

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: P477764

Luminaire Tested: **IFLD-S-SA2D-740-U-T3R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P477764
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-740-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

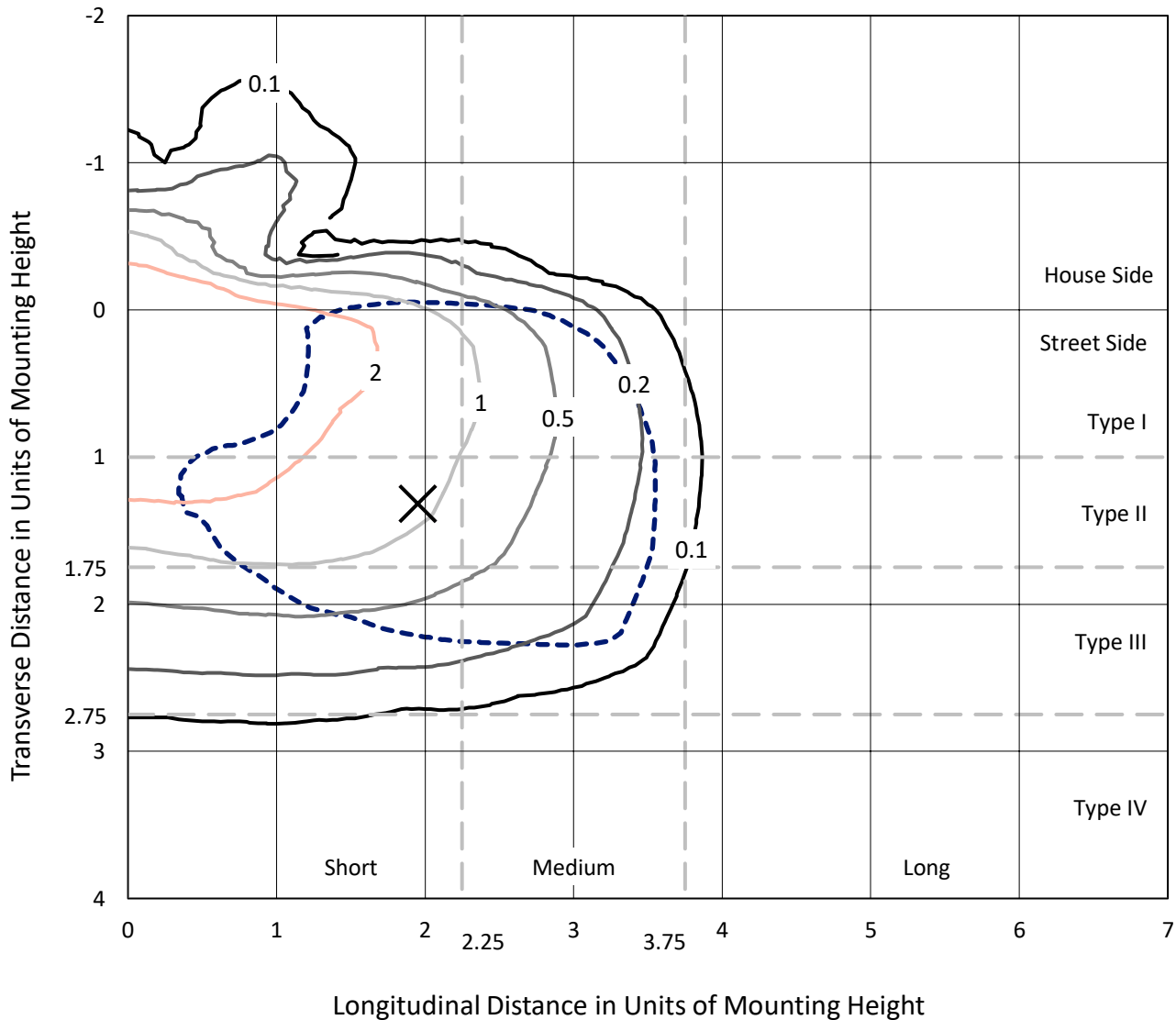
Lumens per Lamp: N/A
Luminaire Lumens: 15362.6 lumens
Efficiency: N/A
Efficacy: 124.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 123.9
Input Voltage (V): 120
Input Current (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

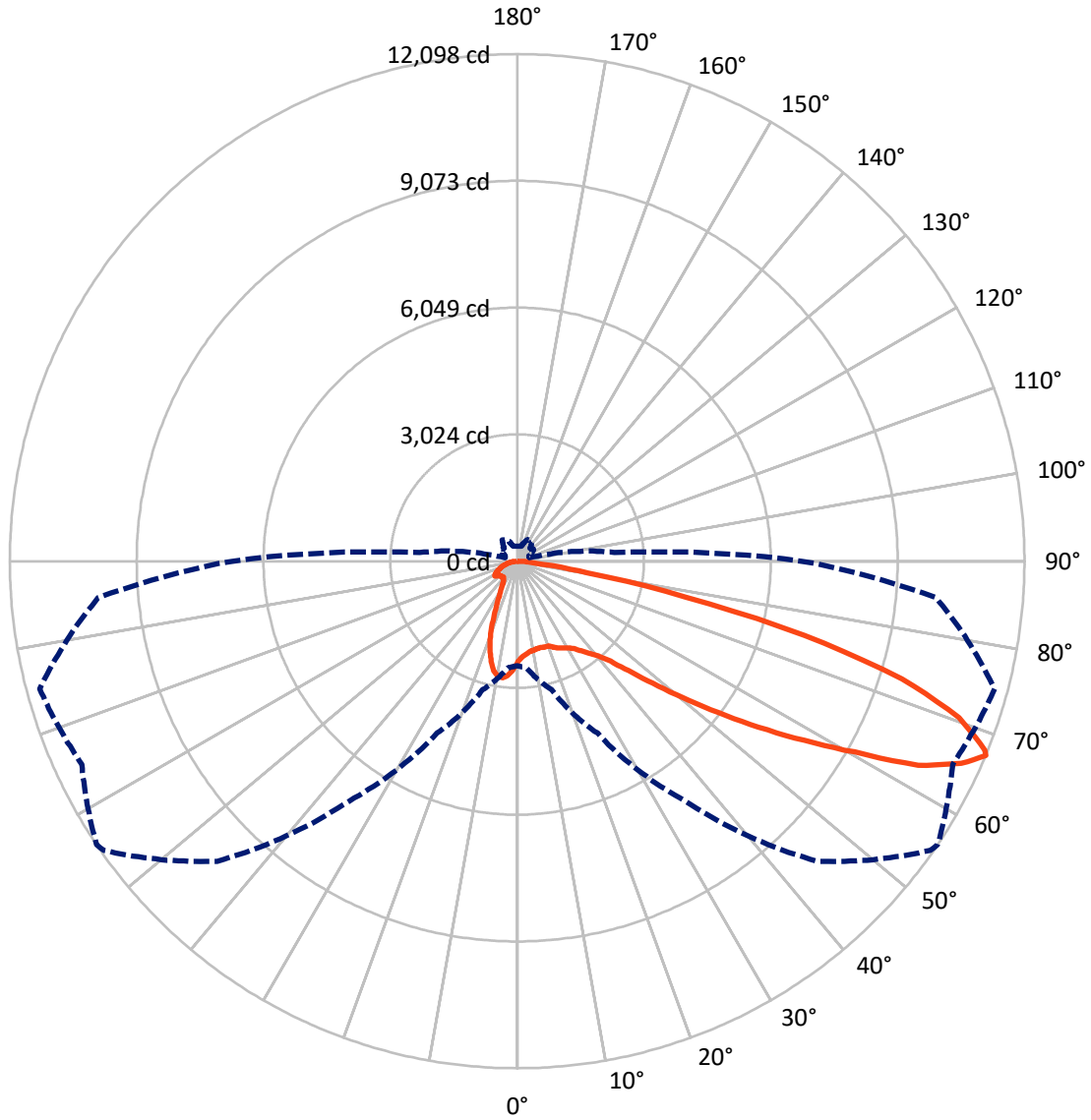
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 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	2432.1	0.0	2432.1
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	12930.6	0.0	12930.6
	% Fixture	84.2	0.0	84.2
Total	Lumens	15362.6	0.0	15362.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.3	1.5
10°-20°	628.2	4.1
20°-30°	985.3	6.4
30°-40°	1406.5	9.2
40°-50°	2122.8	13.8
50°-60°	3379.1	22.0
60°-70°	4319.9	28.1
70°-80°	2106.3	13.7
80°-90°	184.3	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°	15362.6	100.0
0°-180°	15362.6	100.0

Coefficient of Utilization

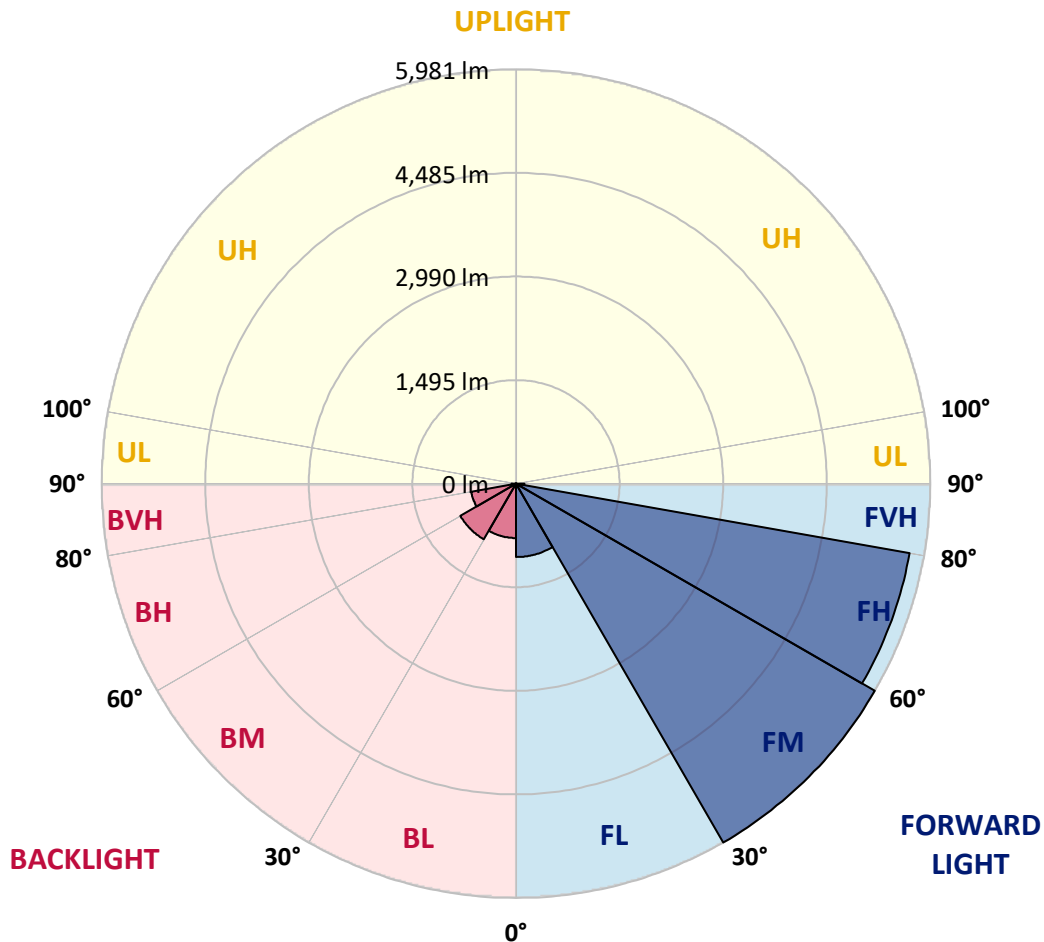


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1058.7	6.9			
FM (30°-60°)	5980.5	38.9			
FH (60°-80°)	5769.0	37.6			G3/7500
FVH (80°-90°)	122.4	0.8			G2/225
BL (0°-30°)	785.1	5.1	B2/1000		
BM (30°-60°)	927.9	6.0	B1/1000		
BH (60°-80°)	657.2	4.3	B2/1000		G2/1000
BVH (80°-90°)	61.9	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°	2390.4	2390.4	2390.4	2390.4	2390.4	2390.4	2390.4	2390.4	2390.4	2390.4
2.5°	2195.8	2186.8	2197.6	2186.8	2235.5	2264.3	2273.3	2285.9	2330.9	2374.2
5°	2104.0	2064.3	2107.6	2122.0	2125.6	2174.2	2224.7	2233.7	2257.1	2327.3
7.5°	1950.9	1995.9	1979.7	2022.9	2067.9	2116.6	2199.4	2176.0	2262.5	2329.1
10°	1918.4	1922.0	1940.1	1956.3	1995.9	2058.9	2174.2	2159.8	2248.1	2390.4
12.5°	1950.9	1950.9	1945.5	1932.8	1977.9	2039.1	2131.0	2138.2	2276.9	2408.4
15°	2064.3	2086.0	2028.3	2037.3	2019.3	2039.1	2120.2	2136.4	2287.7	2422.8
17.5°	2341.8	2334.5	2266.1	2170.6	2091.4	2078.8	2134.6	2152.6	2276.9	2464.2
20°	2612.0	2597.5	2478.7	2379.6	2222.9	2149.0	2158.0	2159.8	2294.9	2491.3
22.5°	2912.8	2950.6	2820.9	2619.2	2424.6	2240.9	2204.8	2233.7	2336.3	2505.7
25°	3384.7	3303.7	3192.0	2927.2	2613.8	2383.2	2282.3	2296.7	2376.0	2541.7
27.5°	3725.2	3692.8	3518.0	3303.7	2878.6	2494.9	2323.7	2350.8	2448.0	2539.9
30°	4053.0	4053.0	3946.8	3626.1	3157.8	2682.2	2412.0	2399.4	2413.8	2536.3
32.5°	4436.7	4384.5	4231.4	4018.8	3509.0	2853.3	2482.3	2485.9	2485.9	2602.9
35°	4638.5	4723.1	4620.5	4274.6	3777.4	3137.9	2651.6	2624.6	2604.7	2676.8
37.5°	4933.9	4984.3	4876.2	4672.7	4110.7	3368.5	2801.1	2779.5	2664.2	2734.4
40°	5112.2	5103.2	5099.6	5005.9	4552.0	3640.5	3020.9	2965.0	2810.1	2938.0
42.5°	5213.1	5195.1	5416.7	5359.0	4968.1	4040.4	3296.5	3265.8	3094.7	3300.1
45°	5326.6	5459.9	5641.8	5803.9	5452.7	4602.4	3763.0	3719.8	3566.7	3827.9
47.5°	5425.7	5589.6	5822.0	5994.9	5890.4	5213.1	4339.4	4350.3	4249.4	4517.8
50°	5591.4	5607.6	5922.8	6272.3	6353.4	5776.9	5114.0	5096.0	5051.0	5427.5
52.5°	5540.9	5589.6	5987.7	6434.4	6567.7	6373.2	5946.2	6000.3	5940.8	6414.6
55°	4719.5	4865.4	5948.1	6605.5	7075.7	7046.9	7016.2	6980.2	6976.6	7524.2
57.5°	4346.7	4465.5	5240.1	6794.7	7619.7	7832.3	8030.4	8070.0	8068.2	8729.3
60°	4101.7	4224.2	4953.7	6692.0	8082.6	8860.8	9240.9	9246.3	9235.5	10017.3
62.5°	3622.5	3741.4	4458.3	6130.0	8210.5	9810.1	10656.8	10727.0	10231.7	11126.9
65°	3046.1	3143.4	3775.6	5270.7	7870.1	10413.6	11721.4	11638.5	11071.1	11761.0
67°	2491.3	2556.1	3172.2	4525.0	6980.2	10123.6	12029.4	12097.9	11458.4	11788.0
67.5°	2332.7	2392.2	2974.0	4271.0	6641.6	9903.8	12040.2	12029.4	11465.6	11793.4
70°	1619.4	1644.6	2026.5	2938.0	4892.5	8367.3	11161.2	11186.4	10984.6	11153.9
72.5°	1073.6	1111.4	1354.6	1851.8	2884.0	6088.6	9329.2	9599.4	9471.5	9145.4
75°	691.7	713.3	886.3	1102.4	1419.5	3467.6	6892.0	7072.1	6778.5	5656.2
77.5°	387.3	410.7	535.0	670.1	691.7	1442.9	3871.1	4094.5	3469.4	2403.0
80°	241.4	272.0	403.5	398.1	329.6	529.6	1596.0	1709.5	1387.0	826.8
82.5°	181.9	205.4	311.6	279.2	185.5	236.0	598.0	641.3	508.0	318.8
85°	124.3	156.7	225.2	172.9	97.3	113.5	237.8	255.8	232.4	154.9
87.5°	45.0	66.6	117.1	86.5	43.2	34.2	77.5	86.5	82.9	70.3
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°
2390.4	0°	2390.4	2390.4	2390.4	2390.4	2390.4	2390.4	2390.4	2390.4	2390.4	2390.4
2412.0	2.5°	2446.2	2471.4	2484.1	2557.9	2588.5	2583.1	2590.3	2601.1	2612.0	2626.4
2442.6	5°	2466.0	2543.5	2584.9	2671.4	2729.0	2703.8	2736.2	2727.2	2714.6	2712.8
2498.5	7.5°	2530.9	2630.0	2754.3	2777.7	2802.9	2739.8	2685.8	2612.0	2593.9	2530.9
2545.3	10°	2646.2	2727.2	2878.6	2887.6	2775.9	2613.8	2493.1	2340.0	2338.1	2246.3
2617.4	12.5°	2756.1	2847.9	2970.4	2918.2	2651.6	2430.0	2233.7	2066.1	1995.9	1949.1
2660.6	15°	2824.5	2975.8	3040.7	2815.5	2433.6	2134.6	1880.6	1700.5	1628.4	1594.2
2714.6	17.5°	2887.6	3098.3	3069.5	2635.4	2165.2	1830.2	1527.5	1370.8	1351.0	1325.8
2801.1	20°	2974.0	3143.4	2966.8	2401.2	1860.8	1437.5	1244.7	1169.1	1187.1	1197.9
2810.1	22.5°	3055.1	3166.8	2837.1	2145.4	1469.9	1138.5	1043.0	1059.2	1086.2	1122.2
2831.7	25°	3091.1	3204.6	2662.4	1792.3	1118.6	958.3	936.7	963.7	1008.8	1010.6
2862.3	27.5°	3114.5	3177.6	2451.6	1448.3	884.5	837.6	870.1	889.9	895.3	916.9
2927.2	30°	3156.0	3121.7	2185.0	1035.8	742.2	744.0	785.4	785.4	785.4	801.6
2992.0	32.5°	3228.0	3083.9	1873.4	756.6	639.5	697.1	686.3	682.7	675.5	655.7
3074.9	35°	3273.0	2981.2	1478.9	560.2	574.6	639.5	635.9	580.0	486.4	439.5
3285.7	37.5°	3366.7	2929.0	1088.0	432.3	536.8	610.7	590.8	455.7	353.1	308.0
3546.9	40°	3568.5	2894.8	753.0	378.3	511.6	596.2	527.8	389.1	270.2	190.9
3950.4	42.5°	3815.3	2896.6	511.6	356.7	513.4	626.9	508.0	333.2	190.9	153.1
4489.0	45°	4146.7	2869.5	351.3	356.7	545.8	677.3	520.6	302.6	185.5	194.5
5164.5	47.5°	4503.4	2893.0	261.2	324.2	551.2	679.1	475.6	297.2	178.3	225.2
5899.4	50°	4919.5	2916.4	216.2	299.0	553.0	657.5	437.7	290.0	185.5	237.8
6742.4	52.5°	5348.2	2990.2	183.7	282.8	574.6	648.5	437.7	300.8	185.5	207.2
7816.0	55°	5987.7	3179.4	264.8	353.1	653.9	707.9	538.6	421.5	259.4	266.6
8844.6	57.5°	6693.8	3373.9	295.4	371.1	671.9	637.7	580.0	464.7	273.8	275.6
9644.4	60°	7158.6	3381.1	293.6	362.1	628.7	551.2	567.4	490.0	279.2	236.0
10139.8	62.5°	7344.1	3161.4	306.2	362.1	585.4	515.2	581.8	527.8	288.2	295.4
10280.3	65°	7133.3	2707.4	295.4	324.2	515.2	461.1	585.4	535.0	315.2	297.2
10028.1	67°	6803.7	2332.7	300.8	308.0	479.2	437.7	616.1	562.0	365.7	356.7
9896.6	67.5°	6710.0	2233.7	299.0	299.0	466.5	430.5	623.3	562.0	372.9	369.3
8734.7	70°	5913.8	1810.4	306.2	295.4	412.5	408.9	662.9	592.6	428.7	432.3
6416.4	72.5°	4501.6	1372.6	304.4	295.4	358.5	390.9	668.3	612.5	466.5	432.3
3593.7	75°	2557.9	821.4	268.4	257.6	282.8	340.5	625.1	583.6	453.9	387.3
1435.7	77.5°	1057.4	423.3	246.8	232.4	234.2	277.4	520.6	544.0	432.3	329.6
479.2	80°	394.5	254.0	198.1	185.5	180.1	203.6	371.1	434.1	369.3	270.2
210.8	82.5°	205.4	158.5	135.1	135.1	122.5	129.7	199.9	288.2	279.2	185.5
84.7	85°	104.5	90.1	77.5	75.7	68.5	61.2	100.9	171.1	160.3	102.7
37.8	87.5°	55.8	50.4	32.4	30.6	25.2	16.2	18.0	34.2	55.8	45.0
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>
2390.4
2640.8
2729.0
2552.5
2242.7
1938.3
1587.0
1338.4
1185.3
1102.4
1028.6
936.7
819.6
644.9
461.1
306.2
185.5
149.5
198.1
250.4
275.6
212.6
281.0
266.6
243.2
299.0
291.8
351.3
362.1
399.9
383.7
345.9
311.6
246.8
145.9
84.7
32.4
0.0

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