

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: P477648

Luminaire Tested: **IFLD-S-SA2E-727-U-T3R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P477648
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-727-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens
Light Source: (32) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

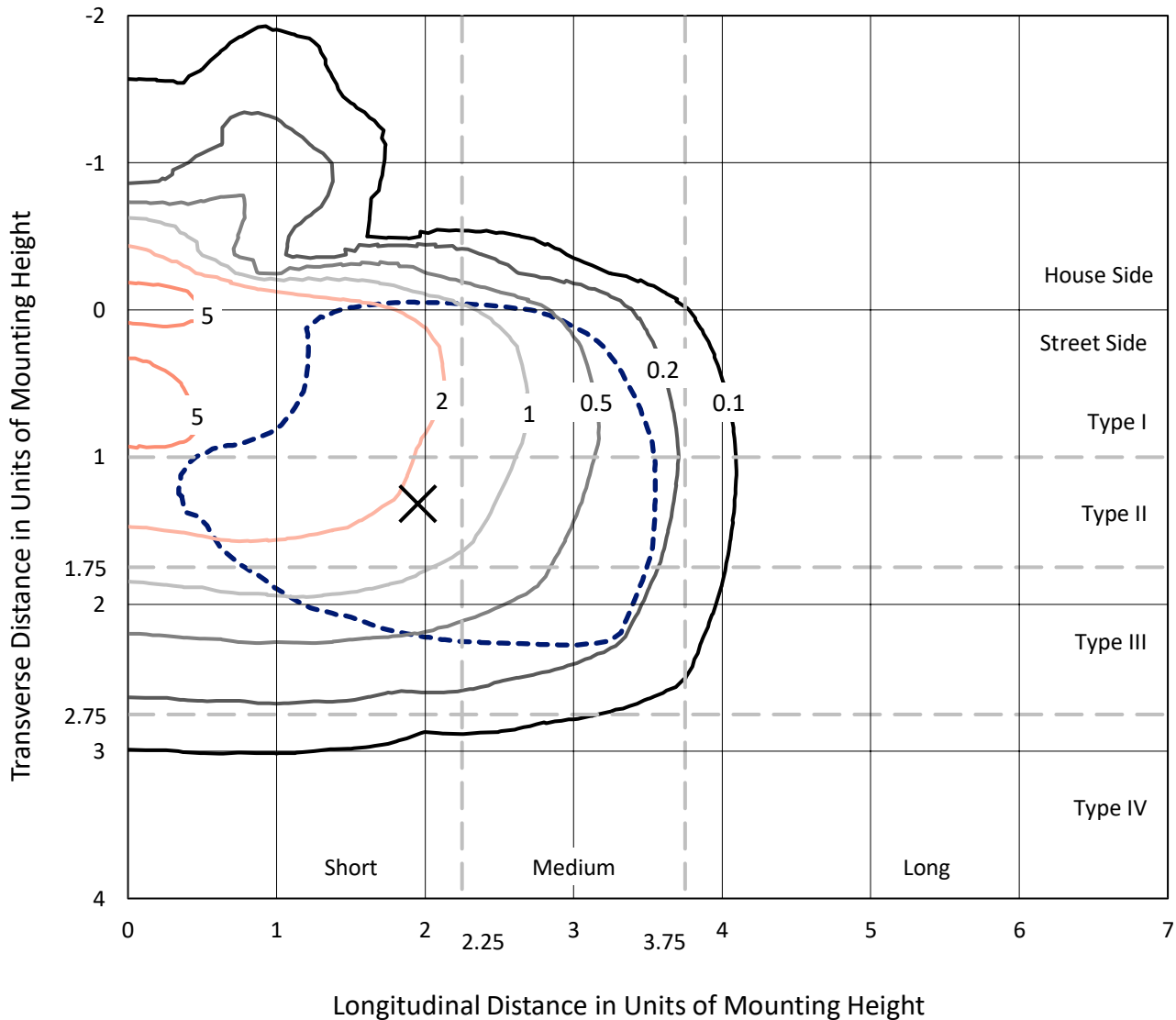
Lumens per Lamp: N/A
Luminaire Lumens: 14868.5 lumens
Efficiency: N/A
Efficacy: 95.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 156.2
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

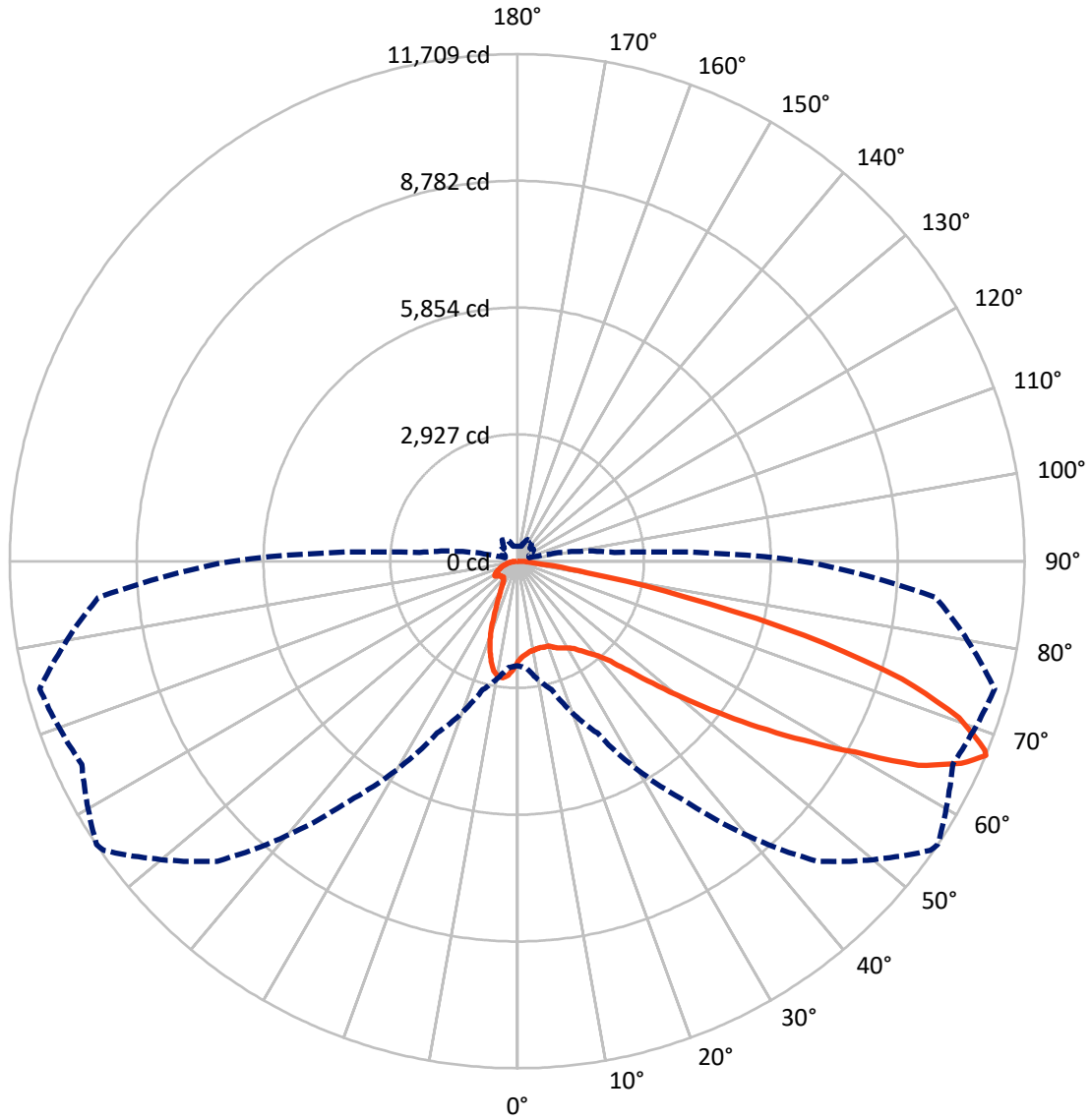
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.4 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	2353.8	0.0	2353.8
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	12514.7	0.0	12514.7
	% Fixture	84.2	0.0	84.2
Total	Lumens	14868.5	0.0	14868.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.9	1.5
10°-20°	608.0	4.1
20°-30°	953.6	6.4
30°-40°	1361.2	9.2
40°-50°	2054.5	13.8
50°-60°	3270.4	22.0
60°-70°	4181.0	28.1
70°-80°	2038.5	13.7
80°-90°	178.3	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°	14868.5	100.0
0°-180°	14868.5	100.0

Coefficient of Utilization

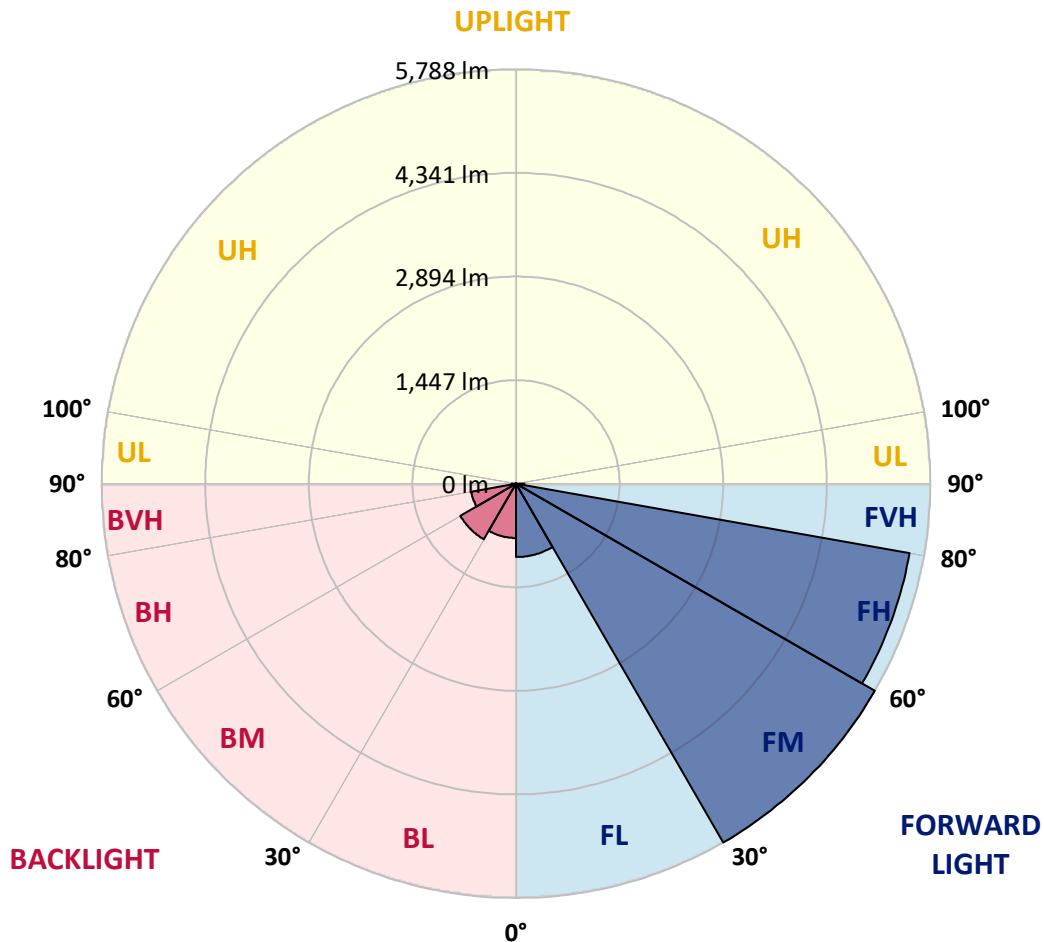


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1024.6	6.9			
FM (30°-60°)	5788.2	38.9			
FH (60°-80°)	5583.5	37.6			G3/7500
FVH (80°-90°)	118.4	0.8			G2/225
BL (0°-30°)	759.9	5.1	B2/1000		
BM (30°-60°)	898.0	6.0	B1/1000		
BH (60°-80°)	636.0	4.3	B2/1000		G2/1000
BVH (80°-90°)	59.9	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°	2313.5	2313.5	2313.5	2313.5	2313.5	2313.5	2313.5	2313.5	2313.5	2313.5
2.5°	2125.2	2116.5	2127.0	2116.5	2163.6	2191.5	2200.2	2212.4	2256.0	2297.8
5°	2036.3	1997.9	2039.8	2053.7	2057.2	2104.3	2153.1	2161.8	2184.5	2252.5
7.5°	1888.1	1931.7	1916.0	1957.8	2001.4	2048.5	2128.7	2106.0	2189.7	2254.2
10°	1856.7	1860.2	1877.7	1893.3	1931.7	1992.7	2104.3	2090.3	2175.8	2313.5
12.5°	1888.1	1888.1	1882.9	1870.7	1914.3	1973.5	2062.5	2069.4	2203.7	2330.9
15°	1997.9	2018.9	1963.1	1971.8	1954.4	1973.5	2052.0	2067.7	2214.1	2344.9
17.5°	2266.4	2259.5	2193.2	2100.8	2024.1	2011.9	2065.9	2083.4	2203.7	2385.0
20°	2527.9	2514.0	2398.9	2303.0	2151.4	2079.9	2088.6	2090.3	2221.1	2411.1
22.5°	2819.1	2855.7	2730.2	2534.9	2346.6	2168.8	2133.9	2161.8	2261.2	2425.1
25°	3275.9	3197.4	3089.3	2833.0	2529.7	2306.5	2208.9	2222.8	2299.6	2460.0
27.5°	3605.4	3574.0	3404.9	3197.4	2786.0	2414.6	2249.0	2275.1	2369.3	2458.2
30°	3922.7	3922.7	3819.8	3509.5	3056.2	2595.9	2334.4	2322.2	2336.2	2454.7
32.5°	4294.0	4243.5	4095.3	3889.5	3396.2	2761.6	2402.4	2405.9	2405.9	2519.2
35°	4489.3	4571.2	4471.8	4137.1	3655.9	3037.0	2566.3	2540.1	2521.0	2590.7
37.5°	4775.2	4824.0	4719.4	4522.4	3978.5	3260.2	2711.0	2690.1	2578.5	2646.5
40°	4947.8	4939.1	4935.6	4844.9	4405.6	3523.4	2923.7	2869.7	2719.7	2843.5
42.5°	5045.4	5028.0	5242.4	5186.6	4808.3	3910.5	3190.4	3160.8	2995.2	3193.9
45°	5155.3	5284.3	5460.4	5617.3	5277.3	4454.4	3642.0	3600.1	3452.0	3704.7
47.5°	5251.2	5409.8	5634.7	5802.1	5701.0	5045.4	4199.9	4210.3	4112.7	4372.5
50°	5411.5	5427.2	5732.3	6070.6	6149.0	5591.1	4949.5	4932.1	4888.5	5252.9
52.5°	5362.7	5409.8	5795.1	6227.5	6356.5	6168.2	5755.0	5807.3	5749.8	6208.3
55°	4567.7	4709.0	5756.7	6393.1	6848.1	6820.2	6790.6	6755.7	6752.2	7282.2
57.5°	4206.8	4321.9	5071.6	6576.1	7374.6	7580.3	7772.1	7810.5	7808.7	8448.6
60°	3969.7	4088.3	4794.4	6476.8	7822.7	8575.8	8943.7	8948.9	8938.5	9695.1
62.5°	3506.0	3621.1	4314.9	5932.8	7946.5	9494.6	10314.0	10382.0	9902.6	10769.0
65°	2948.1	3042.3	3654.2	5101.2	7617.0	10078.7	11344.4	11264.2	10715.0	11382.7
67°	2411.1	2473.9	3070.1	4379.4	6755.7	9798.0	11642.5	11708.7	11089.8	11408.9
67.5°	2257.7	2315.2	2878.4	4133.6	6428.0	9585.3	11653.0	11642.5	11096.8	11414.1
70°	1567.3	1591.7	1961.3	2843.5	4735.1	8098.1	10802.2	10826.6	10631.3	10795.2
72.5°	1039.1	1075.7	1311.0	1792.2	2791.2	5892.7	9029.1	9290.6	9166.8	8851.3
75°	669.5	690.4	857.8	1067.0	1373.8	3356.1	6670.3	6844.6	6560.5	5474.3
77.5°	374.8	397.5	517.8	648.5	669.5	1396.5	3746.6	3962.8	3357.8	2325.7
80°	233.6	263.3	390.5	385.3	319.0	512.6	1544.7	1654.5	1342.4	800.2
82.5°	176.1	198.7	301.6	270.2	179.6	228.4	578.8	620.7	491.6	308.6
85°	120.3	151.7	217.9	167.4	94.1	109.8	230.1	247.6	224.9	149.9
87.5°	43.6	64.5	113.3	83.7	41.8	33.1	75.0	83.7	80.2	68.0
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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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2313.5	0°	2313.5	2313.5	2313.5	2313.5	2313.5	2313.5	2313.5	2313.5	2313.5	2313.5
2334.4	2.5°	2367.6	2392.0	2404.2	2475.6	2505.3	2500.0	2507.0	2517.5	2527.9	2541.9
2364.1	5°	2386.7	2461.7	2501.8	2585.5	2641.3	2616.9	2648.2	2639.5	2627.3	2625.6
2418.1	7.5°	2449.5	2545.4	2665.7	2688.3	2712.7	2651.7	2599.4	2527.9	2510.5	2449.5
2463.4	10°	2561.1	2639.5	2786.0	2794.7	2686.6	2529.7	2412.9	2264.7	2262.9	2174.0
2533.2	12.5°	2667.4	2756.3	2874.9	2824.3	2566.3	2351.9	2161.8	1999.7	1931.7	1886.4
2575.0	15°	2733.7	2880.1	2942.9	2724.9	2355.3	2065.9	1820.1	1645.8	1576.0	1542.9
2627.3	17.5°	2794.7	2998.7	2970.8	2550.6	2095.6	1771.3	1478.4	1326.7	1307.6	1283.1
2711.0	20°	2878.4	3042.3	2871.4	2324.0	1800.9	1391.2	1204.7	1131.5	1148.9	1159.4
2719.7	22.5°	2956.8	3064.9	2745.9	2076.4	1422.6	1101.8	1009.4	1025.1	1051.3	1086.1
2740.6	25°	2991.7	3101.5	2576.8	1734.7	1082.7	927.5	906.6	932.7	976.3	978.1
2770.3	27.5°	3014.4	3075.4	2372.8	1401.7	856.0	810.7	842.1	861.2	866.5	887.4
2833.0	30°	3054.5	3021.3	2114.8	1002.5	718.3	720.0	760.1	760.1	760.1	775.8
2895.8	32.5°	3124.2	2984.7	1813.1	732.2	618.9	674.7	664.2	660.8	653.8	634.6
2976.0	35°	3167.8	2885.3	1431.3	542.2	556.1	618.9	615.4	561.4	470.7	425.4
3180.0	37.5°	3258.4	2834.8	1053.0	418.4	519.5	591.0	571.8	441.1	341.7	298.1
3432.8	40°	3453.7	2801.7	728.7	366.1	495.1	577.1	510.8	376.6	261.5	184.8
3823.3	42.5°	3692.5	2803.4	495.1	345.2	496.9	606.7	491.6	322.5	184.8	148.2
4344.6	45°	4013.3	2777.3	340.0	345.2	528.3	655.5	503.8	292.9	179.6	188.3
4998.4	47.5°	4358.5	2799.9	252.8	313.8	533.5	657.3	460.3	287.7	172.6	217.9
5709.7	50°	4761.3	2822.6	209.2	289.4	535.2	636.3	423.6	280.7	179.6	230.1
6525.6	52.5°	5176.2	2894.1	177.8	273.7	556.1	627.6	423.6	291.1	179.6	200.5
7564.7	55°	5795.1	3077.1	256.3	341.7	632.9	685.2	521.3	408.0	251.1	258.0
8560.1	57.5°	6478.5	3265.4	285.9	359.1	650.3	617.2	561.4	449.8	265.0	266.7
9334.2	60°	6928.3	3272.4	284.2	350.4	608.5	533.5	549.2	474.2	270.2	228.4
9813.7	62.5°	7107.9	3059.7	296.4	350.4	566.6	498.6	563.1	510.8	278.9	285.9
9949.6	65°	6903.9	2620.3	285.9	313.8	498.6	446.3	566.6	517.8	305.1	287.7
9705.6	67°	6584.9	2257.7	291.1	298.1	463.7	423.6	596.2	543.9	353.9	345.2
9578.3	67.5°	6494.2	2161.8	289.4	289.4	451.5	416.7	603.2	543.9	360.9	357.4
8453.8	70°	5723.6	1752.1	296.4	285.9	399.2	395.8	641.6	573.6	414.9	418.4
6210.0	72.5°	4356.8	1328.5	294.6	285.9	346.9	378.3	646.8	592.8	451.5	418.4
3478.1	75°	2475.6	795.0	259.8	249.3	273.7	329.5	605.0	564.9	439.3	374.8
1389.5	77.5°	1023.4	409.7	238.8	224.9	226.6	268.5	503.8	526.5	418.4	319.0
463.7	80°	381.8	245.8	191.8	179.6	174.3	197.0	359.1	420.2	357.4	261.5
204.0	82.5°	198.7	153.4	130.8	130.8	118.6	125.5	193.5	278.9	270.2	179.6
81.9	85°	101.1	87.2	75.0	73.2	66.2	59.3	97.6	165.6	155.2	99.4
36.6	87.5°	54.0	48.8	31.4	29.6	24.4	15.7	17.4	33.1	54.0	43.6
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>
2313.5
2555.8
2641.3
2470.4
2170.5
1875.9
1535.9
1295.4
1147.2
1067.0
995.5
906.6
793.3
624.1
446.3
296.4
179.6
144.7
191.8
242.3
266.7
205.7
272.0
258.0
235.4
289.4
282.4
340.0
350.4
387.0
371.3
334.7
301.6
238.8
141.2
81.9
31.4
0.0

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