

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: P477842

Luminaire Tested: **IFLD-S-SA2D-760-U-T3R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477842
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-760-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens
Light Source: (32) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

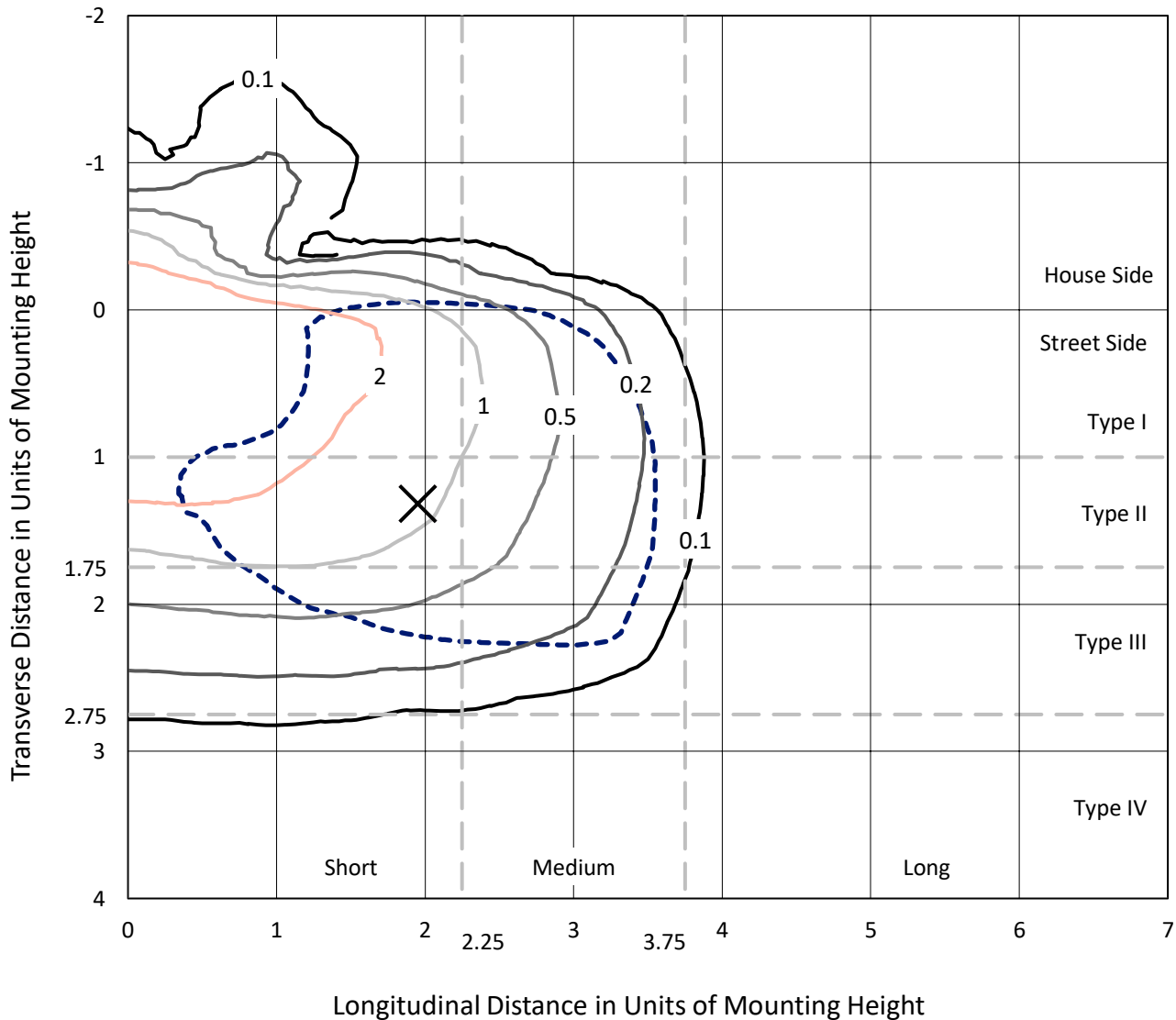
Lumens per Lamp: N/A
Luminaire Lumens: 15714.5 lumens
Efficiency: N/A
Efficacy: 126.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 123.9
Input Voltage (V): 120
Input Current (A_{in}): 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

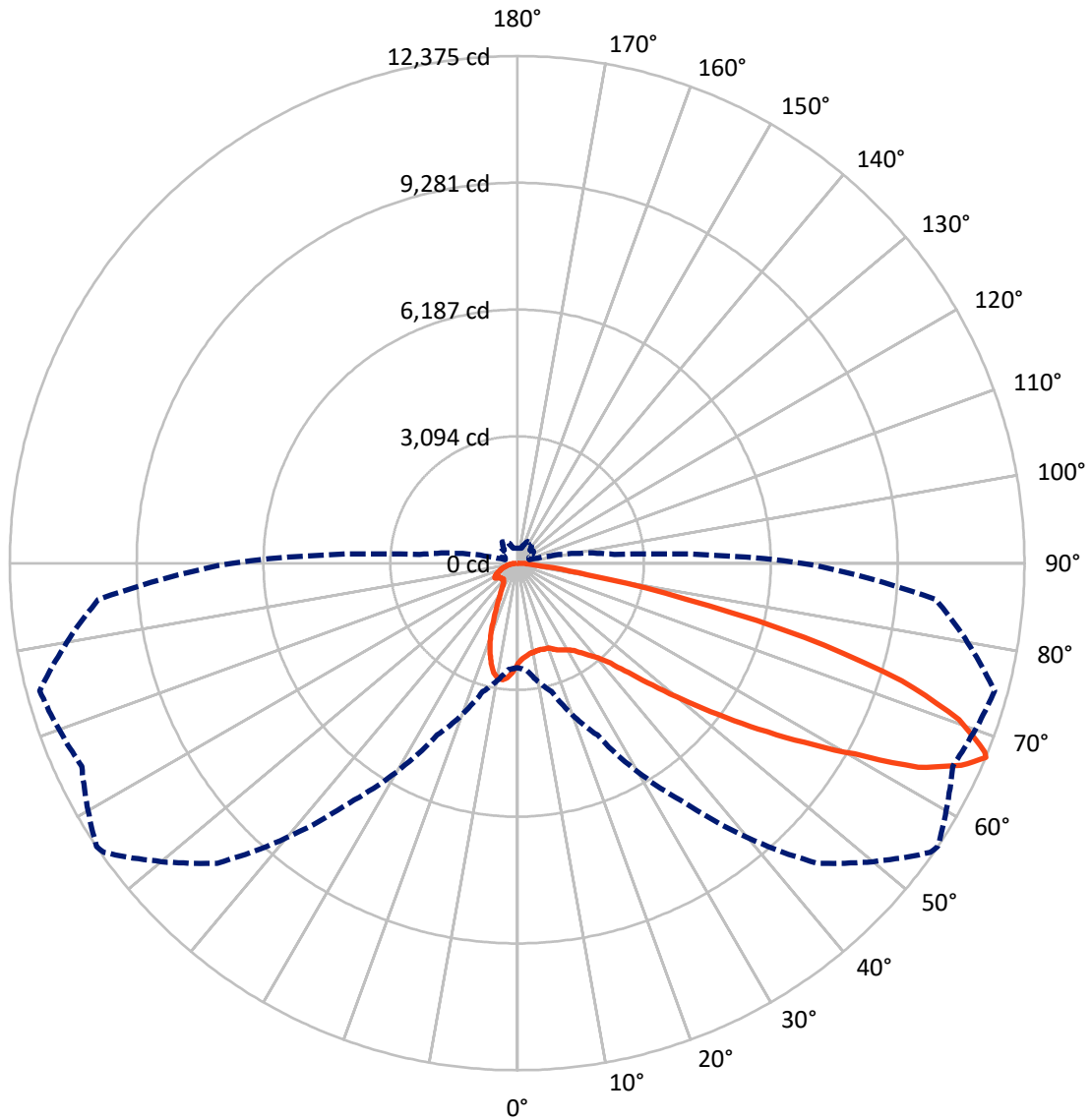
✕ Max cd
 - - - 1/2 Max cd



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 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2487.8	0.0	2487.8
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	13226.7	0.0	13226.7
	% Fixture	84.2	0.0	84.2
Total	Lumens	15714.5	0.0	15714.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.6	1.5
10°-20°	642.6	4.1
20°-30°	1007.8	6.4
30°-40°	1438.7	9.2
40°-50°	2171.4	13.8
50°-60°	3456.5	22.0
60°-70°	4418.9	28.1
70°-80°	2154.5	13.7
80°-90°	188.5	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°	15714.5	100.0
0°-180°	15714.5	100.0

Coefficient of Utilization

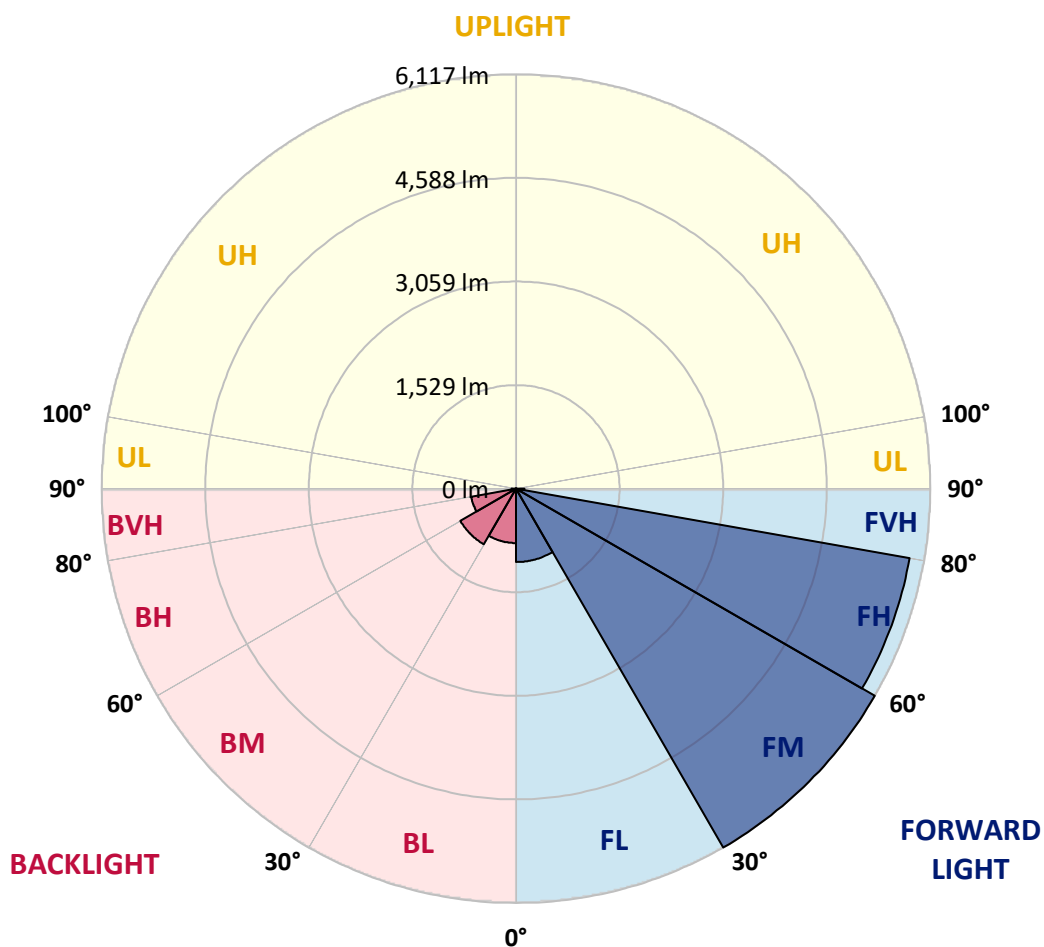


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1082.9	6.9			
FM (30°-60°)	6117.5	38.9			
FH (60°-80°)	5901.1	37.6			G3/7500
FVH (80°-90°)	125.2	0.8			G2/225
BL (0°-30°)	803.1	5.1	B2/1000		
BM (30°-60°)	949.1	6.0	B1/1000		
BH (60°-80°)	672.2	4.3	B2/1000		G2/1000
BVH (80°-90°)	63.3	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°	2445.1	2445.1	2445.1	2445.1	2445.1	2445.1	2445.1	2445.1	2445.1	2445.1
2.5°	2246.1	2236.9	2248.0	2236.9	2286.7	2316.1	2325.4	2338.3	2384.3	2428.5
5°	2152.2	2111.6	2155.8	2170.6	2174.3	2224.0	2275.6	2284.8	2308.8	2380.6
7.5°	1995.5	2041.6	2025.0	2069.2	2115.3	2165.1	2249.8	2225.9	2314.3	2382.5
10°	1962.4	1966.1	1984.5	2001.1	2041.6	2106.1	2224.0	2209.3	2299.6	2445.1
12.5°	1995.5	1995.5	1990.0	1977.1	2023.2	2085.8	2179.8	2187.2	2329.0	2463.6
15°	2111.6	2133.7	2074.8	2084.0	2065.6	2085.8	2168.7	2185.3	2340.1	2478.3
17.5°	2395.4	2388.0	2318.0	2220.3	2139.3	2126.4	2183.5	2201.9	2329.0	2520.7
20°	2671.8	2657.0	2535.4	2434.1	2273.8	2198.2	2207.4	2209.3	2347.5	2548.3
22.5°	2979.5	3018.2	2885.5	2679.1	2480.1	2292.2	2255.3	2284.8	2389.9	2563.1
25°	3462.2	3379.3	3265.1	2994.2	2673.6	2437.8	2334.6	2349.3	2430.4	2599.9
27.5°	3810.5	3777.3	3598.6	3379.3	2944.5	2552.0	2377.0	2404.6	2504.1	2598.1
30°	4145.8	4145.8	4037.1	3709.2	3230.1	2743.6	2467.2	2454.3	2469.1	2594.4
32.5°	4538.3	4484.9	4328.3	4110.8	3589.4	2918.7	2539.1	2542.8	2542.8	2662.6
35°	4744.7	4831.3	4726.3	4372.5	3863.9	3209.8	2712.3	2684.7	2664.4	2738.1
37.5°	5046.9	5098.5	4987.9	4779.7	4204.8	3445.7	2865.2	2843.1	2725.2	2797.1
40°	5229.3	5220.1	5216.4	5120.6	4656.2	3723.9	3090.0	3032.9	2874.5	3005.3
42.5°	5332.5	5314.1	5540.7	5481.7	5081.9	4132.9	3372.0	3340.6	3165.6	3375.6
45°	5448.6	5584.9	5771.0	5936.9	5577.5	4707.8	3849.2	3805.0	3648.3	3915.5
47.5°	5549.9	5717.6	5955.3	6132.2	6025.3	5332.5	4438.8	4449.9	4346.7	4621.2
50°	5719.4	5736.0	6058.5	6415.9	6498.8	5909.2	5231.1	5212.7	5166.6	5551.7
52.5°	5667.8	5717.6	6124.8	6581.8	6718.1	6519.1	6082.4	6137.7	6076.9	6561.5
55°	4827.6	4976.9	6084.3	6756.8	7237.7	7208.2	7176.9	7140.1	7136.4	7696.5
57.5°	4446.2	4567.8	5360.1	6950.3	7794.2	8011.6	8214.3	8254.8	8253.0	8929.2
60°	4195.6	4320.9	5067.1	6845.3	8267.7	9063.7	9452.5	9458.1	9447.0	10246.7
62.5°	3705.5	3827.1	4560.4	6270.4	8398.6	10034.8	10900.8	10972.7	10466.0	11381.7
65°	3115.8	3215.3	3862.1	5391.4	8050.3	10652.1	11989.8	11905.0	11324.6	12030.3
67°	2548.3	2614.6	3244.8	4628.6	7140.1	10355.4	12304.9	12374.9	11720.8	12058.0
67.5°	2386.2	2447.0	3042.1	4368.8	6793.7	10130.6	12315.9	12304.9	11728.1	12063.5
70°	1656.5	1682.3	2072.9	3005.3	5004.5	8558.9	11416.7	11442.5	11236.2	11409.4
72.5°	1098.2	1136.9	1385.6	1894.2	2950.0	6228.0	9542.8	9819.2	9688.4	9354.9
75°	707.6	729.7	906.6	1127.7	1452.0	3547.0	7049.8	7234.0	6933.7	5785.8
77.5°	396.2	420.1	547.3	685.4	707.6	1475.9	3959.7	4188.2	3548.8	2458.0
80°	246.9	278.2	412.7	407.2	337.2	541.7	1632.5	1748.6	1418.8	845.8
82.5°	186.1	210.1	318.8	285.6	189.8	241.4	611.7	656.0	519.6	326.1
85°	127.1	160.3	230.3	176.9	99.5	116.1	243.2	261.6	237.7	158.5
87.5°	46.1	68.2	119.8	88.4	44.2	35.0	79.2	88.4	84.8	71.9
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°
2445.1	0°	2445.1	2445.1	2445.1	2445.1	2445.1	2445.1	2445.1	2445.1	2445.1	2445.1
2467.2	2.5°	2502.2	2528.0	2540.9	2616.5	2647.8	2642.3	2649.7	2660.7	2671.8	2686.5
2498.6	5°	2522.5	2601.7	2644.1	2732.6	2791.5	2765.7	2798.9	2789.7	2776.8	2775.0
2555.7	7.5°	2588.9	2690.2	2817.3	2841.3	2867.1	2802.6	2747.3	2671.8	2653.3	2588.9
2603.6	10°	2706.8	2789.7	2944.5	2953.7	2839.4	2673.6	2550.2	2393.5	2391.7	2297.7
2677.3	12.5°	2819.2	2913.1	3038.4	2985.0	2712.3	2485.7	2284.8	2113.5	2041.6	1993.7
2721.5	15°	2889.2	3044.0	3110.3	2880.0	2489.4	2183.5	1923.7	1739.4	1665.7	1630.7
2776.8	17.5°	2953.7	3169.3	3139.8	2695.7	2214.8	1872.1	1562.5	1402.2	1381.9	1356.2
2865.2	20°	3042.1	3215.3	3034.8	2456.2	1903.4	1470.4	1273.2	1195.8	1214.3	1225.3
2874.5	22.5°	3125.0	3239.3	2902.1	2194.5	1503.6	1164.5	1066.9	1083.4	1111.1	1147.9
2896.6	25°	3161.9	3278.0	2723.4	1833.4	1144.3	980.3	958.2	985.8	1031.9	1033.7
2927.9	27.5°	3185.9	3250.3	2507.8	1481.4	904.7	856.8	890.0	910.2	915.8	937.9
2994.2	30°	3228.2	3193.2	2235.1	1059.5	759.2	761.0	803.4	803.4	803.4	820.0
3060.6	32.5°	3301.9	3154.5	1916.3	773.9	654.1	713.1	702.0	698.3	691.0	670.7
3145.3	35°	3348.0	3049.5	1512.8	573.0	587.8	654.1	650.4	593.3	497.5	449.6
3360.9	37.5°	3443.8	2996.1	1112.9	442.2	549.1	624.6	604.4	466.2	361.1	315.1
3628.1	40°	3650.2	2961.1	770.2	386.9	523.3	609.9	539.9	398.0	276.4	195.3
4040.8	42.5°	3902.6	2962.9	523.3	364.8	525.1	641.2	519.6	340.9	195.3	156.6
4591.8	45°	4241.7	2935.3	359.3	364.8	558.3	692.8	532.5	309.6	189.8	199.0
5282.7	47.5°	4606.5	2959.2	267.2	331.7	563.8	694.7	486.4	304.0	182.4	230.3
6034.5	50°	5032.1	2983.2	221.1	305.9	565.7	672.5	447.8	296.7	189.8	243.2
6896.8	52.5°	5470.7	3058.7	187.9	289.3	587.8	663.3	447.8	307.7	189.8	211.9
7995.0	55°	6124.8	3252.2	270.9	361.1	668.9	724.1	550.9	431.2	265.3	272.7
9047.2	57.5°	6847.1	3451.2	302.2	379.6	687.3	652.3	593.3	475.4	280.1	281.9
9865.3	60°	7322.5	3458.6	300.3	370.4	643.1	563.8	580.4	501.2	285.6	241.4
10372.0	62.5°	7512.3	3233.8	313.2	370.4	598.8	527.0	595.2	539.9	294.8	302.2
10515.7	65°	7296.7	2769.4	302.2	331.7	527.0	471.7	598.8	547.3	322.5	304.0
10257.7	67°	6959.5	2386.2	307.7	315.1	490.1	447.8	630.2	574.9	374.0	364.8
10123.2	67.5°	6863.7	2284.8	305.9	305.9	477.2	440.4	637.5	574.9	381.4	377.7
8934.8	70°	6049.3	1851.8	313.2	302.2	422.0	418.3	678.1	606.2	438.5	442.2
6563.3	72.5°	4604.7	1404.1	311.4	302.2	366.7	399.8	683.6	626.5	477.2	442.2
3676.0	75°	2616.5	840.2	274.5	263.5	289.3	348.3	639.4	597.0	464.3	396.2
1468.6	77.5°	1081.6	433.0	252.4	237.7	239.5	283.8	532.5	556.5	442.2	337.2
490.1	80°	403.5	259.8	202.7	189.8	184.3	208.2	379.6	444.1	377.7	276.4
215.6	82.5°	210.1	162.1	138.2	138.2	125.3	132.7	204.5	294.8	285.6	189.8
86.6	85°	106.9	92.1	79.2	77.4	70.0	62.6	103.2	175.0	164.0	105.0
38.7	87.5°	57.1	51.6	33.2	31.3	25.8	16.6	18.4	35.0	57.1	46.1
0.0	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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180°
2445.1
2701.2
2791.5
2611.0
2294.0
1982.6
1623.3
1369.1
1212.4
1127.7
1052.1
958.2
838.4
659.7
471.7
313.2
189.8
152.9
202.7
256.1
281.9
217.4
287.4
272.7
248.8
305.9
298.5
359.3
370.4
409.1
392.5
353.8
318.8
252.4
149.3
86.6
33.2
0.0

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