

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: P477298

Luminaire Tested: **IFLD-S-SA3A-730-U-T3**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P477298  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3A-730-U-T3  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3  
distribution lens  
Light Source: (48) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

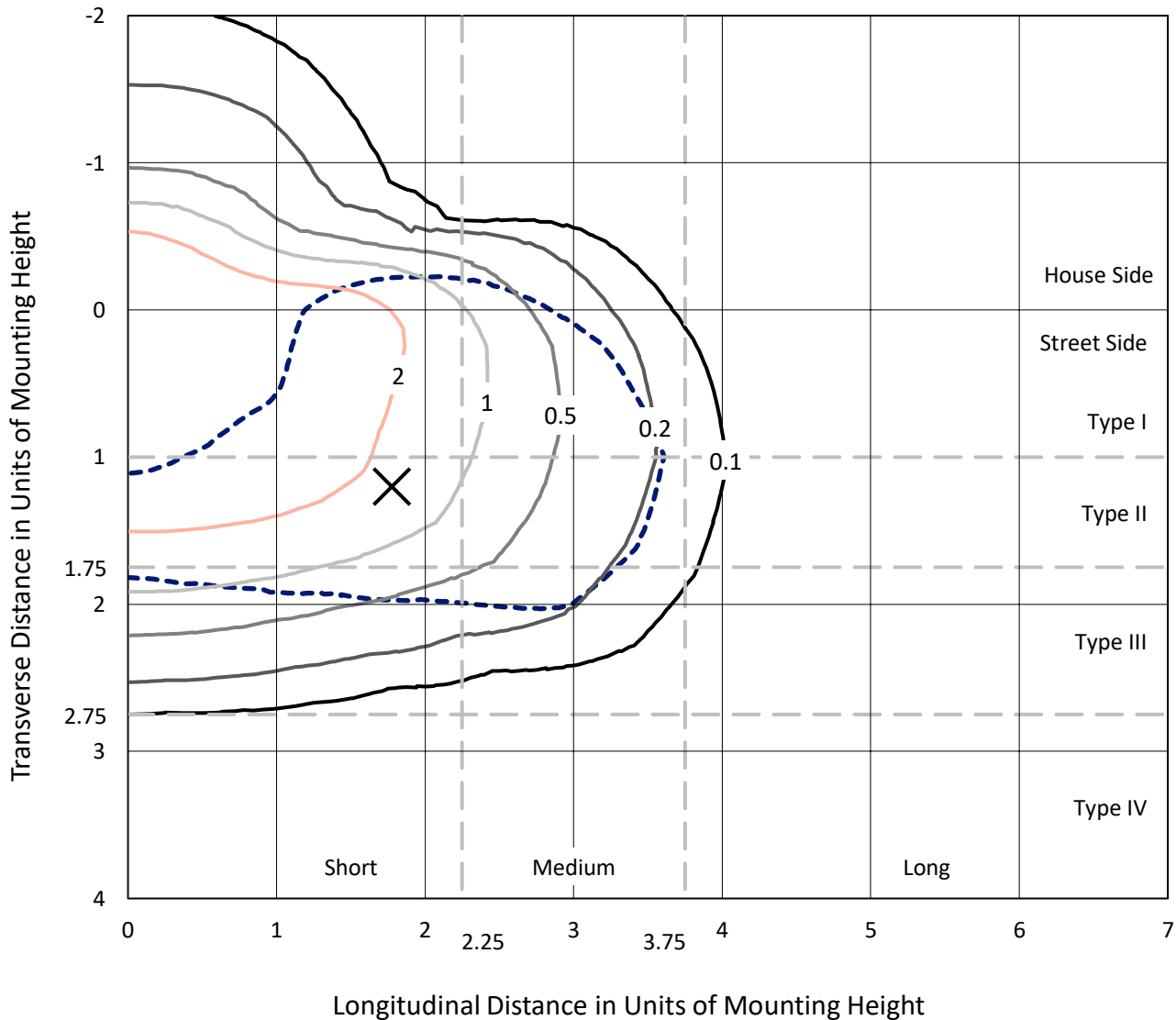
Lumens per Lamp: N/A  
Luminaire Lumens: 12760.5 lumens  
Efficiency: N/A  
Efficacy: 134.6 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2

Input Watts (W): 94.8  
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

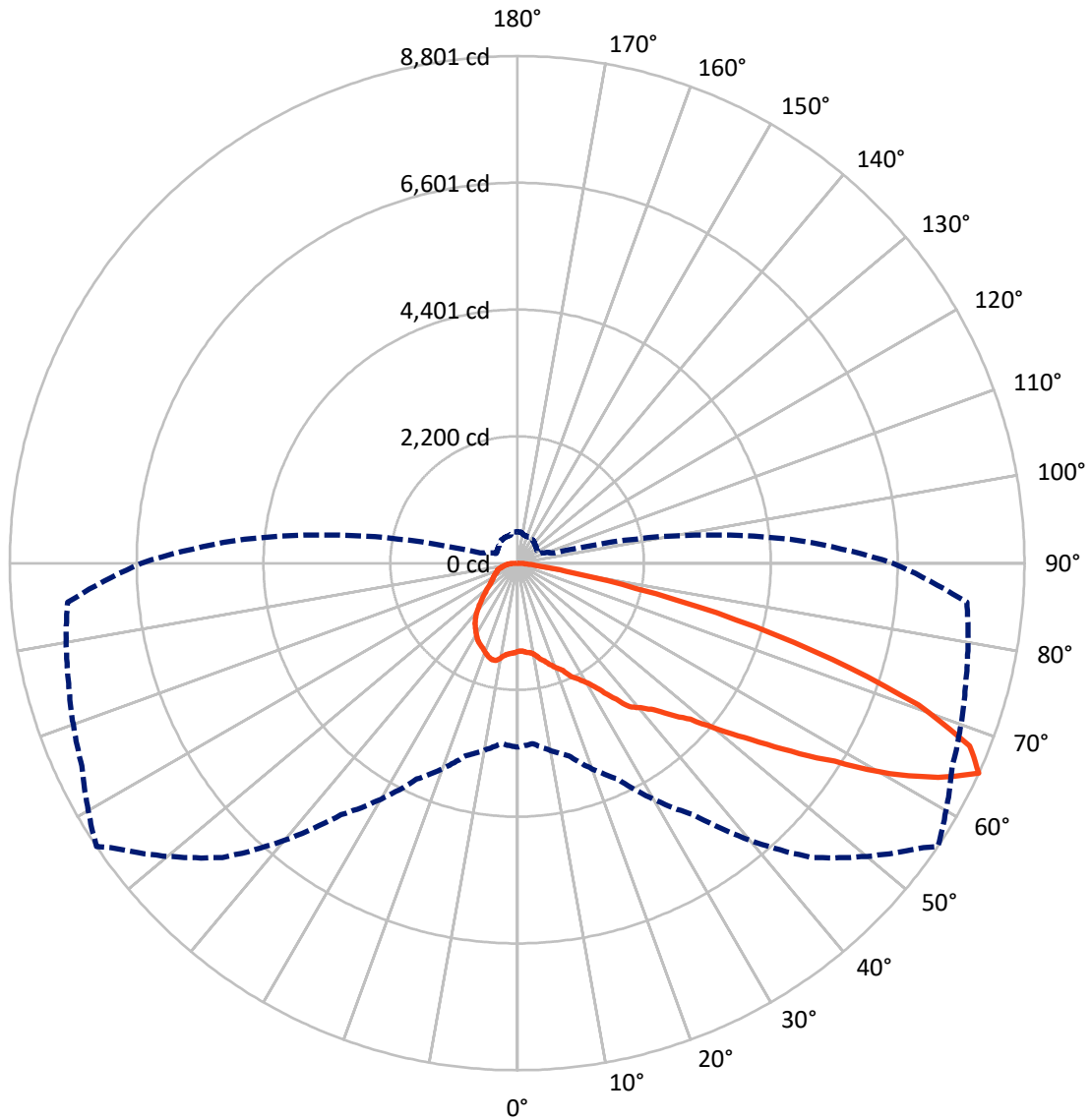
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.4 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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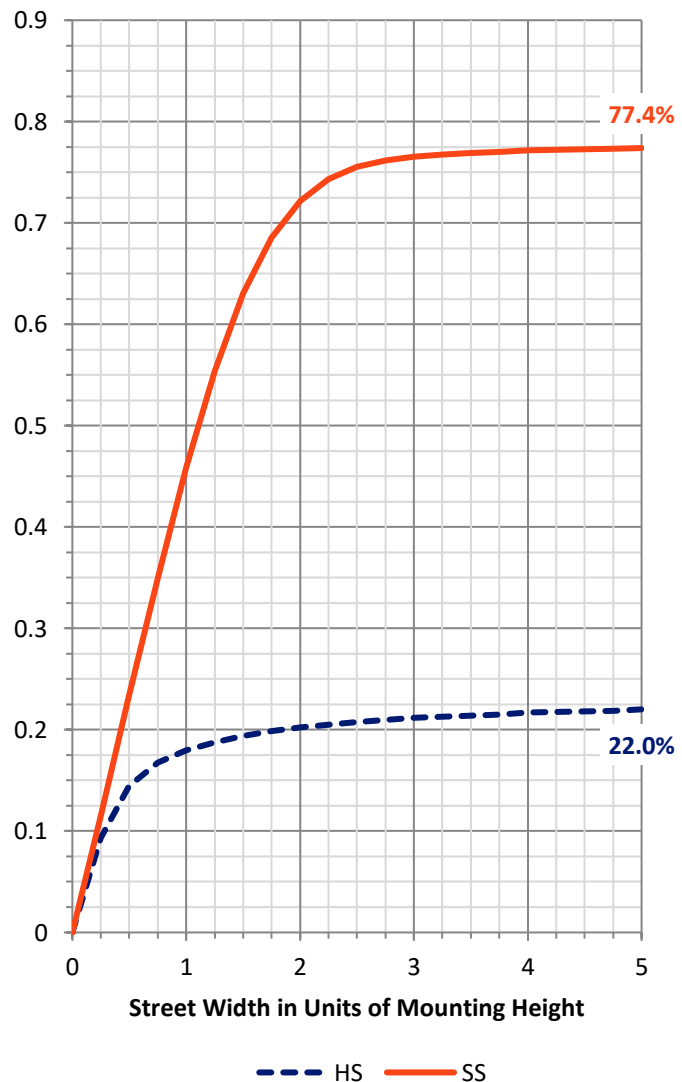
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2861.8	0.0	2861.8
	% Fixture	22.4	0.0	22.4
<b>Street Side</b>	Lumens	9898.8	0.0	9898.8
	% Fixture	77.6	0.0	77.6
<b>Total</b>	Lumens	12760.5	0.0	12760.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	151.8	1.2
10°-20°	492.8	3.9
20°-30°	877.5	6.9
30°-40°	1314.1	10.3
40°-50°	1947.0	15.3
50°-60°	3000.1	23.5
60°-70°	3396.4	26.6
70°-80°	1409.6	11.0
80°-90°	171.2	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°	12760.5	100.0
0°-180°	12760.5	100.0

**Coefficient of Utilization**

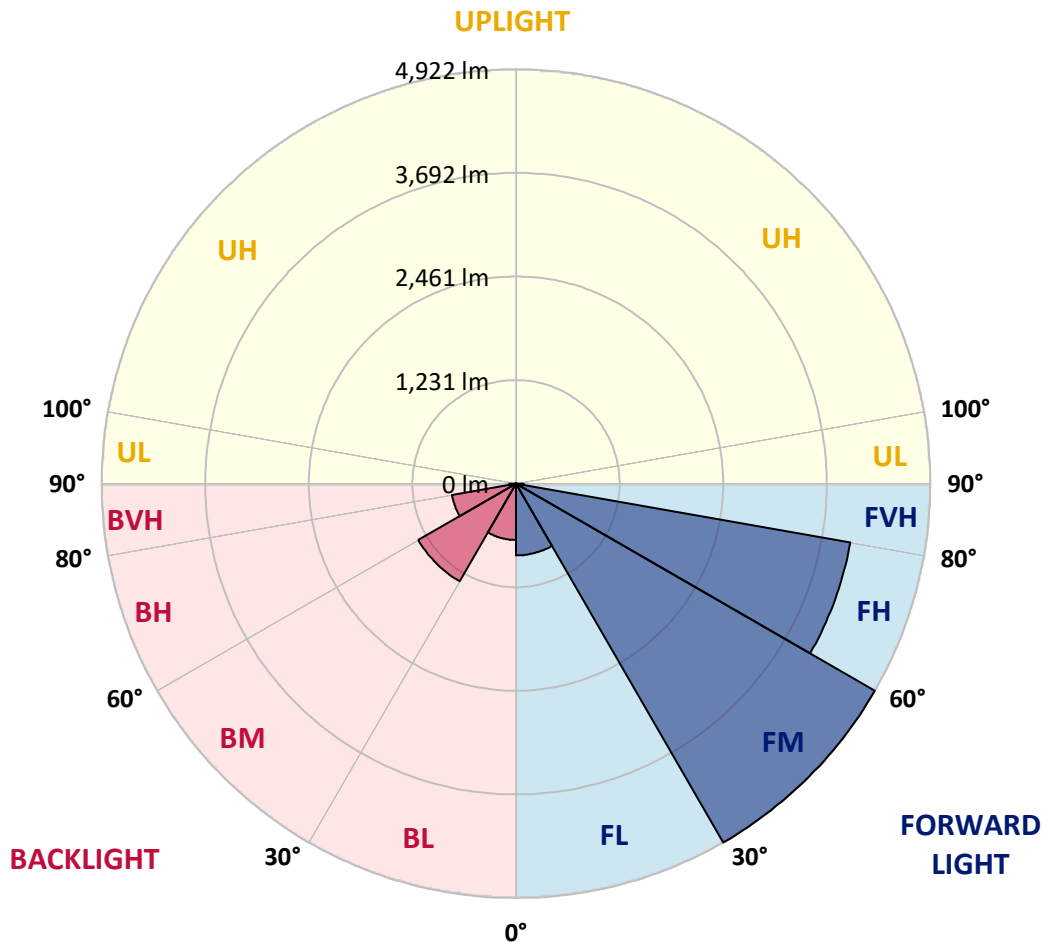


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	852.8	6.7			
FM (30°-60°)	4922.5	38.6			
FH (60°-80°)	4033.2	31.6			G2/5000
FVH (80°-90°)	90.3	0.7			G1/100
BL (0°-30°)	669.4	5.2	B2/1000		
BM (30°-60°)	1338.7	10.5	B2/2500		
BH (60°-80°)	772.8	6.1	B2/1000		G2/1000
BVH (80°-90°)	80.9	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°	1531.6	1531.6	1531.6	1531.6	1531.6	1531.6	1531.6	1531.6	1531.6	1531.6
2.5°	1491.6	1499.6	1494.2	1510.3	1523.6	1523.6	1534.3	1526.3	1537.0	1551.7
5°	1541.0	1508.9	1526.3	1534.3	1530.3	1537.0	1526.3	1553.0	1535.6	1563.7
7.5°	1553.0	1565.0	1579.7	1566.3	1578.4	1571.7	1573.0	1569.0	1559.7	1582.4
10°	1641.1	1623.8	1657.2	1637.1	1634.5	1631.8	1626.4	1606.4	1629.1	1630.4
12.5°	1742.6	1726.6	1725.3	1709.2	1730.6	1691.9	1699.9	1689.2	1693.2	1698.5
15°	1816.1	1809.4	1840.1	1821.4	1793.4	1776.0	1794.7	1765.3	1780.0	1777.3
17.5°	1961.6	1960.3	1937.6	1906.9	1890.8	1865.5	1861.5	1849.4	1860.1	1854.8
20°	2063.1	2077.8	2081.8	2045.7	1984.3	1956.3	1949.6	1940.2	1952.3	1948.3
22.5°	2218.0	2195.3	2212.7	2149.9	2127.2	2060.4	2036.4	2023.0	2080.5	2065.8
25°	2316.8	2340.8	2323.5	2302.1	2251.4	2168.6	2151.2	2180.6	2203.3	2187.3
27.5°	2539.8	2515.8	2499.7	2435.7	2402.3	2315.5	2295.4	2284.8	2290.1	2299.4
30°	2709.4	2722.7	2686.7	2641.3	2557.2	2469.0	2422.3	2413.0	2394.3	2378.2
32.5°	2951.1	2931.1	2909.7	2880.3	2808.2	2692.0	2646.6	2611.9	2555.8	2481.1
35°	3067.3	3124.7	3108.7	3029.9	2975.1	2931.1	2917.7	2864.3	2817.6	2700.0
37.5°	3260.9	3284.9	3262.2	3236.9	3211.5	3164.7	3148.7	3163.4	3071.3	2877.6
40°	3386.4	3437.2	3483.9	3413.1	3407.8	3417.1	3318.3	3300.9	3111.3	3009.8
42.5°	3642.8	3664.2	3673.5	3670.8	3701.5	3701.5	3513.3	3475.9	3341.0	3258.2
45°	3982.0	3999.3	4032.7	4056.7	4022.0	4039.4	3771.0	3756.3	3636.1	3620.1
47.5°	4275.7	4317.1	4391.9	4462.7	4508.1	4449.3	4155.6	4051.4	4020.7	4116.8
50°	4532.1	4482.7	4657.6	4729.8	4928.7	5026.2	4580.2	4538.8	4489.4	4673.7
52.5°	4557.5	4624.3	4871.3	5015.5	5425.5	5605.7	5101.0	5083.6	5023.5	5235.8
55°	4739.1	4731.1	4979.5	5291.9	5779.3	6082.5	5779.3	5768.6	5637.8	5839.4
57.5°	4708.4	4789.8	4986.1	5422.8	6098.5	6593.9	6565.8	6492.4	6309.5	6473.7
60°	4604.2	4625.6	4864.6	5418.8	6284.1	7118.7	7415.1	7429.8	7055.9	7186.8
62.5°	4014.0	4063.4	4366.5	4992.8	6151.9	7480.5	8244.4	8192.3	7893.2	7743.6
65°	3192.8	3143.4	3458.5	4135.5	5329.3	7224.2	8607.6	8801.2	8331.2	8057.4
67.5°	1957.6	1945.6	2248.7	2845.6	3987.3	6147.9	8317.8	8468.7	8209.6	7990.6
70°	1008.2	977.5	1167.1	1587.7	2506.4	4510.8	7238.9	7387.1	7634.1	7166.7
72.5°	470.0	463.4	564.8	781.2	1276.6	2652.0	5605.7	5712.6	6233.3	6042.4
75°	276.4	280.4	337.8	408.6	622.3	1249.9	3720.2	3927.2	4492.1	4354.5
77.5°	207.0	207.0	240.4	284.4	363.2	483.4	1836.1	2109.8	2626.6	2362.2
80°	152.2	154.9	184.3	213.7	252.4	249.7	729.1	854.6	1204.5	1029.5
82.5°	118.8	122.9	142.9	158.9	177.6	150.9	299.1	321.8	495.4	393.9
85°	82.8	85.5	112.2	108.2	108.2	84.1	124.2	130.9	196.3	186.9
87.5°	20.0	22.7	54.7	60.1	45.4	25.4	38.7	44.1	70.8	81.5
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°
1531.6	0°	1531.6	1531.6	1531.6	1531.6	1531.6	1531.6	1531.6	1531.6	1531.6
1558.3	2.5°	1538.3	1543.6	1566.3	1554.3	1561.0	1533.0	1555.7	1537.0	1553.0
1570.4	5°	1581.0	1569.0	1582.4	1573.0	1573.0	1583.7	1599.7	1587.7	1611.7
1579.7	7.5°	1598.4	1599.7	1607.7	1609.1	1602.4	1635.8	1637.1	1633.1	1655.8
1643.8	10°	1641.1	1642.5	1657.2	1665.2	1658.5	1670.5	1657.2	1646.5	1645.1
1694.5	12.5°	1709.2	1722.6	1719.9	1726.6	1727.9	1677.2	1646.5	1594.4	1587.7
1769.3	15°	1772.0	1766.6	1769.3	1782.7	1726.6	1645.1	1590.4	1546.3	1549.0
1866.8	17.5°	1846.8	1850.8	1854.8	1793.4	1690.5	1594.4	1546.3	1546.3	1533.0
1934.9	20°	1932.2	1916.2	1881.5	1794.7	1627.8	1535.6	1520.9	1520.9	1504.9
2008.3	22.5°	1999.0	1966.9	1914.9	1753.3	1571.7	1512.9	1476.9	1451.5	1432.8
2089.8	25°	2041.7	2024.4	1922.9	1710.6	1530.3	1452.8	1399.4	1360.7	1336.7
2153.9	27.5°	2107.2	2073.8	1945.6	1661.2	1484.9	1392.8	1310.0	1249.9	1204.5
2251.4	30°	2195.3	2147.2	1929.6	1590.4	1415.5	1288.6	1191.1	1113.7	1061.6
2343.5	32.5°	2267.4	2204.6	1916.2	1526.3	1338.0	1183.1	1053.6	974.8	945.4
2498.4	35°	2404.9	2280.8	1906.9	1490.2	1268.6	1077.6	941.4	873.3	835.9
2590.6	37.5°	2510.4	2413.0	1884.2	1415.5	1179.1	974.8	855.9	794.5	738.4
2804.2	40°	2676.0	2597.2	1885.5	1310.0	1073.6	886.7	789.2	725.1	654.3
3120.7	42.5°	2987.1	2778.8	1893.5	1225.8	954.8	814.6	729.1	653.0	582.2
3481.2	45°	3369.1	3028.5	1844.1	1149.7	833.2	746.5	657.0	580.9	535.5
3971.3	47.5°	3808.4	3272.9	1777.3	1006.8	731.8	674.3	590.2	546.2	512.8
4602.9	50°	4299.8	3622.8	1758.6	876.0	653.0	612.9	558.2	524.8	502.1
5314.6	52.5°	4932.7	4030.0	1721.2	741.1	584.9	563.5	546.2	523.5	503.4
5978.3	55°	5537.6	4481.4	1681.2	630.3	536.8	539.5	548.8	528.8	511.4
6722.1	57.5°	6218.7	4942.1	1533.0	548.8	500.8	527.5	546.2	523.5	506.1
7483.2	60°	6639.3	5201.1	1243.2	478.1	468.7	504.8	530.1	506.1	487.4
7833.1	62.5°	6810.2	5064.9	937.4	434.0	446.0	474.0	504.8	495.4	482.1
7829.1	65°	6519.1	4751.1	670.3	396.6	415.3	443.3	482.1	492.7	496.7
7190.8	67.5°	5800.7	4136.9	492.7	365.9	383.2	424.6	498.1	515.4	512.8
6034.4	70°	4641.6	3235.5	384.6	340.5	371.2	439.3	520.8	520.8	502.1
4602.9	72.5°	3377.1	2280.8	331.2	311.1	340.5	403.3	518.1	516.8	492.7
2931.1	75°	2044.4	1327.3	292.4	281.8	292.4	345.9	495.4	487.4	454.0
1410.1	77.5°	1018.9	667.7	239.0	249.7	255.0	289.8	435.3	447.3	401.9
556.8	80°	430.0	291.1	199.0	215.0	215.0	244.4	361.9	369.9	333.8
220.3	82.5°	196.3	166.9	169.6	186.9	174.9	189.6	287.1	296.4	271.1
93.5	85°	82.8	94.8	129.5	146.9	129.5	122.9	197.6	208.3	176.3
40.1	87.5°	37.4	52.1	81.5	106.8	65.4	57.4	105.5	109.5	88.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END O





<u>180°</u>
1531.6
1530.3
1586.4
1642.5
1639.8
1597.1
1569.0
1539.6
1478.2
1399.4
1314.0
1188.4
1050.9
913.4
786.5
691.7
616.9
550.2
515.4
495.4
487.4
487.4
487.4
487.4
488.7
500.8
546.2
578.2
562.2
506.1
446.0
384.6
307.1
232.3
148.2
61.4
0.0

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