

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: P477684

Luminaire Tested: **IFLD-S-SA2B-730-U-T3R**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P477684  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2B-730-U-T3R  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens  
Light Source: (32) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

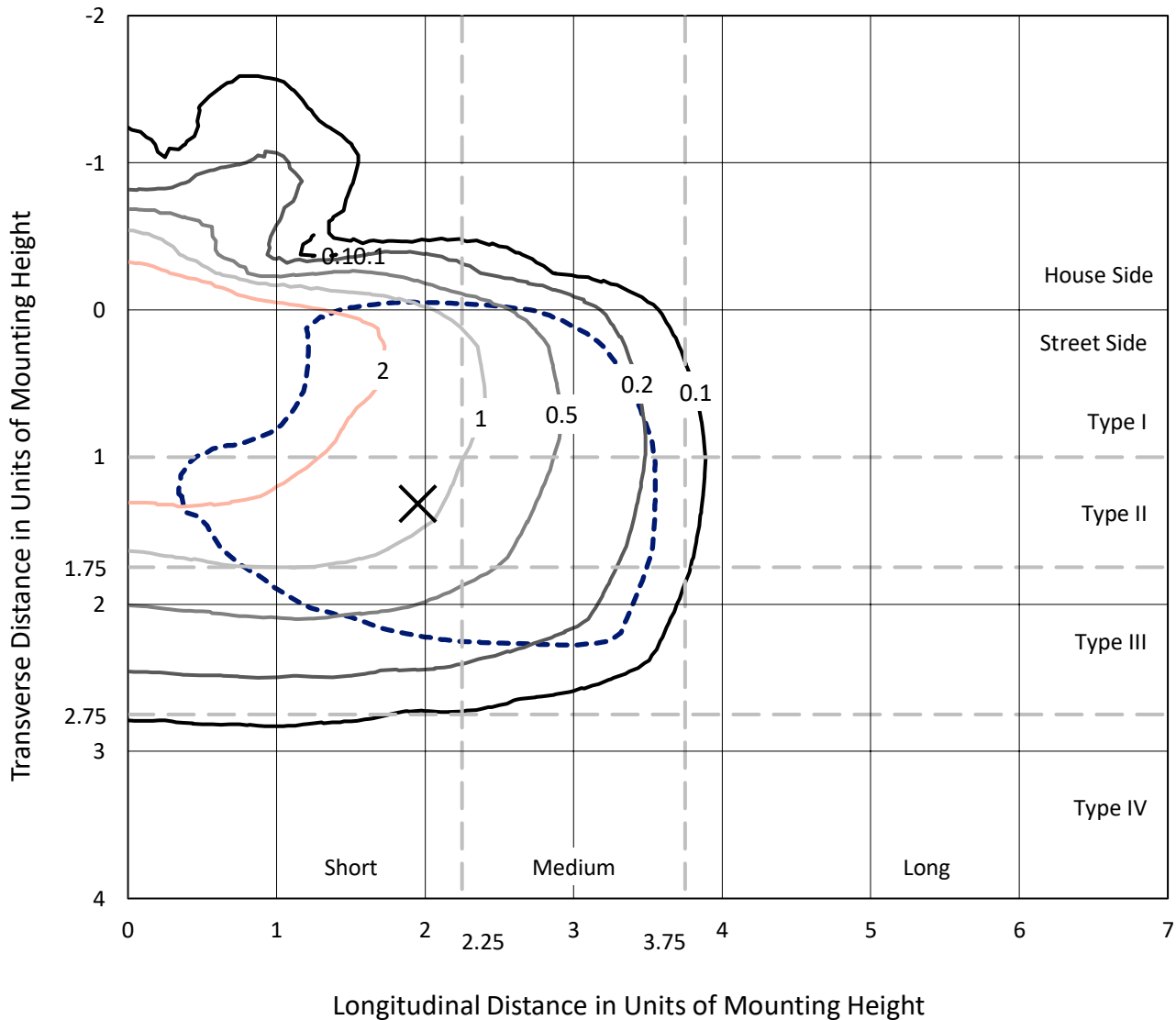
Lumens per Lamp: N/A  
Luminaire Lumens: 10213 lumens  
Efficiency: N/A  
Efficacy: 123.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2

Input Watts (W): 82.4  
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

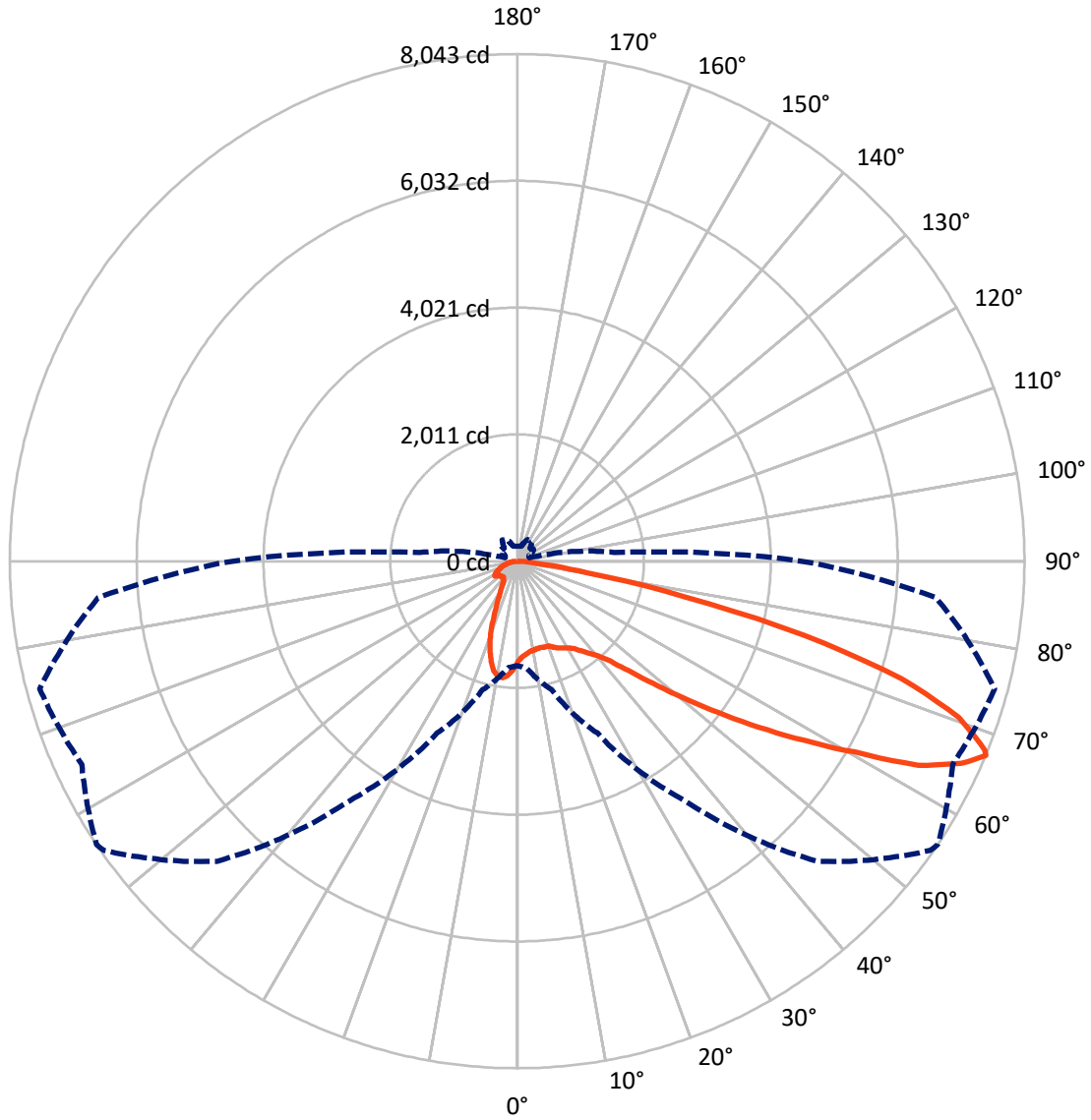
✕ Max cd  
 - - - 1/2 Max cd



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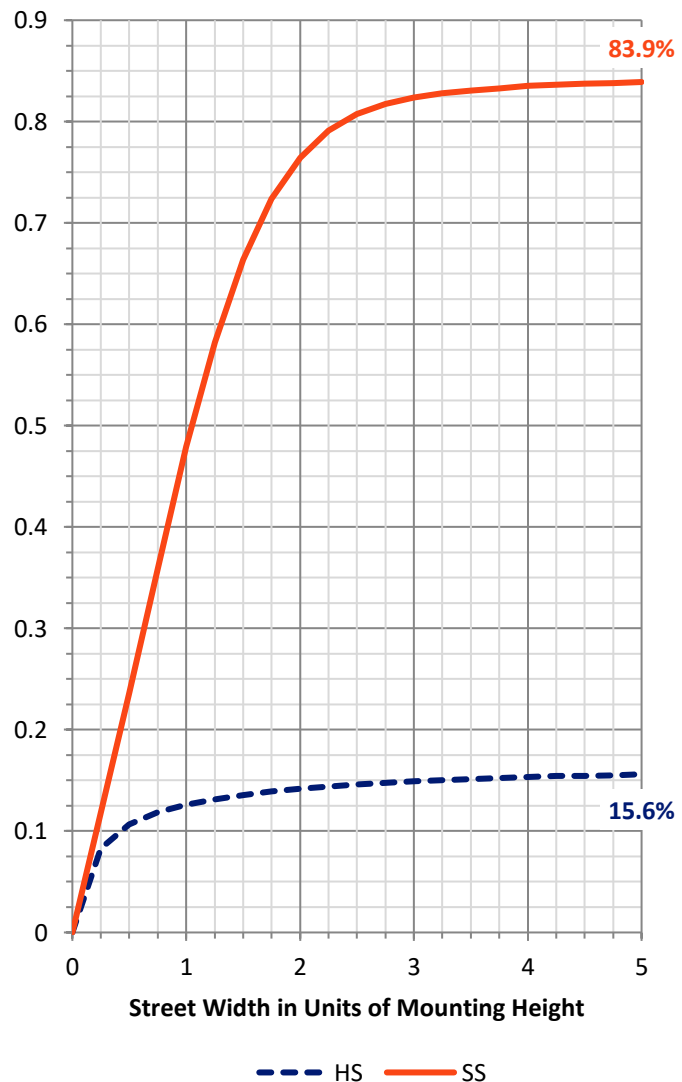
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1616.8	0.0	1616.8
	% Fixture	15.8	0.0	15.8
<b>Street Side</b>	Lumens	8596.1	0.0	8596.1
	% Fixture	84.2	0.0	84.2
<b>Total</b>	Lumens	10213.0	0.0	10213.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	153.1	1.5
10°-20°	417.7	4.1
20°-30°	655.0	6.4
30°-40°	935.0	9.2
40°-50°	1411.2	13.8
50°-60°	2246.4	22.0
60°-70°	2871.9	28.1
70°-80°	1400.2	13.7
80°-90°	122.5	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°	10213.0	100.0
0°-180°	10213.0	100.0

**Coefficient of Utilization**

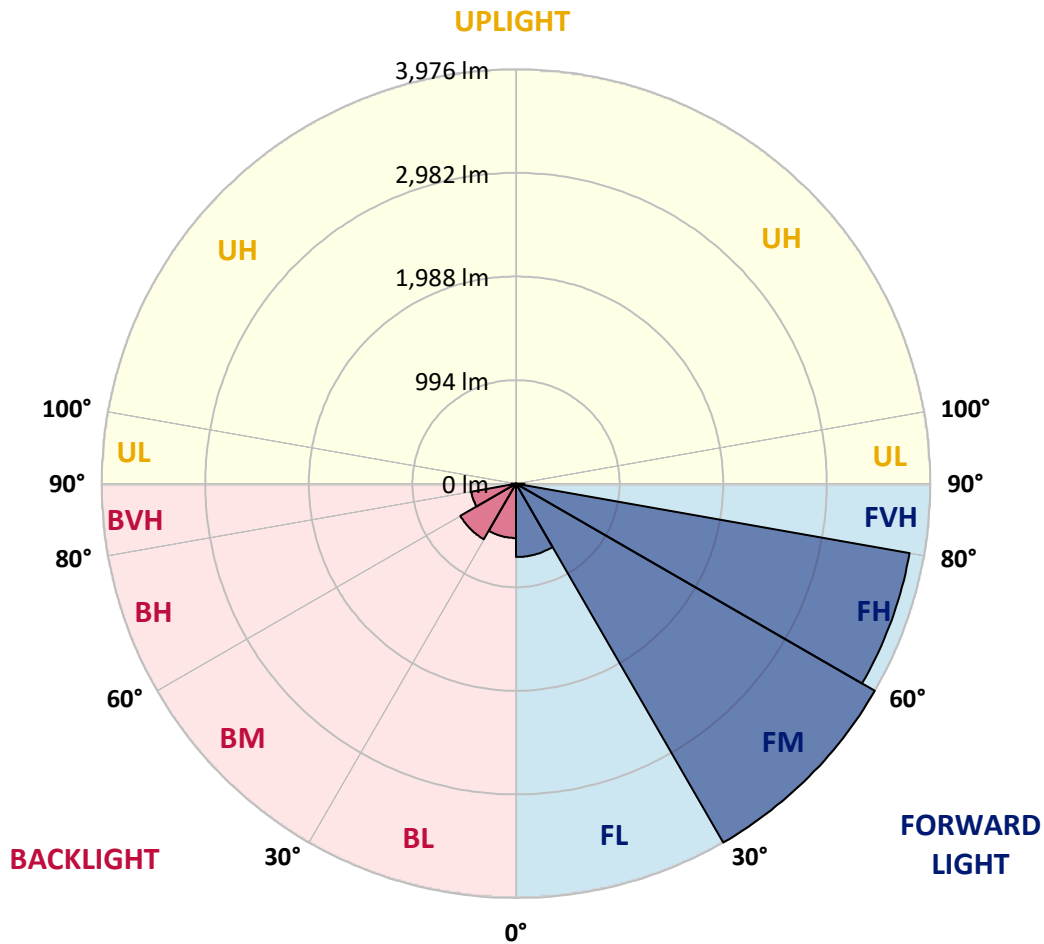


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	703.8	6.9			
FM (30°-60°)	3975.8	38.9			
FH (60°-80°)	3835.2	37.6			G2/5000
FVH (80°-90°)	81.3	0.8			G1/100
BL (0°-30°)	522.0	5.1	B2/1000		
BM (30°-60°)	616.8	6.0	B1/1000		
BH (60°-80°)	436.9	4.3	B1/500		G1/500
BVH (80°-90°)	41.1	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°	1589.1	1589.1	1589.1	1589.1	1589.1	1589.1	1589.1	1589.1	1589.1	1589.1
2.5°	1459.8	1453.8	1461.0	1453.8	1486.1	1505.3	1511.3	1519.7	1549.6	1578.3
5°	1398.7	1372.4	1401.1	1410.7	1413.1	1445.4	1478.9	1484.9	1500.5	1547.2
7.5°	1296.9	1326.9	1316.1	1344.8	1374.8	1407.1	1462.2	1446.6	1504.1	1548.4
10°	1275.4	1277.8	1289.7	1300.5	1326.9	1368.8	1445.4	1435.8	1494.5	1589.1
12.5°	1296.9	1296.9	1293.3	1284.9	1314.9	1355.6	1416.7	1421.5	1513.7	1601.1
15°	1372.4	1386.7	1348.4	1354.4	1342.4	1355.6	1409.5	1420.3	1520.9	1610.7
17.5°	1556.8	1552.0	1506.5	1443.0	1390.3	1381.9	1419.1	1431.0	1513.7	1638.2
20°	1736.4	1726.8	1647.8	1581.9	1477.7	1428.6	1434.6	1435.8	1525.6	1656.2
22.5°	1936.4	1961.5	1875.3	1741.2	1611.9	1489.7	1465.8	1484.9	1553.2	1665.8
25°	2250.1	2196.3	2122.0	1946.0	1737.6	1584.3	1517.3	1526.8	1579.5	1689.7
27.5°	2476.5	2454.9	2338.8	2196.3	1913.6	1658.6	1544.8	1562.8	1627.4	1688.5
30°	2694.4	2694.4	2623.8	2410.6	2099.3	1783.1	1603.5	1595.1	1604.7	1686.1
32.5°	2949.5	2914.8	2813.0	2671.7	2332.8	1896.9	1650.2	1652.6	1652.6	1730.4
35°	3083.6	3139.9	3071.6	2841.7	2511.2	2086.1	1762.8	1744.8	1731.6	1779.5
37.5°	3280.0	3313.5	3241.7	3106.4	2732.7	2239.4	1862.1	1847.8	1771.1	1817.8
40°	3398.6	3392.6	3390.2	3327.9	3026.1	2420.2	2008.2	1971.1	1868.1	1953.2
42.5°	3465.6	3453.6	3600.9	3562.6	3302.8	2686.0	2191.5	2171.1	2057.3	2193.9
45°	3541.1	3629.7	3750.6	3858.4	3624.9	3059.7	2501.6	2472.9	2371.1	2544.7
47.5°	3606.9	3715.9	3870.4	3985.3	3915.9	3465.6	2884.8	2892.0	2825.0	3003.4
50°	3717.1	3727.9	3937.4	4169.8	4223.7	3840.4	3399.8	3387.8	3357.8	3608.1
52.5°	3683.6	3715.9	3980.6	4277.5	4366.2	4236.8	3953.0	3988.9	3949.4	4264.4
55°	3137.5	3234.5	3954.2	4391.3	4703.9	4684.7	4664.3	4640.4	4638.0	5002.0
57.5°	2889.6	2968.7	3483.6	4517.0	5065.5	5206.8	5338.5	5364.9	5363.7	5803.2
60°	2726.8	2808.2	3293.2	4448.8	5373.3	5890.6	6143.3	6146.9	6139.7	6659.4
62.5°	2408.2	2487.3	2963.9	4075.2	5458.3	6521.7	7084.5	7131.2	6801.9	7397.1
65°	2025.0	2089.7	2510.0	3503.9	5232.0	6922.9	7792.3	7737.2	7360.0	7818.6
67°	1656.2	1699.3	2108.8	3008.2	4640.4	6730.1	7997.0	8042.5	7617.4	7836.6
67.5°	1550.8	1590.3	1977.1	2839.3	4415.3	6584.0	8004.2	7997.0	7622.2	7840.2
70°	1076.6	1093.3	1347.2	1953.2	3252.5	5562.5	7419.8	7436.6	7302.5	7415.0
72.5°	713.7	738.9	900.5	1231.1	1917.2	4047.6	6202.0	6381.6	6296.6	6079.8
75°	459.8	474.2	589.2	732.9	943.6	2305.2	4581.7	4701.5	4506.3	3760.2
77.5°	257.5	273.0	355.7	445.5	459.8	959.2	2573.5	2722.0	2306.4	1597.5
80°	160.5	180.8	268.2	264.7	219.1	352.1	1061.0	1136.4	922.1	549.7
82.5°	120.9	136.5	207.2	185.6	123.3	156.9	397.6	426.3	337.7	212.0
85°	82.6	104.2	149.7	115.0	64.7	75.4	158.1	170.0	154.5	103.0
87.5°	29.9	44.3	77.8	57.5	28.7	22.8	51.5	57.5	55.1	46.7
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°
1589.1	0°	1589.1	1589.1	1589.1	1589.1	1589.1	1589.1	1589.1	1589.1	1589.1	1589.1
1603.5	2.5°	1626.2	1643.0	1651.4	1700.5	1720.8	1717.2	1722.0	1729.2	1736.4	1746.0
1623.8	5°	1639.4	1690.9	1718.4	1775.9	1814.2	1797.5	1819.0	1813.0	1804.7	1803.5
1661.0	7.5°	1682.5	1748.4	1831.0	1846.6	1863.3	1821.4	1785.5	1736.4	1724.4	1682.5
1692.1	10°	1759.2	1813.0	1913.6	1919.6	1845.4	1737.6	1657.4	1555.6	1554.4	1493.3
1740.0	12.5°	1832.2	1893.3	1974.7	1940.0	1762.8	1615.5	1484.9	1373.6	1326.9	1295.7
1768.7	15°	1877.7	1978.3	2021.4	1871.7	1617.9	1419.1	1250.2	1130.5	1082.6	1059.8
1804.7	17.5°	1919.6	2059.7	2040.6	1752.0	1439.4	1216.7	1015.5	911.3	898.1	881.4
1862.1	20°	1977.1	2089.7	1972.3	1596.3	1237.0	955.6	827.5	777.2	789.2	796.4
1868.1	22.5°	2031.0	2105.2	1886.1	1426.2	977.2	756.8	693.4	704.1	722.1	746.1
1882.5	25°	2054.9	2130.4	1769.9	1191.5	743.7	637.1	622.7	640.7	670.6	671.8
1902.9	27.5°	2070.5	2112.4	1629.8	962.8	588.0	556.8	578.4	591.6	595.2	609.5
1946.0	30°	2098.1	2075.3	1452.6	688.6	493.4	494.6	522.1	522.1	522.1	532.9
1989.1	32.5°	2146.0	2050.2	1245.4	503.0	425.1	463.4	456.3	453.9	449.1	435.9
2044.2	35°	2175.9	1981.9	983.2	372.4	382.0	425.1	422.7	385.6	323.3	292.2
2184.3	37.5°	2238.2	1947.2	723.3	287.4	356.9	406.0	392.8	303.0	234.7	204.8
2357.9	40°	2372.3	1924.4	500.6	251.5	340.1	396.4	350.9	258.7	179.6	126.9
2626.2	42.5°	2536.3	1925.6	340.1	237.1	341.3	416.7	337.7	221.5	126.9	101.8
2984.2	45°	2756.7	1907.7	233.5	237.1	362.8	450.3	346.1	201.2	123.3	129.3
3433.3	47.5°	2993.8	1923.2	173.6	215.6	366.4	451.5	316.1	197.6	118.6	149.7
3921.9	50°	3270.4	1938.8	143.7	198.8	367.6	437.1	291.0	192.8	123.3	158.1
4482.3	52.5°	3555.4	1987.9	122.1	188.0	382.0	431.1	291.0	200.0	123.3	137.7
5196.0	55°	3980.6	2113.6	176.0	234.7	434.7	470.6	358.1	280.2	172.4	177.2
5879.8	57.5°	4450.0	2243.0	196.4	246.7	446.7	423.9	385.6	309.0	182.0	183.2
6411.5	60°	4758.9	2247.7	195.2	240.7	417.9	366.4	377.2	325.7	185.6	156.9
6740.8	62.5°	4882.3	2101.6	203.6	240.7	389.2	342.5	386.8	350.9	191.6	196.4
6834.2	65°	4742.2	1799.9	196.4	215.6	342.5	306.6	389.2	355.7	209.6	197.6
6666.6	67°	4523.0	1550.8	200.0	204.8	318.5	291.0	409.6	373.6	243.1	237.1
6579.2	67.5°	4460.8	1484.9	198.8	198.8	310.2	286.2	414.3	373.6	247.9	245.5
5806.8	70°	3931.5	1203.5	203.6	196.4	274.2	271.8	440.7	394.0	285.0	287.4
4265.6	72.5°	2992.6	912.5	202.4	196.4	238.3	259.9	444.3	407.2	310.2	287.4
2389.1	75°	1700.5	546.1	178.4	171.2	188.0	226.3	415.5	388.0	301.8	257.5
954.4	77.5°	702.9	281.4	164.1	154.5	155.7	184.4	346.1	361.7	287.4	219.1
318.5	80°	262.3	168.9	131.7	123.3	119.8	135.3	246.7	288.6	245.5	179.6
140.1	82.5°	136.5	105.4	89.8	89.8	81.4	86.2	132.9	191.6	185.6	123.3
56.3	85°	69.5	59.9	51.5	50.3	45.5	40.7	67.1	113.8	106.6	68.3
25.1	87.5°	37.1	33.5	21.6	20.4	16.8	10.8	12.0	22.8	37.1	29.9
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>
1589.1
1755.6
1814.2
1696.9
1490.9
1288.5
1055.0
889.8
788.0
732.9
683.8
622.7
544.9
428.7
306.6
203.6
123.3
99.4
131.7
166.5
183.2
141.3
186.8
177.2
161.7
198.8
194.0
233.5
240.7
265.8
255.1
229.9
207.2
164.1
97.0
56.3
21.6
0.0

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