

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: P477724

Luminaire Tested: **IFLD-S-SA2C-735-U-T3R**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P477724  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2C-735-U-T3R  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens  
Light Source: (32) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

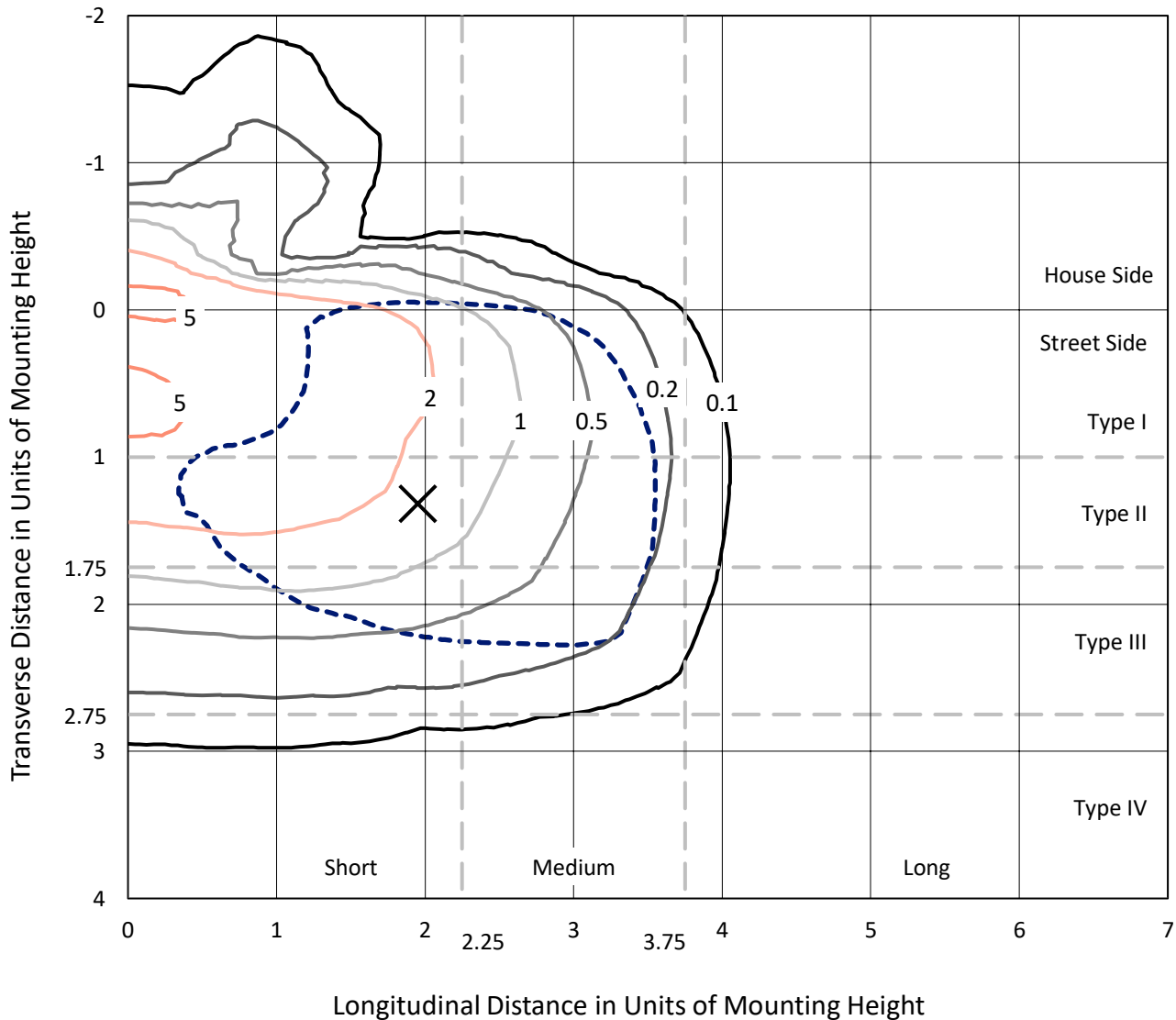
Lumens per Lamp: N/A  
Luminaire Lumens: 13770.5 lumens  
Efficiency: N/A  
Efficacy: 127.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3

Input Watts (W): 108.2  
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

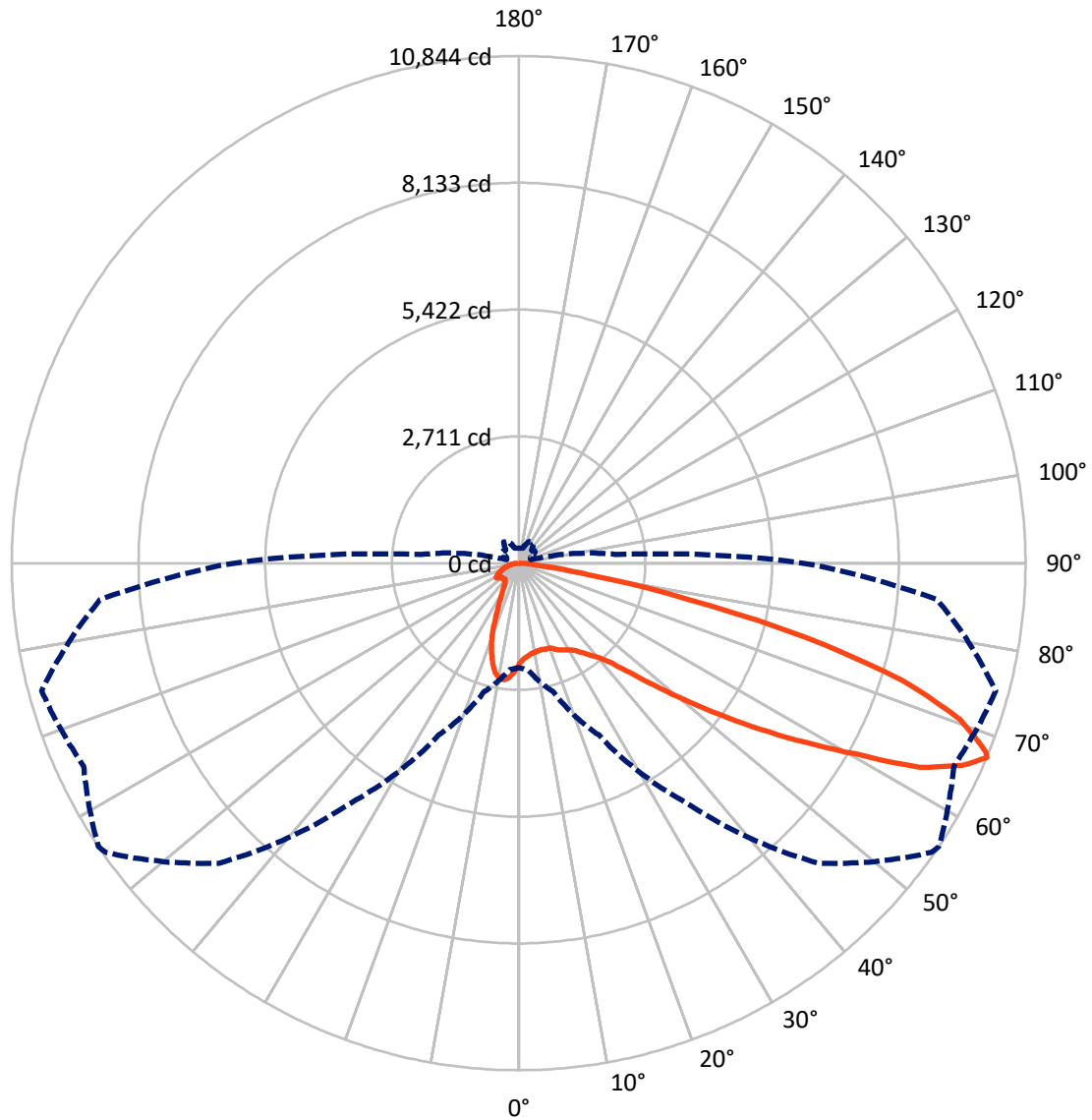
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 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
<b>House Side</b>	Lumens	2180.0	0.0	2180.0
	% Fixture	15.8	0.0	15.8
<b>Street Side</b>	Lumens	11590.5	0.0	11590.5
	% Fixture	84.2	0.0	84.2
<b>Total</b>	Lumens	13770.5	0.0	13770.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	206.4	1.5
10°-20°	563.1	4.1
20°-30°	883.2	6.4
30°-40°	1260.7	9.2
40°-50°	1902.8	13.8
50°-60°	3028.9	22.0
60°-70°	3872.2	28.1
70°-80°	1888.0	13.7
80°-90°	165.2	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°	13770.5	100.0
0°-180°	13770.5	100.0

**Coefficient of Utilization**

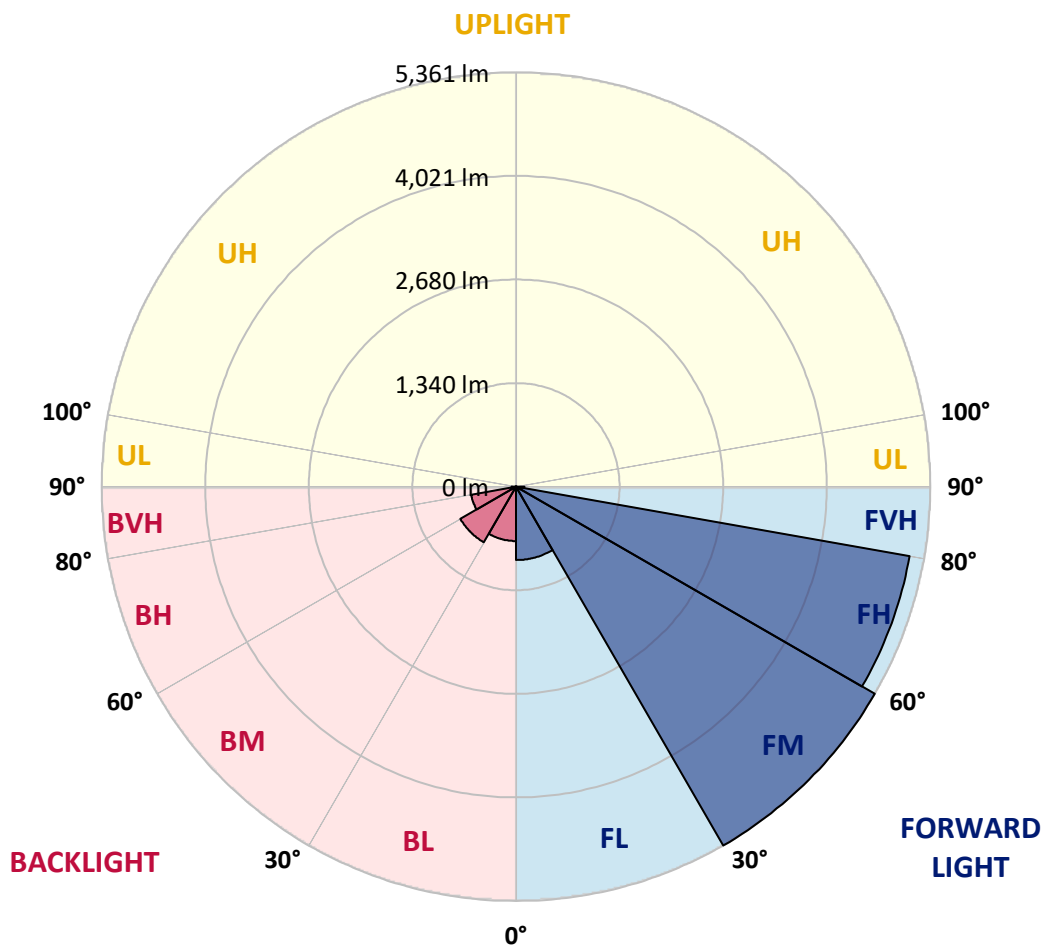


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	948.9	6.9			
FM (30°-60°)	5360.7	38.9			
FH (60°-80°)	5171.1	37.6			G3/7500
FVH (80°-90°)	109.7	0.8			G2/225
BL (0°-30°)	703.8	5.1	B2/1000		
BM (30°-60°)	831.7	6.0	B1/1000		
BH (60°-80°)	589.1	4.3	B2/1000		G2/1000
BVH (80°-90°)	55.5	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	2142.7	2142.7	2142.7	2142.7	2142.7	2142.7	2142.7	2142.7	2142.7	2142.7
2.5°	1968.3	1960.2	1969.9	1960.2	2003.8	2029.6	2037.7	2049.0	2089.4	2128.1
5°	1885.9	1850.4	1889.2	1902.1	1905.3	1948.9	1994.1	2002.2	2023.2	2086.1
7.5°	1748.7	1789.0	1774.5	1813.3	1853.6	1897.2	1971.5	1950.5	2028.0	2087.8
10°	1719.6	1722.8	1739.0	1753.5	1789.0	1845.6	1948.9	1936.0	2015.1	2142.7
12.5°	1748.7	1748.7	1743.8	1732.5	1772.9	1827.8	1910.1	1916.6	2040.9	2158.8
15°	1850.4	1869.8	1818.1	1826.2	1810.0	1827.8	1900.5	1915.0	2050.6	2171.7
17.5°	2099.1	2092.6	2031.2	1945.7	1874.6	1863.3	1913.4	1929.5	2040.9	2208.9
20°	2341.3	2328.3	2221.8	2133.0	1992.5	1926.3	1934.4	1936.0	2057.1	2233.1
22.5°	2610.9	2644.8	2528.6	2347.7	2173.3	2008.6	1976.3	2002.2	2094.2	2246.0
25°	3033.9	2961.3	2861.2	2623.8	2342.9	2136.2	2045.8	2058.7	2129.7	2278.3
27.5°	3339.1	3310.1	3153.4	2961.3	2580.2	2236.3	2082.9	2107.1	2194.3	2276.7
30°	3633.0	3633.0	3537.7	3250.3	2830.5	2404.2	2162.0	2150.7	2163.6	2273.4
32.5°	3976.9	3930.1	3792.8	3602.3	3145.4	2557.6	2225.0	2228.2	2228.2	2333.2
35°	4157.7	4233.6	4141.6	3831.6	3385.9	2812.7	2376.8	2352.6	2334.8	2399.4
37.5°	4422.6	4467.8	4370.9	4188.4	3684.7	3019.4	2510.8	2491.4	2388.1	2451.1
40°	4582.4	4574.3	4571.1	4487.1	4080.2	3263.2	2707.8	2657.7	2518.9	2633.5
42.5°	4672.8	4656.7	4855.3	4803.6	4453.2	3621.7	2954.8	2927.4	2774.0	2958.1
45°	4774.5	4894.0	5057.1	5202.4	4887.6	4125.5	3373.0	3334.3	3197.0	3431.2
47.5°	4863.4	5010.3	5218.6	5373.6	5279.9	4672.8	3889.7	3899.4	3809.0	4049.6
50°	5011.9	5026.4	5309.0	5622.2	5694.9	5178.2	4584.0	4567.9	4527.5	4865.0
52.5°	4966.7	5010.3	5367.1	5767.6	5887.1	5712.7	5330.0	5378.4	5325.1	5749.8
55°	4230.4	4361.2	5331.6	5921.0	6342.4	6316.5	6289.1	6256.8	6253.6	6744.4
57.5°	3896.2	4002.7	4697.0	6090.5	6830.0	7020.5	7198.2	7233.7	7232.1	7824.6
60°	3676.6	3786.4	4440.3	5998.5	7245.0	7942.5	8283.2	8288.0	8278.4	8979.1
62.5°	3247.1	3353.6	3996.3	5494.7	7359.6	8793.4	9552.3	9615.3	9171.3	9973.8
65°	2730.4	2817.6	3384.3	4724.5	7054.4	9334.3	10506.6	10432.3	9923.7	10542.1
67°	2233.1	2291.2	2843.4	4056.0	6256.8	9074.4	10782.7	10844.1	10270.9	10566.3
67.5°	2091.0	2144.3	2665.8	3828.4	5953.3	8877.4	10792.4	10782.7	10277.3	10571.2
70°	1451.6	1474.2	1816.5	2633.5	4385.4	7500.1	10004.4	10027.0	9846.2	9998.0
72.5°	962.3	996.2	1214.2	1659.9	2585.1	5457.6	8362.3	8604.5	8489.9	8197.6
75°	620.0	639.4	794.4	988.2	1272.4	3108.2	6177.7	6339.2	6076.0	5070.0
77.5°	347.2	368.1	479.6	600.7	620.0	1293.3	3469.9	3670.1	3109.8	2154.0
80°	216.4	243.8	361.7	356.8	295.5	474.7	1430.6	1532.3	1243.3	741.1
82.5°	163.1	184.1	279.3	250.3	166.3	211.5	536.1	574.8	455.3	285.8
85°	111.4	140.5	201.8	155.0	87.2	101.7	213.1	229.3	208.3	138.9
87.5°	40.4	59.7	105.0	77.5	38.8	30.7	69.4	77.5	74.3	63.0
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°
2142.7	0°	2142.7	2142.7	2142.7	2142.7	2142.7	2142.7	2142.7	2142.7	2142.7	2142.7
2162.0	2.5°	2192.7	2215.3	2226.6	2292.8	2320.3	2315.4	2321.9	2331.6	2341.3	2354.2
2189.5	5°	2210.5	2279.9	2317.0	2394.5	2446.2	2423.6	2452.7	2444.6	2433.3	2431.7
2239.5	7.5°	2268.6	2357.4	2468.8	2489.8	2512.4	2455.9	2407.5	2341.3	2325.1	2268.6
2281.5	10°	2371.9	2444.6	2580.2	2588.3	2488.2	2342.9	2234.7	2097.4	2095.8	2013.5
2346.1	12.5°	2470.4	2552.8	2662.6	2615.7	2376.8	2178.2	2002.2	1852.0	1789.0	1747.1
2384.9	15°	2531.8	2667.4	2725.5	2523.7	2181.4	1913.4	1685.7	1524.2	1459.7	1429.0
2433.3	17.5°	2588.3	2777.2	2751.4	2362.2	1940.8	1640.5	1369.2	1228.8	1211.0	1188.4
2510.8	20°	2665.8	2817.6	2659.3	2152.3	1667.9	1288.5	1115.7	1047.9	1064.1	1073.7
2518.9	22.5°	2738.5	2838.6	2543.1	1923.1	1317.6	1020.5	934.9	949.4	973.6	1005.9
2538.2	25°	2770.8	2872.5	2386.5	1606.6	1002.7	859.0	839.6	863.8	904.2	905.8
2565.7	27.5°	2791.7	2848.3	2197.6	1298.2	792.8	750.8	779.9	797.6	802.5	821.9
2623.8	30°	2828.9	2798.2	1958.6	928.4	665.2	666.9	704.0	704.0	704.0	718.5
2682.0	32.5°	2893.5	2764.3	1679.2	678.2	573.2	624.9	615.2	612.0	605.5	587.7
2756.2	35°	2933.8	2672.3	1325.6	502.2	515.1	573.2	570.0	519.9	436.0	394.0
2945.1	37.5°	3017.8	2625.4	975.3	387.5	481.2	547.4	529.6	408.5	316.5	276.1
3179.3	40°	3198.6	2594.8	674.9	339.1	458.6	534.5	473.1	348.8	242.2	171.2
3540.9	42.5°	3419.8	2596.4	458.6	319.7	460.2	561.9	455.3	298.7	171.2	137.2
4023.7	45°	3716.9	2572.2	314.9	319.7	489.2	607.1	466.6	271.3	166.3	174.4
4629.2	47.5°	4036.6	2593.1	234.1	290.6	494.1	608.7	426.3	266.4	159.9	201.8
5288.0	50°	4409.6	2614.1	193.8	268.0	495.7	589.4	392.4	260.0	166.3	213.1
6043.7	52.5°	4793.9	2680.3	164.7	253.5	515.1	581.3	392.4	269.6	166.3	185.7
7006.0	55°	5367.1	2849.9	237.4	316.5	586.1	634.6	482.8	377.8	232.5	239.0
7928.0	57.5°	6000.1	3024.3	264.8	332.6	602.3	571.6	519.9	416.6	245.4	247.0
8644.9	60°	6416.7	3030.7	263.2	324.5	563.5	494.1	508.6	439.2	250.3	211.5
9088.9	62.5°	6583.0	2833.7	274.5	324.5	524.8	461.8	521.5	473.1	258.3	264.8
9214.9	65°	6394.1	2426.8	264.8	290.6	461.8	413.4	524.8	479.6	282.6	266.4
8988.8	67°	6098.6	2091.0	269.6	276.1	429.5	392.4	552.2	503.8	327.8	319.7
8870.9	67.5°	6014.6	2002.2	268.0	268.0	418.2	385.9	558.7	503.8	334.2	331.0
7829.5	70°	5300.9	1622.7	274.5	264.8	369.8	366.5	594.2	531.2	384.3	387.5
5751.4	72.5°	4035.0	1230.4	272.9	264.8	321.3	350.4	599.0	549.0	418.2	387.5
3221.2	75°	2292.8	736.3	240.6	230.9	253.5	305.2	560.3	523.1	406.9	347.2
1286.9	77.5°	947.8	379.4	221.2	208.3	209.9	248.7	466.6	487.6	387.5	295.5
429.5	80°	353.6	227.7	177.6	166.3	161.5	182.5	332.6	389.1	331.0	242.2
188.9	82.5°	184.1	142.1	121.1	121.1	109.8	116.3	179.2	258.3	250.3	166.3
75.9	85°	93.7	80.7	69.4	67.8	61.4	54.9	90.4	153.4	143.7	92.0
33.9	87.5°	50.1	45.2	29.1	27.4	22.6	14.5	16.1	30.7	50.1	40.4
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





180°
2142.7
2367.1
2446.2
2288.0
2010.3
1737.4
1422.5
1199.7
1062.4
988.2
922.0
839.6
734.7
578.0
413.4
274.5
166.3
134.0
177.6
224.4
247.0
190.5
251.9
239.0
218.0
268.0
261.6
314.9
324.5
358.5
343.9
310.0
279.3
221.2
130.8
75.9
29.1
0.0

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