

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: P477261

Luminaire Tested: **IFLD-S-SA3C-727-U-T3**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P477261  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3C-727-U-T3  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3  
distribution lens  
Light Source: (48) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

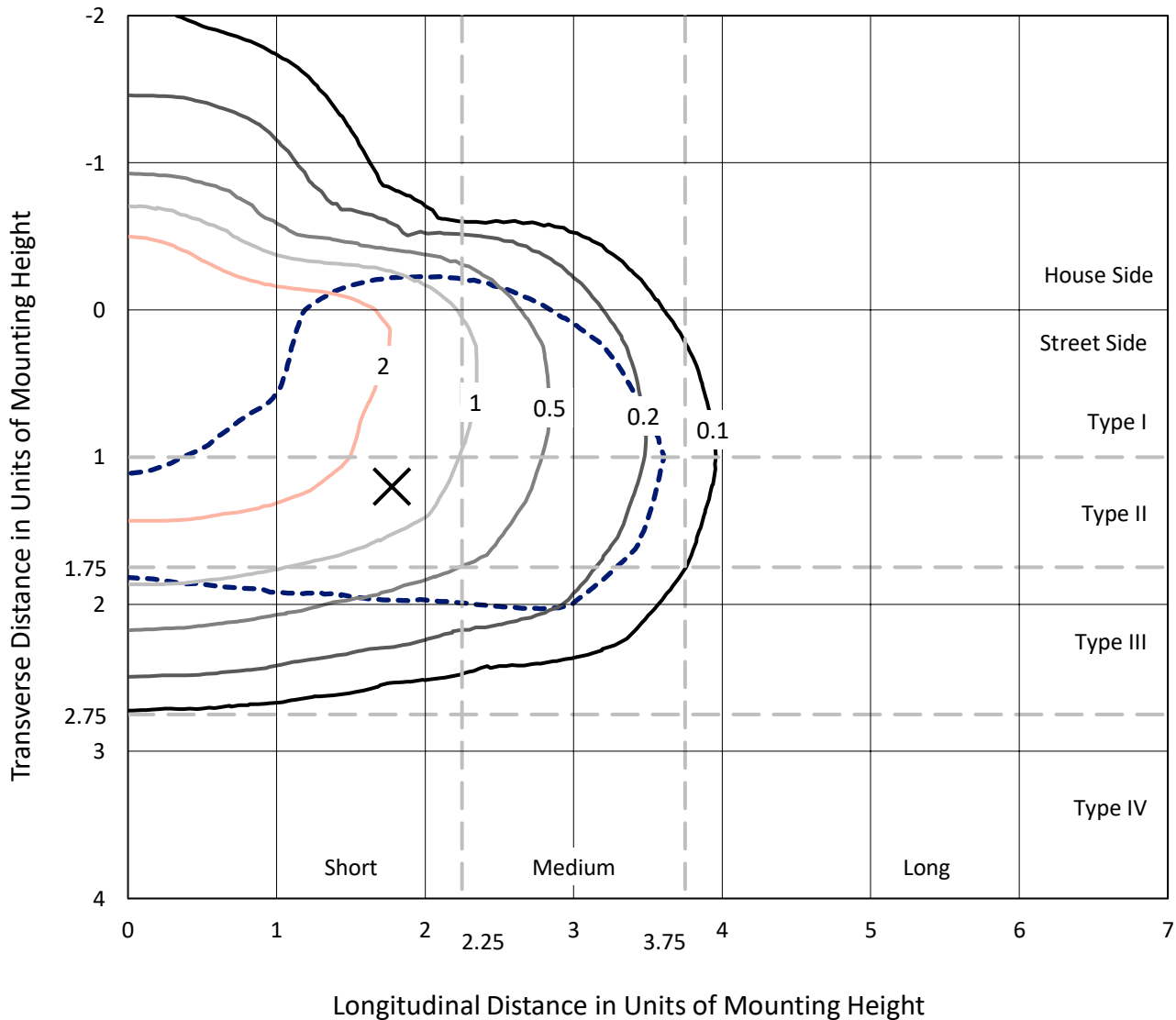
Lumens per Lamp: N/A  
Luminaire Lumens: 18042.6 lumens  
Efficiency: N/A  
Efficacy: 112.2 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G3

Input Watts (W): 160.8  
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

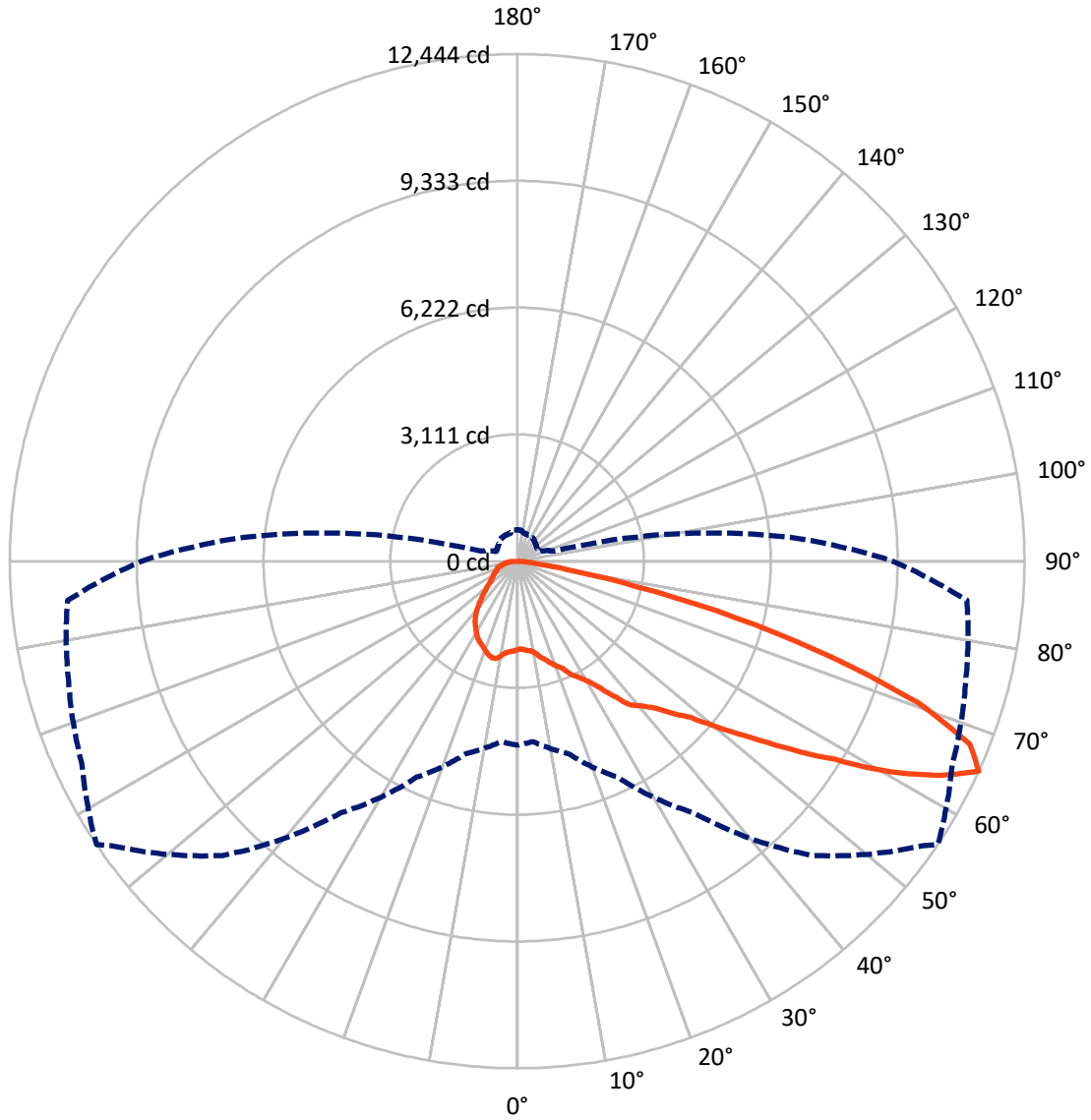
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4046.4	0.0	4046.4
	% Fixture	22.4	0.0	22.4
<b>Street Side</b>	Lumens	13996.2	0.0	13996.2
	% Fixture	77.6	0.0	77.6
<b>Total</b>	Lumens	18042.6	0.0	18042.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	214.6	1.2
10°-20°	696.9	3.9
20°-30°	1240.8	6.9
30°-40°	1858.0	10.3
40°-50°	2752.9	15.3
50°-60°	4241.9	23.5
60°-70°	4802.3	26.6
70°-80°	1993.0	11.0
80°-90°	242.1	1.3
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°	18042.6	100.0
0°-180°	18042.6	100.0

**Coefficient of Utilization**

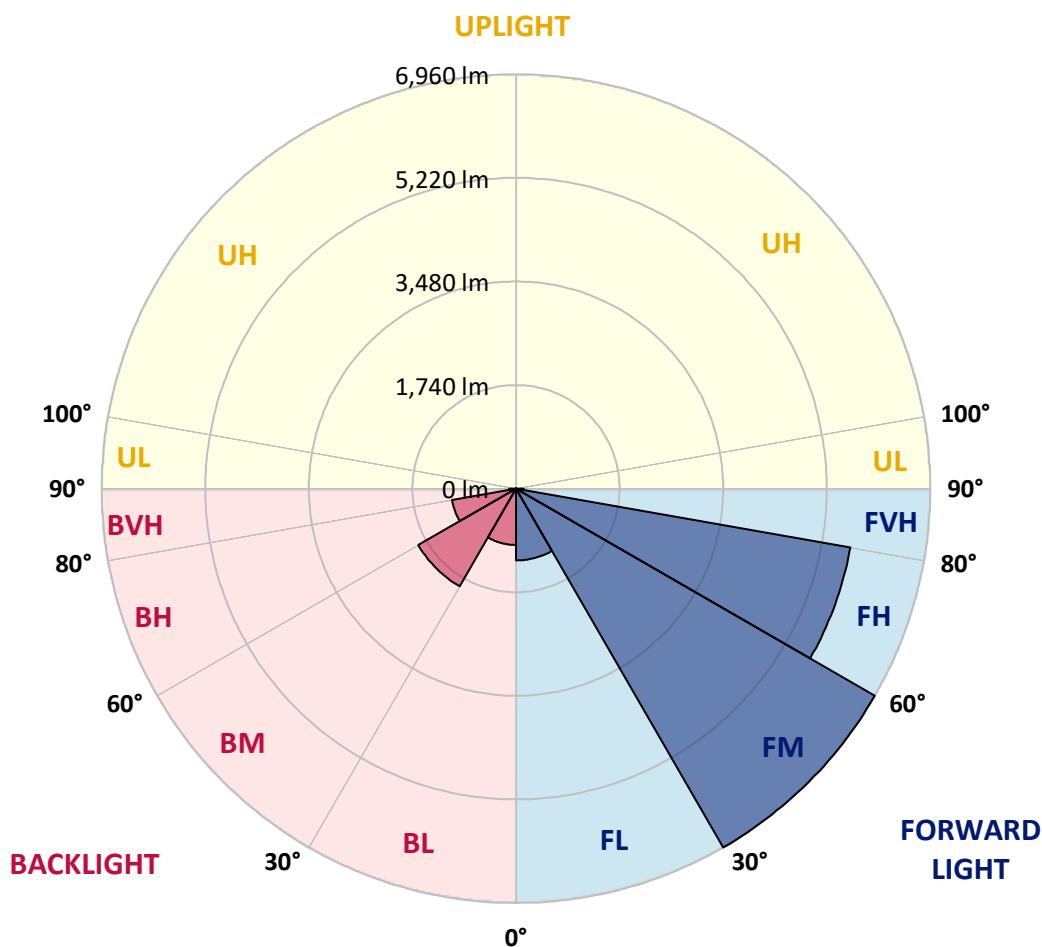


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1205.8	6.7			
FM (30°-60°)	6960.0	38.6			
FH (60°-80°)	5702.7	31.6			G3/7500
FVH (80°-90°)	127.7	0.7			G2/225
BL (0°-30°)	946.5	5.2	B2/1000		
BM (30°-60°)	1892.8	10.5	B2/2500		
BH (60°-80°)	1092.7	6.1	B3/2500		G3/2500
BVH (80°-90°)	114.4	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	2165.6	2165.6	2165.6	2165.6	2165.6	2165.6	2165.6	2165.6	2165.6	2165.6
2.5°	2109.0	2120.3	2112.8	2135.4	2154.3	2154.3	2169.4	2158.1	2173.2	2193.9
5°	2178.8	2133.5	2158.1	2169.4	2163.7	2173.2	2158.1	2195.8	2171.3	2210.9
7.5°	2195.8	2212.8	2233.6	2214.7	2231.7	2222.3	2224.2	2218.5	2205.3	2237.4
10°	2320.4	2295.9	2343.1	2314.8	2311.0	2307.2	2299.7	2271.4	2303.5	2305.3
12.5°	2463.9	2441.3	2439.4	2416.7	2446.9	2392.2	2403.5	2388.4	2394.1	2401.6
15°	2567.8	2558.3	2601.8	2575.3	2535.7	2511.1	2537.6	2496.0	2516.8	2513.0
17.5°	2773.6	2771.7	2739.6	2696.2	2673.5	2637.6	2632.0	2615.0	2630.1	2622.5
20°	2917.1	2937.8	2943.5	2892.5	2805.7	2766.0	2756.6	2743.4	2760.4	2754.7
22.5°	3136.1	3104.0	3128.5	3039.8	3007.7	2913.3	2879.3	2860.4	2941.6	2920.9
25°	3275.8	3309.8	3285.3	3255.0	3183.3	3066.2	3041.7	3083.2	3115.3	3092.7
27.5°	3591.1	3557.1	3534.5	3443.9	3396.6	3273.9	3245.6	3230.5	3238.1	3251.3
30°	3830.9	3849.8	3798.8	3734.6	3615.7	3491.1	3425.0	3411.8	3385.3	3362.7
32.5°	4172.6	4144.3	4114.1	4072.6	3970.6	3806.4	3742.2	3693.1	3613.8	3508.0
35°	4336.9	4418.1	4395.4	4284.0	4206.6	4144.3	4125.4	4049.9	3983.8	3817.7
37.5°	4610.7	4644.7	4612.6	4576.7	4540.8	4474.7	4452.1	4472.9	4342.6	4068.8
40°	4788.2	4859.9	4926.0	4825.9	4818.4	4831.6	4691.9	4667.3	4399.2	4255.7
42.5°	5150.7	5180.9	5194.1	5190.3	5233.7	5233.7	4967.5	4914.7	4724.0	4606.9
45°	5630.2	5654.8	5702.0	5736.0	5686.9	5711.4	5331.9	5311.2	5141.2	5118.6
47.5°	6045.6	6104.1	6209.9	6309.9	6374.1	6291.1	5875.7	5728.4	5685.0	5820.9
50°	6408.1	6338.3	6585.6	6687.6	6968.9	7106.7	6476.1	6417.6	6347.7	6608.3
52.5°	6444.0	6538.4	6887.7	7091.6	7671.3	7926.1	7212.4	7187.9	7102.9	7403.1
55°	6700.8	6689.5	7040.6	7482.4	8171.6	8600.2	8171.6	8156.5	7971.5	8256.6
57.5°	6657.4	6772.5	7050.1	7667.5	8622.8	9323.3	9283.7	9179.8	8921.2	9153.4
60°	6510.1	6540.3	6878.3	7661.8	8885.3	10065.3	10484.5	10505.3	9976.6	10161.6
62.5°	5675.6	5745.4	6174.0	7059.5	8698.4	10577.0	11657.0	11583.3	11160.4	10949.0
65°	4514.4	4444.5	4890.1	5847.4	7535.3	10214.5	12170.5	12444.3	11779.7	11392.6
67.5°	2767.9	2750.9	3179.5	4023.5	5637.8	8692.7	11760.8	11974.2	11607.9	11298.2
70°	1425.5	1382.1	1650.2	2244.9	3543.9	6377.9	10235.3	10444.8	10794.1	10133.3
72.5°	664.6	655.2	798.7	1104.5	1805.0	3749.7	7926.1	8077.2	8813.5	8543.5
75°	390.8	396.5	477.7	577.8	879.8	1767.2	5260.2	5552.8	6351.5	6157.0
77.5°	292.7	292.7	339.9	402.2	513.6	683.5	2596.1	2983.2	3713.8	3340.0
80°	215.2	219.0	260.6	302.1	356.8	353.1	1030.9	1208.4	1703.0	1455.7
82.5°	168.0	173.7	202.0	224.7	251.1	213.4	422.9	455.0	700.5	557.0
85°	117.1	120.8	158.6	152.9	152.9	118.9	175.6	185.0	277.5	264.3
87.5°	28.3	32.1	77.4	85.0	64.2	35.9	54.8	62.3	100.1	115.2
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°
2165.6	0°	2165.6	2165.6	2165.6	2165.6	2165.6	2165.6	2165.6	2165.6	2165.6	2165.6
2203.4	2.5°	2175.1	2182.6	2214.7	2197.7	2207.2	2167.5	2199.6	2173.2	2195.8	2184.5
2220.4	5°	2235.5	2218.5	2237.4	2224.2	2224.2	2239.3	2261.9	2244.9	2278.9	2263.8
2233.6	7.5°	2260.0	2261.9	2273.2	2275.1	2265.7	2312.9	2314.8	2309.1	2341.2	2333.7
2324.2	10°	2320.4	2322.3	2343.1	2354.4	2345.0	2362.0	2343.1	2328.0	2326.1	2318.6
2396.0	12.5°	2416.7	2435.6	2431.8	2441.3	2443.2	2371.4	2328.0	2254.4	2244.9	2254.4
2501.7	15°	2505.5	2497.9	2501.7	2520.6	2441.3	2326.1	2248.7	2186.4	2190.2	2192.1
2639.5	17.5°	2611.2	2616.9	2622.5	2535.7	2390.3	2254.4	2186.4	2186.4	2167.5	2175.1
2735.8	20°	2732.0	2709.4	2660.3	2537.6	2301.6	2171.3	2150.5	2150.5	2127.9	2112.8
2839.7	22.5°	2826.4	2781.1	2707.5	2479.0	2222.3	2139.2	2088.2	2052.3	2025.9	1995.7
2954.8	25°	2886.9	2862.3	2718.8	2418.6	2163.7	2054.2	1978.7	1923.9	1890.0	1850.3
3045.5	27.5°	2979.4	2932.2	2750.9	2348.8	2099.5	1969.3	1852.2	1767.2	1703.0	1661.5
3183.3	30°	3104.0	3036.0	2728.3	2248.7	2001.4	1822.0	1684.2	1574.7	1501.0	1467.0
3313.6	32.5°	3206.0	3117.2	2709.4	2158.1	1891.9	1672.8	1489.7	1378.3	1336.8	1293.3
3532.6	35°	3400.4	3224.8	2696.2	2107.1	1793.7	1523.7	1331.1	1234.8	1181.9	1117.7
3662.9	37.5°	3549.6	3411.8	2664.1	2001.4	1667.2	1378.3	1210.3	1123.4	1044.1	976.1
3965.0	40°	3783.7	3672.3	2666.0	1852.2	1518.0	1253.7	1115.9	1025.2	925.2	866.6
4412.4	42.5°	4223.6	3929.1	2677.3	1733.3	1350.0	1151.7	1030.9	923.3	823.2	774.1
4922.2	45°	4763.6	4282.2	2607.4	1625.6	1178.2	1055.4	928.9	821.3	757.1	721.2
5615.1	47.5°	5384.8	4627.7	2513.0	1423.6	1034.7	953.5	834.5	772.2	725.0	704.3
6508.2	50°	6079.6	5122.3	2486.6	1238.6	923.3	866.6	789.2	742.0	709.9	685.4
7514.5	52.5°	6974.6	5698.2	2433.7	1047.9	827.0	796.8	772.2	740.1	711.8	691.0
8452.9	55°	7829.9	6336.4	2377.1	891.2	759.0	762.8	776.0	747.7	723.1	691.0
9504.6	57.5°	8792.8	6987.8	2167.5	776.0	708.0	745.8	772.2	740.1	715.6	691.0
10580.8	60°	9387.5	7354.1	1757.8	675.9	662.7	713.7	749.6	715.6	689.1	698.6
11075.5	62.5°	9629.2	7161.5	1325.4	613.6	630.6	670.3	713.7	700.5	681.6	717.5
11069.8	65°	9217.6	6717.8	947.8	560.8	587.2	626.8	681.6	696.7	702.4	772.2
10167.3	67.5°	8201.8	5849.3	696.7	517.3	541.9	600.4	704.3	728.8	725.0	811.9
8532.2	70°	6563.0	4574.8	543.8	481.5	524.9	621.2	736.3	736.3	709.9	811.9
6508.2	72.5°	4774.9	3224.8	468.2	439.9	481.5	570.2	732.6	730.7	696.7	742.0
4144.3	75°	2890.6	1876.7	413.5	398.4	413.5	489.0	700.5	689.1	641.9	638.2
1993.8	77.5°	1440.6	944.0	338.0	353.1	360.6	409.7	615.5	632.5	568.3	553.2
787.3	80°	608.0	411.6	281.3	304.0	304.0	345.5	511.7	523.0	472.0	443.7
311.5	82.5°	277.5	236.0	239.8	264.3	247.3	268.1	405.9	419.2	383.3	336.1
132.2	85°	117.1	134.1	183.1	207.7	183.1	173.7	279.4	294.5	249.2	207.7
56.6	87.5°	52.9	73.6	115.2	151.0	92.5	81.2	149.2	154.8	124.6	92.5
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>
2165.6
2163.7
2243.0
2322.3
2318.6
2258.1
2218.5
2177.0
2090.1
1978.7
1857.9
1680.4
1485.9
1291.4
1112.1
978.0
872.3
777.9
728.8
700.5
689.1
689.1
689.1
689.1
691.0
708.0
772.2
817.5
794.9
715.6
630.6
543.8
434.3
328.5
209.6
86.9
0.0

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