

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: P477300

Luminaire Tested: **IFLD-S-SA3C-730-U-T3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P477300
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-730-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (48) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

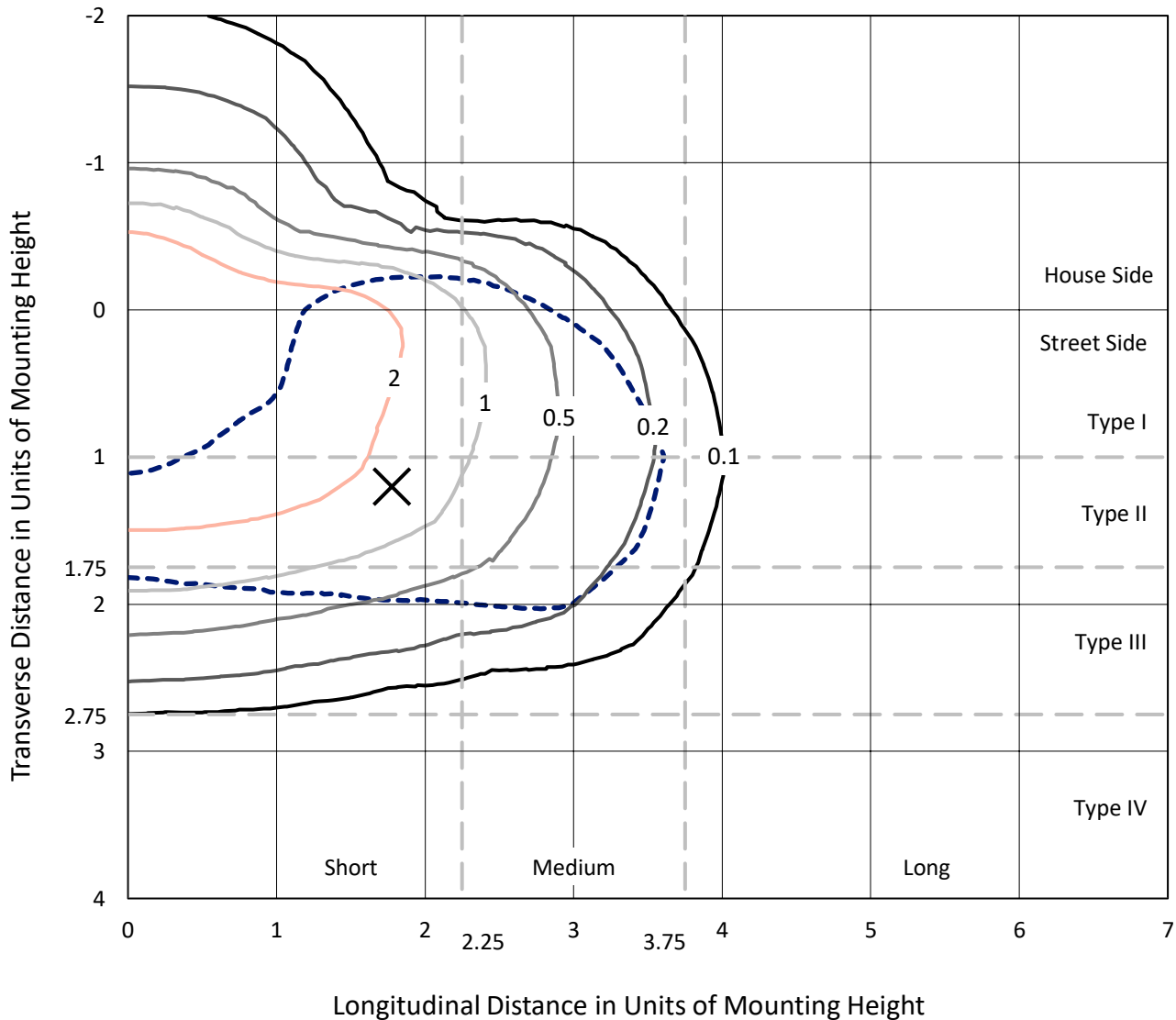
Lumens per Lamp: N/A
Luminaire Lumens: 19645.5 lumens
Efficiency: N/A
Efficacy: 122.2 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

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

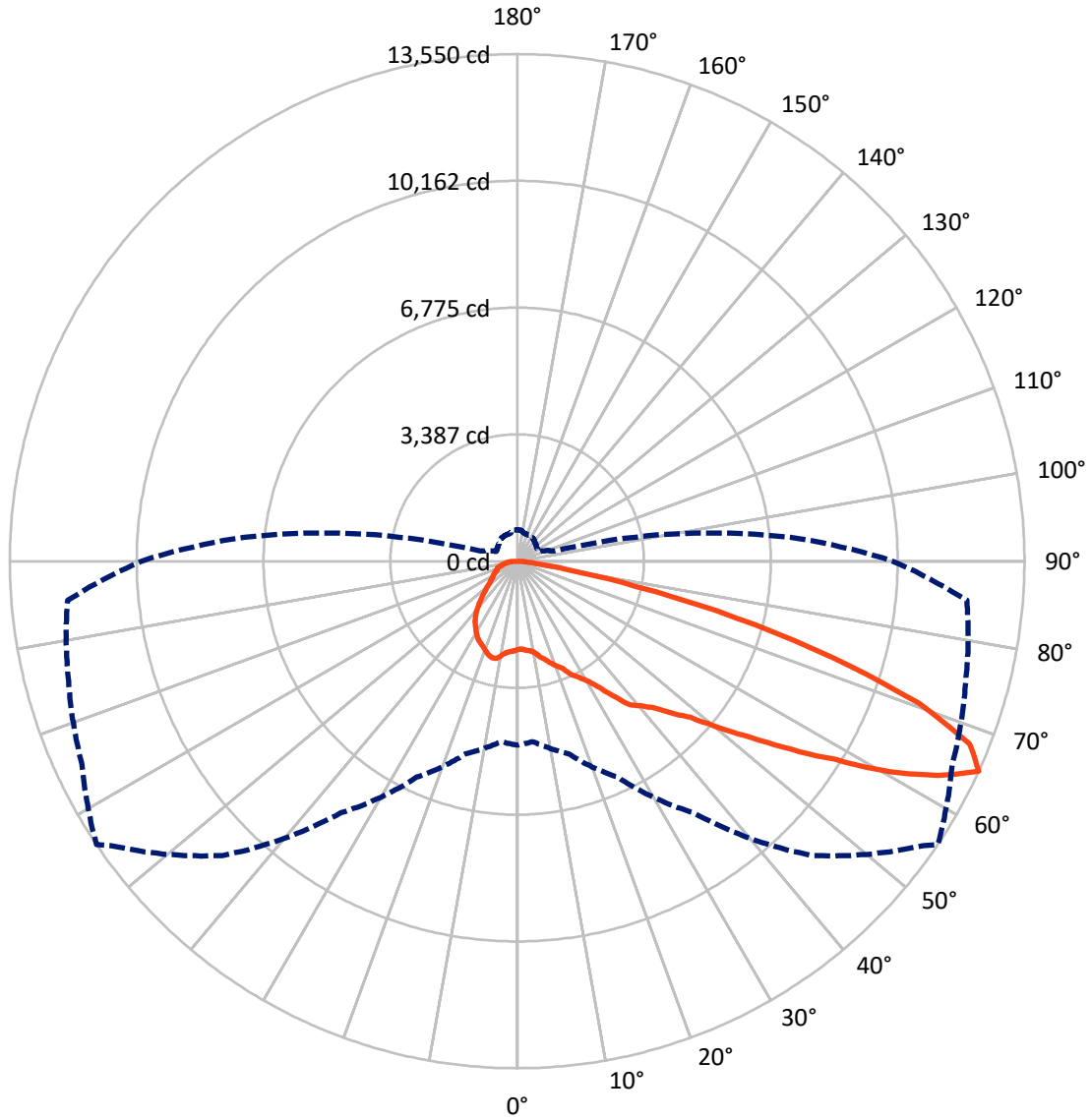
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 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
House Side	Lumens	4405.9	0.0	4405.9
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	15239.7	0.0	15239.7
	% Fixture	77.6	0.0	77.6
Total	Lumens	19645.5	0.0	19645.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.7	1.2
10°-20°	758.8	3.9
20°-30°	1351.0	6.9
30°-40°	2023.1	10.3
40°-50°	2997.5	15.3
50°-60°	4618.7	23.5
60°-70°	5229.0	26.6
70°-80°	2170.1	11.0
80°-90°	263.6	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°	19645.5	100.0
0°-180°	19645.5	100.0

Coefficient of Utilization

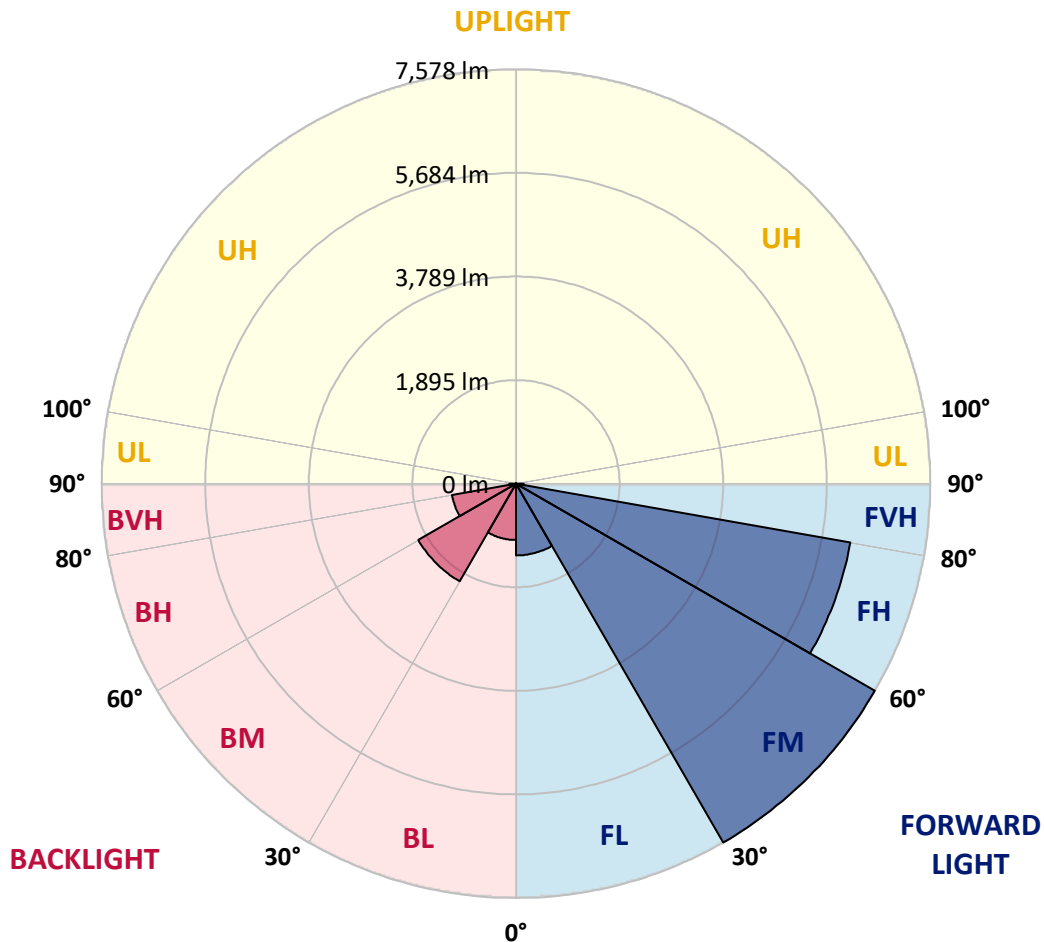


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1312.9	6.7			
FM (30°-60°)	7578.4	38.6			
FH (60°-80°)	6209.3	31.6			G3/7500
FVH (80°-90°)	139.1	0.7			G2/225
BL (0°-30°)	1030.6	5.2	B3/2500		
BM (30°-60°)	2061.0	10.5	B2/2500		
BH (60°-80°)	1189.7	6.1	B3/2500		G3/2500
BVH (80°-90°)	124.6	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°	2358.0	2358.0	2358.0	2358.0	2358.0	2358.0	2358.0	2358.0	2358.0	2358.0
2.5°	2296.4	2308.7	2300.5	2325.1	2345.7	2345.7	2362.1	2349.8	2366.2	2388.9
5°	2372.4	2323.1	2349.8	2362.1	2356.0	2366.2	2349.8	2390.9	2364.2	2407.4
7.5°	2390.9	2409.4	2432.0	2411.5	2430.0	2419.7	2421.8	2415.6	2401.2	2436.1
10°	2526.6	2499.9	2551.3	2520.4	2516.3	2512.2	2504.0	2473.2	2508.1	2510.2
12.5°	2682.8	2658.2	2656.1	2631.4	2664.3	2604.7	2617.1	2600.6	2606.8	2615.0
15°	2795.9	2785.6	2832.9	2804.1	2761.0	2734.2	2763.0	2717.8	2740.4	2736.3
17.5°	3020.0	3017.9	2983.0	2935.7	2911.0	2872.0	2865.8	2847.3	2863.8	2855.5
20°	3176.2	3198.9	3205.0	3149.5	3054.9	3011.8	3001.5	2987.1	3005.6	2999.4
22.5°	3414.7	3379.8	3406.5	3309.9	3274.9	3172.1	3135.1	3114.6	3203.0	3180.4
25°	3566.8	3603.9	3577.1	3544.2	3466.1	3338.7	3311.9	3357.2	3392.1	3367.4
27.5°	3910.2	3873.2	3848.5	3749.8	3698.4	3564.8	3534.0	3517.5	3525.7	3540.1
30°	4171.3	4191.8	4136.3	4066.4	3936.9	3801.2	3729.3	3714.9	3686.1	3661.4
32.5°	4543.4	4512.5	4479.6	4434.4	4323.4	4144.5	4074.6	4021.2	3934.8	3819.7
35°	4722.2	4810.6	4785.9	4664.7	4580.4	4512.5	4492.0	4409.7	4337.8	4156.9
37.5°	5020.3	5057.3	5022.4	4983.3	4944.2	4872.3	4847.6	4870.2	4728.4	4430.3
40°	5213.6	5291.7	5363.6	5254.7	5246.5	5260.8	5108.7	5082.0	4790.1	4633.8
42.5°	5608.3	5641.2	5655.6	5651.4	5698.7	5698.7	5408.9	5351.3	5143.7	5016.2
45°	6130.5	6157.2	6208.6	6245.6	6192.1	6218.9	5805.6	5783.0	5598.0	5573.3
47.5°	6582.7	6646.5	6761.6	6870.5	6940.4	6850.0	6397.7	6237.4	6190.1	6338.1
50°	6977.5	6901.4	7170.7	7281.7	7588.0	7738.1	7051.5	6987.7	6911.7	7195.4
52.5°	7016.5	7119.3	7499.6	7721.7	8352.8	8630.3	7853.2	7826.5	7734.0	8060.9
55°	7296.1	7283.8	7666.2	8147.2	8897.6	9364.3	8897.6	8881.1	8679.7	8990.1
57.5°	7248.8	7374.2	7676.4	8348.7	9388.9	10151.6	10108.5	9995.4	9713.7	9966.6
60°	7088.5	7121.4	7489.4	8342.5	9674.7	10959.6	11416.0	11438.6	10863.0	11064.4
62.5°	6179.8	6255.9	6722.5	7686.7	9471.2	11516.7	12692.6	12612.5	12151.9	11921.7
65°	4915.5	4839.4	5324.6	6366.9	8204.8	11122.0	13251.8	13549.9	12826.3	12404.8
67.5°	3013.8	2995.3	3462.0	4381.0	6138.7	9465.0	12805.7	13038.0	12639.2	12302.0
70°	1552.1	1504.9	1796.8	2444.4	3858.8	6944.6	11144.6	11372.8	11753.1	11033.6
72.5°	723.6	713.4	869.6	1202.7	1965.4	4082.9	8630.3	8794.8	9596.6	9302.6
75°	425.6	431.7	520.1	629.1	958.0	1924.2	5727.5	6046.2	6915.8	6704.0
77.5°	318.7	318.7	370.0	437.9	559.2	744.2	2826.8	3248.2	4043.8	3636.7
80°	234.4	238.5	283.7	328.9	388.5	384.4	1122.5	1315.7	1854.3	1585.0
82.5°	183.0	189.1	220.0	244.6	273.4	232.3	460.5	495.5	762.7	606.5
85°	127.5	131.6	172.7	166.5	166.5	129.5	191.2	201.5	302.2	287.8
87.5°	30.8	34.9	84.3	92.5	69.9	39.1	59.6	67.8	109.0	125.4
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°
2358.0	0°	2358.0	2358.0	2358.0	2358.0	2358.0	2358.0	2358.0	2358.0	2358.0	2358.0
2399.1	2.5°	2368.3	2376.5	2411.5	2393.0	2403.3	2360.1	2395.0	2366.2	2390.9	2378.6
2417.6	5°	2434.1	2415.6	2436.1	2421.8	2421.8	2438.2	2462.9	2444.4	2481.4	2464.9
2432.0	7.5°	2460.8	2462.9	2475.2	2477.3	2467.0	2518.4	2520.4	2514.3	2549.2	2541.0
2530.7	10°	2526.6	2528.7	2551.3	2563.6	2553.3	2571.8	2551.3	2534.8	2532.8	2524.5
2608.8	12.5°	2631.4	2652.0	2647.9	2658.2	2660.2	2582.1	2534.8	2454.6	2444.4	2454.6
2724.0	15°	2728.1	2719.8	2724.0	2744.5	2658.2	2532.8	2448.5	2380.6	2384.8	2386.8
2874.0	17.5°	2843.2	2849.4	2855.5	2761.0	2602.7	2454.6	2380.6	2380.6	2360.1	2368.3
2978.9	20°	2974.8	2950.1	2896.6	2763.0	2506.0	2364.2	2341.6	2341.6	2316.9	2300.5
3092.0	22.5°	3077.6	3028.2	2948.0	2699.3	2419.7	2329.2	2273.7	2234.7	2205.9	2173.0
3217.4	25°	3143.3	3116.6	2960.4	2633.5	2356.0	2236.7	2154.5	2094.9	2057.9	2014.7
3316.0	27.5°	3244.1	3192.7	2995.3	2557.4	2286.1	2144.2	2016.8	1924.2	1854.3	1809.1
3466.1	30°	3379.8	3305.8	2970.7	2448.5	2179.2	1983.9	1833.8	1714.6	1634.4	1597.4
3608.0	32.5°	3490.8	3394.2	2950.1	2349.8	2059.9	1821.5	1622.0	1500.7	1455.5	1408.2
3846.4	35°	3702.5	3511.3	2935.7	2294.3	1953.0	1659.0	1449.4	1344.5	1286.9	1217.0
3988.3	37.5°	3864.9	3714.9	2900.8	2179.2	1815.3	1500.7	1317.8	1223.2	1136.9	1062.9
4317.2	40°	4119.9	3998.6	2902.8	2016.8	1652.9	1365.1	1215.0	1116.3	1007.4	943.6
4804.5	42.5°	4598.9	4278.2	2915.2	1887.2	1469.9	1254.0	1122.5	1005.3	896.3	842.9
5359.5	45°	5186.8	4662.6	2839.1	1770.1	1282.8	1149.2	1011.5	894.3	824.4	785.3
6114.0	47.5°	5863.2	5038.8	2736.3	1550.1	1126.6	1038.2	908.7	840.8	789.4	766.8
7086.4	50°	6619.7	5577.4	2707.5	1348.6	1005.3	943.6	859.3	807.9	773.0	746.3
8182.2	52.5°	7594.2	6204.5	2650.0	1141.0	900.4	867.6	840.8	805.9	775.0	752.4
9203.9	55°	8525.5	6899.3	2588.3	970.3	826.4	830.6	844.9	814.1	787.4	752.4
10349.0	57.5°	9574.0	7608.6	2360.1	844.9	770.9	812.0	840.8	805.9	779.2	752.4
11520.8	60°	10221.5	8007.4	1914.0	736.0	721.6	777.1	816.2	779.2	750.4	760.7
12059.4	62.5°	10484.7	7797.7	1443.2	668.1	686.6	729.8	777.1	762.7	742.2	781.2
12053.3	65°	10036.5	7314.6	1032.0	610.6	639.4	682.5	742.2	758.6	764.8	840.8
11070.6	67.5°	8930.5	6368.9	758.6	563.3	590.0	653.8	766.8	793.5	789.4	884.0
9290.2	70°	7146.0	4981.3	592.1	524.2	571.5	676.4	801.8	801.8	773.0	884.0
7086.4	72.5°	5199.2	3511.3	509.8	479.0	524.2	620.9	797.7	795.6	758.6	807.9
4512.5	75°	3147.5	2043.5	450.2	433.8	450.2	532.5	762.7	750.4	699.0	694.9
2170.9	77.5°	1568.6	1027.9	368.0	384.4	392.7	446.1	670.2	688.7	618.8	602.4
857.3	80°	662.0	448.2	306.3	331.0	331.0	376.2	557.1	569.5	514.0	483.1
339.2	82.5°	302.2	257.0	261.1	287.8	269.3	291.9	442.0	456.4	417.3	365.9
143.9	85°	127.5	146.0	199.4	226.1	199.4	189.1	304.3	320.7	271.4	226.1
61.7	87.5°	57.6	80.2	125.4	164.5	100.7	88.4	162.4	168.6	135.7	100.7
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>
2358.0
2356.0
2442.3
2528.7
2524.5
2458.8
2415.6
2370.4
2275.8
2154.5
2022.9
1829.7
1617.9
1406.2
1210.9
1064.9
949.8
847.0
793.5
762.7
750.4
750.4
750.4
750.4
752.4
770.9
840.8
890.2
865.5
779.2
686.6
592.1
472.8
357.7
228.2
94.6
0.0

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