

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: P477610

Luminaire Tested: **IFLD-S-SA3A-722-U-T3R**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P477610  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3A-722-U-T3R  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens  
Light Source: (48) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

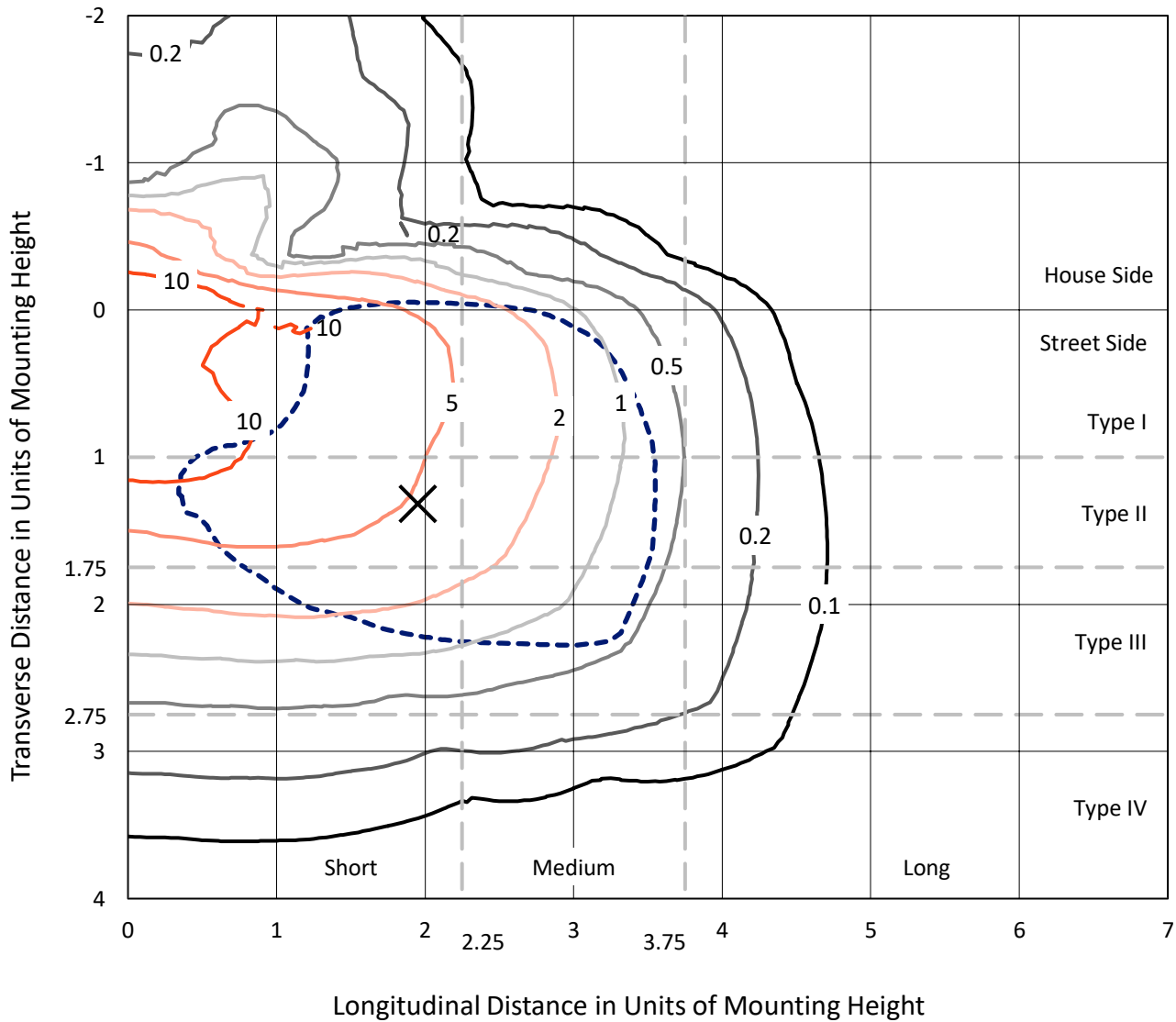
Lumens per Lamp: N/A  
Luminaire Lumens: 9955.1 lumens  
Efficiency: N/A  
Efficacy: 105.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2

Input Watts (W): 94.8  
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

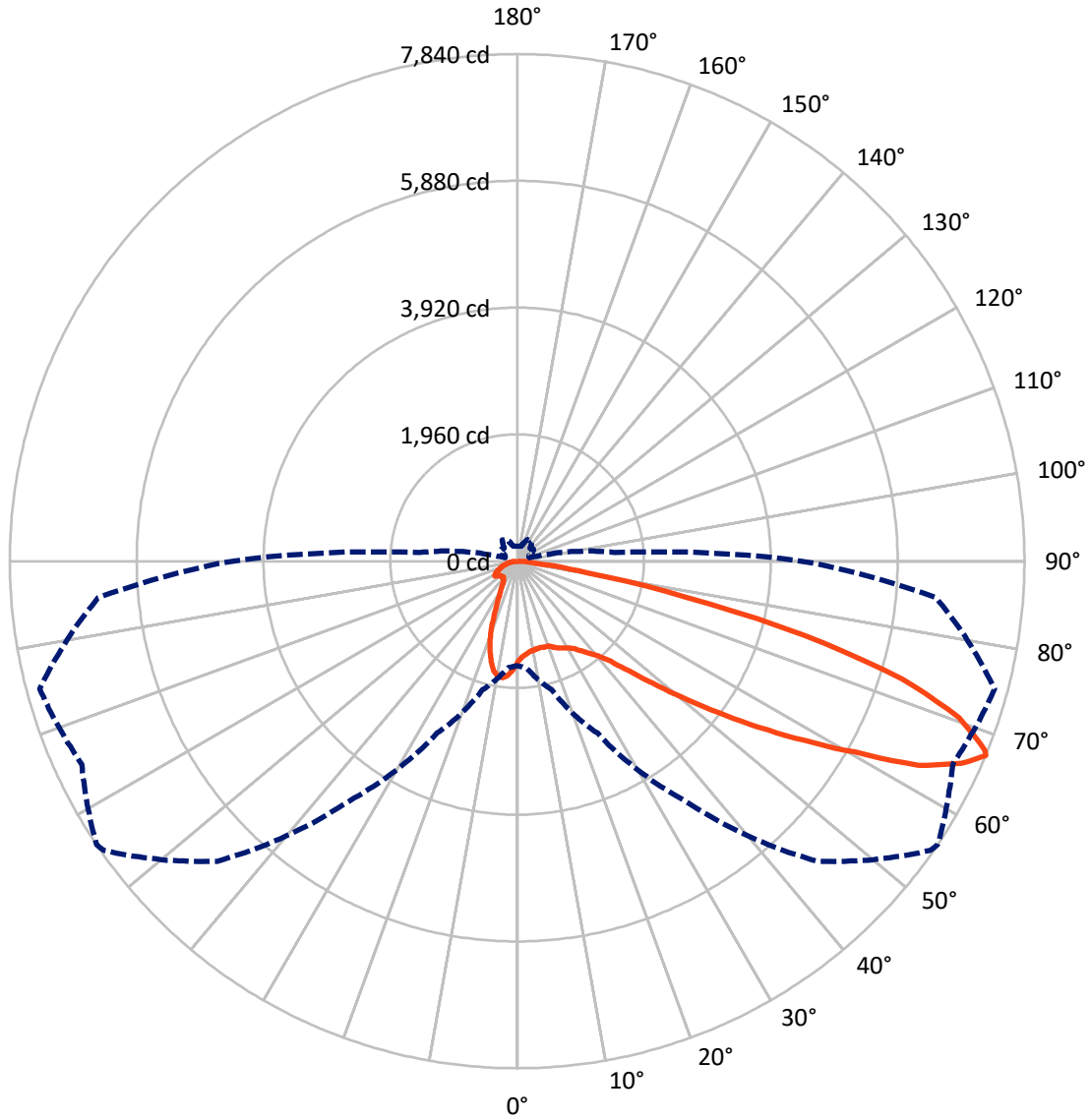
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.2 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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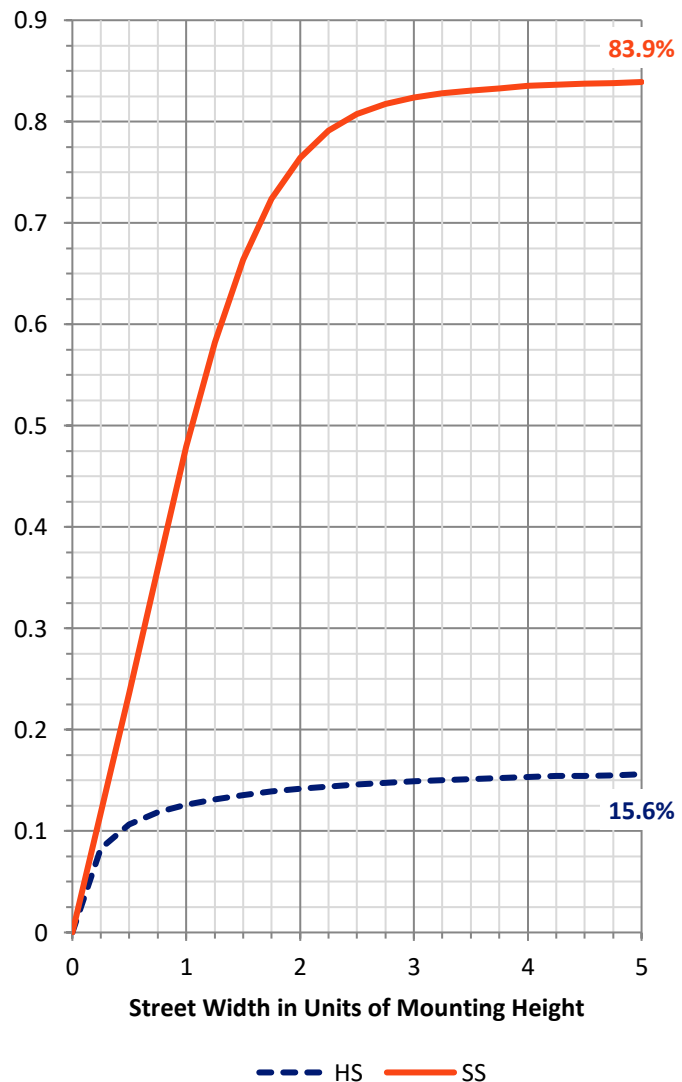
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1576.0	0.0	1576.0
	% Fixture	15.8	0.0	15.8
<b>Street Side</b>	Lumens	8379.1	0.0	8379.1
	% Fixture	84.2	0.0	84.2
<b>Total</b>	Lumens	9955.1	0.0	9955.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	149.2	1.5
10°-20°	407.1	4.1
20°-30°	638.5	6.4
30°-40°	911.4	9.2
40°-50°	1375.6	13.8
50°-60°	2189.7	22.0
60°-70°	2799.4	28.1
70°-80°	1364.9	13.7
80°-90°	119.4	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°	9955.1	100.0
0°-180°	9955.1	100.0

**Coefficient of Utilization**

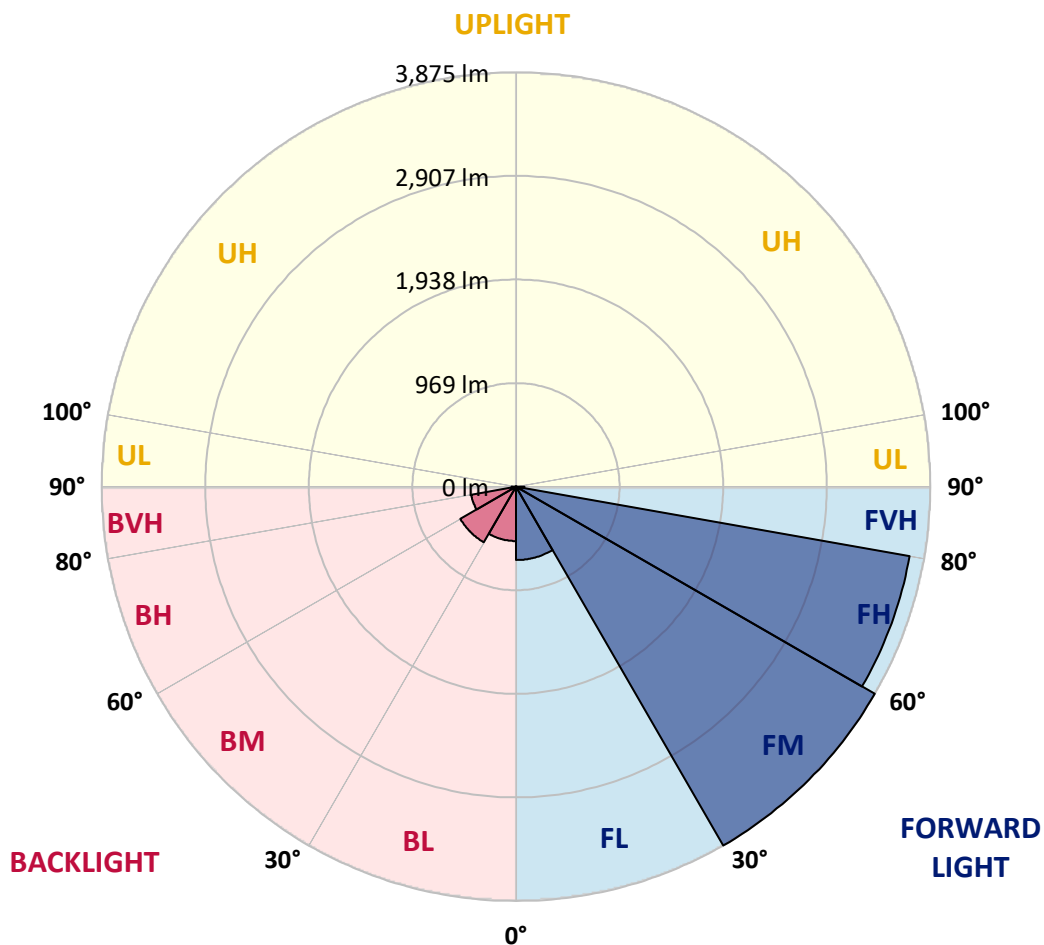


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	686.0	6.9			
FM (30°-60°)	3875.4	38.9			
FH (60°-80°)	3738.4	37.6			G2/5000
FVH (80°-90°)	79.3	0.8			G1/100
BL (0°-30°)	508.8	5.1	B2/1000		
BM (30°-60°)	601.3	6.0	B1/1000		
BH (60°-80°)	425.9	4.3	B1/500		G1/500
BVH (80°-90°)	40.1	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°	1549.0	1549.0	1549.0	1549.0	1549.0	1549.0	1549.0	1549.0	1549.0	1549.0
2.5°	1422.9	1417.1	1424.1	1417.1	1448.6	1467.3	1473.1	1481.3	1510.5	1538.5
5°	1363.4	1337.7	1365.7	1375.1	1377.4	1408.9	1441.6	1447.4	1462.6	1508.1
7.5°	1264.2	1293.4	1282.8	1310.9	1340.0	1371.6	1425.3	1410.1	1466.1	1509.3
10°	1243.2	1245.5	1257.2	1267.7	1293.4	1334.2	1408.9	1399.6	1456.8	1549.0
12.5°	1264.2	1264.2	1260.7	1252.5	1281.7	1321.4	1380.9	1385.6	1475.5	1560.7
15°	1337.7	1351.7	1314.4	1320.2	1308.5	1321.4	1373.9	1384.4	1482.5	1570.0
17.5°	1517.5	1512.8	1468.4	1406.6	1355.2	1347.0	1383.2	1394.9	1475.5	1596.8
20°	1692.6	1683.2	1606.2	1542.0	1440.4	1392.6	1398.4	1399.6	1487.1	1614.4
22.5°	1887.5	1912.0	1828.0	1697.2	1571.2	1452.1	1428.8	1447.4	1514.0	1623.7
25°	2193.3	2140.8	2068.4	1896.8	1693.7	1544.3	1479.0	1488.3	1539.7	1647.0
27.5°	2413.9	2392.9	2279.7	2140.8	1865.3	1616.7	1505.8	1523.3	1586.3	1645.9
30°	2626.4	2626.4	2557.5	2349.7	2046.3	1738.1	1563.0	1554.8	1564.2	1643.5
32.5°	2875.0	2841.2	2742.0	2604.2	2273.9	1849.0	1608.5	1610.9	1610.9	1686.7
35°	3005.8	3060.6	2994.1	2770.0	2447.8	2033.4	1718.2	1700.7	1687.9	1734.6
37.5°	3197.2	3229.9	3159.8	3027.9	2663.7	2182.8	1815.1	1801.1	1726.4	1771.9
40°	3312.8	3306.9	3304.6	3243.9	2949.7	2359.1	1957.5	1921.4	1821.0	1903.8
42.5°	3378.1	3366.5	3510.0	3472.7	3219.4	2618.2	2136.1	2116.3	2005.4	2138.5
45°	3451.7	3538.0	3655.9	3761.0	3533.4	2982.4	2438.5	2410.4	2311.2	2480.5
47.5°	3515.9	3622.1	3772.7	3884.7	3817.0	3378.1	2812.0	2819.0	2753.6	2927.6
50°	3623.3	3633.8	3838.0	4064.5	4117.0	3743.5	3313.9	3302.3	3273.1	3517.0
52.5°	3590.6	3622.1	3880.1	4169.5	4255.9	4129.9	3853.2	3888.2	3849.7	4156.7
55°	3058.3	3152.8	3854.4	4280.4	4585.1	4566.4	4546.6	4523.2	4520.9	4875.8
57.5°	2816.7	2893.7	3395.6	4403.0	4937.6	5075.4	5203.8	5229.4	5228.3	5656.7
60°	2657.9	2737.3	3210.0	4336.5	5237.6	5741.9	5988.2	5991.7	5984.7	6491.3
62.5°	2347.4	2424.5	2889.0	3972.3	5320.5	6357.0	6905.7	6951.2	6630.2	7210.3
65°	1973.9	2036.9	2446.6	3415.5	5099.9	6748.1	7595.5	7541.8	7174.1	7621.2
67°	1614.4	1656.4	2055.6	2932.2	4523.2	6560.2	7795.1	7839.5	7425.1	7638.7
67.5°	1511.6	1550.2	1927.2	2767.6	4303.8	6417.7	7802.1	7795.1	7429.8	7642.2
70°	1049.4	1065.7	1313.2	1903.8	3170.4	5422.0	7232.5	7248.9	7118.1	7227.8
72.5°	695.7	720.2	877.8	1200.0	1868.8	3945.4	6045.4	6220.5	6137.6	5926.3
75°	448.2	462.2	574.3	714.4	919.8	2247.0	4466.0	4582.8	4392.5	3665.3
77.5°	251.0	266.1	346.7	434.2	448.2	935.0	2508.5	2653.2	2248.2	1557.2
80°	156.4	176.3	261.5	258.0	213.6	343.2	1034.2	1107.8	898.8	535.8
82.5°	117.9	133.1	201.9	180.9	120.2	152.9	387.5	415.6	329.2	206.6
85°	80.5	101.6	145.9	112.1	63.0	73.5	154.1	165.8	150.6	100.4
87.5°	29.2	43.2	75.9	56.0	28.0	22.2	50.2	56.0	53.7	45.5
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°
1549.0	0°	1549.0	1549.0	1549.0	1549.0	1549.0	1549.0	1549.0	1549.0	1549.0	1549.0
1563.0	2.5°	1585.2	1601.5	1609.7	1657.5	1677.4	1673.9	1678.6	1685.6	1692.6	1701.9
1582.8	5°	1598.0	1648.2	1675.1	1731.1	1768.4	1752.1	1773.1	1767.3	1759.1	1757.9
1619.0	7.5°	1640.0	1704.2	1784.8	1800.0	1816.3	1775.4	1740.4	1692.6	1680.9	1640.0
1649.4	10°	1714.7	1767.3	1865.3	1871.2	1798.8	1693.7	1615.5	1516.3	1515.1	1455.6
1696.1	12.5°	1785.9	1845.5	1924.9	1891.0	1718.2	1574.7	1447.4	1338.9	1293.4	1263.0
1724.1	15°	1830.3	1928.4	1970.4	1824.5	1577.0	1383.2	1218.6	1101.9	1055.2	1033.0
1759.1	17.5°	1871.2	2007.7	1989.1	1707.7	1403.1	1186.0	989.9	888.3	875.5	859.1
1815.1	20°	1927.2	2036.9	1922.5	1556.0	1205.8	931.5	806.6	757.6	769.2	776.2
1821.0	22.5°	1979.7	2052.1	1838.5	1390.2	952.5	737.7	675.9	686.4	703.9	727.2
1835.0	25°	2003.1	2076.6	1725.3	1161.5	724.9	621.0	607.0	624.5	653.7	654.8
1854.8	27.5°	2018.2	2059.1	1588.7	938.5	573.1	542.8	563.8	576.6	580.1	594.1
1896.8	30°	2045.1	2022.9	1415.9	671.2	480.9	482.1	508.9	508.9	508.9	519.4
1938.9	32.5°	2091.8	1998.4	1214.0	490.3	414.4	451.7	444.7	442.4	437.7	424.9
1992.6	35°	2121.0	1931.9	958.3	363.0	372.4	414.4	412.1	375.9	315.2	284.8
2129.1	37.5°	2181.7	1898.0	705.0	280.1	347.9	395.7	382.9	295.3	228.8	199.6
2298.4	40°	2312.4	1875.8	487.9	245.1	331.5	386.4	342.0	252.1	175.1	123.7
2559.9	42.5°	2472.3	1877.0	331.5	231.1	332.7	406.2	329.2	215.9	123.7	99.2
2908.9	45°	2687.1	1859.5	227.6	231.1	353.7	438.9	337.3	196.1	120.2	126.1
3346.6	47.5°	2918.2	1874.7	169.3	210.1	357.2	440.1	308.2	192.6	115.6	145.9
3822.9	50°	3187.9	1889.8	140.1	193.8	358.4	426.1	283.7	187.9	120.2	154.1
4369.2	52.5°	3465.7	1937.7	119.1	183.3	372.4	420.2	283.7	194.9	120.2	134.2
5064.9	55°	3880.1	2060.3	171.6	228.8	423.7	458.7	349.0	273.1	168.1	172.8
5731.4	57.5°	4337.6	2186.3	191.4	240.5	435.4	413.2	375.9	301.2	177.4	178.6
6249.7	60°	4638.8	2191.0	190.3	234.6	407.4	357.2	367.7	317.5	180.9	152.9
6570.7	62.5°	4759.0	2048.6	198.4	234.6	379.4	333.8	377.0	342.0	186.8	191.4
6661.7	65°	4622.5	1754.4	191.4	210.1	333.8	298.8	379.4	346.7	204.3	192.6
6498.3	67°	4408.8	1511.6	194.9	199.6	310.5	283.7	399.2	364.2	237.0	231.1
6413.1	67.5°	4348.1	1447.4	193.8	193.8	302.3	279.0	403.9	364.2	241.6	239.3
5660.2	70°	3832.2	1173.1	198.4	191.4	267.3	265.0	429.6	384.0	277.8	280.1
4157.9	72.5°	2917.1	889.5	197.3	191.4	232.3	253.3	433.1	396.9	302.3	280.1
2328.7	75°	1657.5	532.3	173.9	166.9	183.3	220.6	405.0	378.2	294.2	251.0
930.3	77.5°	685.2	274.3	159.9	150.6	151.7	179.8	337.3	352.5	280.1	213.6
310.5	80°	255.6	164.6	128.4	120.2	116.7	131.9	240.5	281.3	239.3	175.1
136.6	82.5°	133.1	102.7	87.5	87.5	79.4	84.0	129.6	186.8	180.9	120.2
54.9	85°	67.7	58.4	50.2	49.0	44.4	39.7	65.4	110.9	103.9	66.5
24.5	87.5°	36.2	32.7	21.0	19.8	16.3	10.5	11.7	22.2	36.2	29.2
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>
1549.0
1711.2
1768.4
1654.0
1453.3
1256.0
1028.4
867.3
768.1
714.4
666.5
607.0
531.1
417.9
298.8
198.4
120.2
96.9
128.4
162.3
178.6
137.7
182.1
172.8
157.6
193.8
189.1
227.6
234.6
259.1
248.6
224.1
201.9
159.9
94.6
54.9
21.0
0.0

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