

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: P477222

Luminaire Tested: **IFLD-S-SA3C-722-U-T3**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P477222  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3C-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**

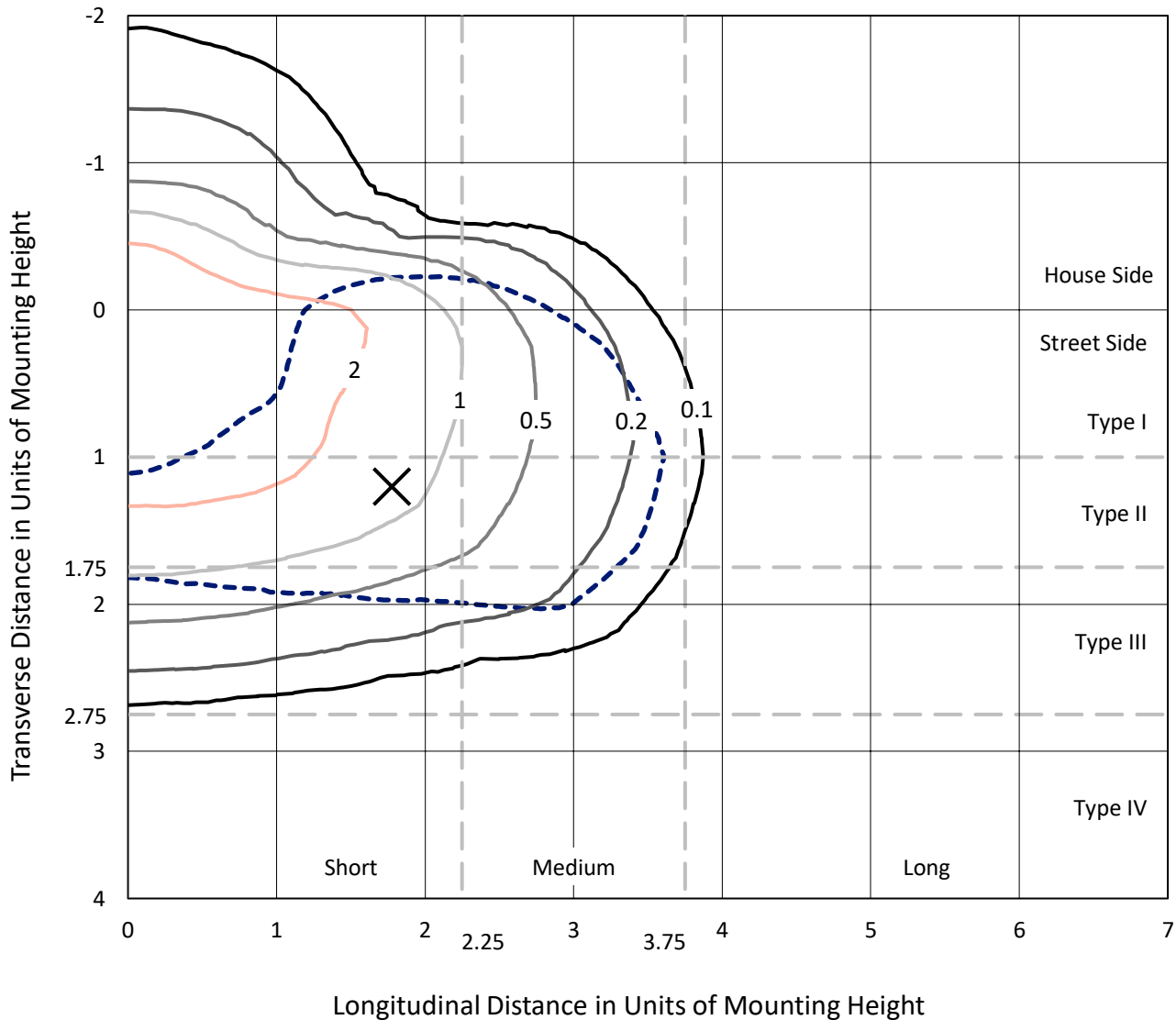
Lumens per Lamp: N/A  
Luminaire Lumens: 15891.6 lumens  
Efficiency: N/A  
Efficacy: 98.8 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3

Input Watts (W): 160.8  
Input Voltage (V): 120  
Input Current (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

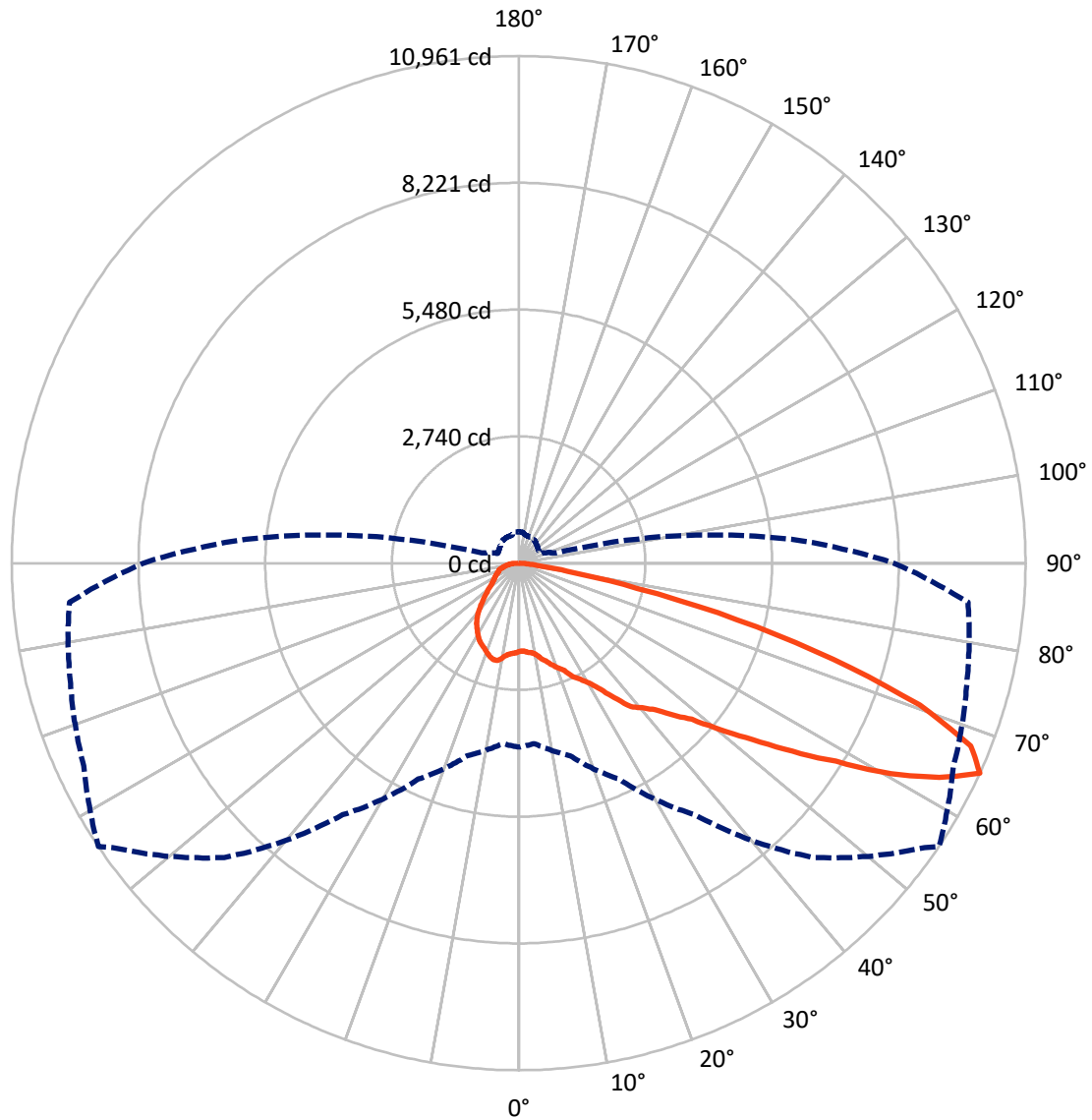
✕ Max cd  
 - - - 1/2 Max cd



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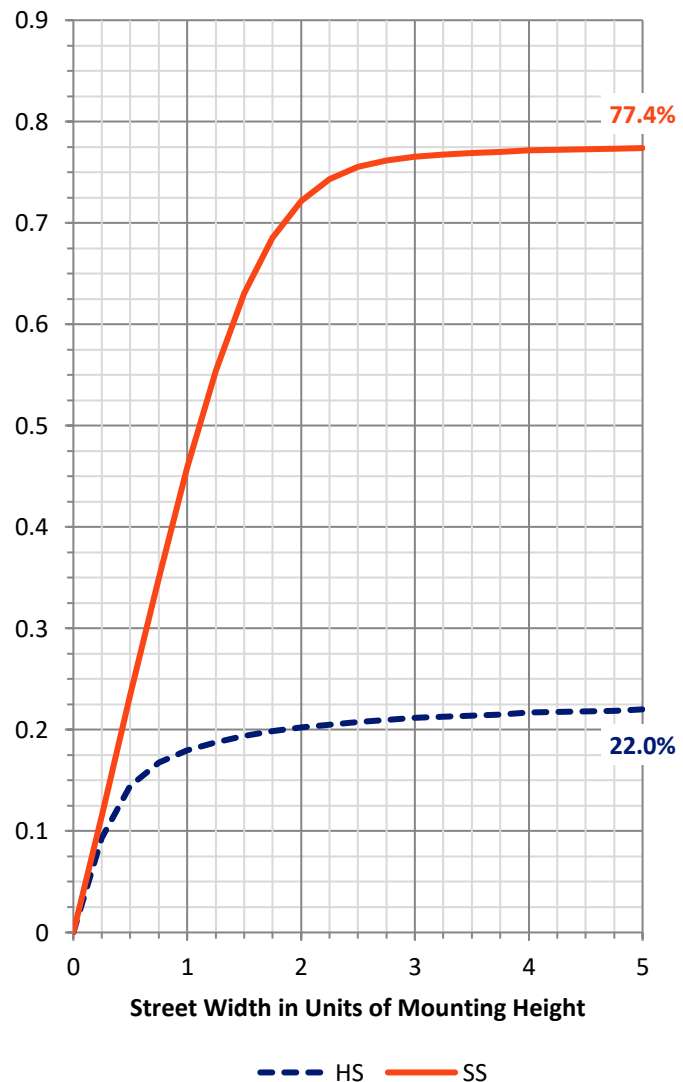
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3564.0	0.0	3564.0
	% Fixture	22.4	0.0	22.4
<b>Street Side</b>	Lumens	12327.6	0.0	12327.6
	% Fixture	77.6	0.0	77.6
<b>Total</b>	Lumens	15891.6	0.0	15891.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	189.0	1.2
10°-20°	613.8	3.9
20°-30°	1092.9	6.9
30°-40°	1636.5	10.3
40°-50°	2424.7	15.3
50°-60°	3736.2	23.5
60°-70°	4229.8	26.6
70°-80°	1755.4	11.0
80°-90°	213.3	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°	15891.6	100.0
0°-180°	15891.6	100.0

**Coefficient of Utilization**



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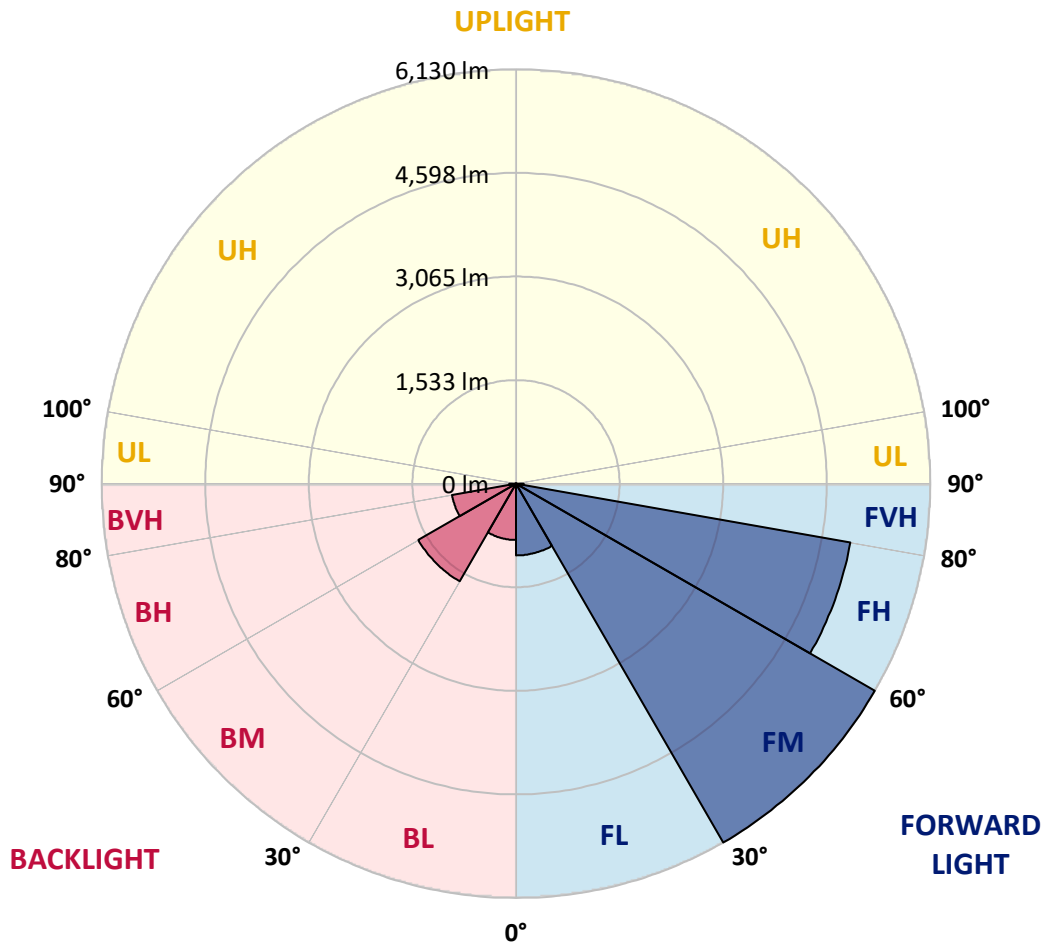
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1062.0	6.7			
FM (30°-60°)	6130.3	38.6			
FH (60°-80°)	5022.8	31.6			G3/7500
FVH (80°-90°)	112.5	0.7			G2/225
BL (0°-30°)	833.6	5.2	B2/1000		
BM (30°-60°)	1667.2	10.5	B2/2500		
BH (60°-80°)	962.4	6.1	B2/1000		G2/1000
BVH (80°-90°)	100.8	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°	1907.4	1907.4	1907.4	1907.4	1907.4	1907.4	1907.4	1907.4	1907.4	1907.4
2.5°	1857.6	1867.5	1860.9	1880.8	1897.5	1897.5	1910.8	1900.8	1914.1	1932.4
5°	1919.1	1879.2	1900.8	1910.8	1905.8	1914.1	1900.8	1934.1	1912.4	1947.4
7.5°	1934.1	1949.0	1967.3	1950.7	1965.7	1957.3	1959.0	1954.0	1942.4	1970.6
10°	2043.8	2022.2	2063.8	2038.8	2035.5	2032.2	2025.5	2000.6	2028.8	2030.5
12.5°	2170.2	2150.2	2148.6	2128.6	2155.2	2107.0	2117.0	2103.7	2108.7	2115.3
15°	2261.7	2253.3	2291.6	2268.3	2233.4	2211.8	2235.1	2198.5	2216.8	2213.4
17.5°	2442.9	2441.3	2413.0	2374.7	2354.8	2323.2	2318.2	2303.2	2316.5	2309.9
20°	2569.3	2587.6	2592.6	2547.7	2471.2	2436.3	2428.0	2416.3	2431.3	2426.3
22.5°	2762.2	2734.0	2755.6	2677.4	2649.1	2566.0	2536.1	2519.4	2590.9	2572.6
25°	2885.3	2915.2	2893.6	2867.0	2803.8	2700.7	2679.1	2715.7	2743.9	2724.0
27.5°	3163.0	3133.1	3113.1	3033.3	2991.7	2883.6	2858.7	2845.4	2852.0	2863.7
30°	3374.2	3390.8	3345.9	3289.4	3184.6	3074.9	3016.7	3005.0	2981.7	2961.8
32.5°	3675.2	3650.3	3623.7	3587.1	3497.3	3352.6	3296.0	3252.8	3183.0	3089.8
35°	3819.9	3891.4	3871.4	3773.3	3705.1	3650.3	3633.6	3567.1	3508.9	3362.6
37.5°	4061.0	4091.0	4062.7	4031.1	3999.5	3941.3	3921.3	3939.6	3824.9	3583.7
40°	4217.3	4280.5	4338.7	4250.6	4243.9	4255.6	4132.5	4110.9	3874.8	3748.4
42.5°	4536.6	4563.2	4574.9	4571.6	4609.8	4609.8	4375.3	4328.8	4160.8	4057.7
45°	4959.0	4980.6	5022.2	5052.2	5008.9	5030.5	4696.3	4678.0	4528.3	4508.4
47.5°	5324.9	5376.4	5469.6	5557.7	5614.2	5541.1	5175.2	5045.5	5007.3	5127.0
50°	5644.2	5582.7	5800.5	5890.3	6138.1	6259.5	5704.0	5652.5	5591.0	5820.5
52.5°	5675.8	5758.9	6066.6	6246.2	6756.7	6981.2	6352.6	6331.0	6256.2	6520.6
55°	5901.9	5892.0	6201.3	6590.4	7197.4	7574.9	7197.4	7184.1	7021.1	7272.2
57.5°	5863.7	5965.1	6209.6	6753.4	7594.9	8211.8	8176.9	8085.4	7857.6	8062.2
60°	5734.0	5760.6	6058.3	6748.4	7826.0	8865.4	9234.6	9252.9	8787.2	8950.2
62.5°	4998.9	5060.5	5438.0	6217.9	7661.4	9316.1	10267.3	10202.4	9829.9	9643.7
65°	3976.2	3914.7	4307.1	5150.3	6637.0	8996.8	10719.6	10960.8	10375.4	10034.5
67.5°	2437.9	2423.0	2800.5	3543.8	4965.7	7656.4	10358.8	10546.7	10224.0	9951.3
70°	1255.6	1217.3	1453.5	1977.3	3121.4	5617.6	9015.1	9199.6	9507.3	8925.3
72.5°	585.4	577.1	703.4	972.8	1589.8	3302.7	6981.2	7114.3	7762.8	7525.0
75°	344.2	349.2	420.7	508.9	775.0	1556.6	4633.1	4890.8	5594.3	5423.0
77.5°	257.8	257.8	299.3	354.2	452.3	602.0	2286.6	2627.5	3271.1	2941.8
80°	189.6	192.9	229.5	266.1	314.3	311.0	908.0	1064.3	1500.0	1282.2
82.5°	148.0	153.0	177.9	197.9	221.2	187.9	372.5	400.8	617.0	490.6
85°	103.1	106.4	139.7	134.7	134.7	104.8	154.7	163.0	244.5	232.8
87.5°	24.9	28.3	68.2	74.8	56.5	31.6	48.2	54.9	88.1	101.4
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°
1907.4	0°	1907.4	1907.4	1907.4	1907.4	1907.4	1907.4	1907.4	1907.4	1907.4	1907.4
1940.7	2.5°	1915.8	1922.4	1950.7	1935.7	1944.0	1909.1	1937.4	1914.1	1934.1	1924.1
1955.7	5°	1969.0	1954.0	1970.6	1959.0	1959.0	1972.3	1992.3	1977.3	2007.2	1993.9
1967.3	7.5°	1990.6	1992.3	2002.2	2003.9	1995.6	2037.2	2038.8	2033.8	2062.1	2055.5
2047.1	10°	2043.8	2045.5	2063.8	2073.7	2065.4	2080.4	2063.8	2050.5	2048.8	2042.1
2110.3	12.5°	2128.6	2145.3	2141.9	2150.2	2151.9	2088.7	2050.5	1985.6	1977.3	1985.6
2203.5	15°	2206.8	2200.1	2203.5	2220.1	2150.2	2048.8	1980.6	1925.7	1929.1	1930.7
2324.9	17.5°	2299.9	2304.9	2309.9	2233.4	2105.3	1985.6	1925.7	1925.7	1909.1	1915.8
2409.7	20°	2406.3	2386.4	2343.1	2235.1	2027.2	1912.4	1894.1	1894.1	1874.2	1860.9
2501.1	22.5°	2489.5	2449.6	2384.7	2183.5	1957.3	1884.2	1839.3	1807.7	1784.4	1757.8
2602.6	25°	2542.7	2521.1	2394.7	2130.3	1905.8	1809.3	1742.8	1694.6	1664.7	1629.7
2682.4	27.5°	2624.2	2582.6	2423.0	2068.8	1849.2	1734.5	1631.4	1556.6	1500.0	1463.4
2803.8	30°	2734.0	2674.1	2403.0	1980.6	1762.8	1604.8	1483.4	1386.9	1322.1	1292.1
2918.5	32.5°	2823.8	2745.6	2386.4	1900.8	1666.3	1473.4	1312.1	1214.0	1177.4	1139.1
3111.5	35°	2995.0	2840.4	2374.7	1855.9	1579.8	1342.0	1172.4	1087.6	1041.0	984.5
3226.2	37.5°	3126.4	3005.0	2346.5	1762.8	1468.4	1214.0	1066.0	989.5	919.6	859.8
3492.3	40°	3332.6	3234.5	2348.1	1631.4	1337.0	1104.2	982.8	903.0	814.9	763.3
3886.4	42.5°	3720.1	3460.7	2358.1	1526.6	1189.0	1014.4	908.0	813.2	725.1	681.8
4335.4	45°	4195.7	3771.7	2296.6	1431.8	1037.7	929.6	818.2	723.4	666.9	635.3
4945.7	47.5°	4742.8	4076.0	2213.4	1253.9	911.3	839.8	735.0	680.2	638.6	620.3
5732.3	50°	5354.8	4511.7	2190.2	1090.9	813.2	763.3	695.1	653.6	625.3	603.7
6618.7	52.5°	6143.1	5018.9	2143.6	923.0	728.4	701.8	680.2	651.9	626.9	608.7
7445.2	55°	6896.4	5581.0	2093.7	784.9	668.5	671.8	683.5	658.5	636.9	608.7
8371.5	57.5°	7744.5	6154.7	1909.1	683.5	623.6	656.9	680.2	651.9	630.3	608.7
9319.4	60°	8268.4	6477.3	1548.2	595.3	583.7	628.6	660.2	630.3	607.0	615.3
9755.1	62.5°	8481.2	6307.7	1167.4	540.5	555.4	590.4	628.6	617.0	600.3	631.9
9750.1	65°	8118.7	5916.9	834.8	493.9	517.2	552.1	600.3	613.6	618.6	680.2
8955.2	67.5°	7224.0	5151.9	613.6	455.7	477.3	528.8	620.3	641.9	638.6	715.1
7515.0	70°	5780.5	4029.4	478.9	424.1	462.3	547.1	648.6	648.6	625.3	715.1
5732.3	72.5°	4205.7	2840.4	412.4	387.5	424.1	502.2	645.2	643.6	613.6	653.6
3650.3	75°	2546.0	1653.0	364.2	350.9	364.2	430.7	617.0	607.0	565.4	562.1
1756.1	77.5°	1268.9	831.5	297.7	311.0	317.6	360.9	542.1	557.1	500.6	487.3
693.5	80°	535.5	362.5	247.8	267.7	267.7	304.3	450.7	460.6	415.7	390.8
274.4	82.5°	244.5	207.9	211.2	232.8	217.9	236.1	357.5	369.2	337.6	296.0
116.4	85°	103.1	118.1	161.3	182.9	161.3	153.0	246.1	259.4	219.5	182.9
49.9	87.5°	46.6	64.9	101.4	133.0	81.5	71.5	131.4	136.4	109.8	81.5
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>
1907.4
1905.8
1975.6
2045.5
2042.1
1988.9
1954.0
1917.4
1840.9
1742.8
1636.4
1480.1
1308.8
1137.5
979.5
861.4
768.3
685.2
641.9
617.0
607.0
607.0
607.0
607.0
608.7
623.6
680.2
720.1
700.1
630.3
555.4
478.9
382.5
289.4
184.6
76.5
0.0

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