

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: P477922

Luminaire Tested: **IFLD-S-SA3A-830-U-T3R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P477922
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-830-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens
Light Source: (48) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

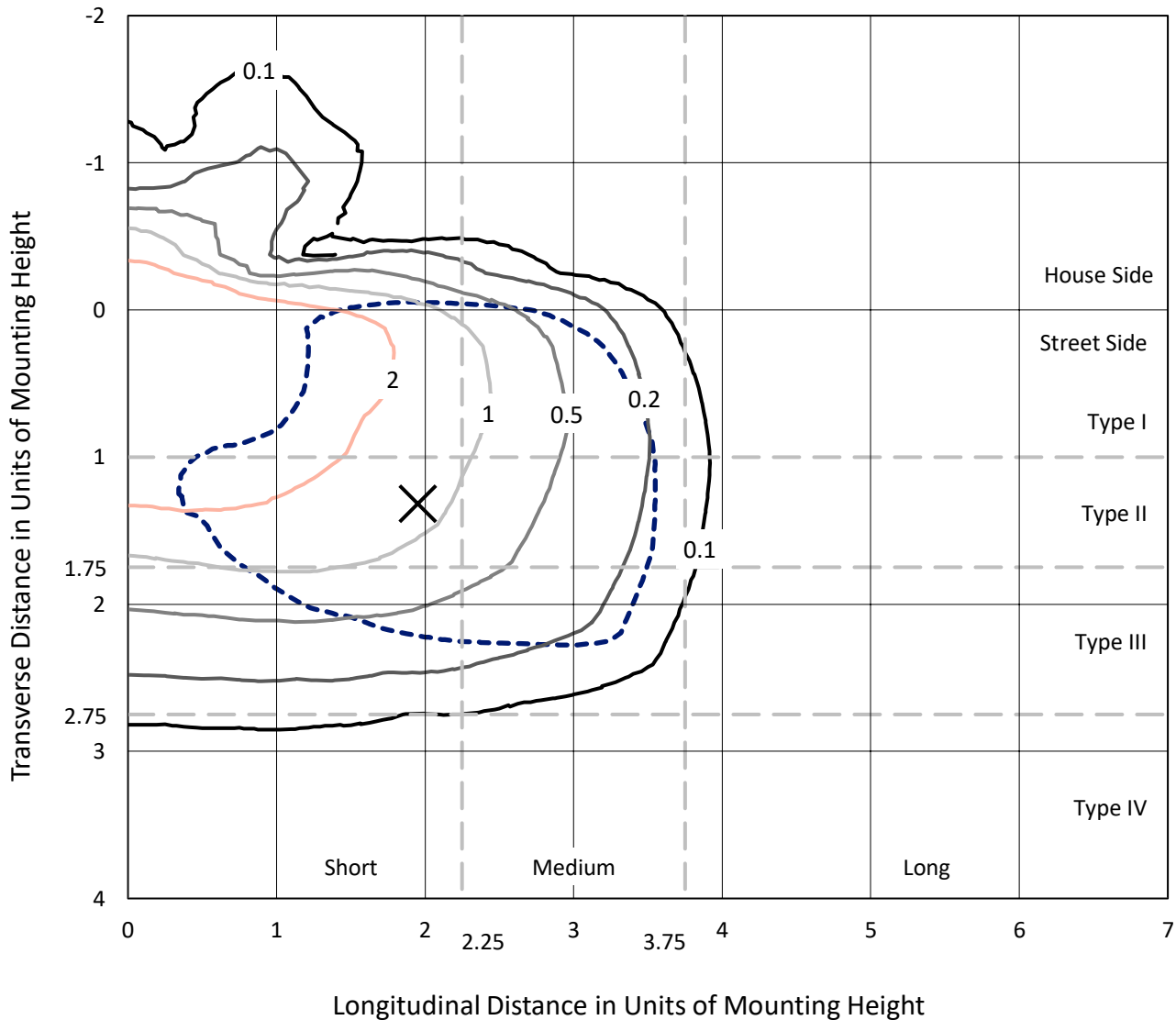
Lumens per Lamp: N/A
Luminaire Lumens: 10739 lumens
Efficiency: N/A
Efficacy: 113.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

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

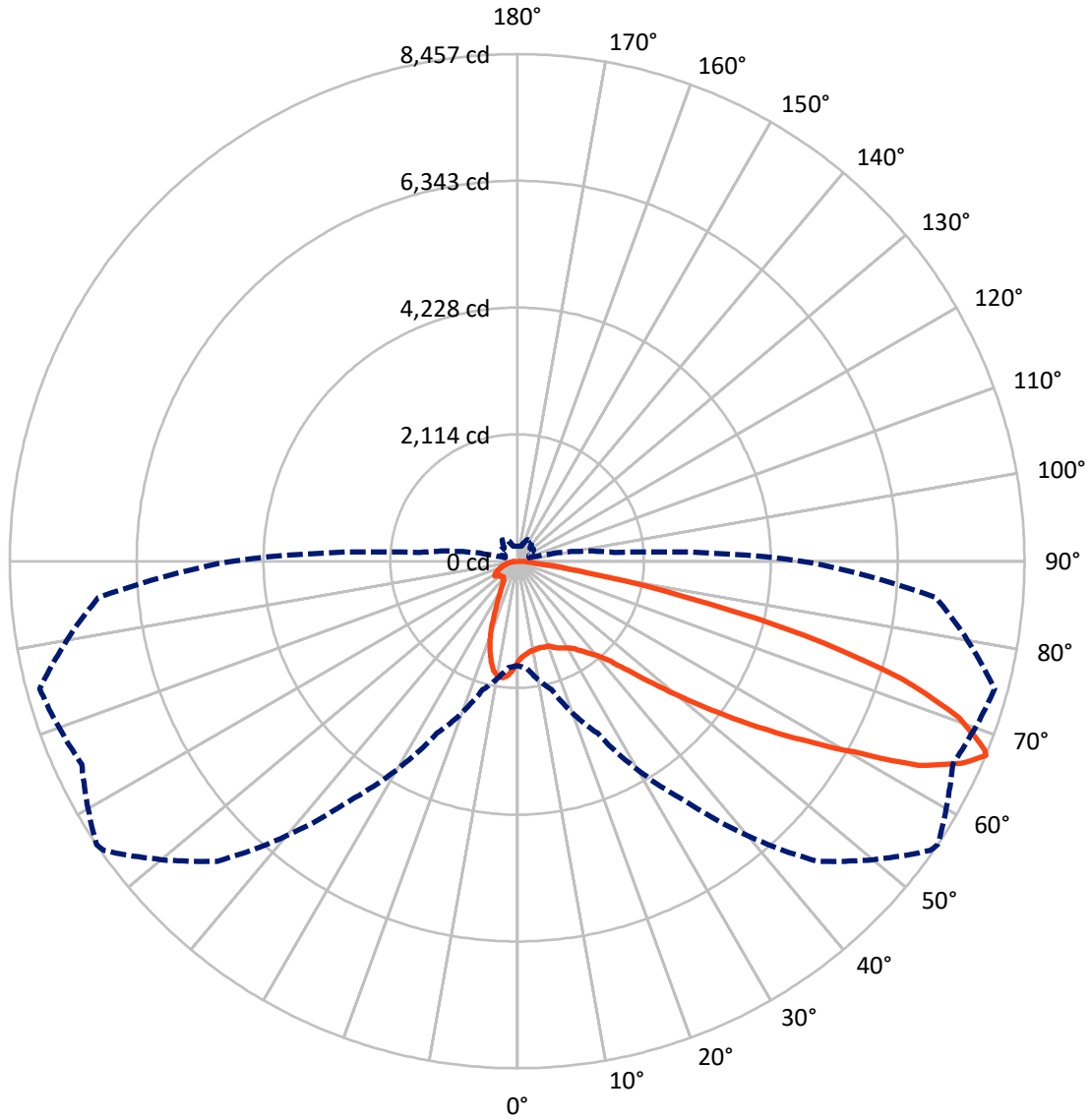
✕ Max cd
 - - - 1/2 Max cd



Based on 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 67-Deg Vertical

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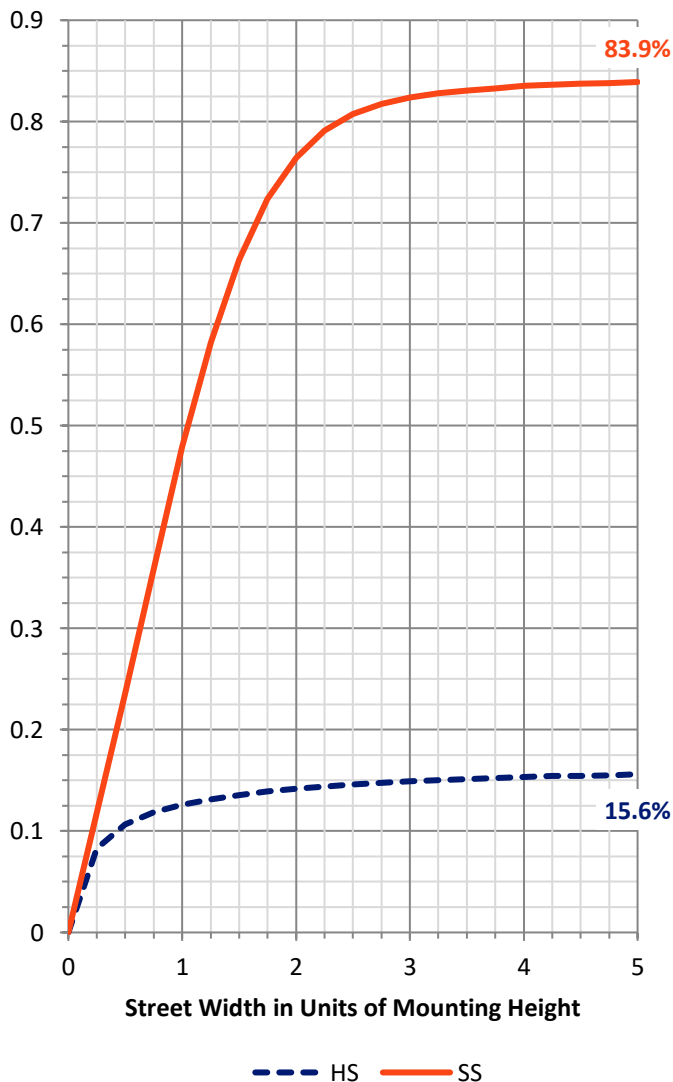
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1700.1	0.0	1700.1
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	9038.9	0.0	9038.9
	% Fixture	84.2	0.0	84.2
Total	Lumens	10739.0	0.0	10739.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.0	1.5
10°-20°	439.2	4.1
20°-30°	688.7	6.4
30°-40°	983.2	9.2
40°-50°	1483.9	13.8
50°-60°	2362.1	22.0
60°-70°	3019.8	28.1
70°-80°	1472.3	13.7
80°-90°	128.8	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°	10739.0	100.0
0°-180°	10739.0	100.0

Coefficient of Utilization

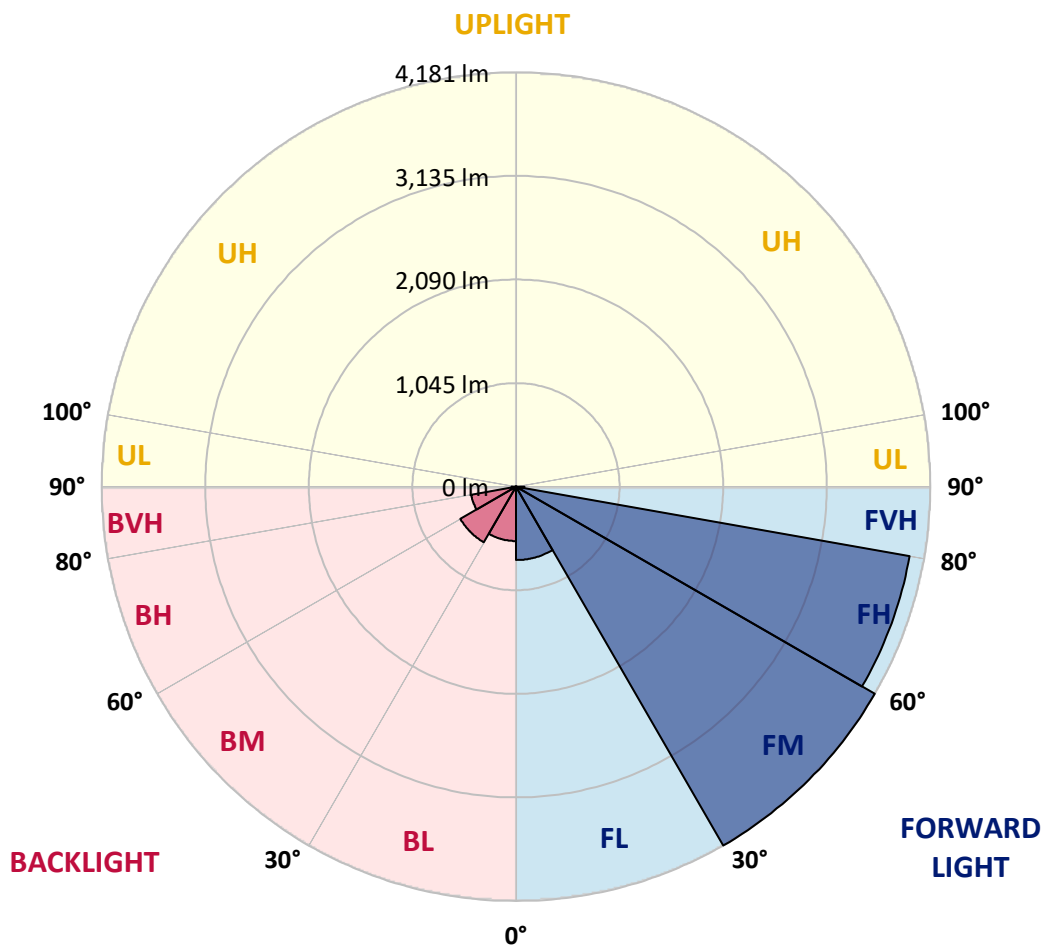


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	740.0	6.9			
FM (30°-60°)	4180.6	38.9			
FH (60°-80°)	4032.7	37.6			G2/5000
FVH (80°-90°)	85.5	0.8			G1/100
BL (0°-30°)	548.8	5.1	B2/1000		
BM (30°-60°)	648.6	6.0	B1/1000		
BH (60°-80°)	459.4	4.3	B1/500		G1/500
BVH (80°-90°)	43.3	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°	1671.0	1671.0	1671.0	1671.0	1671.0	1671.0	1671.0	1671.0	1671.0	1671.0
2.5°	1535.0	1528.7	1536.2	1528.7	1562.7	1582.8	1589.1	1597.9	1629.4	1659.6
5°	1470.7	1443.0	1473.3	1483.3	1485.9	1519.9	1555.1	1561.4	1577.8	1626.9
7.5°	1363.7	1395.2	1383.9	1414.1	1445.6	1479.6	1537.5	1521.1	1581.6	1628.1
10°	1341.0	1343.6	1356.2	1367.5	1395.2	1439.3	1519.9	1509.8	1571.5	1671.0
12.5°	1363.7	1363.7	1359.9	1351.1	1382.6	1425.4	1489.6	1494.7	1591.6	1683.5
15°	1443.0	1458.2	1417.9	1424.2	1411.6	1425.4	1482.1	1493.4	1599.2	1693.6
17.5°	1637.0	1631.9	1584.1	1517.3	1461.9	1453.1	1492.2	1504.7	1591.6	1722.6
20°	1825.8	1815.8	1732.7	1663.4	1553.9	1502.2	1508.5	1509.8	1604.2	1741.5
22.5°	2036.1	2062.6	1971.9	1830.9	1694.9	1566.4	1541.3	1561.4	1633.2	1751.5
25°	2366.0	2309.4	2231.3	2046.2	1827.1	1665.9	1595.4	1605.5	1660.9	1776.7
27.5°	2604.0	2581.4	2459.2	2309.4	2012.2	1744.0	1624.4	1643.3	1711.3	1775.5
30°	2833.2	2833.2	2758.9	2534.8	2207.4	1874.9	1686.1	1677.3	1687.3	1773.0
32.5°	3101.4	3064.9	2957.9	2809.3	2452.9	1994.6	1735.2	1737.7	1737.7	1819.5
35°	3242.4	3301.6	3229.8	2988.1	2640.5	2193.5	1853.5	1834.7	1820.8	1871.2
37.5°	3448.9	3484.2	3408.7	3266.4	2873.5	2354.7	1958.1	1942.9	1862.4	1911.5
40°	3573.6	3567.3	3564.8	3499.3	3182.0	2544.8	2111.7	2072.6	1964.4	2053.8
42.5°	3644.1	3631.5	3786.4	3746.1	3472.9	2824.4	2304.3	2282.9	2163.3	2306.9
45°	3723.5	3816.6	3943.8	4057.1	3811.6	3217.3	2630.5	2600.2	2493.2	2675.8
47.5°	3792.7	3907.3	4069.7	4190.6	4117.6	3644.1	3033.4	3041.0	2970.5	3158.1
50°	3908.6	3919.9	4140.2	4384.5	4441.2	4038.3	3574.9	3562.3	3530.8	3794.0
52.5°	3873.3	3907.3	4185.6	4497.9	4591.0	4455.0	4156.6	4194.4	4152.8	4484.0
55°	3299.1	3401.1	4157.9	4617.5	4946.1	4926.0	4904.6	4879.4	4876.9	5259.7
57.5°	3038.4	3121.6	3663.0	4749.7	5326.4	5475.0	5613.5	5641.2	5640.0	6102.1
60°	2867.2	2952.8	3462.8	4677.9	5650.0	6194.0	6459.7	6463.5	6455.9	7002.4
62.5°	2532.2	2615.4	3116.5	4285.1	5739.4	6857.6	7449.4	7498.5	7152.3	7778.1
65°	2129.3	2197.3	2639.3	3684.4	5501.4	7279.4	8193.6	8135.7	7739.0	8221.3
67°	1741.5	1786.8	2217.4	3163.1	4879.4	7076.7	8408.9	8456.8	8009.8	8240.2
67.5°	1630.7	1672.2	2078.9	2985.6	4642.7	6923.1	8416.5	8408.9	8014.8	8244.0
70°	1132.0	1149.6	1416.6	2053.8	3420.0	5849.0	7802.0	7819.6	7678.6	7797.0
72.5°	750.5	776.9	946.9	1294.5	2016.0	4256.1	6521.4	6710.3	6620.9	6393.0
75°	483.5	498.6	619.5	770.6	992.2	2424.0	4817.7	4943.6	4738.4	3953.9
77.5°	270.7	287.1	374.0	468.4	483.5	1008.6	2706.0	2862.2	2425.2	1679.8
80°	168.7	190.1	282.1	278.3	230.4	370.2	1115.7	1195.0	969.6	578.0
82.5°	127.2	143.5	217.8	195.2	129.7	165.0	418.1	448.3	355.1	222.9
85°	86.9	109.6	157.4	120.9	68.0	79.3	166.2	178.8	162.4	108.3
87.5°	31.5	46.6	81.8	60.4	30.2	23.9	54.1	60.4	57.9	49.1
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°
1671.0	0°	1671.0	1671.0	1671.0	1671.0	1671.0	1671.0	1671.0	1671.0	1671.0	1671.0
1686.1	2.5°	1710.0	1727.6	1736.4	1788.1	1809.5	1805.7	1810.7	1818.3	1825.8	1835.9
1707.5	5°	1723.8	1778.0	1807.0	1867.4	1907.7	1890.1	1912.7	1906.4	1897.6	1896.4
1746.5	7.5°	1769.2	1838.4	1925.3	1941.7	1959.3	1915.2	1877.5	1825.8	1813.2	1769.2
1779.2	10°	1849.8	1906.4	2012.2	2018.5	1940.4	1827.1	1742.7	1635.7	1634.4	1570.2
1829.6	12.5°	1926.6	1990.8	2076.4	2039.9	1853.5	1698.7	1561.4	1444.3	1395.2	1362.5
1859.8	15°	1974.4	2080.2	2125.5	1968.1	1701.2	1492.2	1314.6	1188.7	1138.3	1114.4
1897.6	17.5°	2018.5	2165.8	2145.7	1842.2	1513.6	1279.3	1067.8	958.3	944.4	926.8
1958.1	20°	2078.9	2197.3	2073.9	1678.5	1300.8	1004.8	870.1	817.2	829.8	837.4
1964.4	22.5°	2135.6	2213.7	1983.2	1499.7	1027.5	795.8	729.1	740.4	759.3	784.5
1979.5	25°	2160.8	2240.1	1861.1	1252.9	782.0	669.9	654.8	673.7	705.2	706.4
2000.9	27.5°	2177.2	2221.2	1713.8	1012.4	618.3	585.5	608.2	622.0	625.8	640.9
2046.2	30°	2206.1	2182.2	1527.4	724.0	518.8	520.0	549.0	549.0	549.0	560.3
2091.5	32.5°	2256.5	2155.7	1309.6	528.9	447.0	487.3	479.8	477.2	472.2	458.3
2149.5	35°	2288.0	2084.0	1033.8	391.6	401.7	447.0	444.5	405.5	340.0	307.2
2296.8	37.5°	2353.4	2047.5	760.6	302.2	375.2	426.9	413.0	318.6	246.8	215.3
2479.4	40°	2494.5	2023.5	526.3	264.4	357.6	416.8	368.9	272.0	188.9	133.5
2761.4	42.5°	2667.0	2024.8	357.6	249.3	358.9	438.2	355.1	233.0	133.5	107.0
3137.9	45°	2898.7	2005.9	245.5	249.3	381.5	473.5	363.9	211.5	129.7	136.0
3610.1	47.5°	3148.0	2022.3	182.6	226.7	385.3	474.7	332.4	207.8	124.7	157.4
4123.9	50°	3438.9	2038.6	151.1	209.0	386.6	459.6	306.0	202.7	129.7	166.2
4713.2	52.5°	3738.6	2090.3	128.4	197.7	401.7	453.3	306.0	210.3	129.7	144.8
5463.7	55°	4185.6	2222.5	185.1	246.8	457.1	494.9	376.5	294.7	181.3	186.4
6182.7	57.5°	4679.2	2358.5	206.5	259.4	469.7	445.8	405.5	324.9	191.4	192.7
6741.8	60°	5004.1	2363.5	205.2	253.1	439.5	385.3	396.6	342.5	195.2	165.0
7088.0	62.5°	5133.8	2209.9	214.1	253.1	409.2	360.1	406.7	368.9	201.5	206.5
7186.3	65°	4986.4	1892.6	206.5	226.7	360.1	322.4	409.2	374.0	220.4	207.8
7010.0	67°	4756.0	1630.7	210.3	215.3	334.9	306.0	430.6	392.9	255.6	249.3
6918.0	67.5°	4690.5	1561.4	209.0	209.0	326.1	300.9	435.7	392.9	260.7	258.1
6105.9	70°	4134.0	1265.5	214.1	206.5	288.4	285.8	463.4	414.3	299.7	302.2
4485.3	72.5°	3146.7	959.5	212.8	206.5	250.6	273.2	467.2	428.1	326.1	302.2
2512.1	75°	1788.1	574.2	187.6	180.1	197.7	238.0	436.9	408.0	317.3	270.7
1003.6	77.5°	739.1	295.9	172.5	162.4	163.7	193.9	363.9	380.3	302.2	230.4
334.9	80°	275.8	177.5	138.5	129.7	125.9	142.3	259.4	303.5	258.1	188.9
147.3	82.5°	143.5	110.8	94.4	94.4	85.6	90.7	139.8	201.5	195.2	129.7
59.2	85°	73.0	63.0	54.1	52.9	47.8	42.8	70.5	119.6	112.1	71.8
26.4	87.5°	39.0	35.3	22.7	21.4	17.6	11.3	12.6	23.9	39.0	31.5
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>
1671.0
1846.0
1907.7
1784.3
1567.7
1354.9
1109.4
935.6
828.6
770.6
719.0
654.8
572.9
450.8
322.4
214.1
129.7
104.5
138.5
175.0
192.7
148.6
196.4
186.4
170.0
209.0
204.0
245.5
253.1
279.5
268.2
241.8
217.8
172.5
102.0
59.2
22.7
0.0

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