

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: P477647

Luminaire Tested: **IFLD-S-SA2D-727-U-T3R**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P477647  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2D-727-U-T3R  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens  
Light Source: (32) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

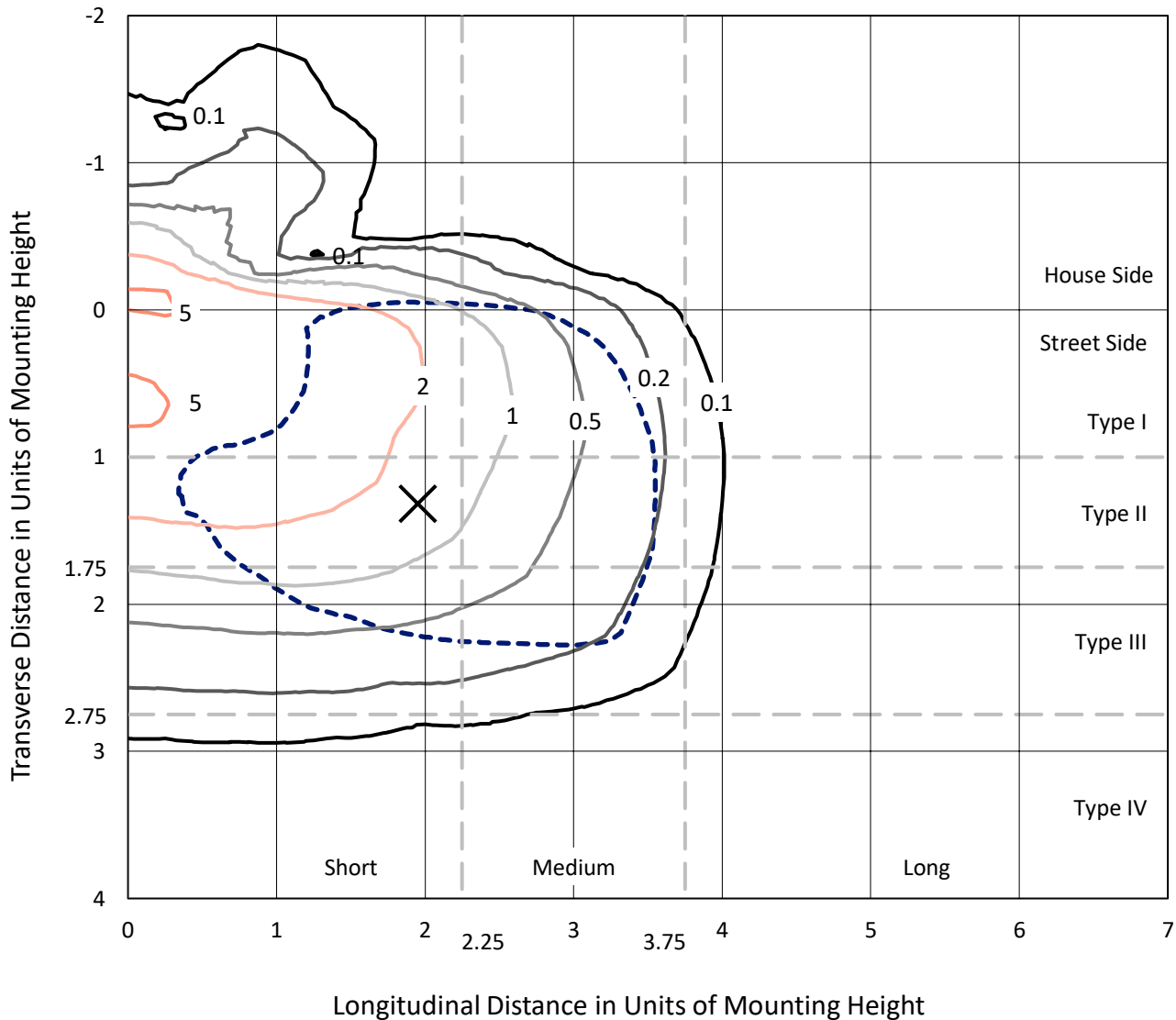
Lumens per Lamp: N/A  
Luminaire Lumens: 12847.8 lumens  
Efficiency: N/A  
Efficacy: 103.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2

Input Watts (W): 123.9  
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

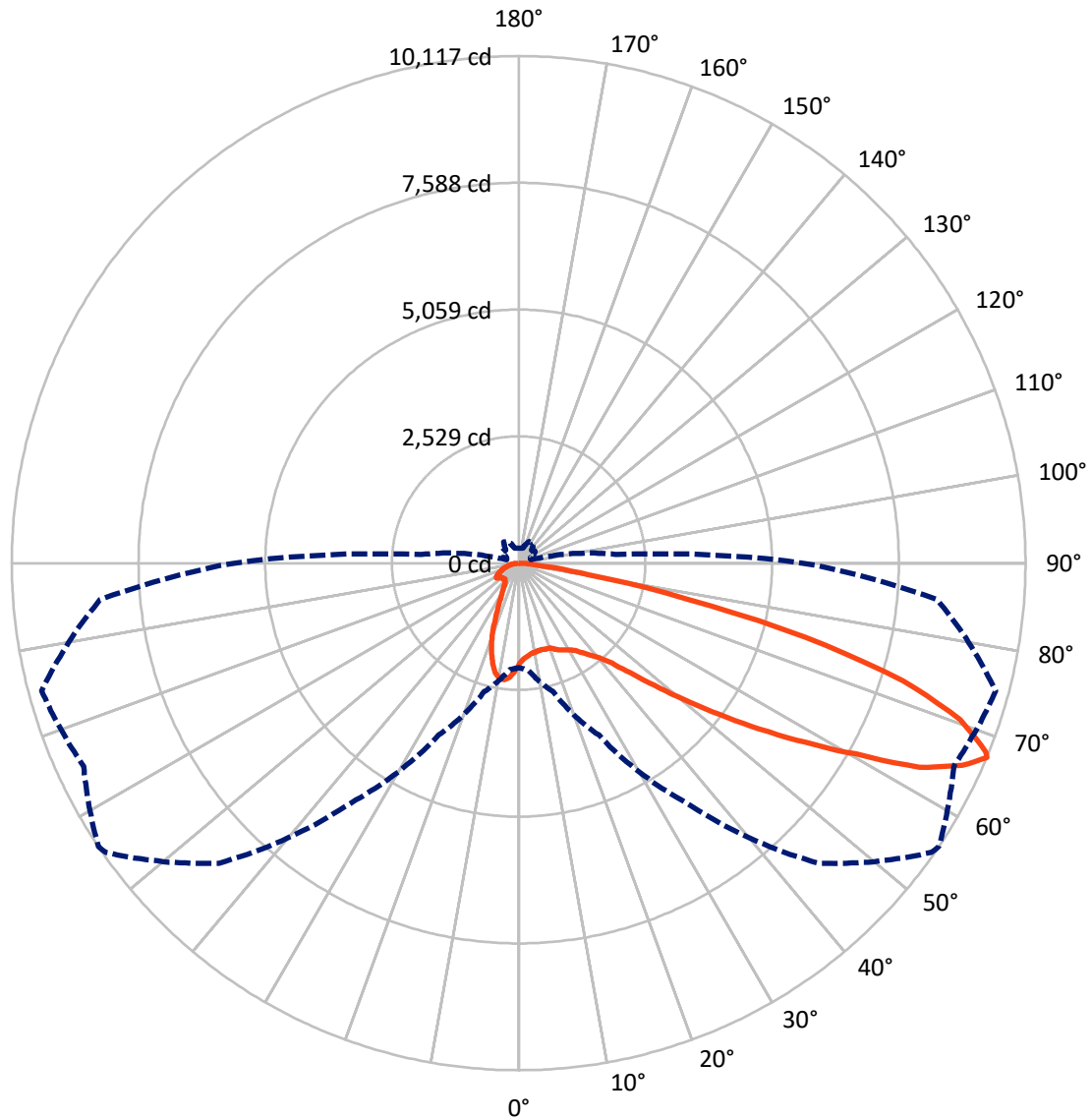
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.6 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral    - - - Horizontal Cone Through 67-Deg Vertical

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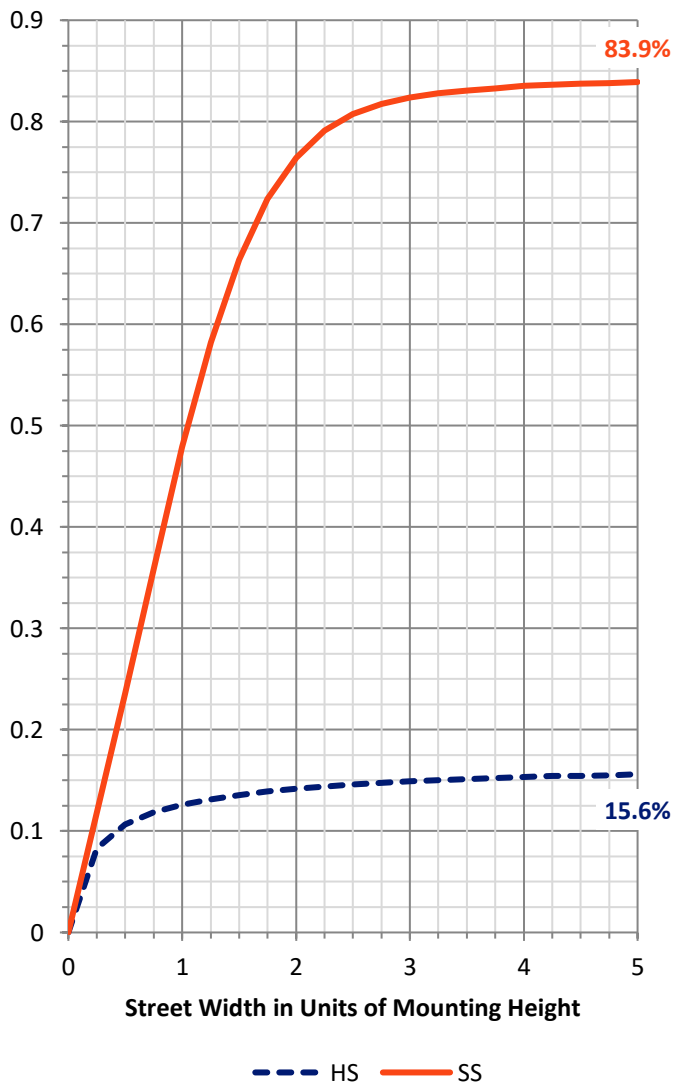
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2033.9	0.0	2033.9
	% Fixture	15.8	0.0	15.8
<b>Street Side</b>	Lumens	10813.8	0.0	10813.8
	% Fixture	84.2	0.0	84.2
<b>Total</b>	Lumens	12847.8	0.0	12847.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	192.6	1.5
10°-20°	525.4	4.1
20°-30°	824.0	6.4
30°-40°	1176.2	9.2
40°-50°	1775.3	13.8
50°-60°	2826.0	22.0
60°-70°	3612.8	28.1
70°-80°	1761.5	13.7
80°-90°	154.1	1.2
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°	12847.8	100.0
0°-180°	12847.8	100.0

**Coefficient of Utilization**

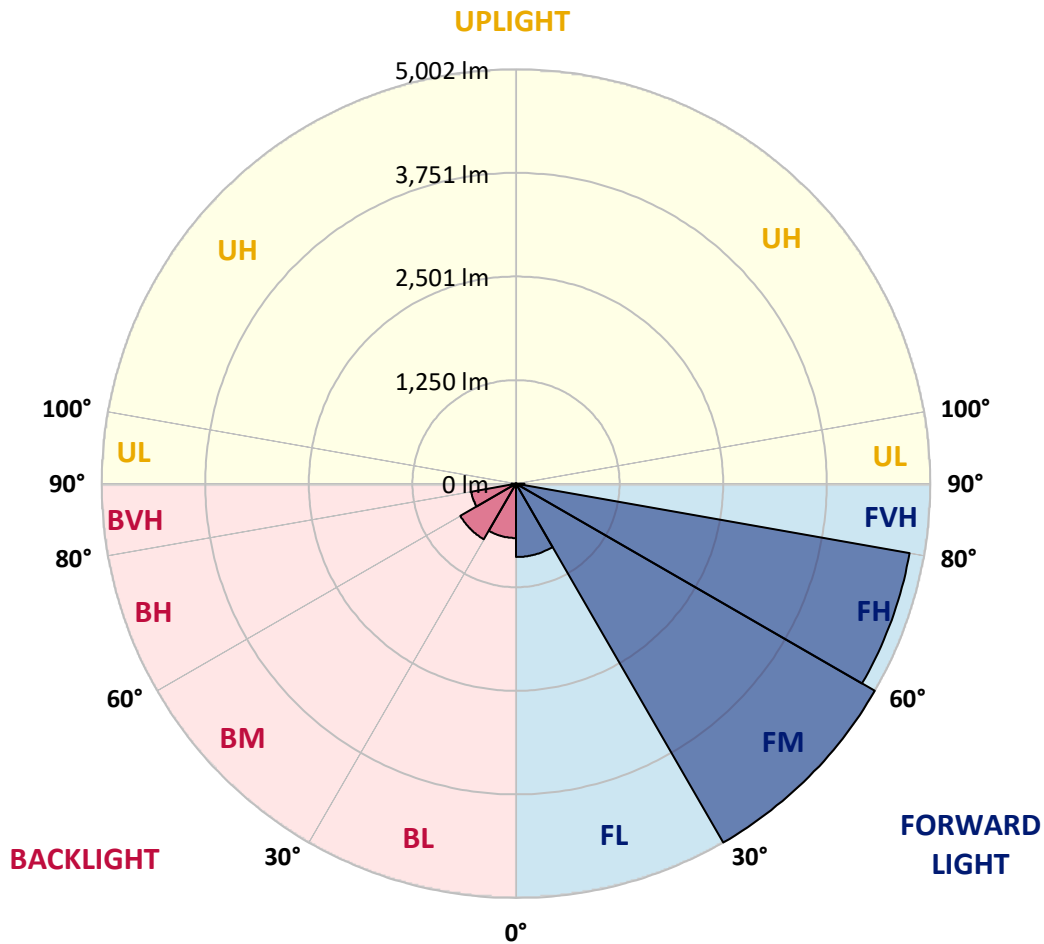


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	885.4	6.9			
FM (30°-60°)	5001.5	38.9			
FH (60°-80°)	4824.6	37.6			G2/5000
FVH (80°-90°)	102.3	0.8			G2/225
BL (0°-30°)	656.6	5.1	B2/1000		
BM (30°-60°)	776.0	6.0	B1/1000		
BH (60°-80°)	549.6	4.3	B2/1000		G2/1000
BVH (80°-90°)	51.8	0.4			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°	1999.1	1999.1	1999.1	1999.1	1999.1	1999.1	1999.1	1999.1	1999.1	1999.1
2.5°	1836.4	1828.9	1837.9	1828.9	1869.5	1893.6	1901.2	1911.7	1949.4	1985.5
5°	1759.6	1726.4	1762.6	1774.6	1777.6	1818.3	1860.5	1868.0	1887.6	1946.4
7.5°	1631.5	1669.2	1655.6	1691.8	1729.4	1770.1	1839.4	1819.8	1892.1	1947.9
10°	1604.4	1607.4	1622.5	1636.0	1669.2	1721.9	1818.3	1806.3	1880.1	1999.1
12.5°	1631.5	1631.5	1627.0	1616.4	1654.1	1705.3	1782.2	1788.2	1904.2	2014.1
15°	1726.4	1744.5	1696.3	1703.8	1688.7	1705.3	1773.1	1786.7	1913.2	2026.2
17.5°	1958.4	1952.4	1895.1	1815.3	1749.0	1738.5	1785.2	1800.2	1904.2	2060.8
20°	2184.4	2172.3	2072.9	1990.0	1859.0	1797.2	1804.7	1806.3	1919.2	2083.4
22.5°	2436.0	2467.6	2359.1	2190.4	2027.7	1874.0	1843.9	1868.0	1953.9	2095.5
25°	2830.7	2762.9	2669.5	2448.0	2185.9	1993.1	1908.7	1920.7	1987.0	2125.6
27.5°	3115.4	3088.3	2942.1	2762.9	2407.3	2086.5	1943.3	1965.9	2047.3	2124.1
30°	3389.6	3389.6	3300.7	3032.5	2640.8	2243.1	2017.2	2006.6	2018.7	2121.1
32.5°	3710.4	3666.7	3538.7	3360.9	2934.6	2386.2	2075.9	2078.9	2078.9	2176.8
35°	3879.2	3950.0	3864.1	3574.8	3159.1	2624.3	2217.5	2194.9	2178.4	2238.6
37.5°	4126.2	4168.4	4078.0	3907.8	3437.8	2817.1	2342.6	2324.5	2228.1	2286.8
40°	4275.4	4267.8	4264.8	4186.5	3806.8	3044.6	2526.3	2479.6	2350.1	2457.0
42.5°	4359.7	4344.7	4529.9	4481.7	4154.8	3379.0	2756.8	2731.2	2588.1	2759.8
45°	4454.6	4566.1	4718.3	4853.8	4560.1	3849.0	3147.0	3110.9	2982.8	3201.2
47.5°	4537.5	4674.6	4868.9	5013.5	4926.1	4359.7	3629.1	3638.1	3553.8	3778.2
50°	4676.1	4689.6	4953.3	5245.5	5313.3	4831.2	4276.9	4261.8	4224.1	4539.0
52.5°	4633.9	4674.6	5007.5	5381.1	5492.6	5329.9	4972.8	5018.0	4968.3	5364.5
55°	3946.9	4069.0	4974.4	5524.2	5917.4	5893.3	5867.7	5837.6	5834.5	6292.5
57.5°	3635.1	3734.5	4382.3	5682.4	6372.4	6550.1	6715.8	6749.0	6747.5	7300.3
60°	3430.2	3532.7	4142.8	5596.5	6759.5	7410.3	7728.2	7732.7	7723.7	8377.5
62.5°	3029.5	3128.9	3728.5	5126.5	6866.5	8204.2	8912.3	8971.0	8556.7	9305.4
65°	2547.4	2628.8	3157.6	4407.9	6581.8	8708.9	9802.6	9733.3	9258.7	9835.7
67°	2083.4	2137.7	2652.9	3784.2	5837.6	8466.3	10060.2	10117.4	9582.6	9858.3
67.5°	1950.9	2000.6	2487.2	3571.8	5554.3	8282.6	10069.2	10060.2	9588.7	9862.8
70°	1354.3	1375.4	1694.8	2457.0	4091.6	6997.5	9334.1	9355.2	9186.4	9328.0
72.5°	897.9	929.5	1132.9	1548.6	2411.9	5091.9	7802.0	8028.0	7921.0	7648.3
75°	578.5	596.6	741.2	922.0	1187.1	2899.9	5763.7	5914.4	5668.8	4730.3
77.5°	323.9	343.5	447.4	560.4	578.5	1206.7	3237.4	3424.2	2901.5	2009.6
80°	201.9	227.5	337.4	332.9	275.7	442.9	1334.7	1429.6	1160.0	691.5
82.5°	152.2	171.7	260.6	233.5	155.2	197.3	500.1	536.3	424.8	266.6
85°	103.9	131.1	188.3	144.6	81.3	94.9	198.9	213.9	194.3	129.6
87.5°	37.7	55.7	97.9	72.3	36.2	28.6	64.8	72.3	69.3	58.8
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°
1999.1	0°	1999.1	1999.1	1999.1	1999.1	1999.1	1999.1	1999.1	1999.1	1999.1	1999.1
2017.2	2.5°	2045.8	2066.9	2077.4	2139.2	2164.8	2160.3	2166.3	2175.3	2184.4	2196.4
2042.8	5°	2062.4	2127.1	2161.8	2234.1	2282.3	2261.2	2288.3	2280.8	2270.2	2268.7
2089.5	7.5°	2116.6	2199.4	2303.4	2323.0	2344.1	2291.3	2246.1	2184.4	2169.3	2116.6
2128.6	10°	2213.0	2280.8	2407.3	2414.9	2321.5	2185.9	2085.0	1956.9	1955.4	1878.6
2188.9	12.5°	2304.9	2381.7	2484.2	2440.5	2217.5	2032.2	1868.0	1727.9	1669.2	1630.0
2225.1	15°	2362.1	2488.7	2542.9	2354.6	2035.2	1785.2	1572.8	1422.1	1361.8	1333.2
2270.2	17.5°	2414.9	2591.1	2567.0	2204.0	1810.8	1530.6	1277.5	1146.4	1129.9	1108.8
2342.6	20°	2487.2	2628.8	2481.2	2008.1	1556.2	1202.2	1041.0	977.7	992.8	1001.8
2350.1	22.5°	2555.0	2648.4	2372.7	1794.2	1229.3	952.1	872.2	885.8	908.4	938.5
2368.2	25°	2585.1	2680.0	2226.6	1498.9	935.5	801.4	783.4	806.0	843.6	845.1
2393.8	27.5°	2604.7	2657.4	2050.3	1211.2	739.7	700.5	727.6	744.2	748.7	766.8
2448.0	30°	2639.3	2610.7	1827.3	866.2	620.7	622.2	656.8	656.8	656.8	670.4
2502.2	32.5°	2699.6	2579.1	1566.7	632.7	534.8	583.0	574.0	571.0	564.9	548.4
2571.5	35°	2737.3	2493.2	1236.8	468.5	480.6	534.8	531.8	485.1	406.7	367.6
2747.8	37.5°	2815.6	2449.5	909.9	361.6	448.9	510.7	494.1	381.1	295.3	257.6
2966.2	40°	2984.3	2420.9	629.7	316.4	427.8	498.6	441.4	325.4	226.0	159.7
3303.7	42.5°	3190.7	2422.4	427.8	298.3	429.3	524.3	424.8	278.7	159.7	128.0
3754.1	45°	3467.9	2399.8	293.8	298.3	456.5	566.4	435.4	253.1	155.2	162.7
4319.0	47.5°	3766.2	2419.4	218.4	271.2	461.0	567.9	397.7	248.6	149.1	188.3
4933.7	50°	4114.2	2439.0	180.8	250.1	462.5	549.9	366.1	242.5	155.2	198.9
5638.7	52.5°	4472.7	2500.7	153.7	236.5	480.6	542.3	366.1	251.6	155.2	173.2
6536.6	55°	5007.5	2658.9	221.5	295.3	546.8	592.0	450.4	352.5	216.9	223.0
7396.8	57.5°	5598.0	2821.6	247.1	310.3	561.9	533.3	485.1	388.7	229.0	230.5
8065.6	60°	5986.7	2827.6	245.6	302.8	525.8	461.0	474.5	409.8	233.5	197.3
8479.9	62.5°	6141.9	2643.8	256.1	302.8	489.6	430.8	486.6	441.4	241.0	247.1
8597.4	65°	5965.6	2264.2	247.1	271.2	430.8	385.7	489.6	447.4	263.6	248.6
8386.5	67°	5689.9	1950.9	251.6	257.6	400.7	366.1	515.2	470.0	305.8	298.3
8276.5	67.5°	5611.6	1868.0	250.1	250.1	390.2	360.0	521.2	470.0	311.8	308.8
7304.9	70°	4945.7	1514.0	256.1	247.1	345.0	342.0	554.4	495.6	358.5	361.6
5366.0	72.5°	3764.7	1147.9	254.6	247.1	299.8	326.9	558.9	512.2	390.2	361.6
3005.4	75°	2139.2	686.9	224.5	215.4	236.5	284.7	522.7	488.1	379.6	323.9
1200.7	77.5°	884.3	354.0	206.4	194.3	195.8	232.0	435.4	455.0	361.6	275.7
400.7	80°	329.9	212.4	165.7	155.2	150.6	170.2	310.3	363.1	308.8	226.0
176.3	82.5°	171.7	132.6	113.0	113.0	102.4	108.5	167.2	241.0	233.5	155.2
70.8	85°	87.4	75.3	64.8	63.3	57.2	51.2	84.4	143.1	134.1	85.9
31.6	87.5°	46.7	42.2	27.1	25.6	21.1	13.6	15.1	28.6	46.7	37.7
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>
1999.1
2208.5
2282.3
2134.7
1875.6
1621.0
1327.2
1119.3
991.3
922.0
860.2
783.4
685.4
539.3
385.7
256.1
155.2
125.0
165.7
209.4
230.5
177.8
235.0
223.0
203.4
250.1
244.0
293.8
302.8
334.4
320.9
289.2
260.6
206.4
122.0
70.8
27.1
0.0

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