

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: P477761

Luminaire Tested: **IFLD-S-SA2A-740-U-T3R**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P477761  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2A-740-U-T3R  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens  
Light Source: (32) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

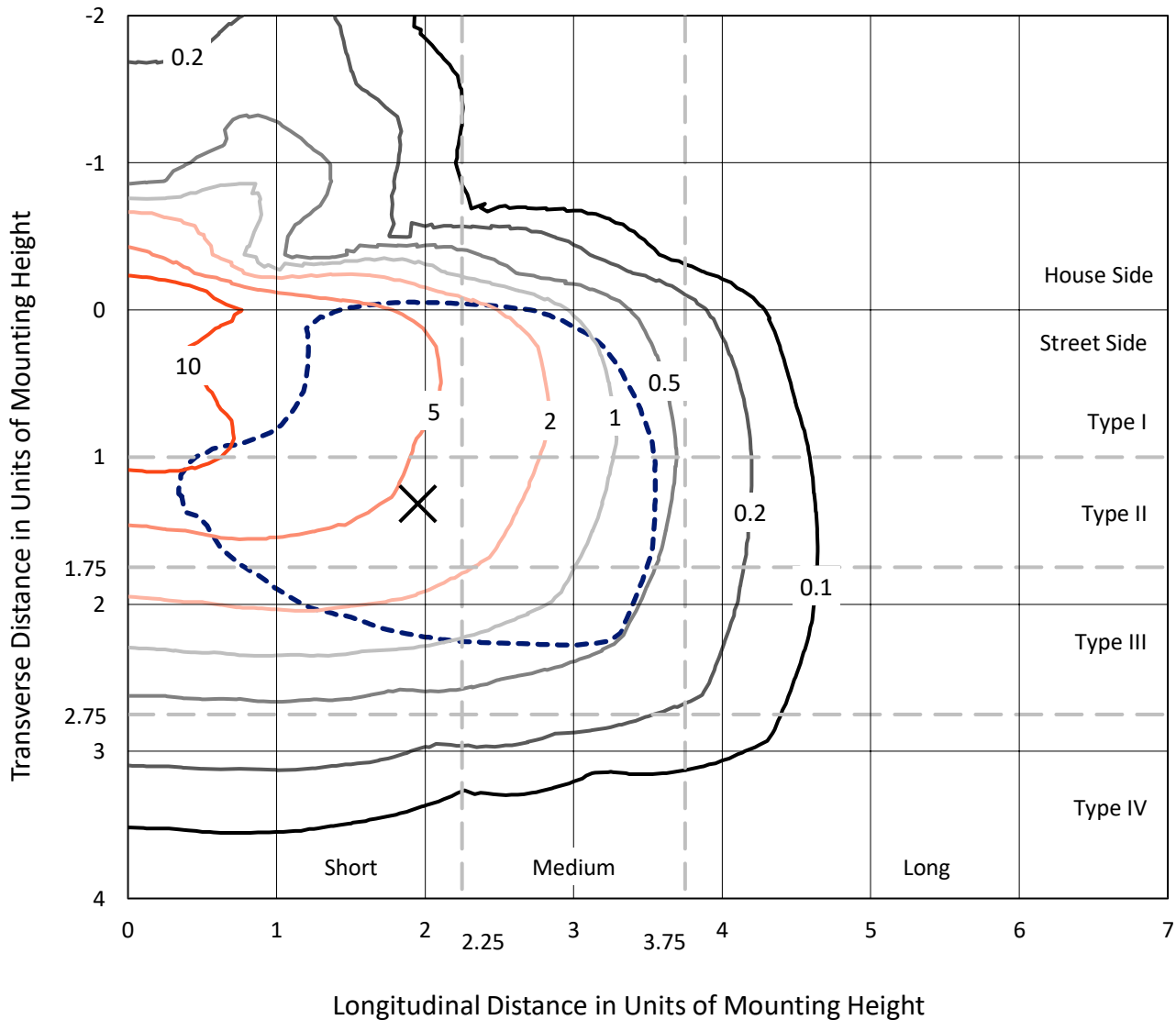
Lumens per Lamp: N/A  
Luminaire Lumens: 9068.8 lumens  
Efficiency: N/A  
Efficacy: 142.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 63.8  
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

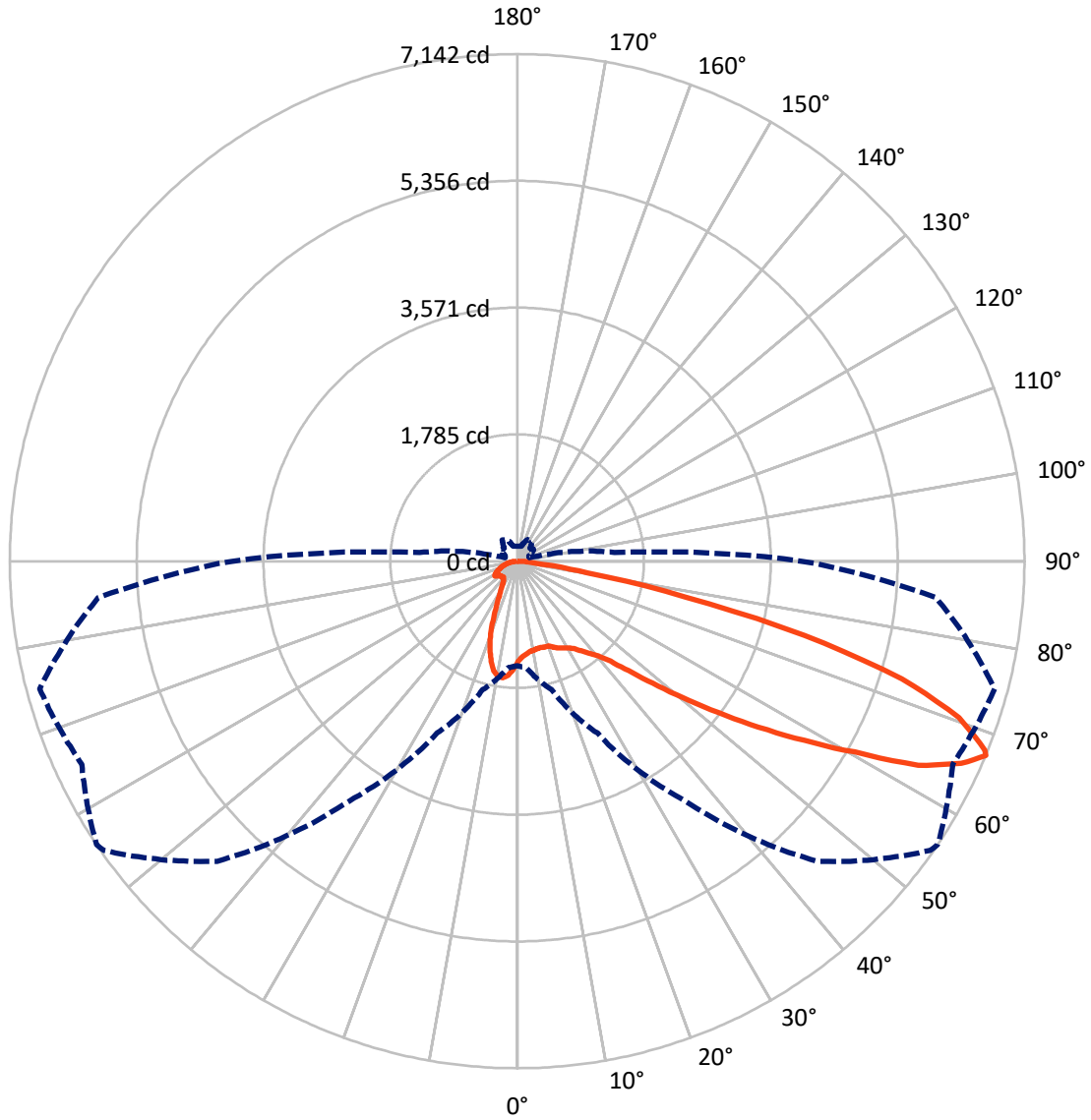
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.7 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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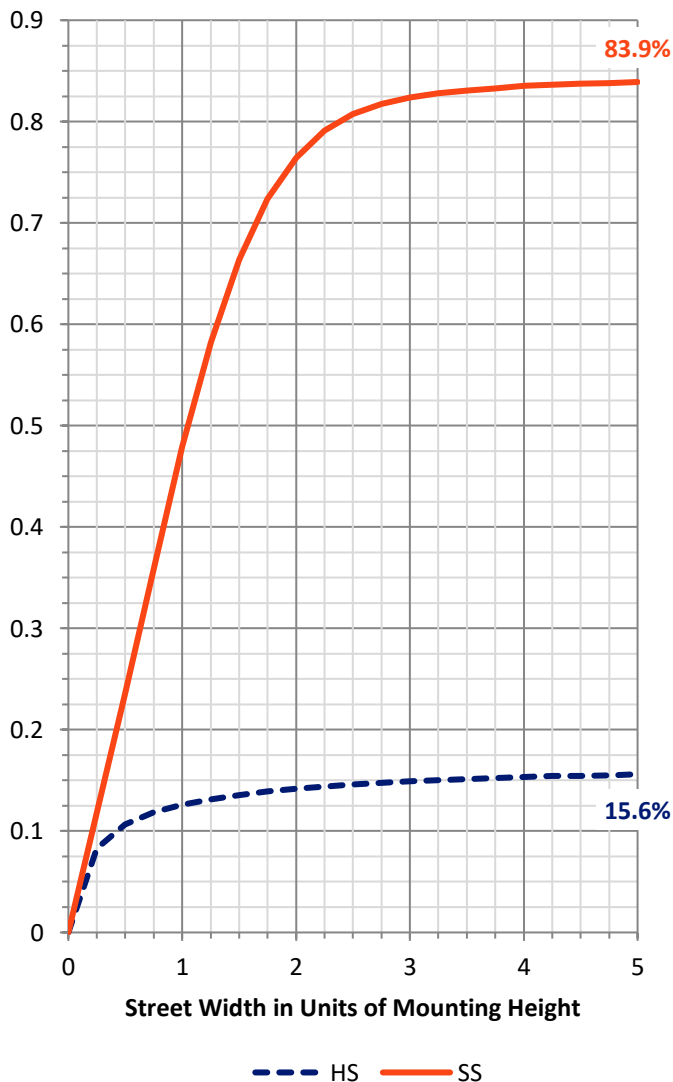
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1435.7	0.0	1435.7
	% Fixture	15.8	0.0	15.8
<b>Street Side</b>	Lumens	7633.1	0.0	7633.1
	% Fixture	84.2	0.0	84.2
<b>Total</b>	Lumens	9068.8	0.0	9068.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	135.9	1.5
10°-20°	370.9	4.1
20°-30°	581.6	6.4
30°-40°	830.3	9.2
40°-50°	1253.1	13.8
50°-60°	1994.7	22.0
60°-70°	2550.1	28.1
70°-80°	1243.4	13.7
80°-90°	108.8	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°	9068.8	100.0
0°-180°	9068.8	100.0

**Coefficient of Utilization**

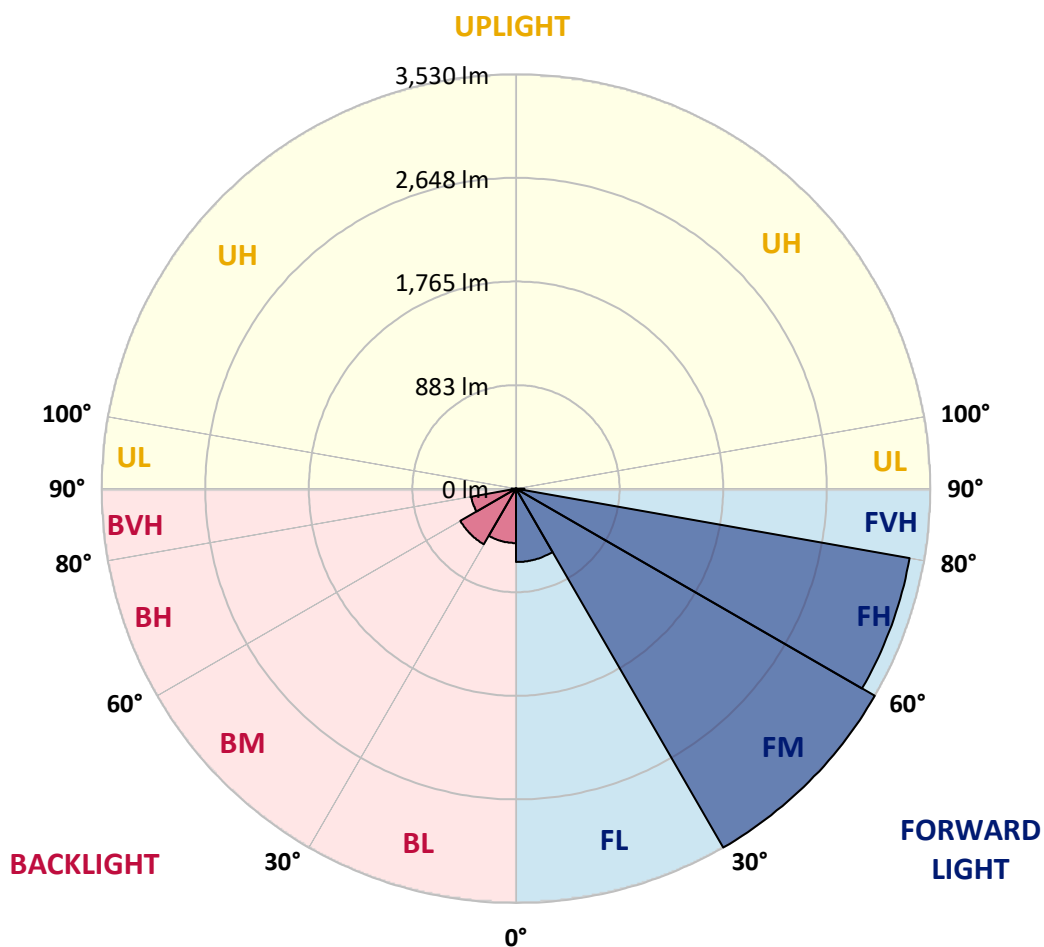


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	624.9	6.9			
FM (30°-60°)	3530.4	38.9			
FH (60°-80°)	3405.5	37.6			G2/5000
FVH (80°-90°)	72.2	0.8			G1/100
BL (0°-30°)	463.5	5.1	B1/500		
BM (30°-60°)	547.7	6.0	B1/1000		
BH (60°-80°)	387.9	4.3	B1/500		G1/500
BVH (80°-90°)	36.5	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	1411.1	1411.1	1411.1	1411.1	1411.1	1411.1	1411.1	1411.1	1411.1	1411.1
2.5°	1296.2	1290.9	1297.3	1290.9	1319.6	1336.6	1342.0	1349.4	1376.0	1401.5
5°	1242.0	1218.6	1244.1	1252.6	1254.8	1283.5	1313.2	1318.6	1332.4	1373.9
7.5°	1151.6	1178.2	1168.6	1194.2	1220.7	1249.4	1298.4	1284.5	1335.6	1374.9
10°	1132.5	1134.6	1145.2	1154.8	1178.2	1215.4	1283.5	1275.0	1327.1	1411.1
12.5°	1151.6	1151.6	1148.4	1141.0	1167.6	1203.7	1258.0	1262.2	1344.1	1421.7
15°	1218.6	1231.4	1197.3	1202.7	1192.0	1203.7	1251.6	1261.1	1350.5	1430.2
17.5°	1382.4	1378.1	1337.7	1281.3	1234.6	1227.1	1260.1	1270.7	1344.1	1454.7
20°	1541.9	1533.4	1463.2	1404.7	1312.2	1268.6	1273.9	1275.0	1354.7	1470.6
22.5°	1719.5	1741.8	1665.2	1546.1	1431.3	1322.8	1301.6	1318.6	1379.2	1479.1
25°	1998.1	1950.2	1884.3	1728.0	1542.9	1406.8	1347.3	1355.8	1402.6	1500.4
27.5°	2199.0	2179.9	2076.7	1950.2	1699.2	1472.8	1371.7	1387.7	1445.1	1499.3
30°	2392.6	2392.6	2329.8	2140.5	1864.1	1583.3	1423.8	1416.4	1424.9	1497.2
32.5°	2619.1	2588.2	2497.8	2372.4	2071.4	1684.4	1465.3	1467.4	1467.4	1536.6
35°	2738.2	2788.1	2727.5	2523.4	2229.9	1852.4	1565.3	1549.3	1537.6	1580.2
37.5°	2912.5	2942.3	2878.5	2758.4	2426.6	1988.5	1653.5	1640.8	1572.7	1614.2
40°	3017.8	3012.5	3010.4	2955.1	2687.1	2149.0	1783.3	1750.3	1658.8	1734.3
42.5°	3077.4	3066.7	3197.5	3163.5	2932.7	2385.1	1945.9	1927.9	1826.9	1948.1
45°	3144.4	3223.0	3330.4	3426.1	3218.8	2716.9	2221.4	2195.8	2105.5	2259.6
47.5°	3202.8	3299.6	3436.8	3538.9	3477.2	3077.4	2561.6	2568.0	2508.5	2666.9
50°	3300.7	3310.2	3496.3	3702.6	3750.5	3410.2	3018.9	3008.2	2981.7	3203.9
52.5°	3270.9	3299.6	3534.6	3798.3	3877.0	3762.2	3510.1	3542.1	3507.0	3786.6
55°	2786.0	2872.1	3511.2	3899.3	4176.9	4159.9	4141.8	4120.5	4118.4	4441.7
57.5°	2565.9	2636.1	3093.3	4011.0	4498.0	4623.5	4740.5	4763.9	4762.8	5153.0
60°	2421.3	2493.6	2924.2	3950.4	4771.3	5230.7	5455.0	5458.2	5451.8	5913.3
62.5°	2138.4	2208.6	2631.8	3618.6	4846.8	5791.1	6290.8	6332.3	6039.9	6568.4
65°	1798.1	1855.6	2228.8	3111.4	4645.8	6147.3	6919.3	6870.4	6535.4	6942.7
67°	1470.6	1508.9	1872.6	2671.2	4120.5	5976.1	7101.1	7141.5	6764.0	6958.6
67.5°	1377.1	1412.1	1755.6	2521.2	3920.6	5846.4	7107.5	7101.1	6768.3	6961.8
70°	956.0	970.8	1196.3	1734.3	2888.1	4939.3	6588.6	6603.5	6484.4	6584.3
72.5°	633.8	656.1	799.6	1093.1	1702.4	3594.2	5507.1	5666.6	5591.1	5398.7
75°	408.3	421.1	523.2	650.8	837.9	2047.0	4068.4	4174.7	4001.4	3338.9
77.5°	228.6	242.4	315.8	395.6	408.3	851.8	2285.2	2417.0	2048.0	1418.5
80°	142.5	160.6	238.2	235.0	194.6	312.6	942.1	1009.1	818.8	488.1
82.5°	107.4	121.2	184.0	164.8	109.5	139.3	353.0	378.6	299.9	188.2
85°	73.4	92.5	132.9	102.1	57.4	67.0	140.4	151.0	137.2	91.4
87.5°	26.6	39.3	69.1	51.0	25.5	20.2	45.7	51.0	48.9	41.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P477761  
 CATALOG NUMBER: IFLD-S-SA2A-740-U-T3R

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1411.1	0°	1411.1	1411.1	1411.1	1411.1	1411.1	1411.1	1411.1	1411.1	1411.1	1411.1
1423.8	2.5°	1444.0	1458.9	1466.4	1510.0	1528.0	1524.9	1529.1	1535.5	1541.9	1550.4
1441.9	5°	1455.7	1501.5	1525.9	1577.0	1611.0	1596.1	1615.2	1609.9	1602.5	1601.4
1474.9	7.5°	1494.0	1552.5	1625.9	1639.7	1654.6	1617.4	1585.5	1541.9	1531.2	1494.0
1502.5	10°	1562.1	1609.9	1699.2	1704.6	1638.6	1542.9	1471.7	1381.3	1380.2	1326.0
1545.1	12.5°	1626.9	1681.2	1753.5	1722.6	1565.3	1434.5	1318.6	1219.7	1178.2	1150.6
1570.6	15°	1667.3	1756.7	1795.0	1662.0	1436.6	1260.1	1110.1	1003.8	961.3	941.1
1602.5	17.5°	1704.6	1829.0	1812.0	1555.7	1278.2	1080.4	901.7	809.2	797.5	782.6
1653.5	20°	1755.6	1855.6	1751.4	1417.5	1098.5	848.6	734.8	690.1	700.8	707.1
1658.8	22.5°	1803.5	1869.4	1674.8	1266.5	867.7	672.0	615.7	625.3	641.2	662.5
1671.6	25°	1824.7	1891.7	1571.6	1058.0	660.3	565.7	552.9	568.9	595.5	596.5
1689.7	27.5°	1838.5	1875.8	1447.2	854.9	522.1	494.5	513.6	525.3	528.5	541.3
1728.0	30°	1863.0	1842.8	1289.9	611.4	438.1	439.2	463.6	463.6	463.6	473.2
1766.2	32.5°	1905.5	1820.5	1105.9	446.6	377.5	411.5	405.1	403.0	398.8	387.1
1815.2	35°	1932.1	1759.9	873.0	330.7	339.2	377.5	375.4	342.4	287.1	259.5
1939.6	37.5°	1987.4	1729.0	642.3	255.2	316.9	360.5	348.8	269.0	208.4	181.8
2093.8	40°	2106.5	1708.8	444.5	223.3	302.0	352.0	311.6	229.7	159.5	112.7
2331.9	42.5°	2252.2	1709.9	302.0	210.5	303.1	370.0	299.9	196.7	112.7	90.4
2649.9	45°	2447.9	1693.9	207.4	210.5	322.2	399.8	307.3	178.6	109.5	114.8
3048.7	47.5°	2658.4	1707.8	154.2	191.4	325.4	400.9	280.7	175.5	105.3	132.9
3482.5	50°	2904.0	1721.6	127.6	176.5	326.5	388.1	258.4	171.2	109.5	140.4
3980.2	52.5°	3157.1	1765.2	108.5	166.9	339.2	382.8	258.4	177.6	109.5	122.3
4613.9	55°	3534.6	1876.8	156.3	208.4	386.0	417.9	317.9	248.8	153.1	157.4
5221.1	57.5°	3951.4	1991.7	174.4	219.1	396.6	376.4	342.4	274.3	161.6	162.7
5693.2	60°	4225.8	1995.9	173.3	213.7	371.1	325.4	335.0	289.2	164.8	139.3
5985.7	62.5°	4335.3	1866.2	180.8	213.7	345.6	304.1	343.5	311.6	170.1	174.4
6068.6	65°	4210.9	1598.2	174.4	191.4	304.1	272.2	345.6	315.8	186.1	175.5
5919.7	67°	4016.3	1377.1	177.6	181.8	282.9	258.4	363.7	331.8	215.9	210.5
5842.1	67.5°	3961.0	1318.6	176.5	176.5	275.4	254.1	367.9	331.8	220.1	218.0
5156.2	70°	3491.0	1068.7	180.8	174.4	243.5	241.4	391.3	349.8	253.1	255.2
3787.7	72.5°	2657.3	810.3	179.7	174.4	211.6	230.7	394.5	361.5	275.4	255.2
2121.4	75°	1510.0	484.9	158.4	152.1	166.9	201.0	369.0	344.5	268.0	228.6
847.5	77.5°	624.2	249.9	145.7	137.2	138.2	163.8	307.3	321.1	255.2	194.6
282.9	80°	232.9	149.9	117.0	109.5	106.3	120.2	219.1	256.3	218.0	159.5
124.4	82.5°	121.2	93.6	79.8	79.8	72.3	76.6	118.0	170.1	164.8	109.5
50.0	85°	61.7	53.2	45.7	44.7	40.4	36.2	59.5	101.0	94.6	60.6
22.3	87.5°	33.0	29.8	19.1	18.1	14.9	9.6	10.6	20.2	33.0	26.6
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>
1411.1
1558.9
1611.0
1506.8
1323.9
1144.2
936.8
790.1
699.7
650.8
607.2
552.9
483.8
380.7
272.2
180.8
109.5
88.3
117.0
147.8
162.7
125.5
165.9
157.4
143.6
176.5
172.3
207.4
213.7
236.1
226.5
204.2
184.0
145.7
86.1
50.0
19.1
0.0

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