

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: P477257

Luminaire Tested: **IFLD-S-SA2D-727-U-T3**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P477257  
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-T3  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3  
distribution lens  
Light Source: (32) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

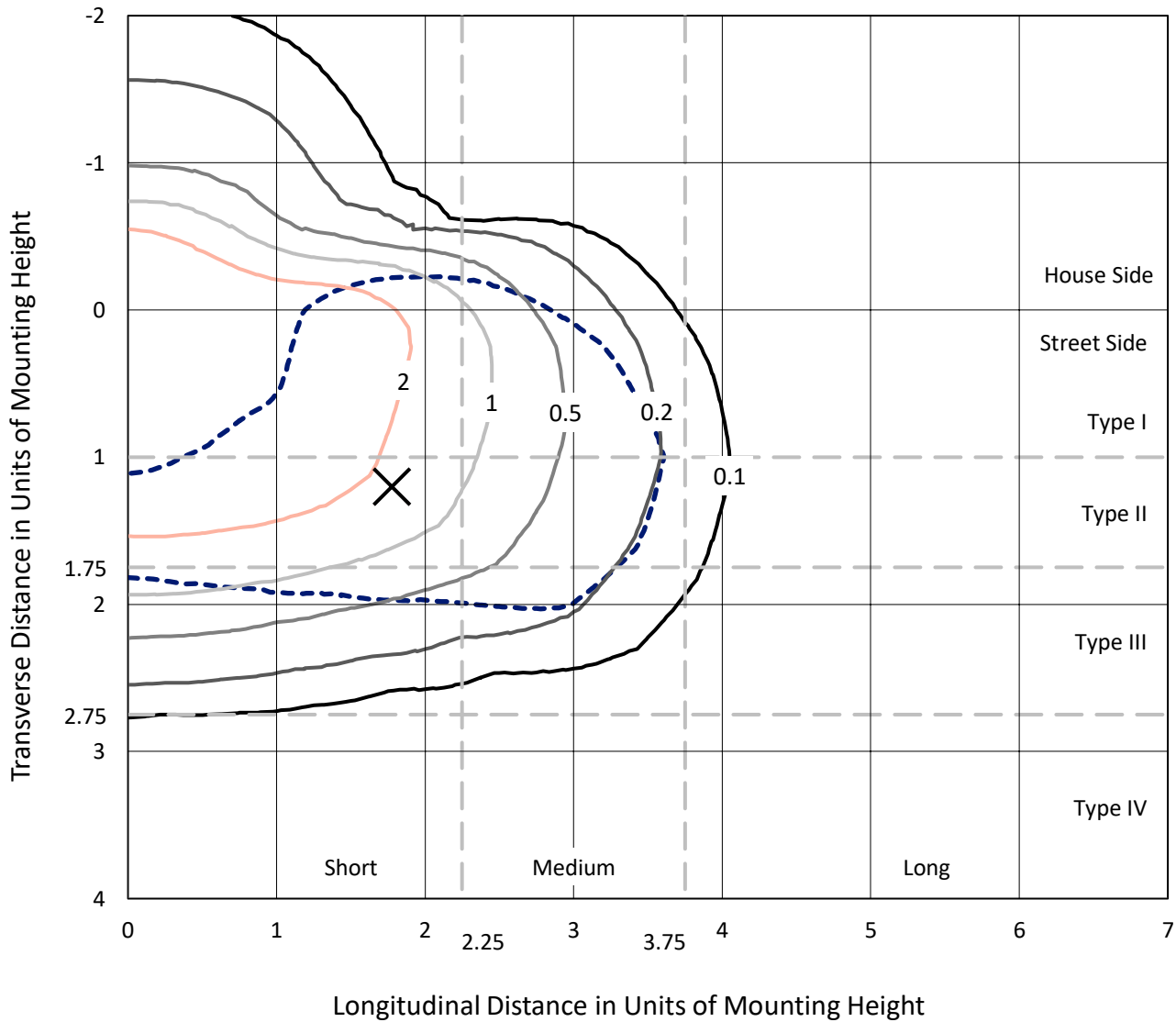
Lumens per Lamp: N/A  
Luminaire Lumens: 13321.6 lumens  
Efficiency: N/A  
Efficacy: 107.5 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2

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

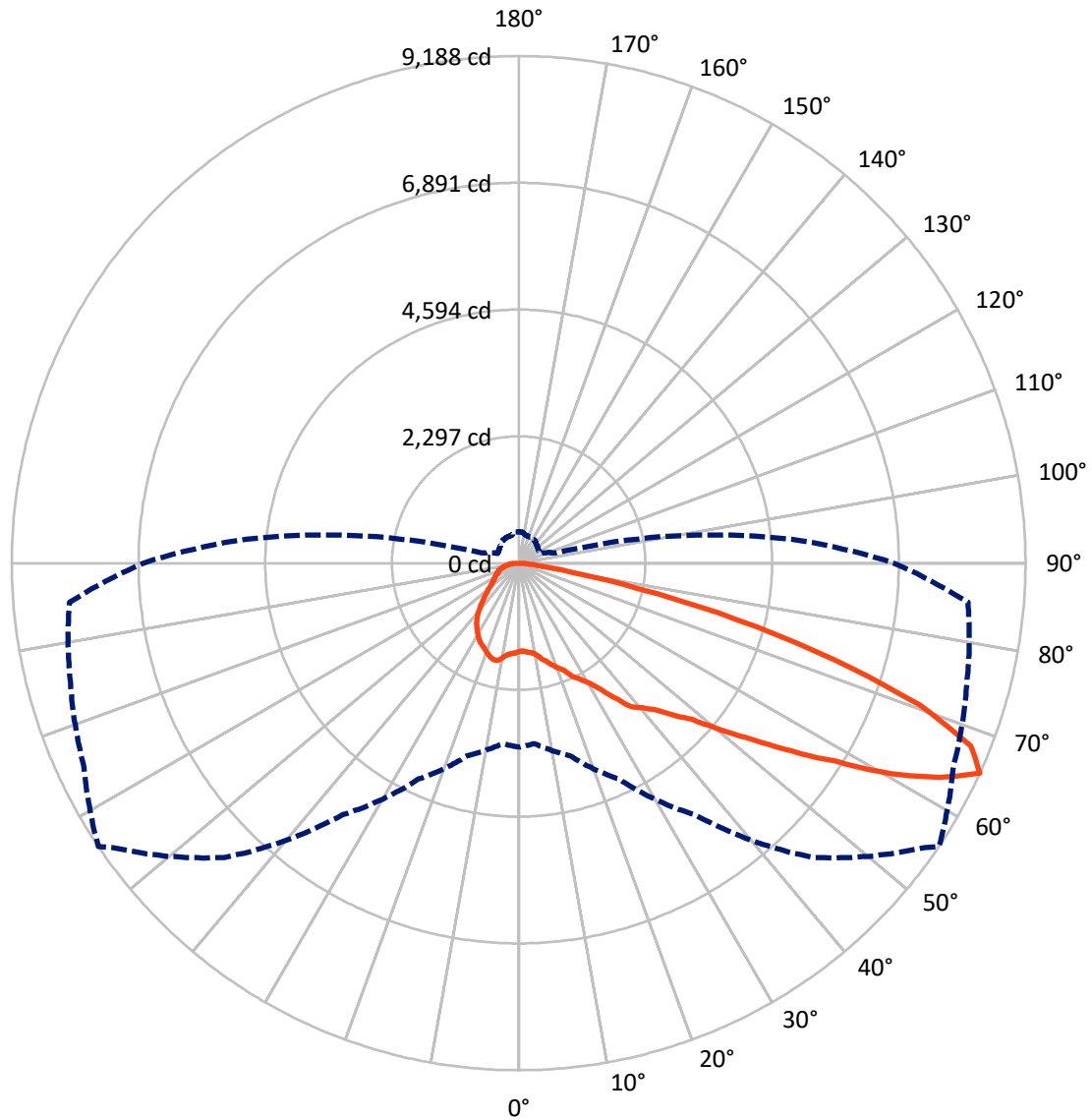
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.6 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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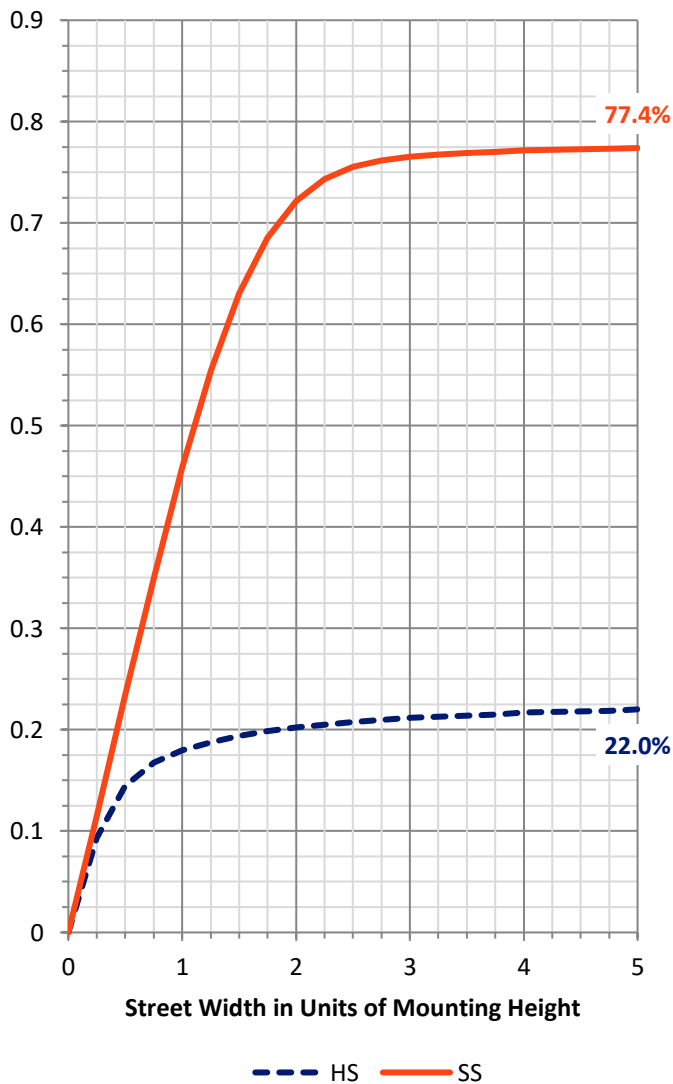
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2987.6	0.0	2987.6
	% Fixture	22.4	0.0	22.4
<b>Street Side</b>	Lumens	10334.0	0.0	10334.0
	% Fixture	77.6	0.0	77.6
<b>Total</b>	Lumens	13321.6	0.0	13321.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	158.4	1.2
10°-20°	514.5	3.9
20°-30°	916.1	6.9
30°-40°	1371.9	10.3
40°-50°	2032.6	15.3
50°-60°	3132.0	23.5
60°-70°	3545.8	26.6
70°-80°	1471.5	11.0
80°-90°	178.8	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°	13321.6	100.0
0°-180°	13321.6	100.0

**Coefficient of Utilization**

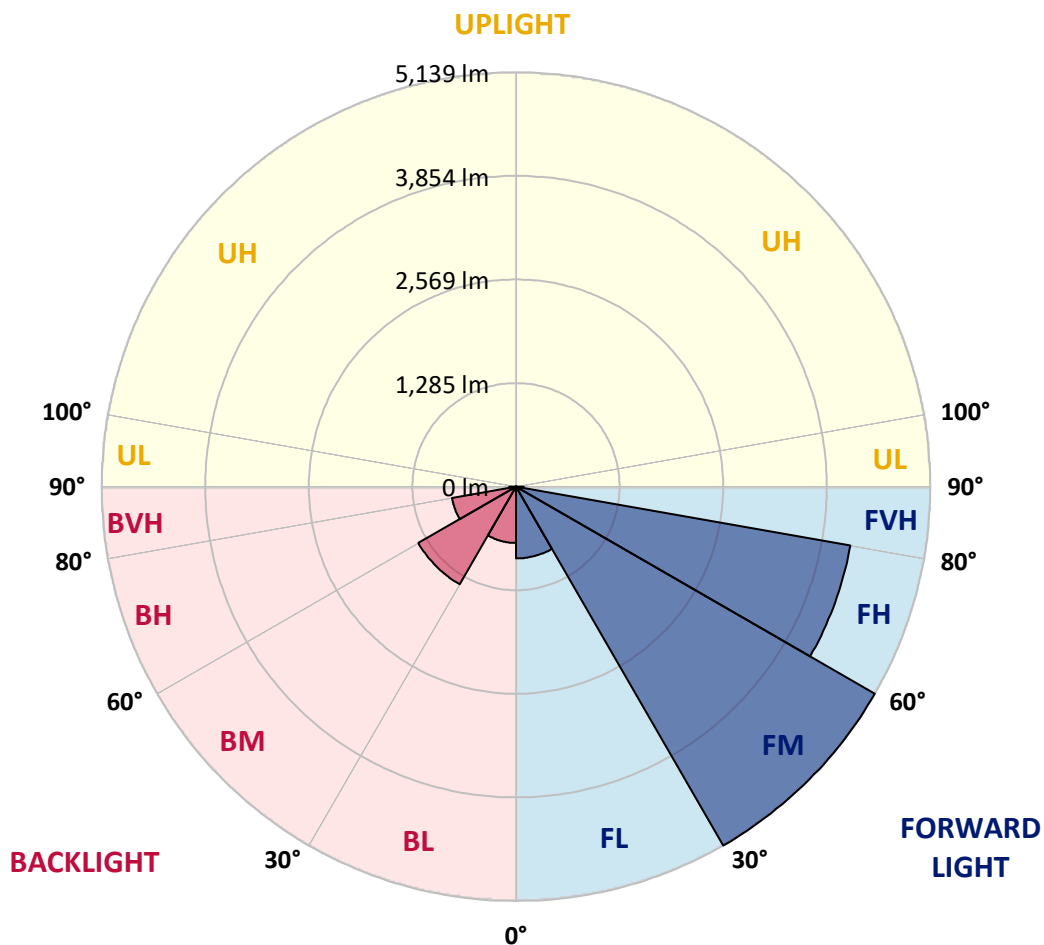


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	890.3	6.7			
FM (30°-60°)	5138.9	38.6			
FH (60°-80°)	4210.5	31.6			G2/5000
FVH (80°-90°)	94.3	0.7			G1/100
BL (0°-30°)	698.8	5.2	B2/1000		
BM (30°-60°)	1397.6	10.5	B2/2500		
BH (60°-80°)	806.8	6.1	B2/1000		G2/1000
BVH (80°-90°)	84.5	0.6			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°	1599.0	1599.0	1599.0	1599.0	1599.0	1599.0	1599.0	1599.0	1599.0	1599.0
2.5°	1557.1	1565.5	1559.9	1576.7	1590.6	1590.6	1601.8	1593.4	1604.5	1619.9
5°	1608.7	1575.3	1593.4	1601.8	1597.6	1604.5	1593.4	1621.3	1603.2	1632.4
7.5°	1621.3	1633.8	1649.2	1635.2	1647.8	1640.8	1642.2	1638.0	1628.2	1651.9
10°	1713.3	1695.2	1730.0	1709.1	1706.3	1703.5	1697.9	1677.0	1700.7	1702.1
12.5°	1819.2	1802.5	1801.1	1784.4	1806.7	1766.3	1774.6	1763.5	1767.6	1773.2
15°	1895.9	1888.9	1921.0	1901.5	1872.2	1854.1	1873.6	1842.9	1858.3	1855.5
17.5°	2047.9	2046.5	2022.8	1990.7	1974.0	1947.5	1943.3	1930.8	1941.9	1936.3
20°	2153.8	2169.1	2173.3	2135.7	2071.5	2042.3	2035.3	2025.5	2038.1	2033.9
22.5°	2315.5	2291.8	2309.9	2244.4	2220.7	2151.0	2125.9	2112.0	2171.9	2156.6
25°	2418.7	2443.8	2425.6	2403.3	2350.4	2263.9	2245.8	2276.5	2300.2	2283.4
27.5°	2651.5	2626.4	2609.7	2542.7	2507.9	2417.3	2396.4	2385.2	2390.8	2400.5
30°	2828.5	2842.5	2804.8	2757.4	2669.6	2577.6	2528.8	2519.0	2499.5	2482.8
32.5°	3080.8	3059.9	3037.6	3007.0	2931.7	2810.4	2763.0	2726.7	2668.2	2590.1
35°	3202.1	3262.1	3245.3	3163.1	3105.9	3059.9	3046.0	2990.2	2941.4	2818.8
37.5°	3404.3	3429.3	3405.6	3379.2	3352.7	3303.9	3287.2	3302.5	3206.3	3004.2
40°	3535.3	3588.3	3637.1	3563.2	3557.6	3567.4	3464.2	3446.1	3248.1	3142.2
42.5°	3803.0	3825.3	3835.0	3832.2	3864.3	3864.3	3667.7	3628.7	3487.9	3401.5
45°	4157.0	4175.2	4210.0	4235.1	4198.9	4217.0	3936.8	3921.4	3796.0	3779.3
47.5°	4463.7	4506.9	4585.0	4658.9	4706.3	4645.0	4338.3	4229.5	4197.5	4297.8
50°	4731.4	4679.8	4862.4	4937.7	5145.4	5247.2	4781.6	4738.4	4686.8	4879.2
52.5°	4757.9	4827.6	5085.5	5236.0	5664.0	5852.2	5325.2	5307.1	5244.4	5466.0
55°	4947.5	4939.1	5198.4	5524.6	6033.4	6349.9	6033.4	6022.3	5885.7	6096.2
57.5°	4915.4	5000.4	5205.4	5661.2	6366.6	6883.8	6854.5	6777.8	6586.9	6758.3
60°	4806.7	4829.0	5078.5	5657.0	6560.4	7431.6	7741.1	7756.5	7366.1	7502.7
62.5°	4190.5	4242.1	4558.5	5212.3	6422.4	7809.4	8606.8	8552.5	8240.2	8084.1
65°	3333.2	3281.6	3610.6	4317.4	5563.6	7541.8	8986.0	9188.1	8697.4	8411.7
67.5°	2043.7	2031.1	2347.6	2970.7	4162.6	6418.2	8683.5	8841.0	8570.6	8342.0
70°	1052.5	1020.4	1218.4	1657.5	2616.6	4709.1	7557.1	7711.9	7969.7	7481.8
72.5°	490.7	483.7	589.7	815.5	1332.7	2768.6	5852.2	5963.7	6507.4	6308.0
75°	288.6	292.7	352.7	426.6	649.6	1304.8	3883.8	4099.9	4689.6	4546.0
77.5°	216.1	216.1	250.9	296.9	379.2	504.6	1916.8	2202.6	2742.1	2466.1
80°	158.9	161.7	192.4	223.0	263.5	260.7	761.1	892.2	1257.4	1074.8
82.5°	124.1	128.3	149.2	165.9	185.4	157.5	312.3	336.0	517.2	411.2
85°	86.4	89.2	117.1	112.9	112.9	87.8	129.6	136.6	204.9	195.2
87.5°	20.9	23.7	57.2	62.7	47.4	26.5	40.4	46.0	73.9	85.0
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°
1599.0	0°	1599.0	1599.0	1599.0	1599.0	1599.0	1599.0	1599.0	1599.0	1599.0	1599.0
1626.8	2.5°	1605.9	1611.5	1635.2	1622.7	1629.6	1600.4	1624.1	1604.5	1621.3	1612.9
1639.4	5°	1650.5	1638.0	1651.9	1642.2	1642.2	1653.3	1670.1	1657.5	1682.6	1671.5
1649.2	7.5°	1668.7	1670.1	1678.4	1679.8	1672.9	1707.7	1709.1	1704.9	1728.6	1723.0
1716.1	10°	1713.3	1714.7	1730.0	1738.4	1731.4	1743.9	1730.0	1718.9	1717.5	1711.9
1769.0	12.5°	1784.4	1798.3	1795.5	1802.5	1803.9	1750.9	1718.9	1664.5	1657.5	1664.5
1847.1	15°	1849.9	1844.3	1847.1	1861.0	1802.5	1717.5	1660.3	1614.3	1617.1	1618.5
1948.9	17.5°	1928.0	1932.1	1936.3	1872.2	1764.9	1664.5	1614.3	1614.3	1600.4	1605.9
2020.0	20°	2017.2	2000.5	1964.2	1873.6	1699.3	1603.2	1587.8	1587.8	1571.1	1559.9
2096.6	22.5°	2086.9	2053.4	1999.1	1830.4	1640.8	1579.5	1541.8	1515.3	1495.8	1473.5
2181.7	25°	2131.5	2113.4	2007.4	1785.8	1597.6	1516.7	1461.0	1420.5	1395.4	1366.2
2248.6	27.5°	2199.8	2165.0	2031.1	1734.2	1550.2	1454.0	1367.6	1304.8	1257.4	1226.8
2350.4	30°	2291.8	2241.6	2014.4	1660.3	1477.7	1345.3	1243.5	1162.6	1108.3	1083.2
2446.5	32.5°	2367.1	2301.6	2000.5	1593.4	1396.8	1235.1	1099.9	1017.7	987.0	954.9
2608.3	35°	2510.7	2381.0	1990.7	1555.8	1324.3	1125.0	982.8	911.7	872.7	825.3
2704.4	37.5°	2620.8	2519.0	1967.0	1477.7	1230.9	1017.7	893.6	829.5	770.9	720.7
2927.5	40°	2793.7	2711.4	1968.4	1367.6	1120.8	925.6	823.9	757.0	683.1	639.9
3257.9	42.5°	3118.5	2901.0	1976.8	1279.7	996.7	850.4	761.1	681.7	607.8	571.6
3634.3	45°	3517.2	3161.7	1925.2	1200.3	869.9	779.3	685.9	606.4	559.0	532.5
4145.9	47.5°	3975.8	3416.8	1855.5	1051.1	763.9	704.0	616.2	570.2	535.3	520.0
4805.3	50°	4488.8	3782.0	1836.0	914.5	681.7	639.9	582.7	547.9	524.2	506.0
5548.3	52.5°	5149.6	4207.2	1796.9	773.7	610.6	588.3	570.2	546.5	525.6	510.2
6241.1	55°	5781.1	4678.4	1755.1	658.0	560.4	563.2	573.0	552.0	533.9	510.2
7017.6	57.5°	6492.1	5159.4	1600.4	573.0	522.8	550.6	570.2	546.5	528.3	510.2
7812.2	60°	6931.2	5429.8	1297.9	499.1	489.3	526.9	553.4	528.3	508.8	515.8
8177.5	62.5°	7109.6	5287.6	978.6	453.1	465.6	494.9	526.9	517.2	503.2	529.7
8173.3	65°	6805.7	4960.0	699.8	414.0	433.5	462.8	503.2	514.4	518.6	570.2
7506.9	67.5°	6055.7	4318.7	514.4	382.0	400.1	443.3	520.0	538.1	535.3	599.4
6299.7	70°	4845.7	3377.8	401.5	355.5	387.5	458.6	543.7	543.7	524.2	599.4
4805.3	72.5°	3525.5	2381.0	345.7	324.8	355.5	421.0	540.9	539.5	514.4	547.9
3059.9	75°	2134.3	1385.7	305.3	294.1	305.3	361.1	517.2	508.8	474.0	471.2
1472.1	77.5°	1063.7	697.0	249.5	260.7	266.3	302.5	454.5	467.0	419.6	408.5
581.3	80°	448.9	303.9	207.7	224.4	224.4	255.1	377.8	386.2	348.5	327.6
230.0	82.5°	204.9	174.3	177.0	195.2	182.6	198.0	299.7	309.5	283.0	248.1
97.6	85°	86.4	99.0	135.2	153.3	135.2	128.3	206.3	217.5	184.0	153.3
41.8	87.5°	39.0	54.4	85.0	111.5	68.3	59.9	110.1	114.3	92.0	68.3
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>
1599.0
1597.6
1656.1
1714.7
1711.9
1667.3
1638.0
1607.3
1543.2
1461.0
1371.7
1240.7
1097.1
953.5
821.1
722.1
644.0
574.3
538.1
517.2
508.8
508.8
508.8
508.8
510.2
522.8
570.2
603.6
586.9
528.3
465.6
401.5
320.6
242.6
154.7
64.1
0.0

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