

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: P477632

Luminaire Tested: **IFLD-M-SA4C-722-U-T3R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477632
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-722-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

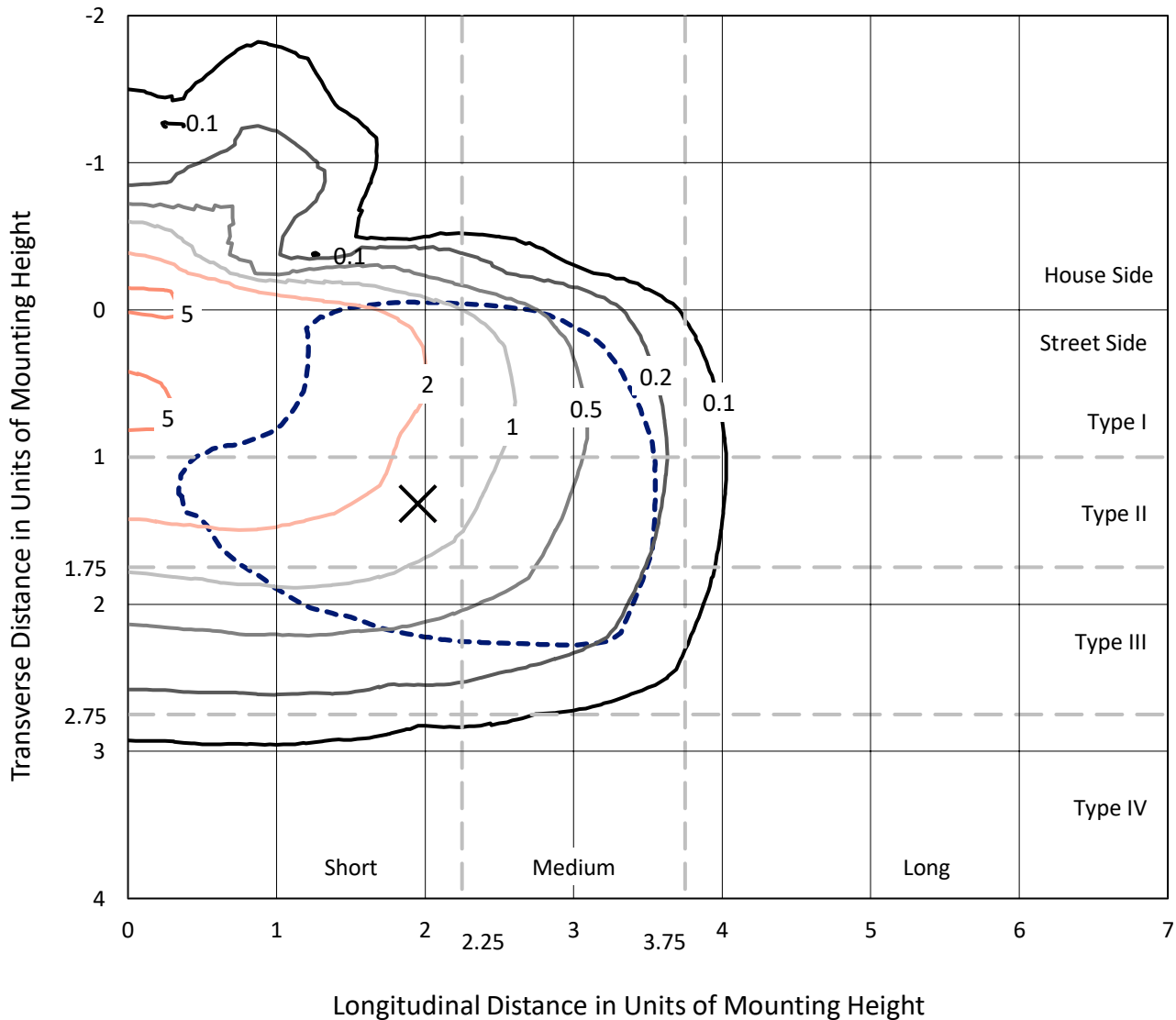
Lumens per Lamp: N/A
Luminaire Lumens: 20572 lumens
Efficiency: N/A
Efficacy: 94.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 218.1
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

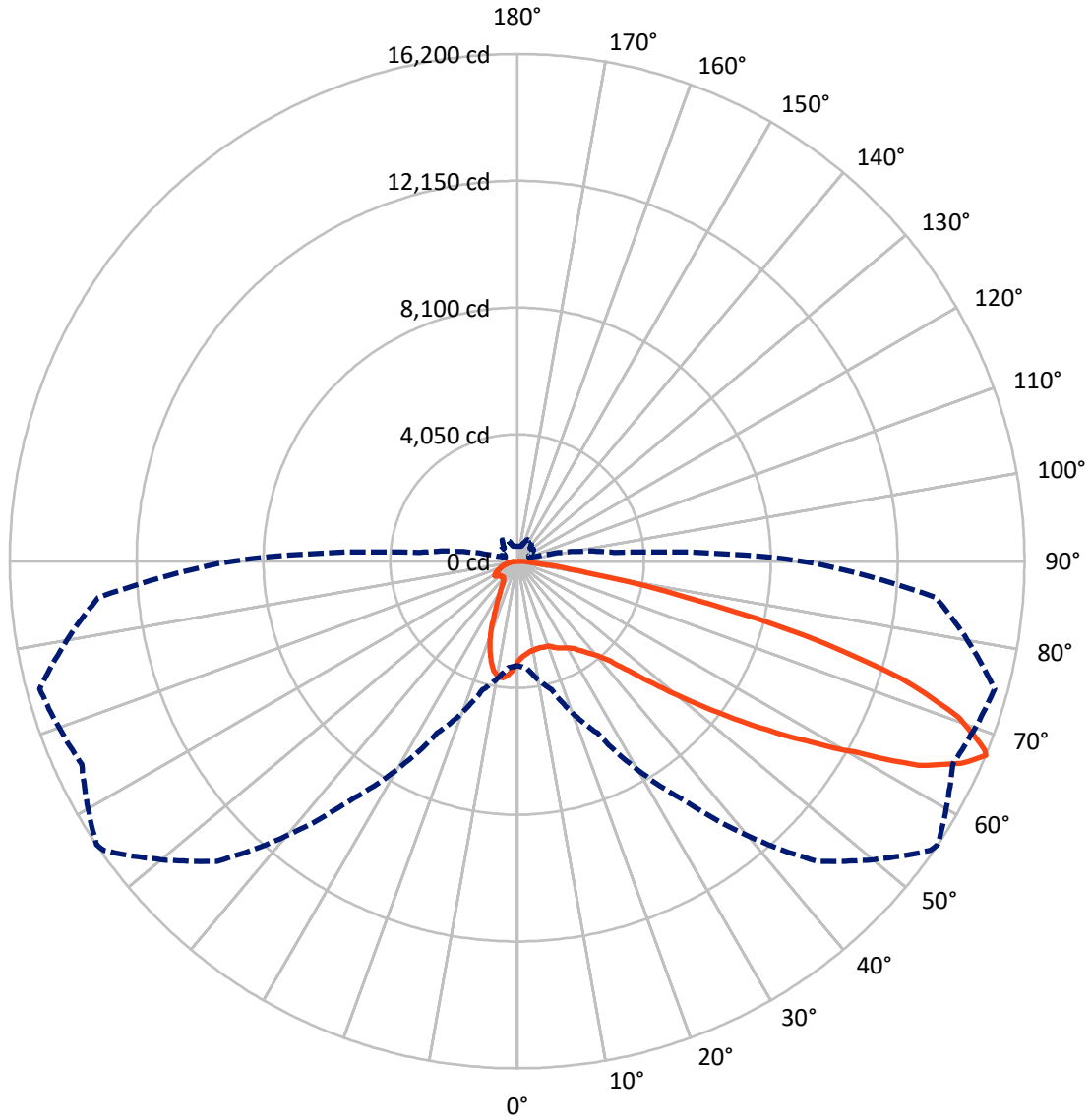
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 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	3256.8	0.0	3256.8
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	17315.3	0.0	17315.3
	% Fixture	84.2	0.0	84.2
Total	Lumens	20572.0	0.0	20572.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	308.4	1.5
10°-20°	841.3	4.1
20°-30°	1319.4	6.4
30°-40°	1883.4	9.2
40°-50°	2842.6	13.8
50°-60°	4525.0	22.0
60°-70°	5784.8	28.1
70°-80°	2820.5	13.7
80°-90°	246.7	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°	20572.0	100.0
0°-180°	20572.0	100.0

Coefficient of Utilization

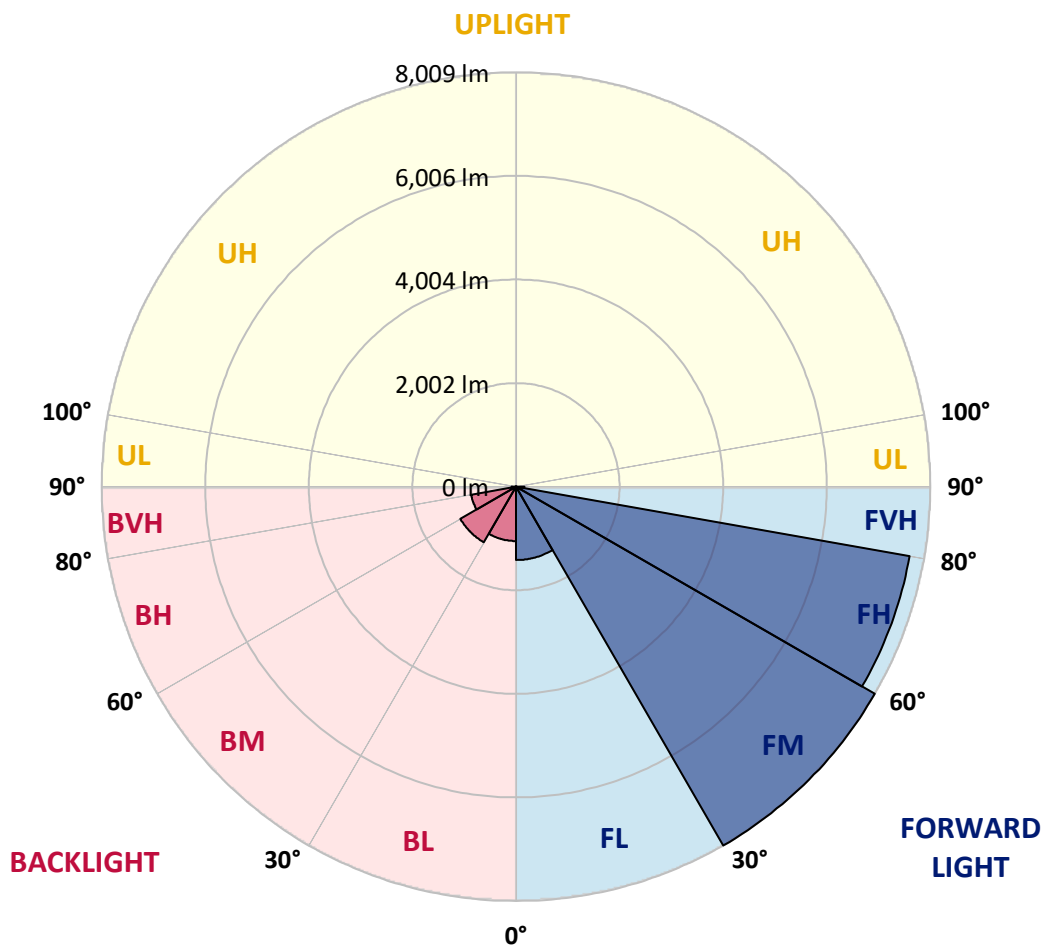


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1417.6	6.9			
FM (30°-60°)	8008.5	38.9			
FH (60°-80°)	7725.3	37.6			G4/12000
FVH (80°-90°)	163.9	0.8			G2/225
BL (0°-30°)	1051.4	5.1	B3/2500		
BM (30°-60°)	1242.5	6.0	B2/2500		
BH (60°-80°)	880.0	4.3	B2/1000		G2/1000
BVH (80°-90°)	82.9	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	3201.0	3201.0	3201.0	3201.0	3201.0	3201.0	3201.0	3201.0	3201.0	3201.0
2.5°	2940.4	2928.4	2942.9	2928.4	2993.5	3032.1	3044.2	3061.0	3121.4	3179.2
5°	2817.4	2764.3	2822.2	2841.5	2846.4	2911.5	2979.0	2991.1	3022.5	3116.5
7.5°	2612.4	2672.7	2651.0	2708.9	2769.2	2834.3	2945.3	2913.9	3029.7	3118.9
10°	2569.0	2573.8	2597.9	2619.6	2672.7	2757.1	2911.5	2892.2	3010.4	3201.0
12.5°	2612.4	2612.4	2605.1	2588.3	2648.6	2730.6	2853.6	2863.2	3049.0	3225.1
15°	2764.3	2793.3	2716.1	2728.2	2704.0	2730.6	2839.1	2860.8	3063.5	3244.4
17.5°	3135.8	3126.2	3034.5	2906.7	2800.5	2783.6	2858.4	2882.5	3049.0	3299.9
20°	3497.6	3478.4	3319.1	3186.5	2976.6	2877.7	2889.8	2892.2	3073.1	3336.0
22.5°	3900.5	3951.1	3777.5	3507.3	3246.8	3000.7	2952.5	2991.1	3128.6	3355.3
25°	4532.5	4423.9	4274.4	3919.8	3500.1	3191.3	3056.2	3075.5	3181.7	3403.6
27.5°	4988.4	4945.0	4711.0	4423.9	3854.7	3340.9	3111.7	3147.9	3278.1	3401.2
30°	5427.4	5427.4	5285.1	4855.7	4228.5	3591.7	3229.9	3213.0	3232.3	3396.3
32.5°	5941.2	5871.2	5666.2	5381.6	4698.9	3820.9	3324.0	3328.8	3328.8	3485.6
35°	6211.3	6324.7	6187.2	5724.1	5058.3	4202.0	3550.7	3514.5	3488.0	3584.5
37.5°	6606.9	6674.5	6529.8	6257.2	5504.6	4510.8	3750.9	3722.0	3567.6	3661.7
40°	6845.7	6833.7	6828.9	6703.4	6095.6	4875.0	4045.2	3970.4	3763.0	3934.3
42.5°	6980.8	6956.7	7253.4	7176.2	6652.8	5410.5	4414.3	4373.3	4144.1	4419.1
45°	7132.8	7311.3	7554.9	7772.0	7301.6	6163.1	5039.0	4981.1	4776.1	5125.9
47.5°	7265.5	7485.0	7796.1	8027.7	7887.8	6980.8	5810.9	5825.4	5690.3	6049.7
50°	7487.4	7509.1	7931.2	8399.2	8507.7	7735.8	6848.2	6824.0	6763.7	7267.9
52.5°	7419.8	7485.0	8018.1	8616.3	8794.8	8534.3	7962.6	8034.9	7955.3	8589.7
55°	6319.9	6515.3	7965.0	8845.4	9475.0	9436.4	9395.4	9347.2	9342.3	10075.6
57.5°	5820.6	5979.8	7017.0	9098.7	10203.5	10488.1	10753.5	10806.5	10804.1	11689.4
60°	5492.5	5656.5	6633.5	8961.2	10823.4	11865.5	12374.4	12381.7	12367.2	13414.1
62.5°	4850.9	5010.1	5970.1	8208.6	10994.7	13136.7	14270.4	14364.5	13701.1	14900.0
65°	4079.0	4209.2	5055.9	7058.0	10538.8	13944.8	15696.0	15585.0	14825.2	15749.1
67°	3336.0	3422.9	4247.8	6059.4	9347.2	13556.4	16108.5	16200.1	15343.8	15785.3
67.5°	3123.8	3203.4	3982.5	5719.3	8893.7	13262.1	16123.0	16108.5	15353.5	15792.5
70°	2168.5	2202.3	2713.7	3934.3	6551.5	11204.5	14945.8	14979.6	14709.4	14936.2
72.5°	1437.7	1488.3	1814.0	2479.7	3861.9	8153.1	12492.6	12854.5	12683.2	12246.6
75°	926.3	955.2	1186.8	1476.2	1900.8	4643.4	9229.0	9470.2	9077.0	7574.2
77.5°	518.6	550.0	716.4	897.3	926.3	1932.1	5183.8	5482.9	4645.8	3217.8
80°	323.2	364.2	540.3	533.1	441.4	709.2	2137.2	2289.2	1857.4	1107.2
82.5°	243.6	275.0	417.3	373.9	248.5	316.0	800.8	858.7	680.2	427.0
85°	166.4	209.9	301.5	231.6	130.3	152.0	318.4	342.5	311.2	207.4
87.5°	60.3	89.3	156.8	115.8	57.9	45.8	103.7	115.8	111.0	94.1
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°
3201.0	0°	3201.0	3201.0	3201.0	3201.0	3201.0	3201.0	3201.0	3201.0	3201.0	3201.0
3229.9	2.5°	3275.7	3309.5	3326.4	3425.3	3466.3	3459.1	3468.7	3483.2	3497.6	3516.9
3270.9	5°	3302.3	3406.0	3461.5	3577.3	3654.4	3620.7	3664.1	3652.0	3635.1	3632.7
3345.7	7.5°	3389.1	3521.8	3688.2	3719.6	3753.3	3668.9	3596.5	3497.6	3473.5	3389.1
3408.4	10°	3543.5	3652.0	3854.7	3866.7	3717.2	3500.1	3338.4	3133.4	3131.0	3008.0
3504.9	12.5°	3690.6	3813.6	3977.7	3907.7	3550.7	3254.0	2991.1	2766.8	2672.7	2610.0
3562.8	15°	3782.3	3984.9	4071.7	3770.2	3258.8	2858.4	2518.3	2277.1	2180.6	2134.8
3635.1	17.5°	3866.7	4148.9	4110.3	3529.0	2899.4	2450.8	2045.5	1835.7	1809.1	1775.4
3750.9	20°	3982.5	4209.2	3972.8	3215.4	2491.8	1924.9	1666.8	1565.5	1589.6	1604.1
3763.0	22.5°	4091.0	4240.6	3799.2	2872.9	1968.3	1524.5	1396.6	1418.4	1454.5	1502.8
3791.9	25°	4139.3	4291.3	3565.2	2400.1	1498.0	1283.3	1254.3	1290.5	1350.8	1353.2
3832.9	27.5°	4170.6	4255.1	3283.0	1939.4	1184.4	1121.7	1165.1	1191.6	1198.8	1227.8
3919.8	30°	4226.1	4180.3	2926.0	1387.0	993.8	996.2	1051.7	1051.7	1051.7	1073.4
4006.6	32.5°	4322.6	4129.6	2508.7	1013.1	856.3	933.5	919.0	914.2	904.6	878.0
4117.6	35°	4382.9	3992.1	1980.4	750.2	769.5	856.3	851.5	776.7	651.3	588.6
4399.8	37.5°	4508.3	3922.2	1457.0	578.9	718.8	817.7	791.2	610.3	472.8	412.5
4749.6	40°	4778.5	3876.4	1008.3	506.6	685.1	798.4	706.8	521.0	361.8	255.7
5289.9	42.5°	5109.0	3878.8	685.1	477.6	687.5	839.4	680.2	446.3	255.7	205.0
6011.1	45°	5552.8	3842.6	470.4	477.6	730.9	907.0	697.1	405.2	248.5	260.5
6915.7	47.5°	6030.4	3873.9	349.8	434.2	738.1	909.4	636.8	398.0	238.8	301.5
7899.9	50°	6587.6	3905.3	289.5	400.4	740.5	880.4	586.2	388.4	248.5	318.4
9028.8	52.5°	7161.7	4004.2	246.0	378.7	769.5	868.4	586.2	402.8	248.5	277.4
10466.4	55°	8018.1	4257.5	354.6	472.8	875.6	948.0	721.2	564.4	347.4	357.0
11843.8	57.5°	8963.6	4518.0	395.6	496.9	899.7	853.9	776.7	622.3	366.7	369.1
12914.8	60°	9586.0	4527.6	393.2	484.8	841.8	738.1	759.8	656.1	373.9	316.0
13578.1	62.5°	9834.4	4233.4	410.1	484.8	784.0	689.9	779.1	706.8	385.9	395.6
13766.3	65°	9552.2	3625.5	395.6	434.2	689.9	617.5	784.0	716.4	422.1	398.0
13428.6	67°	9110.8	3123.8	402.8	412.5	641.6	586.2	825.0	752.6	489.7	477.6
13252.5	67.5°	8985.3	2991.1	400.4	400.4	624.8	576.5	834.6	752.6	499.3	494.5
11696.6	70°	7919.2	2424.2	410.1	395.6	552.4	547.6	887.7	793.6	574.1	578.9
8592.2	72.5°	6028.0	1838.1	407.7	395.6	480.0	523.4	894.9	820.1	624.8	578.9
4812.3	75°	3425.3	1100.0	359.4	344.9	378.7	455.9	837.0	781.5	607.9	518.6
1922.5	77.5°	1415.9	566.9	330.5	311.2	313.6	371.5	697.1	728.5	578.9	441.4
641.6	80°	528.3	340.1	265.3	248.5	241.2	272.6	496.9	581.3	494.5	361.8
282.2	82.5°	275.0	212.3	180.9	180.9	164.0	173.7	267.8	385.9	373.9	248.5
113.4	85°	139.9	120.6	103.7	101.3	91.7	82.0	135.1	229.2	214.7	137.5
50.7	87.5°	74.8	67.5	43.4	41.0	33.8	21.7	24.1	45.8	74.8	60.3
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>
3201.0
3536.2
3654.4
3418.0
3003.2
2595.5
2125.1
1792.2
1587.2
1476.2
1377.4
1254.3
1097.5
863.6
617.5
410.1
248.5
200.2
265.3
335.3
369.1
284.6
376.3
357.0
325.6
400.4
390.8
470.4
484.8
535.5
513.8
463.1
417.3
330.5
195.4
113.4
43.4
0.0

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