

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: P477497

Luminaire Tested: **IFLD-S-SA3E-827-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477497
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3E-827-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (48) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

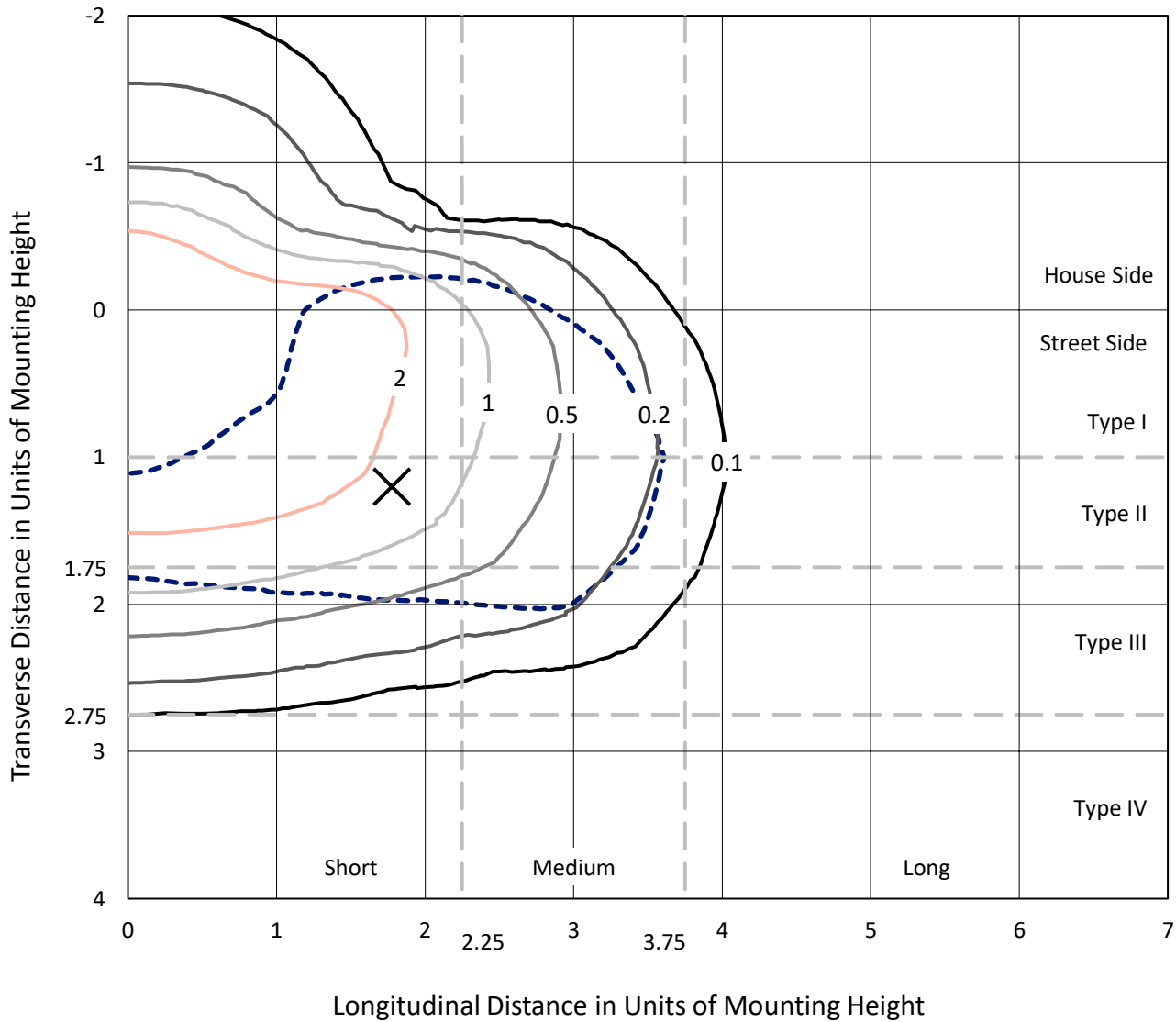
Lumens per Lamp: N/A
Luminaire Lumens: 20195.3 lumens
Efficiency: N/A
Efficacy: 87.0 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 232.1
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

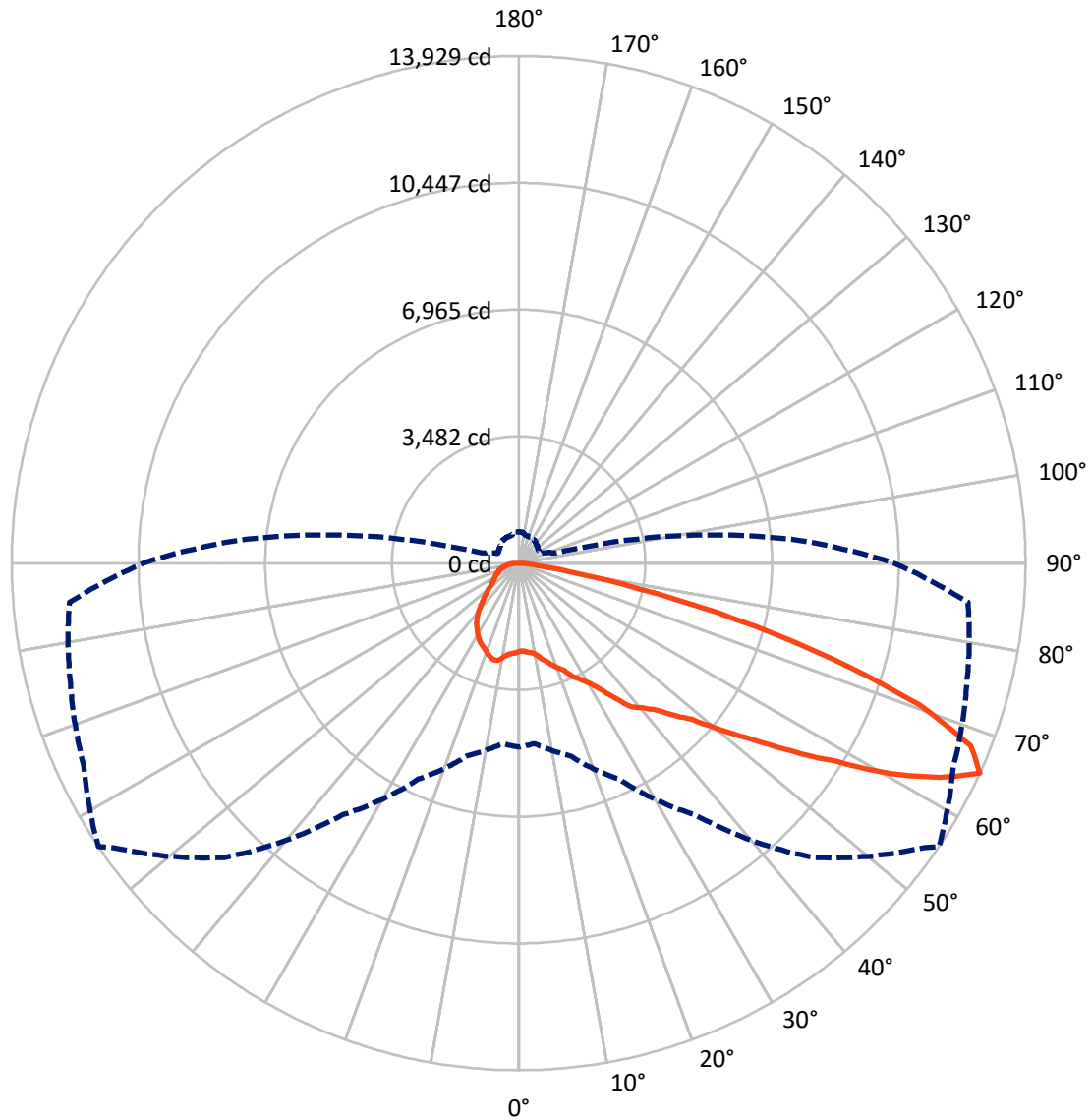
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 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	4529.2	0.0	4529.2
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	15666.2	0.0	15666.2
	% Fixture	77.6	0.0	77.6
Total	Lumens	20195.3	0.0	20195.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.2	1.2
10°-20°	780.0	3.9
20°-30°	1388.8	6.9
30°-40°	2079.7	10.3
40°-50°	3081.4	15.3
50°-60°	4748.0	23.5
60°-70°	5375.3	26.6
70°-80°	2230.8	11.0
80°-90°	271.0	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°	20195.3	100.0
0°-180°	20195.3	100.0

Coefficient of Utilization

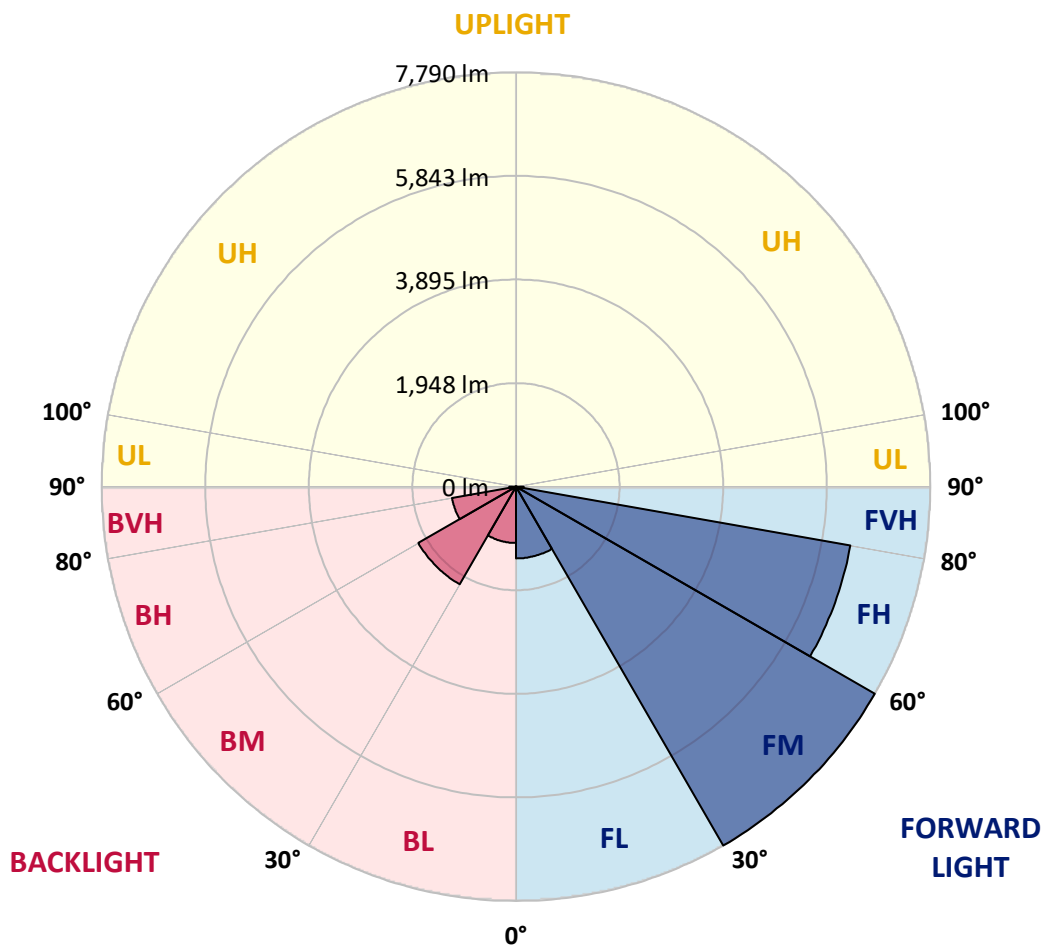


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1349.6	6.7			
FM (30°-60°)	7790.5	38.6			
FH (60°-80°)	6383.1	31.6			G3/7500
FVH (80°-90°)	143.0	0.7			G2/225
BL (0°-30°)	1059.4	5.2	B3/2500		
BM (30°-60°)	2118.7	10.5	B2/2500		
BH (60°-80°)	1223.0	6.1	B3/2500		G3/2500
BVH (80°-90°)	128.1	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°	2424.0	2424.0	2424.0	2424.0	2424.0	2424.0	2424.0	2424.0	2424.0	2424.0
2.5°	2360.6	2373.3	2364.8	2390.2	2411.3	2411.3	2428.2	2415.6	2432.5	2455.7
5°	2438.8	2388.1	2415.6	2428.2	2421.9	2432.5	2415.6	2457.8	2430.4	2474.7
7.5°	2457.8	2476.8	2500.1	2479.0	2498.0	2487.4	2489.5	2483.2	2468.4	2504.3
10°	2597.3	2569.8	2622.7	2591.0	2586.7	2582.5	2574.1	2542.4	2578.3	2580.4
12.5°	2757.9	2732.6	2730.5	2705.1	2738.9	2677.6	2690.3	2673.4	2679.7	2688.2
15°	2874.2	2863.6	2912.2	2882.6	2838.2	2810.8	2840.3	2793.9	2817.1	2812.9
17.5°	3104.5	3102.4	3066.5	3017.9	2992.5	2952.4	2946.0	2927.0	2943.9	2935.4
20°	3265.1	3288.4	3294.7	3237.7	3140.4	3096.1	3085.5	3070.7	3089.7	3083.4
22.5°	3510.3	3474.4	3501.8	3402.5	3366.6	3260.9	3222.9	3201.7	3292.6	3269.4
25°	3666.7	3704.7	3677.2	3643.4	3563.1	3432.1	3404.6	3451.1	3487.0	3461.7
27.5°	4019.6	3981.6	3956.2	3854.8	3801.9	3664.6	3632.9	3615.9	3624.4	3639.2
30°	4288.0	4309.1	4252.1	4180.2	4047.1	3907.6	3833.6	3818.8	3789.2	3763.9
32.5°	4670.5	4638.8	4605.0	4558.5	4444.4	4260.5	4188.7	4133.7	4045.0	3926.6
35°	4854.4	4945.2	4919.9	4795.2	4708.6	4638.8	4617.7	4533.1	4459.2	4273.2
37.5°	5160.8	5198.8	5162.9	5122.8	5082.6	5008.6	4983.3	5006.5	4860.7	4554.3
40°	5359.5	5439.8	5513.7	5401.7	5393.3	5408.1	5251.7	5224.2	4924.1	4763.5
42.5°	5765.2	5799.0	5813.8	5809.6	5858.2	5858.2	5560.2	5501.1	5287.6	5156.6
45°	6302.0	6329.5	6382.3	6420.4	6365.4	6392.9	5968.1	5944.9	5754.7	5729.3
47.5°	6767.0	6832.5	6950.8	7062.8	7134.7	7041.7	6576.8	6411.9	6363.3	6515.5
50°	7172.7	7094.5	7371.4	7485.5	7800.4	7954.7	7248.8	7183.3	7105.1	7396.7
52.5°	7212.9	7318.5	7709.5	7937.8	8586.6	8871.9	8073.0	8045.5	7950.4	8286.5
55°	7500.3	7487.6	7880.7	8375.2	9146.6	9626.3	9146.6	9129.7	8922.6	9241.7
57.5°	7451.7	7580.6	7891.3	8582.3	9651.7	10435.7	10391.4	10275.1	9985.6	10245.5
60°	7286.8	7320.7	7698.9	8576.0	9945.4	11266.3	11735.5	11758.7	11167.0	11374.1
62.5°	6352.7	6430.9	6910.7	7901.8	9736.2	11839.0	13047.8	12965.4	12492.0	12255.3
65°	5053.0	4974.8	5473.6	6545.1	8434.4	11433.2	13622.7	13929.1	13185.2	12752.0
67.5°	3098.2	3079.2	3558.9	4503.6	6310.5	9729.9	13164.1	13402.9	12992.9	12646.3
70°	1595.6	1547.0	1847.1	2512.8	3966.8	7138.9	11456.5	11691.1	12082.0	11342.4
72.5°	743.9	733.3	893.9	1236.3	2020.4	4197.1	8871.9	9040.9	9865.1	9562.9
75°	437.5	443.8	534.7	646.7	984.8	1978.1	5887.8	6215.4	7109.3	6891.6
77.5°	327.6	327.6	380.4	450.1	574.8	765.0	2905.9	3339.1	4157.0	3738.5
80°	240.9	245.1	291.6	338.1	399.4	395.2	1153.9	1352.5	1906.2	1629.4
82.5°	188.1	194.4	226.1	251.5	281.1	238.8	473.4	509.3	784.1	623.4
85°	131.0	135.3	177.5	171.2	171.2	133.1	196.5	207.1	310.7	295.9
87.5°	31.7	35.9	86.6	95.1	71.9	40.2	61.3	69.7	112.0	128.9
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°
2424.0	0°	2424.0	2424.0	2424.0	2424.0	2424.0	2424.0	2424.0	2424.0	2424.0	2424.0
2466.3	2.5°	2434.6	2443.0	2479.0	2459.9	2470.5	2426.1	2462.1	2432.5	2457.8	2445.1
2485.3	5°	2502.2	2483.2	2504.3	2489.5	2489.5	2506.4	2531.8	2512.8	2550.8	2533.9
2500.1	7.5°	2529.7	2531.8	2544.5	2546.6	2536.0	2588.9	2591.0	2584.6	2620.6	2612.1
2601.5	10°	2597.3	2599.4	2622.7	2635.4	2624.8	2643.8	2622.7	2605.8	2603.7	2595.2
2681.8	12.5°	2705.1	2726.2	2722.0	2732.6	2734.7	2654.4	2605.8	2523.3	2512.8	2523.3
2800.2	15°	2804.4	2796.0	2800.2	2821.3	2732.6	2603.7	2517.0	2447.3	2451.5	2453.6
2954.5	17.5°	2922.8	2929.1	2935.4	2838.2	2675.5	2523.3	2447.3	2447.3	2426.1	2434.6
3062.2	20°	3058.0	3032.7	2977.7	2840.3	2576.2	2430.4	2407.1	2407.1	2381.7	2364.8
3178.5	22.5°	3163.7	3113.0	3030.5	2774.8	2487.4	2394.4	2337.4	2297.2	2267.6	2233.8
3307.4	25°	3231.3	3203.8	3043.2	2707.2	2421.9	2299.3	2214.8	2153.5	2115.5	2071.1
3408.8	27.5°	3334.9	3282.0	3079.2	2629.0	2350.0	2204.2	2073.2	1978.1	1906.2	1859.8
3563.1	30°	3474.4	3398.3	3053.8	2517.0	2240.2	2039.4	1885.1	1762.5	1680.1	1642.1
3708.9	32.5°	3588.5	3489.1	3032.7	2415.6	2117.6	1872.4	1667.4	1542.7	1496.3	1447.6
3954.1	35°	3806.1	3609.6	3017.9	2358.5	2007.7	1705.5	1489.9	1382.1	1323.0	1251.1
4099.9	37.5°	3973.1	3818.8	2981.9	2240.2	1866.1	1542.7	1354.7	1257.4	1168.7	1092.6
4438.0	40°	4235.2	4110.5	2984.1	2073.2	1699.1	1403.3	1249.0	1147.6	1035.5	970.0
4938.9	42.5°	4727.6	4397.9	2996.7	1940.1	1511.0	1289.1	1153.9	1033.4	921.4	866.5
5509.5	45°	5332.0	4793.1	2918.5	1819.6	1318.7	1181.4	1039.8	919.3	847.5	807.3
6285.1	47.5°	6027.3	5179.8	2812.9	1593.5	1158.1	1067.2	934.1	864.4	811.5	788.3
7284.7	50°	6805.0	5733.5	2783.3	1386.4	1033.4	970.0	883.4	830.5	794.6	767.1
8411.1	52.5°	7806.7	6378.1	2724.1	1172.9	925.6	891.8	864.4	828.4	796.7	773.5
9461.5	55°	8764.1	7092.4	2660.7	997.5	849.6	853.8	868.6	836.9	809.4	773.5
10638.6	57.5°	9841.9	7821.5	2426.1	868.6	792.5	834.8	864.4	828.4	801.0	773.5
11843.2	60°	10507.6	8231.5	1967.5	756.6	741.8	798.8	839.0	801.0	771.4	781.9
12396.9	62.5°	10778.1	8015.9	1483.6	686.8	705.9	750.2	798.8	784.1	762.9	803.1
12390.6	65°	10317.4	7519.3	1060.9	627.7	657.3	701.6	762.9	779.8	786.2	864.4
11380.4	67.5°	9180.4	6547.2	779.8	579.1	606.5	672.0	788.3	815.8	811.5	908.7
9550.2	70°	7346.0	5120.7	608.6	538.9	587.5	695.3	824.2	824.2	794.6	908.7
7284.7	72.5°	5344.7	3609.6	524.1	492.4	538.9	638.2	820.0	817.9	779.8	830.5
4638.8	75°	3235.5	2100.7	462.8	445.9	462.8	547.4	784.1	771.4	718.5	714.3
2231.7	77.5°	1612.5	1056.7	378.3	395.2	403.7	458.6	689.0	708.0	636.1	619.2
881.3	80°	680.5	460.7	314.9	340.2	340.2	386.7	572.7	585.4	528.3	496.6
348.7	82.5°	310.7	264.2	268.4	295.9	276.8	300.1	454.4	469.2	429.0	376.2
147.9	85°	131.0	150.0	205.0	232.5	205.0	194.4	312.8	329.7	279.0	232.5
63.4	87.5°	59.2	82.4	128.9	169.1	103.6	90.9	167.0	173.3	139.5	103.6
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>
2424.0
2421.9
2510.7
2599.4
2595.2
2527.6
2483.2
2436.7
2339.5
2214.8
2079.5
1880.9
1663.2
1445.5
1244.8
1094.7
976.4
870.7
815.8
784.1
771.4
771.4
771.4
771.4
773.5
792.5
864.4
915.1
889.7
801.0
705.9
608.6
486.1
367.7
234.6
97.2
0.0

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