

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: P477535

Luminaire Tested: **IFLD-S-SA3D-830-U-T3**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P477535  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3D-830-U-T3  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3  
distribution lens  
Light Source: (48) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

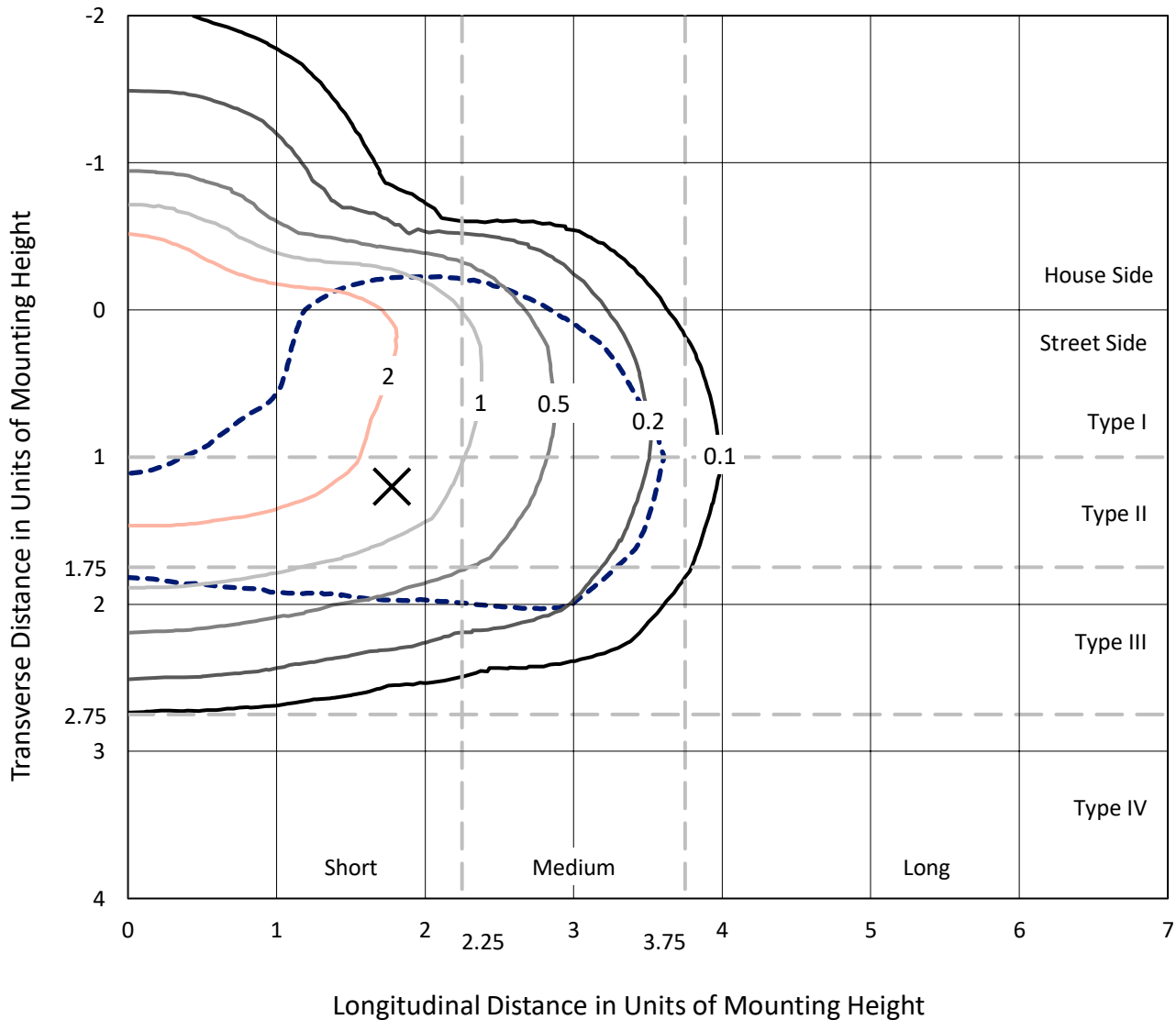
Lumens per Lamp: N/A  
Luminaire Lumens: 18862.7 lumens  
Efficiency: N/A  
Efficacy: 102.5 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G3

Input Watts (W): 184.1  
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

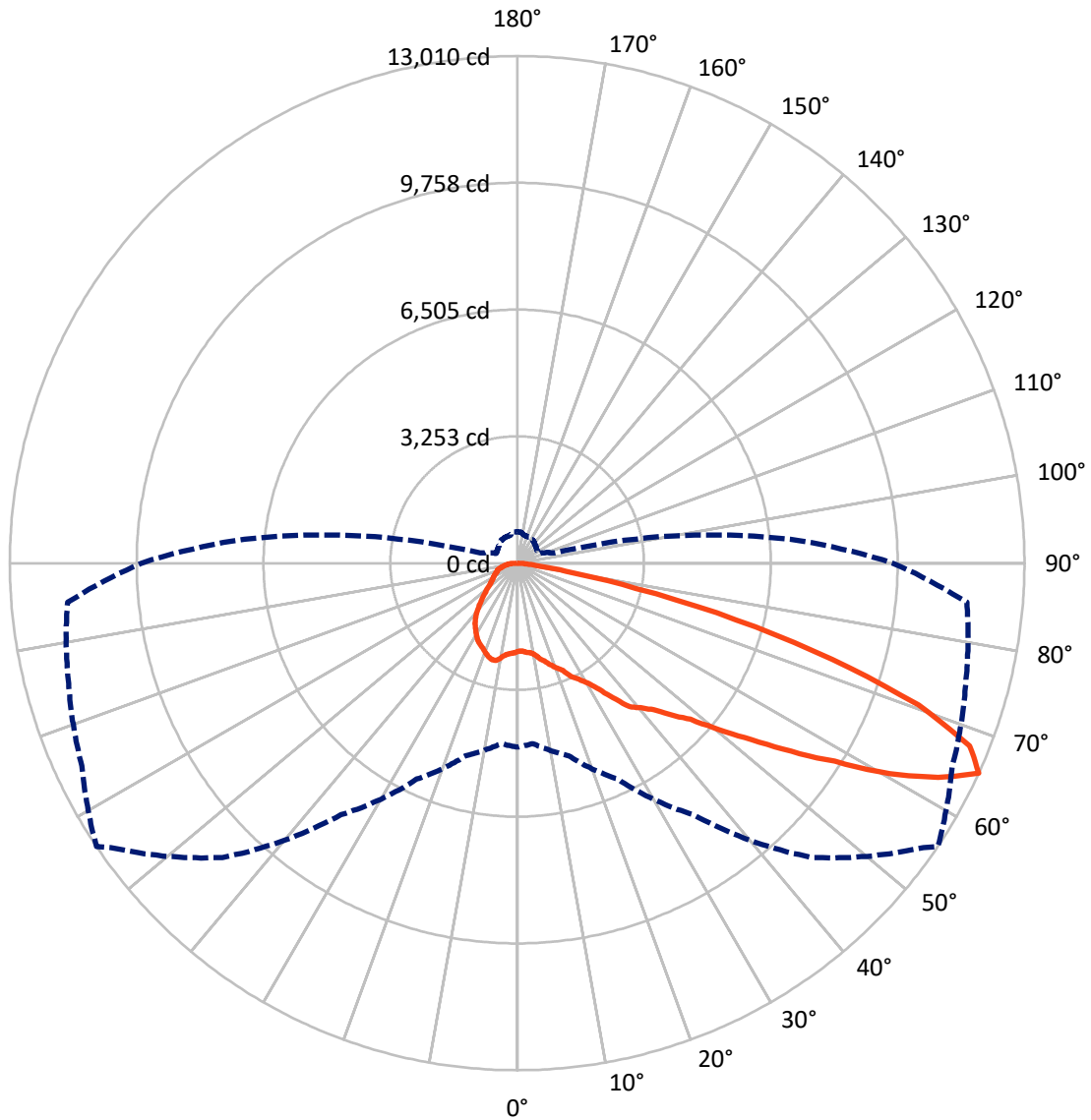
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 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	4230.3	0.0	4230.3
	% Fixture	22.4	0.0	22.4
<b>Street Side</b>	Lumens	14632.4	0.0	14632.4
	% Fixture	77.6	0.0	77.6
<b>Total</b>	Lumens	18862.7	0.0	18862.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	224.4	1.2
10°-20°	728.5	3.9
20°-30°	1297.2	6.9
30°-40°	1942.5	10.3
40°-50°	2878.1	15.3
50°-60°	4434.7	23.5
60°-70°	5020.6	26.6
70°-80°	2083.6	11.0
80°-90°	253.1	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°	18862.7	100.0
0°-180°	18862.7	100.0

**Coefficient of Utilization**

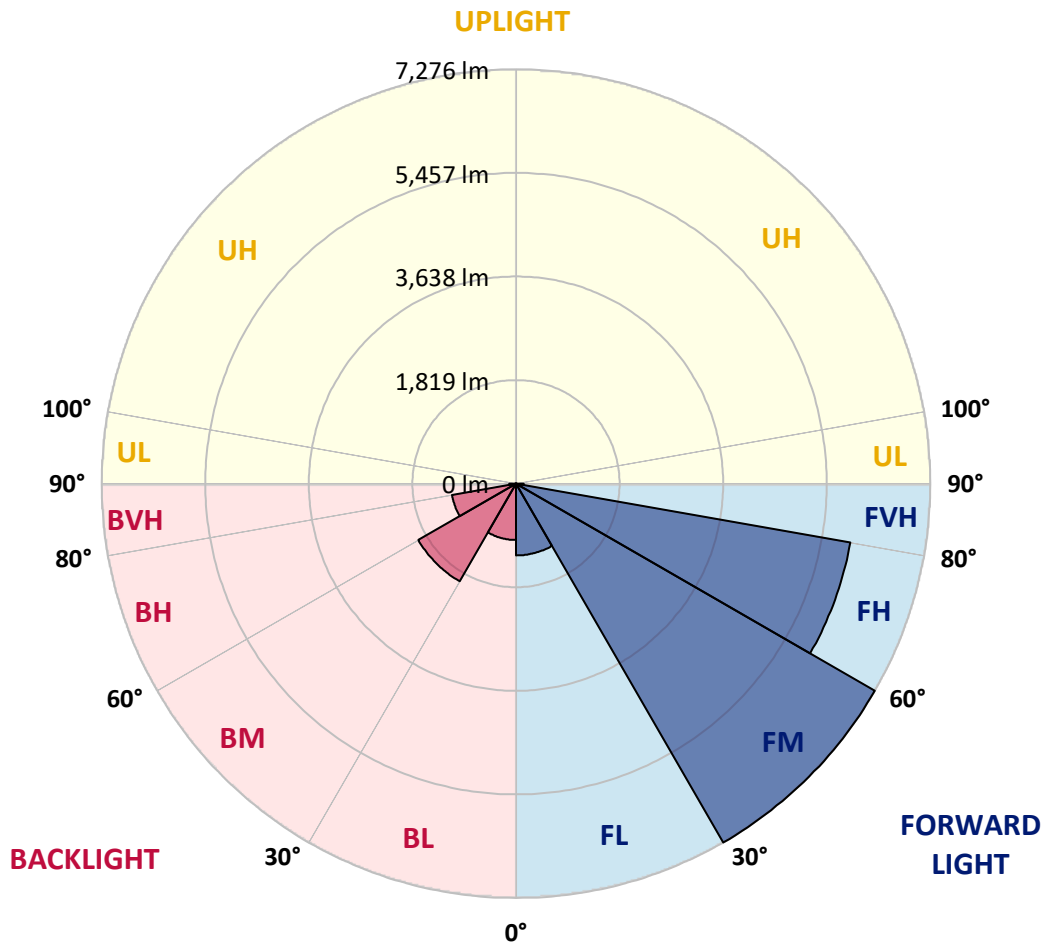


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1260.6	6.7			
FM (30°-60°)	7276.4	38.6			
FH (60°-80°)	5961.9	31.6			G3/7500
FVH (80°-90°)	133.5	0.7			G2/225
BL (0°-30°)	989.5	5.2	B2/1000		
BM (30°-60°)	1978.9	10.5	B2/2500		
BH (60°-80°)	1142.3	6.1	B3/2500		G3/2500
BVH (80°-90°)	119.6	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°	2264.1	2264.1	2264.1	2264.1	2264.1	2264.1	2264.1	2264.1	2264.1	2264.1
2.5°	2204.9	2216.7	2208.8	2232.5	2252.2	2252.2	2268.0	2256.2	2272.0	2293.7
5°	2277.9	2230.5	2256.2	2268.0	2262.1	2272.0	2256.2	2295.6	2270.0	2311.4
7.5°	2295.6	2313.4	2335.1	2315.4	2333.2	2323.3	2325.3	2319.3	2305.5	2339.1
10°	2425.9	2400.3	2449.6	2420.0	2416.1	2412.1	2404.2	2374.6	2408.2	2410.1
12.5°	2575.9	2552.3	2550.3	2526.6	2558.2	2500.9	2512.8	2497.0	2502.9	2510.8
15°	2684.5	2674.6	2720.0	2692.4	2651.0	2625.3	2652.9	2609.5	2631.2	2627.3
17.5°	2899.7	2897.7	2864.1	2818.7	2795.0	2757.5	2751.6	2733.9	2749.6	2741.8
20°	3049.7	3071.4	3077.3	3024.0	2933.2	2891.8	2881.9	2868.1	2885.8	2879.9
22.5°	3278.7	3245.1	3270.8	3178.0	3144.4	3045.7	3010.2	2990.5	3075.3	3053.6
25°	3424.7	3460.3	3434.6	3403.0	3328.0	3205.6	3180.0	3223.4	3256.9	3233.3
27.5°	3754.4	3718.8	3695.1	3600.4	3551.1	3422.7	3393.1	3377.3	3385.2	3399.1
30°	4005.1	4024.8	3971.5	3904.4	3780.0	3649.7	3580.7	3566.8	3539.2	3515.5
32.5°	4362.3	4332.7	4301.1	4257.7	4151.1	3979.4	3912.3	3861.0	3778.1	3667.5
35°	4534.1	4618.9	4595.2	4478.8	4397.9	4332.7	4313.0	4234.0	4164.9	3991.2
37.5°	4820.3	4855.8	4822.2	4784.7	4747.2	4678.2	4654.5	4676.2	4540.0	4253.8
40°	5005.8	5080.8	5149.9	5045.3	5037.4	5051.2	4905.2	4879.5	4599.2	4449.2
42.5°	5384.8	5416.4	5430.2	5426.3	5471.7	5471.7	5193.3	5138.1	4938.7	4816.3
45°	5886.2	5911.8	5961.2	5996.7	5945.4	5971.1	5574.3	5552.6	5374.9	5351.3
47.5°	6320.4	6381.6	6492.2	6596.8	6663.9	6577.0	6142.8	5988.8	5943.4	6085.5
50°	6699.4	6626.4	6885.0	6991.6	7285.7	7429.8	6770.5	6709.3	6636.3	6908.7
52.5°	6736.9	6835.6	7200.8	7414.0	8020.0	8286.4	7540.3	7514.7	7425.8	7739.7
55°	7005.4	6993.5	7360.7	7822.6	8543.1	8991.1	8543.1	8527.3	8333.8	8631.9
57.5°	6960.0	7080.4	7370.6	8016.0	9014.8	9747.1	9705.7	9597.1	9326.7	9569.5
60°	6806.0	6837.6	7190.9	8010.1	9289.2	10522.9	10961.1	10982.8	10430.1	10623.5
62.5°	5933.6	6006.6	6454.7	7380.4	9093.8	11057.8	12186.9	12109.9	11667.7	11446.7
65°	4719.6	4646.6	5112.4	6113.2	7877.8	10678.8	12723.8	13010.0	12315.2	11910.5
67.5°	2893.7	2876.0	3324.1	4206.4	5894.1	9087.9	12295.4	12518.5	12135.6	11811.8
70°	1490.3	1444.9	1725.2	2347.0	3705.0	6667.8	10700.5	10919.6	11284.8	10593.9
72.5°	694.8	684.9	835.0	1154.7	1887.1	3920.2	8286.4	8444.4	9214.2	8931.9
75°	408.6	414.5	499.4	604.0	919.8	1847.6	5499.3	5805.3	6640.2	6436.9
77.5°	306.0	306.0	355.3	420.4	536.9	714.6	2714.1	3118.8	3882.7	3491.8
80°	225.0	229.0	272.4	315.8	373.1	369.1	1077.8	1263.3	1780.5	1521.9
82.5°	175.7	181.6	211.2	234.9	262.5	223.1	442.2	475.7	732.3	582.3
85°	122.4	126.3	165.8	159.9	159.9	124.4	183.6	193.4	290.2	276.3
87.5°	29.6	33.6	80.9	88.8	67.1	37.5	57.2	65.1	104.6	120.4
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°
2264.1	0°	2264.1	2264.1	2264.1	2264.1	2264.1	2264.1	2264.1	2264.1	2264.1	2264.1
2303.5	2.5°	2273.9	2281.8	2315.4	2297.6	2307.5	2266.0	2299.6	2272.0	2295.6	2283.8
2321.3	5°	2337.1	2319.3	2339.1	2325.3	2325.3	2341.0	2364.7	2347.0	2382.5	2366.7
2335.1	7.5°	2362.8	2364.7	2376.6	2378.6	2368.7	2418.0	2420.0	2414.1	2447.6	2439.7
2429.9	10°	2425.9	2427.9	2449.6	2461.5	2451.6	2469.4	2449.6	2433.8	2431.8	2424.0
2504.9	12.5°	2526.6	2546.3	2542.4	2552.3	2554.2	2479.2	2433.8	2356.8	2347.0	2356.8
2615.4	15°	2619.4	2611.5	2615.4	2635.2	2552.3	2431.8	2350.9	2285.8	2289.7	2291.7
2759.5	17.5°	2729.9	2735.8	2741.8	2651.0	2499.0	2356.8	2285.8	2285.8	2266.0	2273.9
2860.2	20°	2856.2	2832.6	2781.2	2652.9	2406.2	2270.0	2248.3	2248.3	2224.6	2208.8
2968.8	22.5°	2954.9	2907.6	2830.6	2591.7	2323.3	2236.4	2183.1	2145.6	2118.0	2086.4
3089.2	25°	3018.1	2992.4	2842.4	2528.6	2262.1	2147.6	2068.7	2011.4	1975.9	1934.4
3183.9	27.5°	3114.8	3065.5	2876.0	2455.5	2195.0	2058.8	1936.4	1847.6	1780.5	1737.0
3328.0	30°	3245.1	3174.0	2852.3	2350.9	2092.3	1904.8	1760.7	1646.2	1569.3	1533.7
3464.2	32.5°	3351.7	3258.9	2832.6	2256.2	1977.9	1748.9	1557.4	1440.9	1397.5	1352.1
3693.2	35°	3555.0	3371.4	2818.7	2202.9	1875.2	1592.9	1391.6	1290.9	1235.7	1168.6
3829.4	37.5°	3710.9	3566.8	2785.2	2092.3	1743.0	1440.9	1265.3	1174.5	1091.6	1020.5
4145.2	40°	3955.7	3839.2	2787.2	1936.4	1587.0	1310.7	1166.6	1071.8	967.2	906.0
4613.0	42.5°	4415.6	4107.7	2799.0	1812.0	1411.3	1204.1	1077.8	965.2	860.6	809.3
5146.0	45°	4980.2	4476.8	2726.0	1699.5	1231.7	1103.4	971.2	858.6	791.5	754.0
5870.4	47.5°	5629.6	4838.0	2627.3	1488.3	1081.7	996.8	872.5	807.3	758.0	736.3
6804.0	50°	6356.0	5355.2	2599.6	1294.9	965.2	906.0	825.1	775.7	742.2	716.5
7856.1	52.5°	7291.6	5957.2	2544.4	1095.5	864.6	833.0	807.3	773.8	744.2	722.4
8837.2	55°	8185.8	6624.4	2485.1	931.7	793.5	797.5	811.3	781.7	756.0	722.4
9936.6	57.5°	9192.5	7305.4	2266.0	811.3	740.2	779.7	807.3	773.8	748.1	722.4
11061.8	60°	9814.2	7688.4	1837.7	706.7	692.8	746.1	783.6	748.1	720.5	730.3
11578.9	62.5°	10066.9	7487.0	1385.7	641.5	659.3	700.7	746.1	732.3	712.6	750.1
11573.0	65°	9636.6	7023.1	990.9	586.2	613.9	655.3	712.6	728.4	734.3	807.3
10629.5	67.5°	8574.6	6115.2	728.4	540.8	566.5	627.7	736.3	761.9	758.0	848.8
8920.1	70°	6861.3	4782.8	568.5	503.3	548.7	649.4	769.8	769.8	742.2	848.8
6804.0	72.5°	4992.0	3371.4	489.5	459.9	503.3	596.1	765.9	763.9	728.4	775.7
4332.7	75°	3022.0	1962.1	432.3	416.5	432.3	511.2	732.3	720.5	671.1	667.2
2084.4	77.5°	1506.1	987.0	353.3	369.1	377.0	428.3	643.5	661.3	594.1	578.4
823.1	80°	635.6	430.3	294.1	317.8	317.8	361.2	534.9	546.8	493.5	463.9
325.7	82.5°	290.2	246.7	250.7	276.3	258.6	280.3	424.4	438.2	400.7	351.4
138.2	85°	122.4	140.1	191.5	217.1	191.5	181.6	292.1	307.9	260.6	217.1
59.2	87.5°	55.3	77.0	120.4	157.9	96.7	84.9	155.9	161.9	130.3	96.7
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>
2264.1
2262.1
2345.0
2427.9
2424.0
2360.8
2319.3
2275.9
2185.1
2068.7
1942.3
1756.8
1553.5
1350.2
1162.6
1022.5
911.9
813.2
761.9
732.3
720.5
720.5
720.5
720.5
722.4
740.2
807.3
854.7
831.0
748.1
659.3
568.5
454.0
343.5
219.1
90.8
0.0

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