

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: P477374

Luminaire Tested: **IFLD-S-SA2D-740-U-T3**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P477374  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2D-740-U-T3  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3  
distribution lens  
Light Source: (32) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

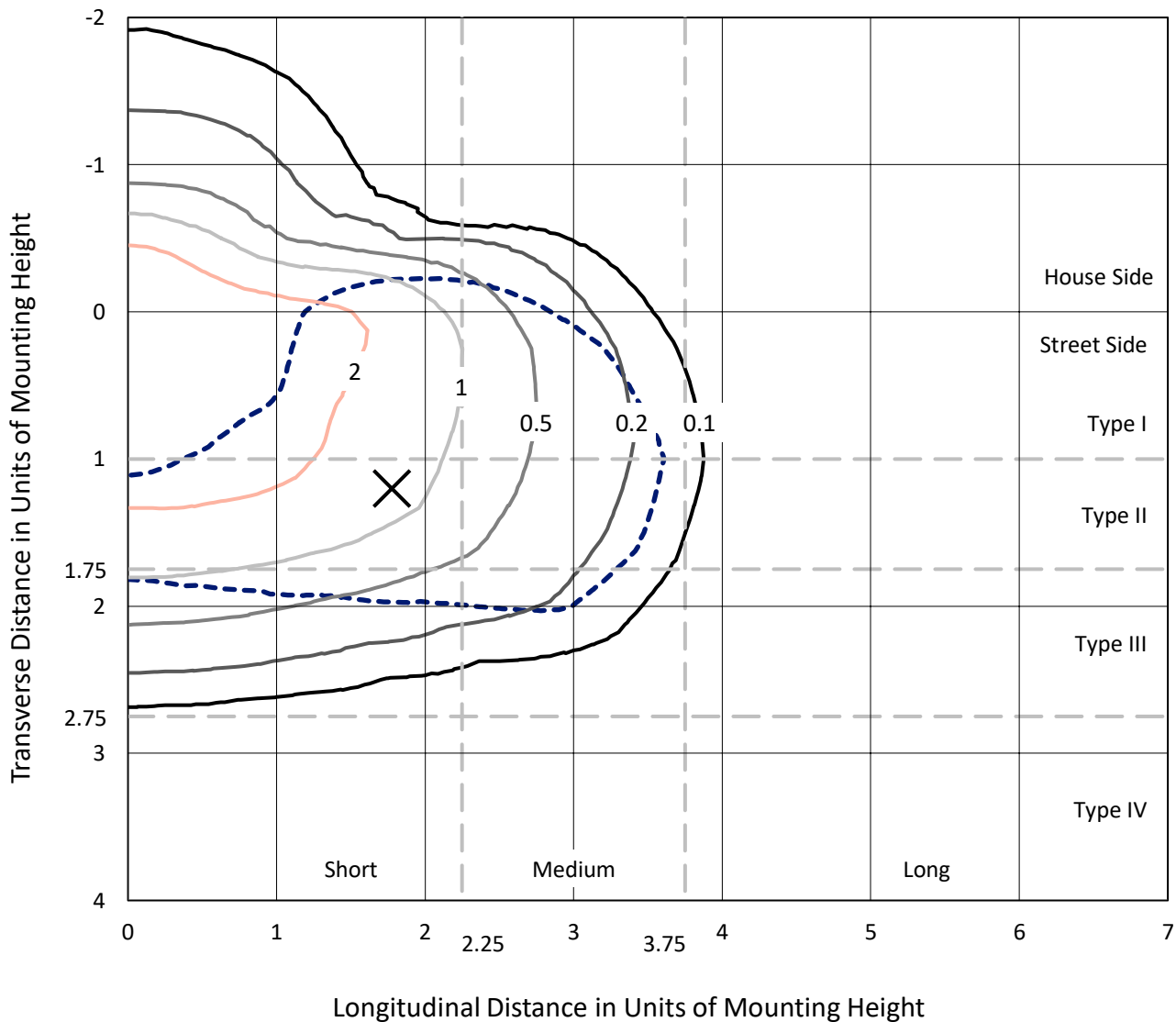
Lumens per Lamp: N/A  
Luminaire Lumens: 15929.2 lumens  
Efficiency: N/A  
Efficacy: 128.6 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3

Input Watts (W): 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

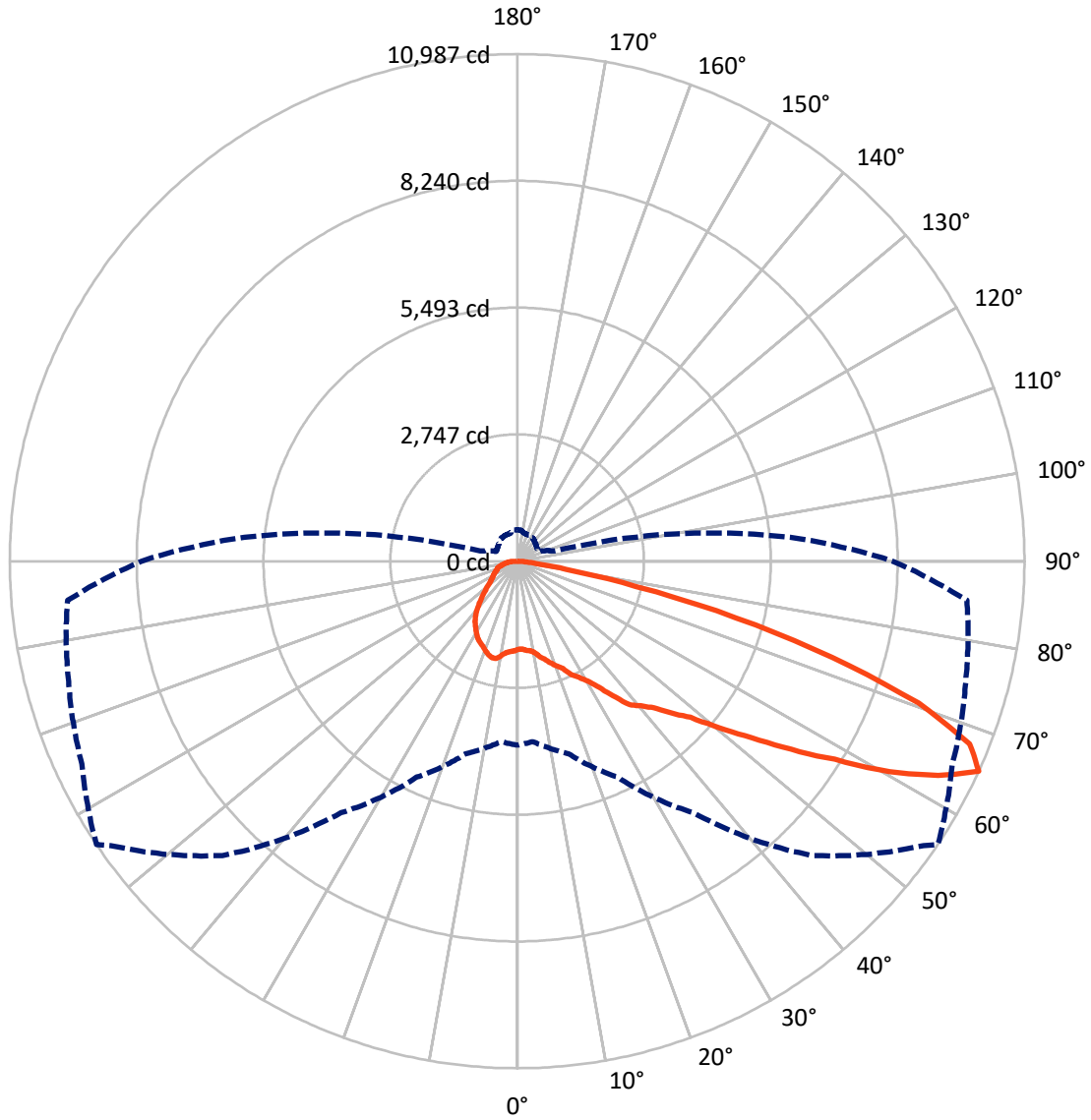
✕ Max cd  
 - - - 1/2 Max cd



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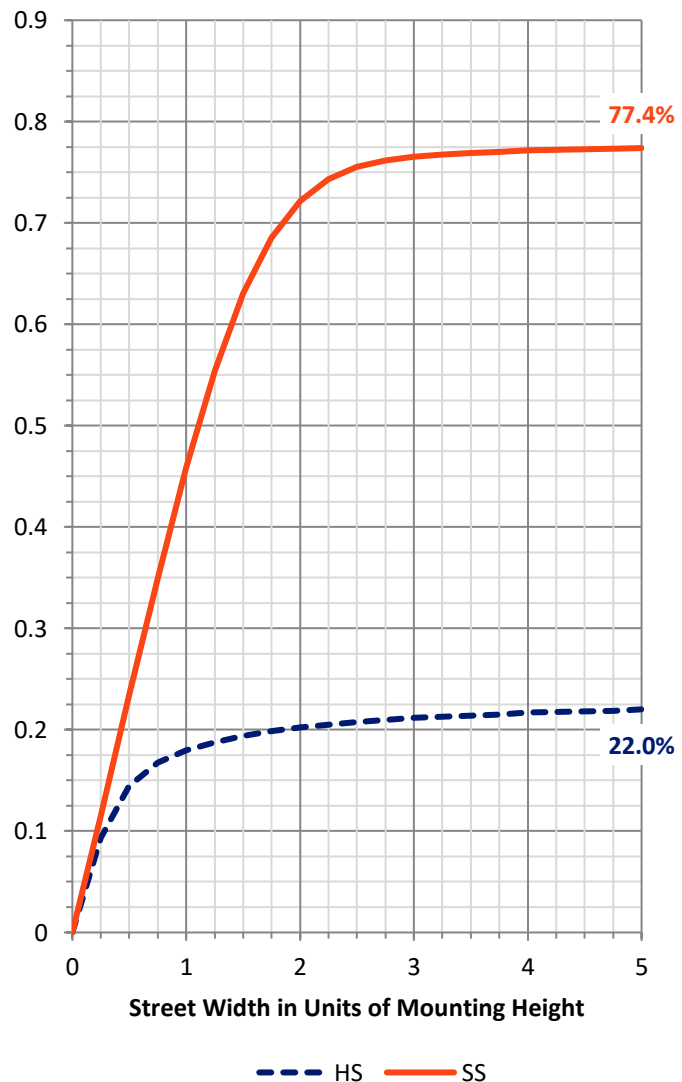
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3572.4	0.0	3572.4
	% Fixture	22.4	0.0	22.4
<b>Street Side</b>	Lumens	12356.8	0.0	12356.8
	% Fixture	77.6	0.0	77.6
<b>Total</b>	Lumens	15929.2	0.0	15929.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	189.5	1.2
10°-20°	615.2	3.9
20°-30°	1095.5	6.9
30°-40°	1640.4	10.3
40°-50°	2430.5	15.3
50°-60°	3745.0	23.5
60°-70°	4239.8	26.6
70°-80°	1759.6	11.0
80°-90°	213.8	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°	15929.2	100.0
0°-180°	15929.2	100.0

**Coefficient of Utilization**

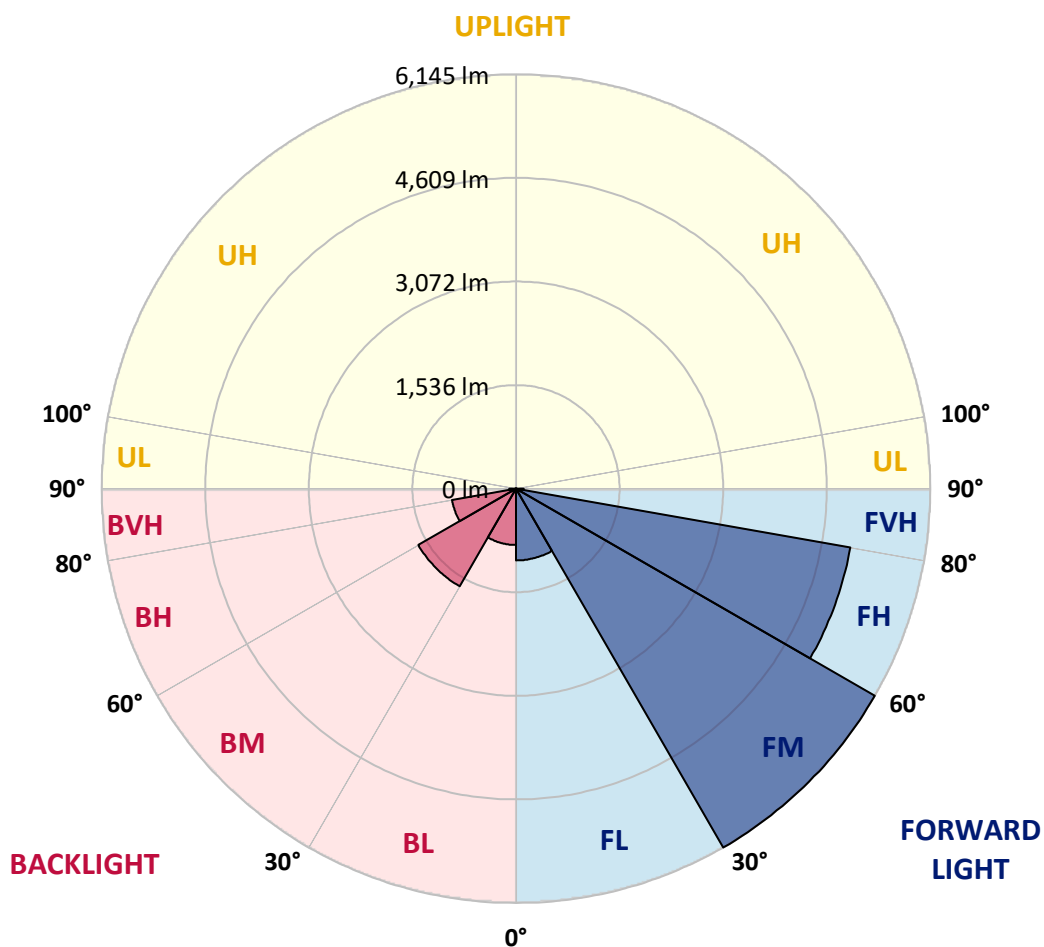


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1064.5	6.7			
FM (30°-60°)	6144.8	38.6			
FH (60°-80°)	5034.7	31.6			G3/7500
FVH (80°-90°)	112.8	0.7			G2/225
BL (0°-30°)	835.6	5.2	B2/1000		
BM (30°-60°)	1671.1	10.5	B2/2500		
BH (60°-80°)	964.7	6.1	B2/1000		G2/1000
BVH (80°-90°)	101.0	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°	1912.0	1912.0	1912.0	1912.0	1912.0	1912.0	1912.0	1912.0	1912.0	1912.0
2.5°	1861.9	1871.9	1865.3	1885.3	1902.0	1902.0	1915.3	1905.3	1918.6	1937.0
5°	1923.6	1883.6	1905.3	1915.3	1910.3	1918.6	1905.3	1938.6	1917.0	1952.0
7.5°	1938.6	1953.6	1972.0	1955.3	1970.3	1962.0	1963.6	1958.6	1947.0	1975.3
10°	2048.6	2027.0	2068.6	2043.6	2040.3	2037.0	2030.3	2005.3	2033.6	2035.3
12.5°	2175.3	2155.3	2153.7	2133.7	2160.3	2112.0	2122.0	2108.7	2113.7	2120.3
15°	2267.0	2258.7	2297.0	2273.7	2238.7	2217.0	2240.3	2203.7	2222.0	2218.7
17.5°	2448.7	2447.0	2418.7	2380.4	2360.4	2328.7	2323.7	2308.7	2322.0	2315.3
20°	2575.4	2593.7	2598.7	2553.7	2477.0	2442.0	2433.7	2422.0	2437.0	2432.0
22.5°	2768.8	2740.4	2762.1	2683.7	2655.4	2572.1	2542.1	2525.4	2597.1	2578.7
25°	2892.1	2922.1	2900.4	2873.8	2810.4	2707.1	2685.4	2722.1	2750.4	2730.4
27.5°	3170.5	3140.5	3120.5	3040.5	2998.8	2890.4	2865.4	2852.1	2858.8	2870.4
30°	3382.2	3398.8	3353.8	3297.2	3192.1	3082.1	3023.8	3012.1	2988.8	2968.8
32.5°	3683.9	3658.9	3632.2	3595.5	3505.5	3360.5	3303.8	3260.5	3190.5	3097.1
35°	3828.9	3900.6	3880.6	3782.2	3713.9	3658.9	3642.2	3575.5	3517.2	3370.5
37.5°	4070.6	4100.6	4072.3	4040.6	4008.9	3950.6	3930.6	3948.9	3833.9	3592.2
40°	4227.3	4290.6	4349.0	4260.6	4254.0	4265.6	4142.3	4120.6	3883.9	3757.2
42.5°	4547.4	4574.0	4585.7	4582.4	4620.7	4620.7	4385.7	4339.0	4170.6	4067.3
45°	4970.8	4992.4	5034.1	5064.1	5020.8	5042.4	4707.4	4689.0	4539.0	4519.0
47.5°	5337.5	5389.1	5482.5	5570.8	5627.5	5554.2	5187.5	5057.4	5019.1	5139.1
50°	5657.5	5595.8	5814.2	5904.2	6152.6	6274.3	5717.5	5665.9	5604.2	5834.2
52.5°	5689.2	5772.5	6080.9	6260.9	6772.7	6997.7	6367.6	6346.0	6270.9	6536.0
55°	5915.9	5905.9	6215.9	6606.0	7214.4	7592.8	7214.4	7201.1	7037.7	7289.4
57.5°	5877.6	5979.2	6224.3	6769.4	7612.8	8231.2	8196.2	8104.6	7876.2	8081.2
60°	5747.5	5774.2	6072.6	6764.4	7844.5	8886.3	9256.4	9274.7	8808.0	8971.4
62.5°	5010.8	5072.4	5450.8	6232.6	7679.5	9338.1	10291.6	10226.5	9853.2	9666.5
65°	3985.6	3923.9	4317.3	5162.4	6652.7	9018.0	10745.0	10986.7	10399.9	10058.2
67.5°	2443.7	2428.7	2807.1	3552.2	4977.4	7674.5	10383.2	10571.6	10248.2	9974.8
70°	1258.5	1220.2	1456.9	1982.0	3128.8	5630.9	9036.4	9221.4	9529.8	8946.4
72.5°	586.8	578.4	705.1	975.1	1593.6	3310.5	6997.7	7131.1	7781.2	7542.8
75°	345.1	350.1	421.7	510.1	776.8	1560.2	4644.0	4902.4	5607.5	5435.8
77.5°	258.4	258.4	300.0	355.1	453.4	603.4	2292.0	2633.7	3278.8	2948.8
80°	190.0	193.4	230.0	266.7	315.0	311.7	910.1	1066.8	1503.6	1285.2
82.5°	148.4	153.4	178.4	198.4	221.7	188.4	373.4	401.7	618.4	491.7
85°	103.3	106.7	140.0	135.0	135.0	105.0	155.0	163.4	245.0	233.4
87.5°	25.0	28.3	68.3	75.0	56.7	31.7	48.3	55.0	88.3	101.7
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°
1912.0	0°	1912.0	1912.0	1912.0	1912.0	1912.0	1912.0	1912.0	1912.0	1912.0	1912.0
1945.3	2.5°	1920.3	1927.0	1955.3	1940.3	1948.6	1913.6	1942.0	1918.6	1938.6	1928.6
1960.3	5°	1973.6	1958.6	1975.3	1963.6	1963.6	1977.0	1997.0	1982.0	2012.0	1998.6
1972.0	7.5°	1995.3	1997.0	2007.0	2008.6	2000.3	2042.0	2043.6	2038.6	2067.0	2060.3
2052.0	10°	2048.6	2050.3	2068.6	2078.6	2070.3	2085.3	2068.6	2055.3	2053.6	2047.0
2115.3	12.5°	2133.7	2150.3	2147.0	2155.3	2157.0	2093.6	2055.3	1990.3	1982.0	1990.3
2208.7	15°	2212.0	2205.3	2208.7	2225.3	2155.3	2053.6	1985.3	1930.3	1933.6	1935.3
2330.4	17.5°	2305.3	2310.3	2315.3	2238.7	2110.3	1990.3	1930.3	1930.3	1913.6	1920.3
2415.4	20°	2412.0	2392.0	2348.7	2240.3	2032.0	1917.0	1898.6	1898.6	1878.6	1865.3
2507.0	22.5°	2495.4	2455.4	2390.4	2188.7	1962.0	1888.6	1843.6	1811.9	1788.6	1761.9
2608.7	25°	2548.7	2527.0	2400.4	2135.3	1910.3	1813.6	1746.9	1698.6	1668.6	1633.6
2688.7	27.5°	2630.4	2588.7	2428.7	2073.6	1853.6	1738.6	1635.2	1560.2	1503.6	1466.9
2810.4	30°	2740.4	2680.4	2408.7	1985.3	1766.9	1608.6	1486.9	1390.2	1325.2	1295.2
2925.4	32.5°	2830.4	2752.1	2392.0	1905.3	1670.3	1476.9	1315.2	1216.9	1180.2	1141.8
3118.8	35°	3002.1	2847.1	2380.4	1860.3	1583.6	1345.2	1175.2	1090.2	1043.5	986.8
3233.8	37.5°	3133.8	3012.1	2352.0	1766.9	1471.9	1216.9	1068.5	991.8	921.8	861.8
3500.5	40°	3340.5	3242.2	2353.7	1635.2	1340.2	1106.8	985.1	905.1	816.8	765.1
3895.6	42.5°	3728.9	3468.9	2363.7	1530.2	1191.8	1016.8	910.1	815.1	726.8	683.4
4345.7	45°	4205.6	3780.6	2302.0	1435.2	1040.2	931.8	820.1	725.1	668.4	636.8
4957.4	47.5°	4754.1	4085.6	2218.7	1256.9	913.5	841.8	736.8	681.8	640.1	621.8
5745.9	50°	5367.5	4522.3	2195.3	1093.5	815.1	765.1	696.8	655.1	626.8	605.1
6634.3	52.5°	6157.6	5030.8	2148.7	925.1	730.1	703.4	681.8	653.4	628.4	610.1
7462.8	55°	6912.7	5594.2	2098.7	786.8	670.1	673.4	685.1	660.1	638.4	610.1
8391.3	57.5°	7762.8	6169.3	1913.6	685.1	625.1	658.4	681.8	653.4	631.8	610.1
9341.4	60°	8287.9	6492.6	1551.9	596.8	585.1	630.1	661.8	631.8	608.4	616.8
9778.1	62.5°	8501.3	6322.6	1170.2	541.7	556.8	591.8	630.1	618.4	601.8	633.4
9773.1	65°	8137.9	5930.9	836.8	495.1	518.4	553.4	601.8	615.1	620.1	681.8
8976.4	67.5°	7241.1	5164.1	615.1	456.7	478.4	530.1	621.8	643.4	640.1	716.8
7532.8	70°	5794.2	4038.9	480.1	425.1	463.4	548.4	650.1	650.1	626.8	716.8
5745.9	72.5°	4215.6	2847.1	413.4	388.4	425.1	503.4	646.8	645.1	615.1	655.1
3658.9	75°	2552.1	1656.9	365.1	351.7	365.1	431.7	618.4	608.4	566.8	563.4
1760.3	77.5°	1271.9	833.5	298.4	311.7	318.4	361.7	543.4	558.4	501.7	488.4
695.1	80°	536.7	363.4	248.4	268.4	268.4	305.0	451.7	461.7	416.7	391.7
275.0	82.5°	245.0	208.4	211.7	233.4	218.4	236.7	358.4	370.1	338.4	296.7
116.7	85°	103.3	118.4	161.7	183.4	161.7	153.4	246.7	260.0	220.0	183.4
50.0	87.5°	46.7	65.0	101.7	133.4	81.7	71.7	131.7	136.7	110.0	81.7
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>
1912.0
1910.3
1980.3
2050.3
2047.0
1993.6
1958.6
1922.0
1845.3
1746.9
1640.2
1483.6
1311.9
1140.2
981.8
863.5
770.1
686.8
643.4
618.4
608.4
608.4
608.4
608.4
610.1
625.1
681.8
721.8
701.8
631.8
556.8
480.1
383.4
290.0
185.0
76.7
0.0

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