

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: P477413

Luminaire Tested: **IFLD-S-SA2D-750-U-T3**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P477413  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2D-750-U-T3  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3  
distribution lens  
Light Source: (32) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

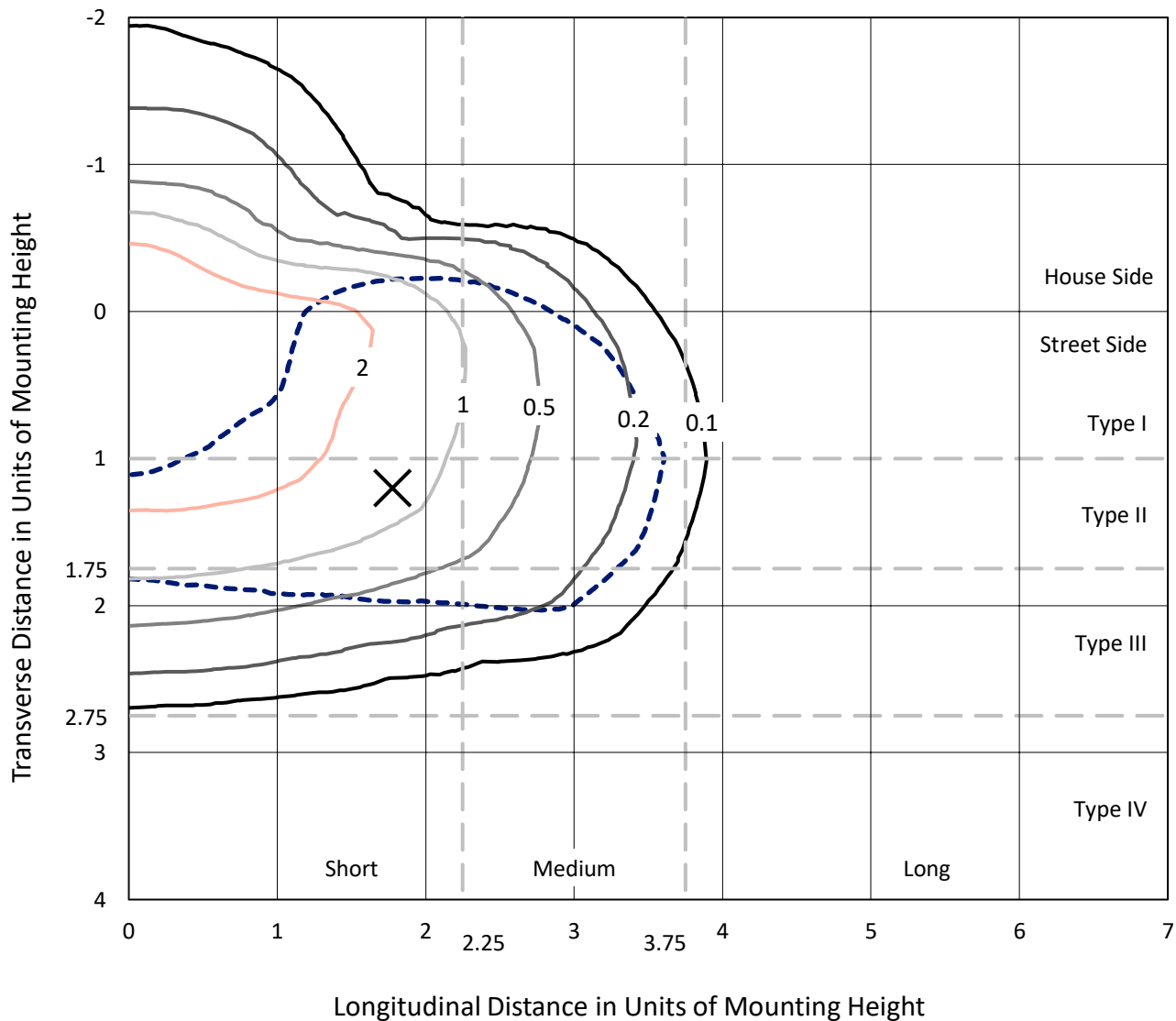
Lumens per Lamp: N/A  
Luminaire Lumens: 16294 lumens  
Efficiency: N/A  
Efficacy: 131.5 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3

Input Watts (W): 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

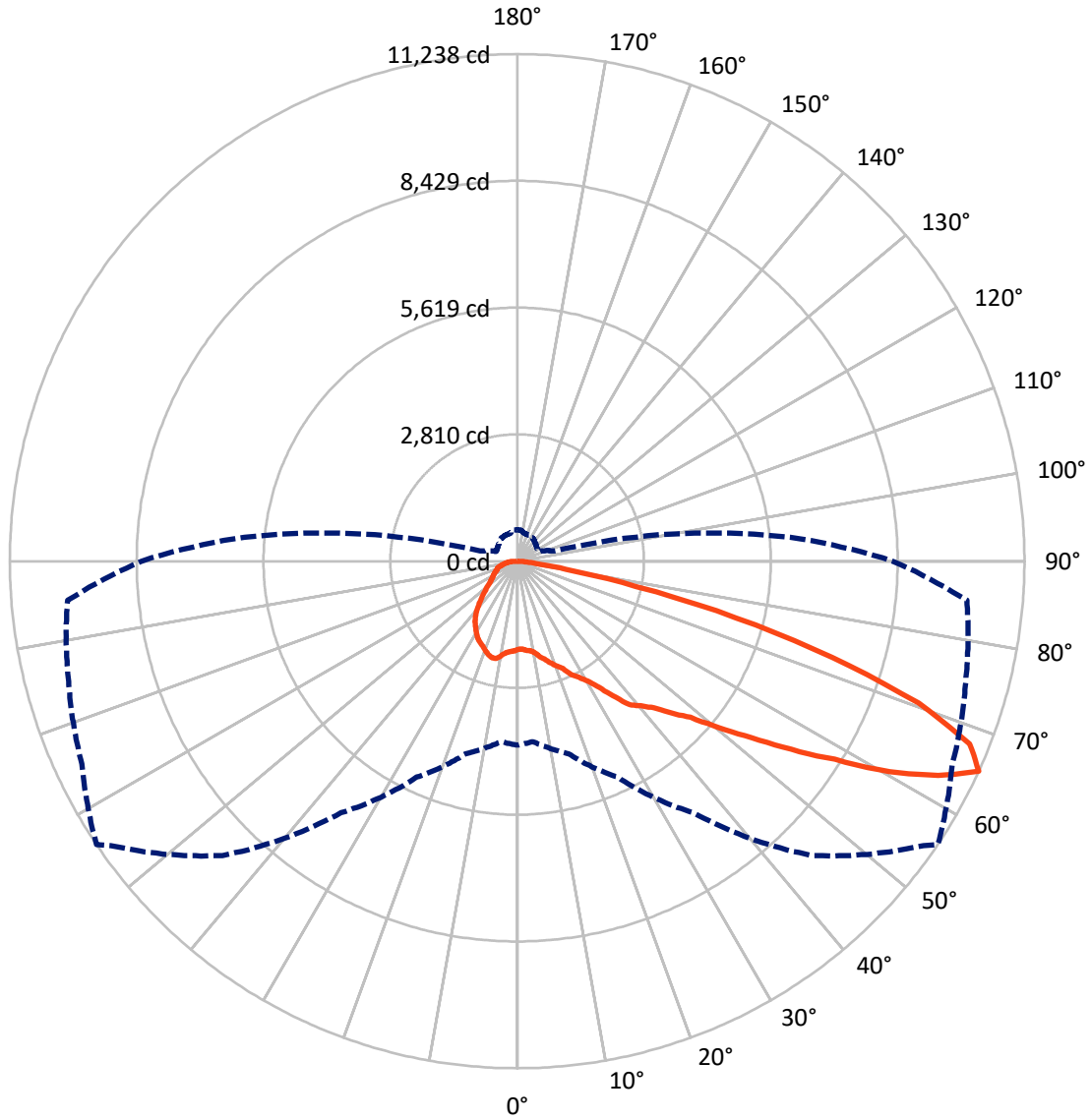
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 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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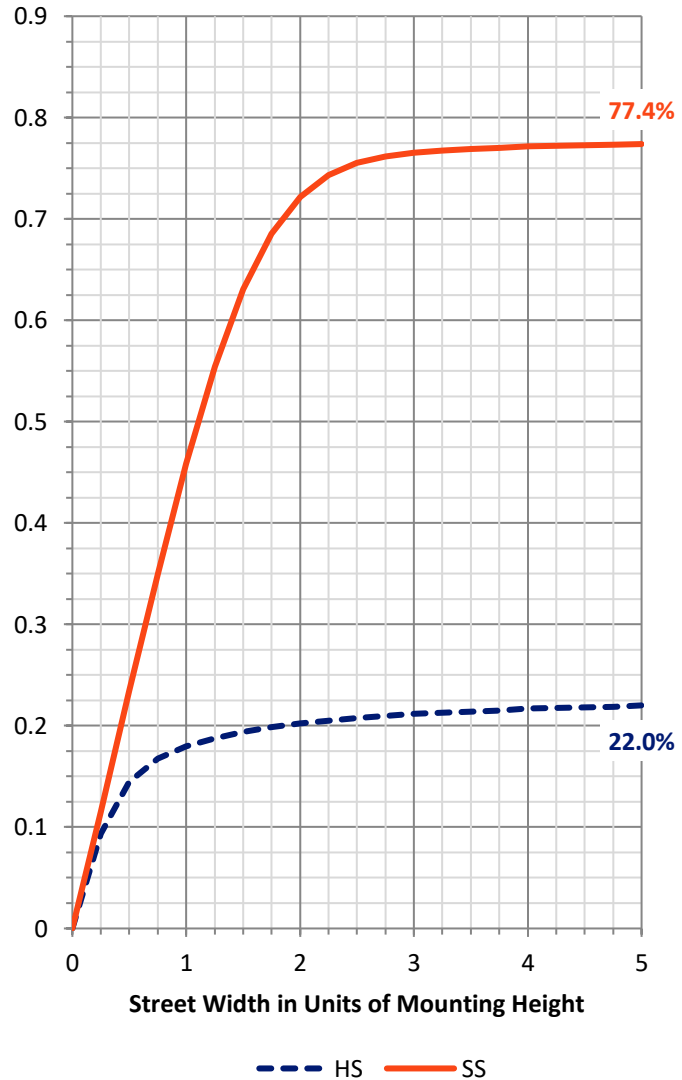
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3654.2	0.0	3654.2
	% Fixture	22.4	0.0	22.4
<b>Street Side</b>	Lumens	12639.7	0.0	12639.7
	% Fixture	77.6	0.0	77.6
<b>Total</b>	Lumens	16294.0	0.0	16294.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	193.8	1.2
10°-20°	629.3	3.9
20°-30°	1120.5	6.9
30°-40°	1678.0	10.3
40°-50°	2486.1	15.3
50°-60°	3830.8	23.5
60°-70°	4336.9	26.6
70°-80°	1799.9	11.0
80°-90°	218.7	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°	16294.0	100.0
0°-180°	16294.0	100.0

**Coefficient of Utilization**

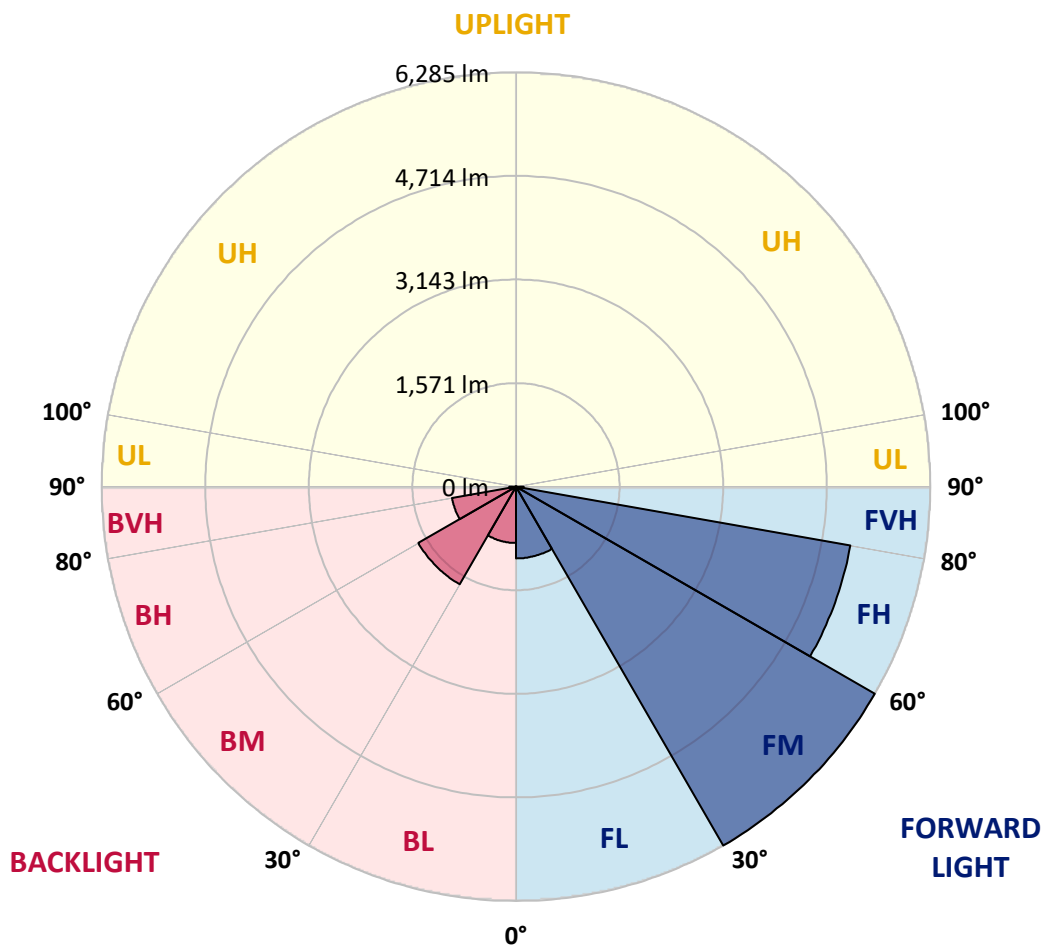


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1088.9	6.7			
FM (30°-60°)	6285.5	38.6			
FH (60°-80°)	5150.0	31.6			G3/7500
FVH (80°-90°)	115.3	0.7			G2/225
BL (0°-30°)	854.8	5.2	B2/1000		
BM (30°-60°)	1709.4	10.5	B2/2500		
BH (60°-80°)	986.8	6.1	B2/1000		G2/1000
BVH (80°-90°)	103.3	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°	1955.7	1955.7	1955.7	1955.7	1955.7	1955.7	1955.7	1955.7	1955.7	1955.7
2.5°	1904.6	1914.8	1908.0	1928.5	1945.5	1945.5	1959.1	1948.9	1962.6	1981.3
5°	1967.7	1926.8	1948.9	1959.1	1954.0	1962.6	1948.9	1983.0	1960.9	1996.7
7.5°	1983.0	1998.4	2017.1	2000.1	2015.4	2006.9	2008.6	2003.5	1991.5	2020.5
10°	2095.6	2073.4	2116.0	2090.4	2087.0	2083.6	2076.8	2051.2	2080.2	2081.9
12.5°	2225.1	2204.7	2203.0	2182.5	2209.8	2160.4	2170.6	2156.9	2162.1	2168.9
15°	2318.9	2310.4	2349.6	2325.7	2289.9	2267.8	2291.6	2254.1	2272.9	2269.5
17.5°	2504.8	2503.1	2474.1	2434.9	2414.4	2382.0	2376.9	2361.6	2375.2	2368.4
20°	2634.4	2653.1	2658.2	2612.2	2533.8	2498.0	2489.4	2477.5	2492.8	2487.7
22.5°	2832.2	2803.2	2825.3	2745.2	2716.2	2631.0	2600.3	2583.2	2656.5	2637.8
25°	2958.3	2989.0	2966.9	2939.6	2874.8	2769.1	2746.9	2784.4	2813.4	2792.9
27.5°	3243.1	3212.4	3191.9	3110.1	3067.5	2956.6	2931.1	2917.4	2924.2	2936.2
30°	3459.6	3476.7	3430.6	3372.7	3265.2	3152.7	3093.0	3081.1	3057.2	3036.8
32.5°	3768.3	3742.7	3715.4	3677.9	3585.8	3437.5	3379.5	3335.2	3263.5	3168.1
35°	3916.6	3989.9	3969.5	3868.9	3798.9	3742.7	3725.6	3657.4	3597.7	3447.7
37.5°	4163.8	4194.5	4165.5	4133.1	4100.7	4041.1	4020.6	4039.4	3921.7	3674.5
40°	4324.1	4388.9	4448.6	4358.2	4351.4	4363.3	4237.2	4215.0	3972.9	3843.3
42.5°	4651.5	4678.8	4690.7	4687.3	4726.5	4726.5	4486.1	4438.4	4266.1	4160.4
45°	5084.6	5106.7	5149.4	5180.1	5135.7	5157.9	4815.2	4796.4	4643.0	4622.5
47.5°	5459.7	5512.6	5608.0	5698.4	5756.4	5681.4	5306.2	5173.2	5134.0	5256.8
50°	5787.1	5724.0	5947.4	6039.4	6293.5	6418.0	5848.5	5795.6	5732.5	5967.8
52.5°	5819.5	5904.7	6220.2	6404.3	6927.8	7158.0	6513.4	6491.3	6414.6	6685.7
55°	6051.4	6041.1	6358.3	6757.3	7379.6	7766.7	7379.6	7366.0	7198.9	7456.4
57.5°	6012.2	6116.2	6366.8	6924.4	7787.1	8419.7	8383.9	8290.2	8056.6	8266.3
60°	5879.2	5906.4	6211.6	6919.3	8024.2	9089.8	9468.4	9487.1	9009.7	9176.8
62.5°	5125.5	5188.6	5575.6	6375.3	7855.4	9551.9	10527.2	10460.7	10078.8	9887.8
65°	4076.9	4013.8	4416.2	5280.7	6805.0	9224.5	10991.0	11238.3	10638.1	10288.5
67.5°	2499.7	2484.3	2871.4	3633.5	5091.4	7850.2	10621.0	10813.7	10482.9	10203.3
70°	1287.3	1248.1	1490.2	2027.4	3200.5	5759.8	9243.3	9432.6	9748.0	9151.2
72.5°	600.2	591.7	721.3	997.5	1630.1	3386.3	7158.0	7294.4	7959.4	7715.5
75°	353.0	358.1	431.4	521.8	794.6	1596.0	4750.4	5014.7	5735.9	5560.3
77.5°	264.3	264.3	306.9	363.2	463.8	617.2	2344.5	2694.0	3353.9	3016.3
80°	194.4	197.8	235.3	272.8	322.3	318.9	931.0	1091.3	1538.0	1314.6
82.5°	151.8	156.9	182.4	202.9	226.8	192.7	381.9	410.9	632.6	503.0
85°	105.7	109.1	143.2	138.1	138.1	107.4	158.6	167.1	250.6	238.7
87.5°	25.6	29.0	69.9	76.7	58.0	32.4	49.4	56.3	90.4	104.0
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°
1955.7	0°	1955.7	1955.7	1955.7	1955.7	1955.7	1955.7	1955.7	1955.7	1955.7	1955.7
1989.8	2.5°	1964.3	1971.1	2000.1	1984.7	1993.3	1957.4	1986.4	1962.6	1983.0	1972.8
2005.2	5°	2018.8	2003.5	2020.5	2008.6	2008.6	2022.2	2042.7	2027.4	2058.0	2044.4
2017.1	7.5°	2041.0	2042.7	2052.9	2054.6	2046.1	2088.7	2090.4	2085.3	2114.3	2107.5
2099.0	10°	2095.6	2097.3	2116.0	2126.2	2117.7	2133.1	2116.0	2102.4	2100.7	2093.9
2163.8	12.5°	2182.5	2199.6	2196.2	2204.7	2206.4	2141.6	2102.4	2035.9	2027.4	2035.9
2259.2	15°	2262.7	2255.8	2259.2	2276.3	2204.7	2100.7	2030.8	1974.5	1977.9	1979.6
2383.7	17.5°	2358.1	2363.3	2368.4	2289.9	2158.6	2035.9	1974.5	1974.5	1957.4	1964.3
2470.7	20°	2467.3	2446.8	2402.5	2291.6	2078.5	1960.9	1942.1	1942.1	1921.6	1908.0
2564.5	22.5°	2552.5	2511.6	2445.1	2238.8	2006.9	1931.9	1885.8	1853.4	1829.6	1802.3
2668.5	25°	2607.1	2584.9	2455.3	2184.2	1954.0	1855.1	1786.9	1737.5	1706.8	1671.0
2750.3	27.5°	2690.6	2648.0	2484.3	2121.1	1896.1	1778.4	1672.7	1596.0	1538.0	1500.5
2874.8	30°	2803.2	2741.8	2463.9	2030.8	1807.4	1645.4	1520.9	1422.0	1355.5	1324.9
2992.4	32.5°	2895.2	2815.1	2446.8	1948.9	1708.5	1510.7	1345.3	1244.7	1207.2	1168.0
3190.2	35°	3070.9	2912.3	2434.9	1902.9	1619.8	1376.0	1202.1	1115.1	1067.4	1009.4
3307.9	37.5°	3205.6	3081.1	2405.9	1807.4	1505.6	1244.7	1093.0	1014.5	942.9	881.5
3580.7	40°	3417.0	3316.4	2407.6	1672.7	1370.9	1132.2	1007.7	925.9	835.5	782.6
3984.8	42.5°	3814.3	3548.3	2417.8	1565.3	1219.1	1040.1	931.0	833.8	743.4	699.1
4445.2	45°	4301.9	3867.1	2354.7	1468.1	1064.0	953.1	838.9	741.7	683.7	651.3
5070.9	47.5°	4862.9	4179.2	2269.5	1285.6	934.4	861.1	753.7	697.4	654.8	636.0
5877.4	50°	5490.4	4625.9	2245.6	1118.5	833.8	782.6	712.7	670.1	641.1	618.9
6786.3	52.5°	6298.6	5146.0	2197.9	946.3	746.8	719.5	697.4	668.4	642.8	624.1
7633.7	55°	7071.0	5722.3	2146.7	804.8	685.4	688.9	700.8	675.2	653.0	624.1
8583.4	57.5°	7940.6	6310.5	1957.4	700.8	639.4	673.5	697.4	668.4	646.2	624.1
9555.3	60°	8477.7	6641.3	1587.4	610.4	598.5	644.5	676.9	646.2	622.4	630.9
10002.1	62.5°	8696.0	6467.4	1197.0	554.2	569.5	605.3	644.5	632.6	615.5	647.9
9996.9	65°	8324.3	6066.7	856.0	506.4	530.3	566.1	615.5	629.2	634.3	697.4
9181.9	67.5°	7406.9	5282.4	629.2	467.2	489.4	542.2	636.0	658.2	654.8	733.2
7705.3	70°	5926.9	4131.4	491.1	434.8	474.0	561.0	665.0	665.0	641.1	733.2
5877.4	72.5°	4312.2	2912.3	422.9	397.3	434.8	514.9	661.6	659.9	629.2	670.1
3742.7	75°	2610.5	1694.9	373.4	359.8	373.4	441.6	632.6	622.4	579.7	576.3
1800.6	77.5°	1301.0	852.5	305.2	318.9	325.7	370.0	555.9	571.2	513.2	499.6
711.0	80°	549.0	371.7	254.1	274.5	274.5	312.0	462.1	472.3	426.3	400.7
281.3	82.5°	250.6	213.1	216.5	238.7	223.4	242.1	366.6	378.5	346.1	303.5
119.4	85°	105.7	121.1	165.4	187.6	165.4	156.9	252.4	266.0	225.1	187.6
51.2	87.5°	47.7	66.5	104.0	136.4	83.5	73.3	134.7	139.8	112.5	83.5
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>
1955.7
1954.0
2025.6
2097.3
2093.9
2039.3
2003.5
1966.0
1887.5
1786.9
1677.8
1517.5
1341.9
1166.3
1004.3
883.2
787.8
702.5
658.2
632.6
622.4
622.4
622.4
622.4
624.1
639.4
697.4
738.3
717.8
646.2
569.5
491.1
392.2
296.7
189.3
78.4
0.0

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