°-80°	1751.8	11.0
80°-90°	212.8	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°	15859.3	100.0
0°-180°	15859.3	100.0

**Coefficient of Utilization**

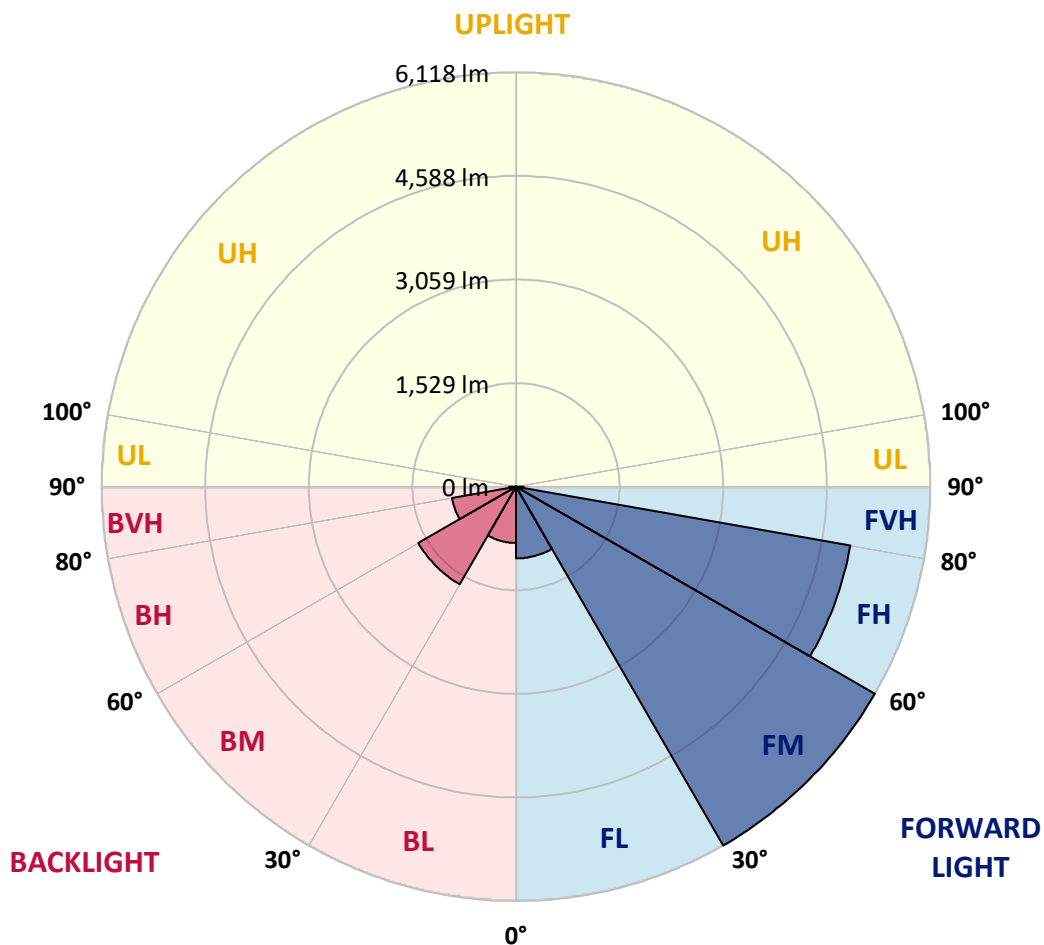


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1059.9	6.7			
FM (30°-60°)	6117.8	38.6			
FH (60°-80°)	5012.6	31.6			G3/7500
FVH (80°-90°)	112.3	0.7			G2/225
BL (0°-30°)	832.0	5.2	B2/1000		
BM (30°-60°)	1663.8	10.5	B2/2500		
BH (60°-80°)	960.4	6.1	B2/1000		G2/1000
BVH (80°-90°)	100.6	0.6			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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	1903.6	1903.6	1903.6	1903.6	1903.6	1903.6	1903.6	1903.6	1903.6	1903.6
2.5°	1853.8	1863.7	1857.1	1877.0	1893.6	1893.6	1906.9	1896.9	1910.2	1928.5
5°	1915.2	1875.3	1896.9	1906.9	1901.9	1910.2	1896.9	1930.1	1908.5	1943.4
7.5°	1930.1	1945.1	1963.3	1946.7	1961.6	1953.4	1955.0	1950.0	1938.4	1966.6
10°	2039.7	2018.1	2059.6	2034.7	2031.4	2028.0	2021.4	1996.5	2024.7	2026.4
12.5°	2165.8	2145.9	2144.2	2124.3	2150.8	2102.7	2112.7	2099.4	2104.4	2111.0
15°	2257.1	2248.8	2286.9	2263.7	2228.8	2207.3	2230.5	2194.0	2212.2	2208.9
17.5°	2438.0	2436.3	2408.1	2369.9	2350.0	2318.5	2313.5	2298.5	2311.8	2305.2
20°	2564.1	2582.3	2587.3	2542.5	2466.2	2431.3	2423.0	2411.4	2426.3	2421.4
22.5°	2756.6	2728.4	2750.0	2672.0	2643.7	2560.8	2530.9	2514.3	2585.7	2567.4
25°	2879.4	2909.3	2887.7	2861.2	2798.1	2695.2	2673.6	2710.1	2738.3	2718.4
27.5°	3156.6	3126.7	3106.8	3027.1	2985.6	2877.7	2852.9	2839.6	2846.2	2857.8
30°	3367.3	3383.9	3339.1	3282.7	3178.1	3068.6	3010.5	2998.9	2975.7	2955.7
32.5°	3667.7	3642.8	3616.3	3579.8	3490.1	3345.8	3289.3	3246.2	3176.5	3083.5
35°	3812.1	3883.5	3863.6	3765.6	3697.6	3642.8	3626.2	3559.8	3501.8	3355.7
37.5°	4052.7	4082.6	4054.4	4022.9	3991.3	3933.3	3913.3	3931.6	3817.1	3576.4
40°	4208.7	4271.8	4329.9	4241.9	4235.3	4246.9	4124.1	4102.5	3866.9	3740.7
42.5°	4527.4	4553.9	4565.6	4562.2	4600.4	4600.4	4366.4	4319.9	4152.3	4049.4
45°	4948.9	4970.5	5012.0	5041.9	4998.7	5020.3	4686.7	4668.5	4519.1	4499.2
47.5°	5314.0	5365.5	5458.4	5546.4	5602.8	5529.8	5164.7	5035.2	4997.1	5116.6
50°	5632.7	5571.3	5788.7	5878.3	6125.6	6246.7	5692.4	5641.0	5579.6	5808.6
52.5°	5664.2	5747.2	6054.2	6233.5	6743.0	6967.0	6339.7	6318.1	6243.4	6507.3
55°	5889.9	5880.0	6188.7	6577.0	7182.8	7559.5	7182.8	7169.5	7006.8	7257.4
57.5°	5851.8	5953.0	6197.0	6739.6	7579.4	8195.1	8160.3	8069.0	7841.6	8045.7
60°	5722.3	5748.9	6045.9	6734.7	7810.1	8847.3	9215.8	9234.0	8769.3	8932.0
62.5°	4988.8	5050.2	5426.9	6205.2	7645.8	9297.1	10246.4	10181.7	9809.9	9624.0
65°	3968.1	3906.7	4298.4	5139.8	6623.5	8978.4	10697.8	10938.4	10354.3	10014.0
67.5°	2433.0	2418.0	2794.8	3536.6	4955.6	7640.8	10337.7	10525.2	10203.2	9931.1
70°	1253.0	1214.8	1450.5	1973.3	3115.1	5606.1	8996.7	9180.9	9487.9	8907.1
72.5°	584.2	575.9	702.0	970.9	1586.6	3296.0	6967.0	7099.8	7747.0	7509.7
75°	343.5	348.5	419.9	507.8	773.4	1553.4	4623.6	4880.9	5582.9	5412.0
77.5°	257.2	257.2	298.7	353.5	451.4	600.8	2282.0	2622.2	3264.4	2935.8
80°	189.2	192.5	229.0	265.5	313.7	310.3	906.1	1062.1	1497.0	1279.6
82.5°	147.7	152.7	177.6	197.5	220.7	187.5	371.8	400.0	615.7	489.6
85°	102.9	106.2	139.4	134.4	134.4	104.6	154.3	162.6	244.0	232.3
87.5°	24.9	28.2	68.0	74.7	56.4	31.5	48.1	54.8	88.0	101.2
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°
1903.6	0°	1903.6	1903.6	1903.6	1903.6	1903.6	1903.6	1903.6	1903.6	1903.6	1903.6
1936.8	2.5°	1911.9	1918.5	1946.7	1931.8	1940.1	1905.2	1933.4	1910.2	1930.1	1920.2
1951.7	5°	1965.0	1950.0	1966.6	1955.0	1955.0	1968.3	1988.2	1973.3	2003.1	1989.9
1963.3	7.5°	1986.5	1988.2	1998.2	1999.8	1991.5	2033.0	2034.7	2029.7	2057.9	2051.3
2043.0	10°	2039.7	2041.3	2059.6	2069.5	2061.2	2076.2	2059.6	2046.3	2044.6	2038.0
2106.0	12.5°	2124.3	2140.9	2137.6	2145.9	2147.5	2084.5	2046.3	1981.6	1973.3	1981.6
2199.0	15°	2202.3	2195.7	2199.0	2215.6	2145.9	2044.6	1976.6	1921.8	1925.1	1926.8
2320.1	17.5°	2295.2	2300.2	2305.2	2228.8	2101.1	1981.6	1921.8	1921.8	1905.2	1911.9
2404.8	20°	2401.4	2381.5	2338.4	2230.5	2023.1	1908.5	1890.3	1890.3	1870.4	1857.1
2496.0	22.5°	2484.4	2444.6	2379.9	2179.1	1953.4	1880.3	1835.5	1804.0	1780.8	1754.2
2597.3	25°	2537.5	2516.0	2389.8	2125.9	1901.9	1805.6	1739.3	1691.1	1661.3	1626.4
2676.9	27.5°	2618.9	2577.4	2418.0	2064.5	1845.5	1731.0	1628.1	1553.4	1497.0	1460.4
2798.1	30°	2728.4	2668.6	2398.1	1976.6	1759.2	1601.5	1480.4	1384.1	1319.4	1289.5
2912.6	32.5°	2818.0	2740.0	2381.5	1896.9	1662.9	1470.4	1309.4	1211.5	1175.0	1136.8
3105.1	35°	2988.9	2834.6	2369.9	1852.1	1576.6	1339.3	1170.0	1085.4	1038.9	982.5
3219.6	37.5°	3120.1	2998.9	2341.7	1759.2	1465.4	1211.5	1063.8	987.5	917.8	858.0
3485.2	40°	3325.8	3227.9	2343.4	1628.1	1334.3	1102.0	980.8	901.2	813.2	761.8
3878.5	42.5°	3712.5	3453.6	2353.3	1523.5	1186.6	1012.4	906.1	811.5	723.6	680.4
4326.6	45°	4187.2	3764.0	2291.9	1428.9	1035.6	927.7	816.5	721.9	665.5	634.0
4935.7	47.5°	4733.2	4067.7	2208.9	1251.3	909.5	838.1	733.5	678.8	637.3	619.0
5720.6	50°	5343.9	4502.5	2185.7	1088.7	811.5	761.8	693.7	652.2	624.0	602.4
6605.2	52.5°	6130.6	5008.7	2139.2	921.1	726.9	700.4	678.8	650.6	625.7	607.4
7430.0	55°	6882.4	5569.6	2089.4	783.3	667.2	670.5	682.1	657.2	635.6	607.4
8354.4	57.5°	7728.8	6142.2	1905.2	682.1	622.4	655.5	678.8	650.6	629.0	607.4
9300.4	60°	8251.5	6464.1	1545.1	594.1	582.5	627.3	658.9	629.0	605.8	614.1
9735.2	62.5°	8464.0	6294.9	1165.0	539.4	554.3	589.2	627.3	615.7	599.1	630.6
9730.2	65°	8102.2	5904.9	833.1	492.9	516.1	551.0	599.1	612.4	617.4	678.8
8937.0	67.5°	7209.3	5141.4	612.4	454.7	476.3	527.8	619.0	640.6	637.3	713.6
7499.7	70°	5768.8	4021.2	478.0	423.2	461.4	546.0	647.2	647.2	624.0	713.6
5720.6	72.5°	4197.1	2834.6	411.6	386.7	423.2	501.2	643.9	642.3	612.4	652.2
3642.8	75°	2540.8	1649.6	363.5	350.2	363.5	429.8	615.7	605.8	564.3	560.9
1752.5	77.5°	1266.3	829.8	297.1	310.3	317.0	360.1	541.0	556.0	499.5	486.3
692.1	80°	534.4	361.8	247.3	267.2	267.2	303.7	449.8	459.7	414.9	390.0
273.8	82.5°	244.0	207.5	210.8	232.3	217.4	235.7	356.8	368.4	336.9	295.4
116.2	85°	102.9	117.8	161.0	182.6	161.0	152.7	245.6	258.9	219.1	182.6
49.8	87.5°	46.5	64.7	101.2	132.8	81.3	71.4	131.1	136.1	109.5	81.3
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>
1903.6
1901.9
1971.6
2041.3
2038.0
1984.9
1950.0
1913.5
1837.2
1739.3
1633.0
1477.0
1306.1
1135.2
977.5
859.7
766.7
683.8
640.6
615.7
605.8
605.8
605.8
605.8
607.4
622.4
678.8
718.6
698.7
629.0
554.3
478.0
381.7
288.8
184.2
76.3
0.0

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