

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: P477801

Luminaire Tested: **IFLD-S-SA2B-750-U-T3R**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P477801  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2B-750-U-T3R  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens  
Light Source: (32) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

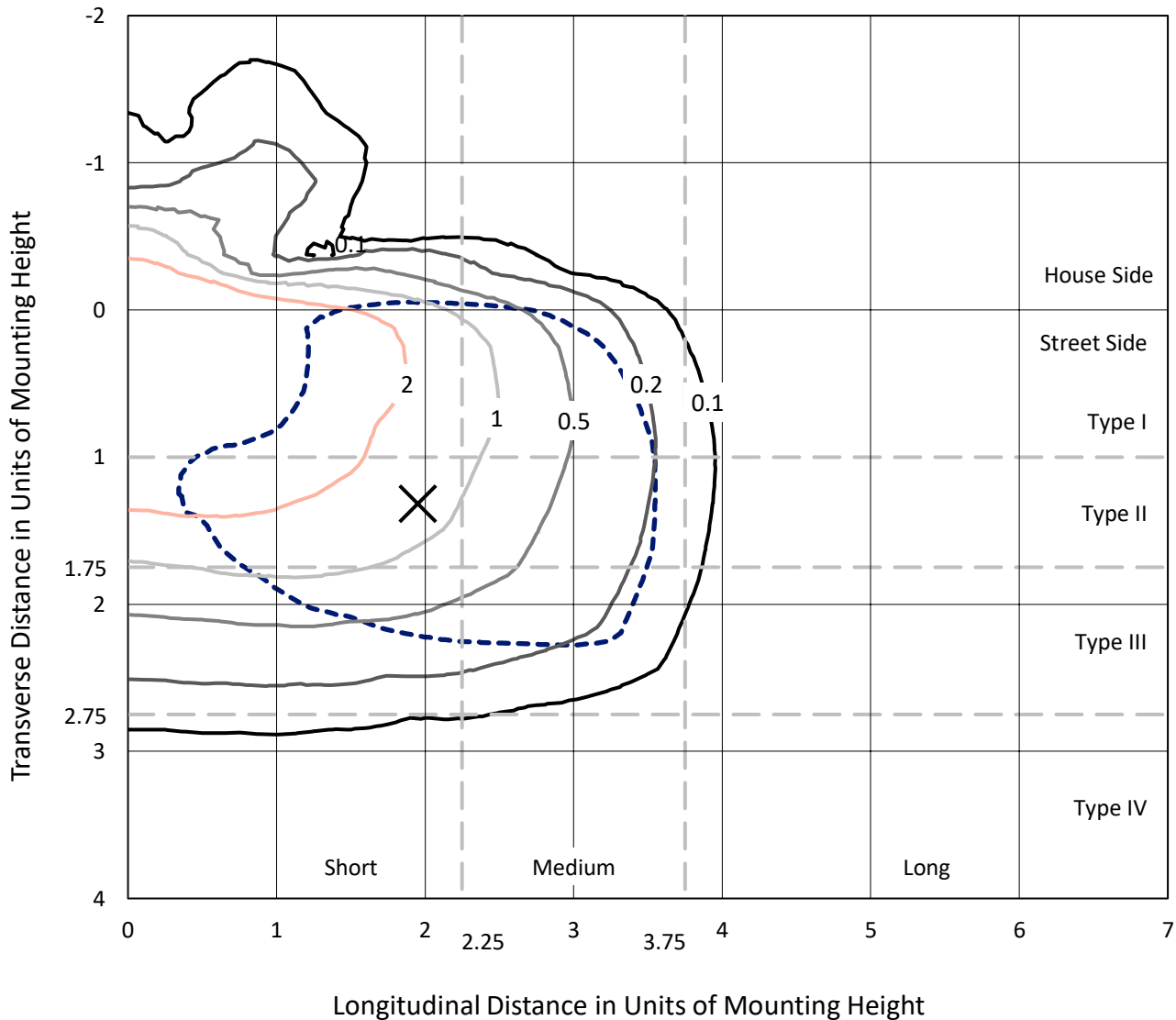
Lumens per Lamp: N/A  
Luminaire Lumens: 11472.5 lumens  
Efficiency: N/A  
Efficacy: 139.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2

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

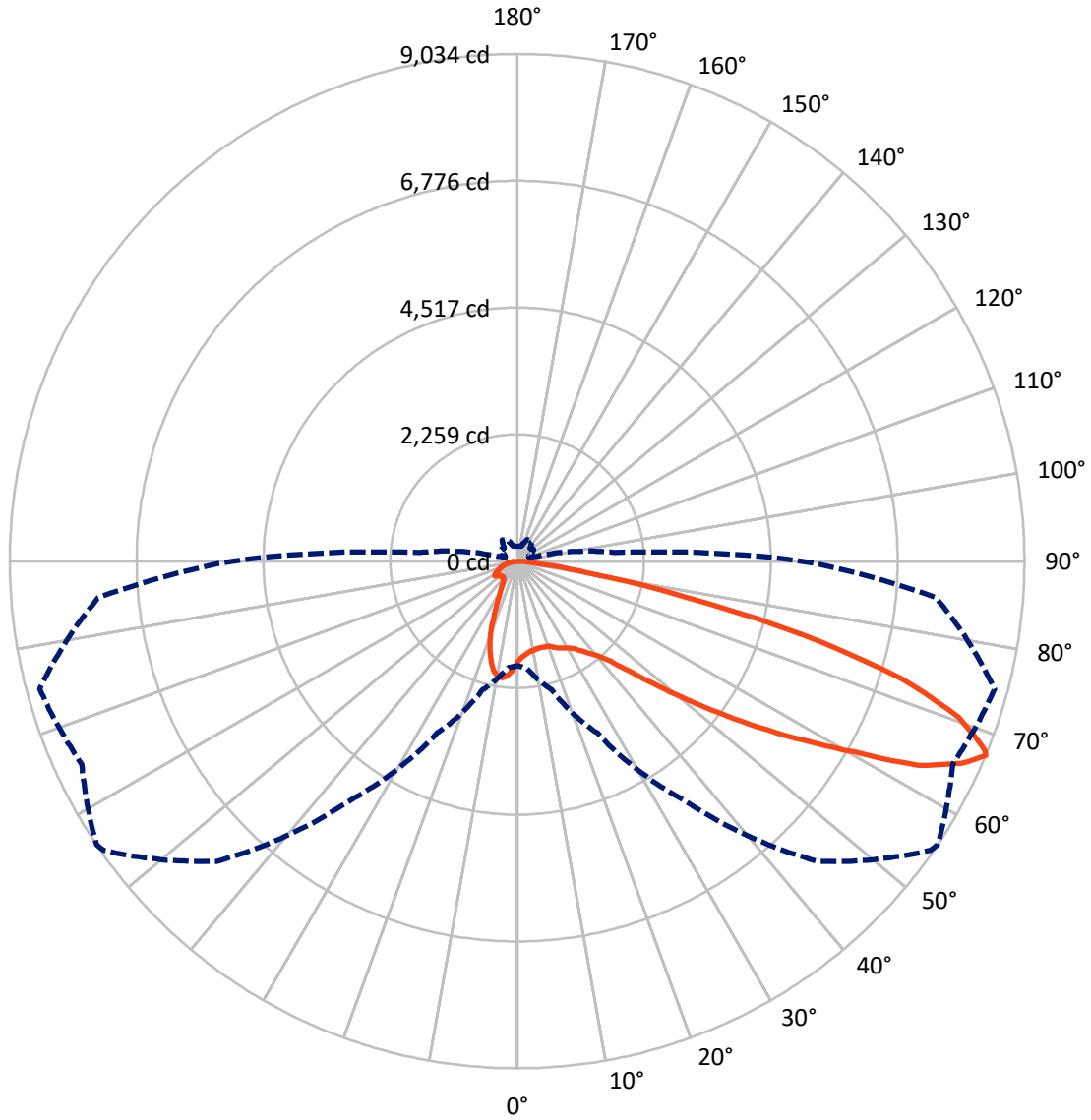
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5 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	1816.2	0.0	1816.2
	% Fixture	15.8	0.0	15.8
<b>Street Side</b>	Lumens	9656.3	0.0	9656.3
	% Fixture	84.2	0.0	84.2
<b>Total</b>	Lumens	11472.5	0.0	11472.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	172.0	1.5
10°-20°	469.2	4.1
20°-30°	735.8	6.4
30°-40°	1050.3	9.2
40°-50°	1585.3	13.8
50°-60°	2523.5	22.0
60°-70°	3226.0	28.1
70°-80°	1572.9	13.7
80°-90°	137.6	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°	11472.5	100.0
0°-180°	11472.5	100.0

**Coefficient of Utilization**

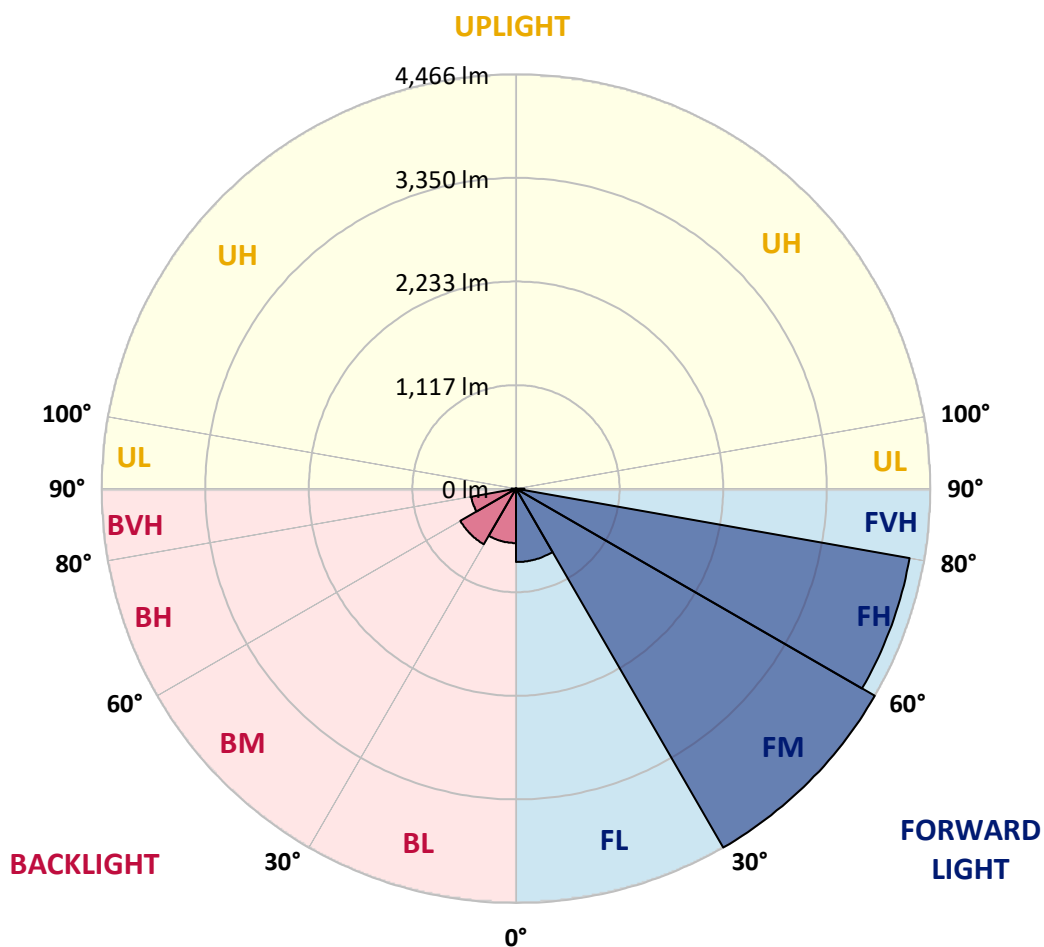


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	790.6	6.9			
FM (30°-60°)	4466.1	38.9			
FH (60°-80°)	4308.2	37.6			G2/5000
FVH (80°-90°)	91.4	0.8			G1/100
BL (0°-30°)	586.3	5.1	B2/1000		
BM (30°-60°)	692.9	6.0	B1/1000		
BH (60°-80°)	490.8	4.3	B1/500		G1/500
BVH (80°-90°)	46.2	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°	1785.1	1785.1	1785.1	1785.1	1785.1	1785.1	1785.1	1785.1	1785.1	1785.1
2.5°	1639.8	1633.1	1641.2	1633.1	1669.4	1690.9	1697.6	1707.1	1740.7	1773.0
5°	1571.2	1541.6	1573.9	1584.7	1587.3	1623.7	1661.3	1668.1	1685.5	1738.0
7.5°	1456.9	1490.5	1478.4	1510.7	1544.3	1580.6	1642.5	1625.0	1689.6	1739.4
10°	1432.6	1435.3	1448.8	1460.9	1490.5	1537.6	1623.7	1612.9	1678.8	1785.1
12.5°	1456.9	1456.9	1452.8	1443.4	1477.0	1522.8	1591.4	1596.8	1700.3	1798.5
15°	1541.6	1557.7	1514.7	1521.4	1508.0	1522.8	1583.3	1595.4	1708.4	1809.3
17.5°	1748.8	1743.4	1692.3	1621.0	1561.8	1552.4	1594.1	1607.5	1700.3	1840.2
20°	1950.5	1939.8	1851.0	1777.0	1660.0	1604.8	1611.6	1612.9	1713.8	1860.4
22.5°	2175.2	2203.4	2106.6	1955.9	1810.6	1673.4	1646.5	1668.1	1744.7	1871.2
25°	2527.6	2467.1	2383.7	2186.0	1951.9	1779.7	1704.4	1715.1	1774.3	1898.1
27.5°	2781.9	2757.7	2627.2	2467.1	2149.6	1863.1	1735.3	1755.5	1828.1	1896.7
30°	3026.7	3026.7	2947.3	2707.9	2358.1	2003.0	1801.2	1791.8	1802.6	1894.0
32.5°	3313.2	3274.2	3159.9	3001.2	2620.5	2130.8	1853.7	1856.4	1856.4	1943.8
35°	3463.9	3527.1	3450.5	3192.2	2820.9	2343.3	1980.1	1960.0	1945.2	1999.0
37.5°	3684.5	3722.2	3641.5	3489.5	3069.8	2515.5	2091.8	2075.7	1989.6	2042.0
40°	3817.7	3811.0	3808.3	3738.3	3399.3	2718.7	2255.9	2214.2	2098.5	2194.0
42.5°	3893.0	3879.6	4045.0	4002.0	3710.1	3017.3	2461.7	2438.9	2311.1	2464.4
45°	3977.8	4077.3	4213.2	4334.3	4071.9	3437.0	2810.1	2777.8	2663.5	2858.6
47.5°	4051.8	4174.2	4347.7	4476.8	4398.8	3893.0	3240.6	3248.7	3173.3	3373.8
50°	4175.5	4187.6	4423.0	4684.0	4744.5	4314.1	3819.0	3805.6	3772.0	4053.1
52.5°	4137.9	4174.2	4471.5	4805.1	4904.6	4759.3	4440.5	4480.9	4436.5	4790.3
55°	3524.4	3633.4	4441.9	4932.9	5284.0	5262.4	5239.6	5212.7	5210.0	5618.9
57.5°	3246.0	3334.8	3913.2	5074.1	5690.2	5849.0	5996.9	6026.5	6025.2	6518.9
60°	3063.0	3154.5	3699.3	4997.4	6035.9	6617.1	6900.9	6904.9	6896.9	7480.7
62.5°	2705.2	2794.0	3329.4	4577.7	6131.4	7326.0	7958.2	8010.7	7640.8	8309.3
65°	2274.7	2347.4	2819.5	3936.1	5877.2	7776.6	8753.2	8691.4	8267.6	8782.8
67°	1860.4	1908.8	2368.9	3379.2	5212.7	7560.1	8983.3	9034.4	8556.8	8803.0
67.5°	1742.0	1786.4	2220.9	3189.5	4959.8	7395.9	8991.4	8983.3	8562.2	8807.1
70°	1209.3	1228.2	1513.4	2194.0	3653.6	6248.5	8334.9	8353.7	8203.1	8329.5
72.5°	801.7	830.0	1011.6	1382.9	2153.7	4546.8	6966.8	7168.6	7073.1	6829.6
75°	516.6	532.7	661.8	823.3	1060.0	2589.5	5146.8	5281.3	5062.0	4223.9
77.5°	289.2	306.7	399.5	500.4	516.6	1077.5	2890.8	3057.7	2590.9	1794.5
80°	180.3	203.1	301.3	297.3	246.2	395.5	1191.9	1276.6	1035.8	617.4
82.5°	135.9	153.4	232.7	208.5	138.6	176.2	446.6	478.9	379.3	238.1
85°	92.8	117.0	168.2	129.1	72.6	84.7	177.6	191.0	173.5	115.7
87.5°	33.6	49.8	87.4	64.6	32.3	25.6	57.8	64.6	61.9	52.5
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°
1785.1	0°	1785.1	1785.1	1785.1	1785.1	1785.1	1785.1	1785.1	1785.1	1785.1	1785.1
1801.2	2.5°	1826.8	1845.6	1855.0	1910.2	1933.1	1929.0	1934.4	1942.5	1950.5	1961.3
1824.1	5°	1841.6	1899.4	1930.4	1994.9	2038.0	2019.2	2043.4	2036.6	2027.2	2025.9
1865.8	7.5°	1890.0	1964.0	2056.8	2074.3	2093.1	2046.1	2005.7	1950.5	1937.1	1890.0
1900.8	10°	1976.1	2036.6	2149.6	2156.4	2073.0	1951.9	1861.8	1747.4	1746.1	1677.5
1954.6	12.5°	2058.2	2126.8	2218.2	2179.2	1980.1	1814.7	1668.1	1543.0	1490.5	1455.5
1986.9	15°	2109.3	2222.3	2270.7	2102.6	1817.4	1594.1	1404.4	1269.9	1216.1	1190.5
2027.2	17.5°	2156.4	2313.8	2292.2	1968.0	1616.9	1366.7	1140.7	1023.7	1008.9	990.1
2091.8	20°	2220.9	2347.4	2215.6	1793.2	1389.6	1073.5	929.5	873.0	886.5	894.6
2098.5	22.5°	2281.5	2364.9	2118.7	1602.1	1097.7	850.2	778.9	791.0	811.2	838.1
2114.7	25°	2308.4	2393.1	1988.2	1338.5	835.4	715.6	699.5	719.7	753.3	754.7
2137.5	27.5°	2325.9	2372.9	1830.8	1081.5	660.5	625.5	649.7	664.5	668.6	684.7
2186.0	30°	2356.8	2331.2	1631.7	773.5	554.2	555.6	586.5	586.5	586.5	598.6
2234.4	32.5°	2410.6	2303.0	1399.0	565.0	477.5	520.6	512.5	509.8	504.5	489.7
2296.3	35°	2444.2	2226.3	1104.4	418.4	429.1	477.5	474.9	433.2	363.2	328.2
2453.7	37.5°	2514.2	2187.3	812.5	322.8	400.9	456.0	441.2	340.3	263.7	230.0
2648.7	40°	2664.9	2161.7	562.3	282.5	382.0	445.3	394.1	290.6	201.8	142.6
2950.0	42.5°	2849.1	2163.1	382.0	266.4	383.4	468.1	379.3	248.9	142.6	114.3
3352.3	45°	3096.7	2142.9	262.3	266.4	407.6	505.8	388.8	226.0	138.6	145.3
3856.7	47.5°	3363.0	2160.4	195.1	242.1	411.6	507.1	355.1	222.0	133.2	168.2
4405.5	50°	3673.8	2177.9	161.4	223.3	413.0	491.0	326.9	216.6	138.6	177.6
5035.1	52.5°	3993.9	2233.0	137.2	211.2	429.1	484.3	326.9	224.6	138.6	154.7
5836.8	55°	4471.5	2374.3	197.7	263.7	488.3	528.7	402.2	314.8	193.7	199.1
6605.0	57.5°	4998.8	2519.6	220.6	277.1	501.8	476.2	433.2	347.1	204.5	205.8
7202.2	60°	5345.8	2524.9	219.3	270.4	469.5	411.6	423.7	365.9	208.5	176.2
7572.2	62.5°	5484.4	2360.8	228.7	270.4	437.2	384.7	434.5	394.1	215.2	220.6
7677.1	65°	5327.0	2021.8	220.6	242.1	384.7	344.4	437.2	399.5	235.4	222.0
7488.8	67°	5080.8	1742.0	224.6	230.0	357.8	326.9	460.1	419.7	273.1	266.4
7390.6	67.5°	5010.9	1668.1	223.3	223.3	348.4	321.5	465.4	419.7	278.5	275.8
6522.9	70°	4416.3	1351.9	228.7	220.6	308.1	305.4	495.0	442.6	320.2	322.8
4791.6	72.5°	3361.7	1025.0	227.3	220.6	267.7	291.9	499.1	457.4	348.4	322.8
2683.7	75°	1910.2	613.4	200.4	192.4	211.2	254.2	466.8	435.8	339.0	289.2
1072.1	77.5°	789.6	316.1	184.3	173.5	174.9	207.2	388.8	406.3	322.8	246.2
357.8	80°	294.6	189.7	148.0	138.6	134.5	152.0	277.1	324.2	275.8	201.8
157.4	82.5°	153.4	118.4	100.9	100.9	91.5	96.9	149.3	215.2	208.5	138.6
63.2	85°	78.0	67.3	57.8	56.5	51.1	45.7	75.3	127.8	119.7	76.7
28.2	87.5°	41.7	37.7	24.2	22.9	18.8	12.1	13.5	25.6	41.7	33.6
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>
1785.1
1972.1
2038.0
1906.2
1674.8
1447.4
1185.1
999.5
885.1
823.3
768.1
699.5
612.1
481.6
344.4
228.7
138.6
111.7
148.0
187.0
205.8
158.7
209.9
199.1
181.6
223.3
217.9
262.3
270.4
298.6
286.5
258.3
232.7
184.3
109.0
63.2
24.2
0.0

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