

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: P638122

Luminaire Tested: **IFLD-L-SA7C-730-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638122
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-730-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (112) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31050.2 lumens
Efficiency: N/A
Efficacy: 84.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

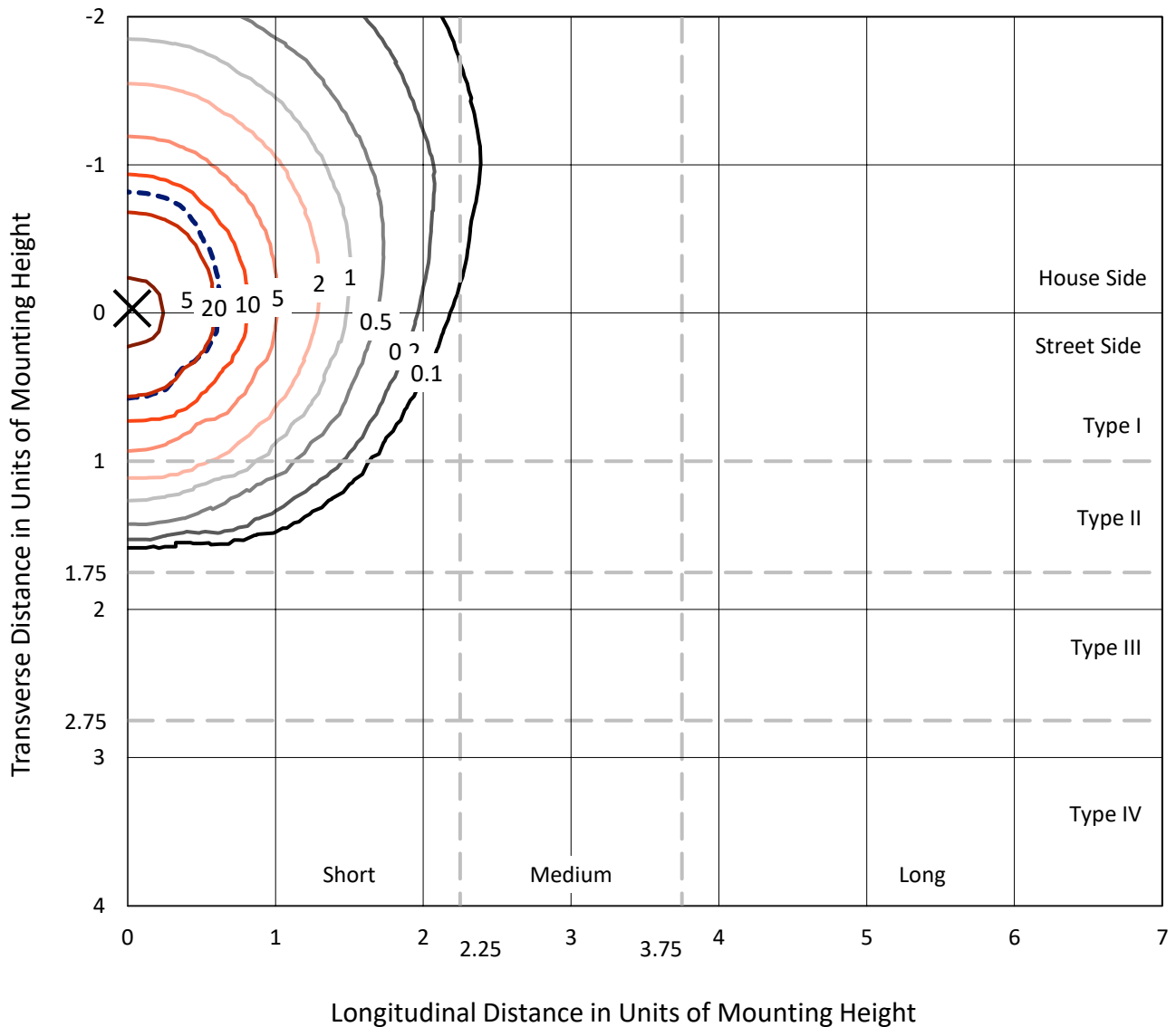
Input Watts (W): 369
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

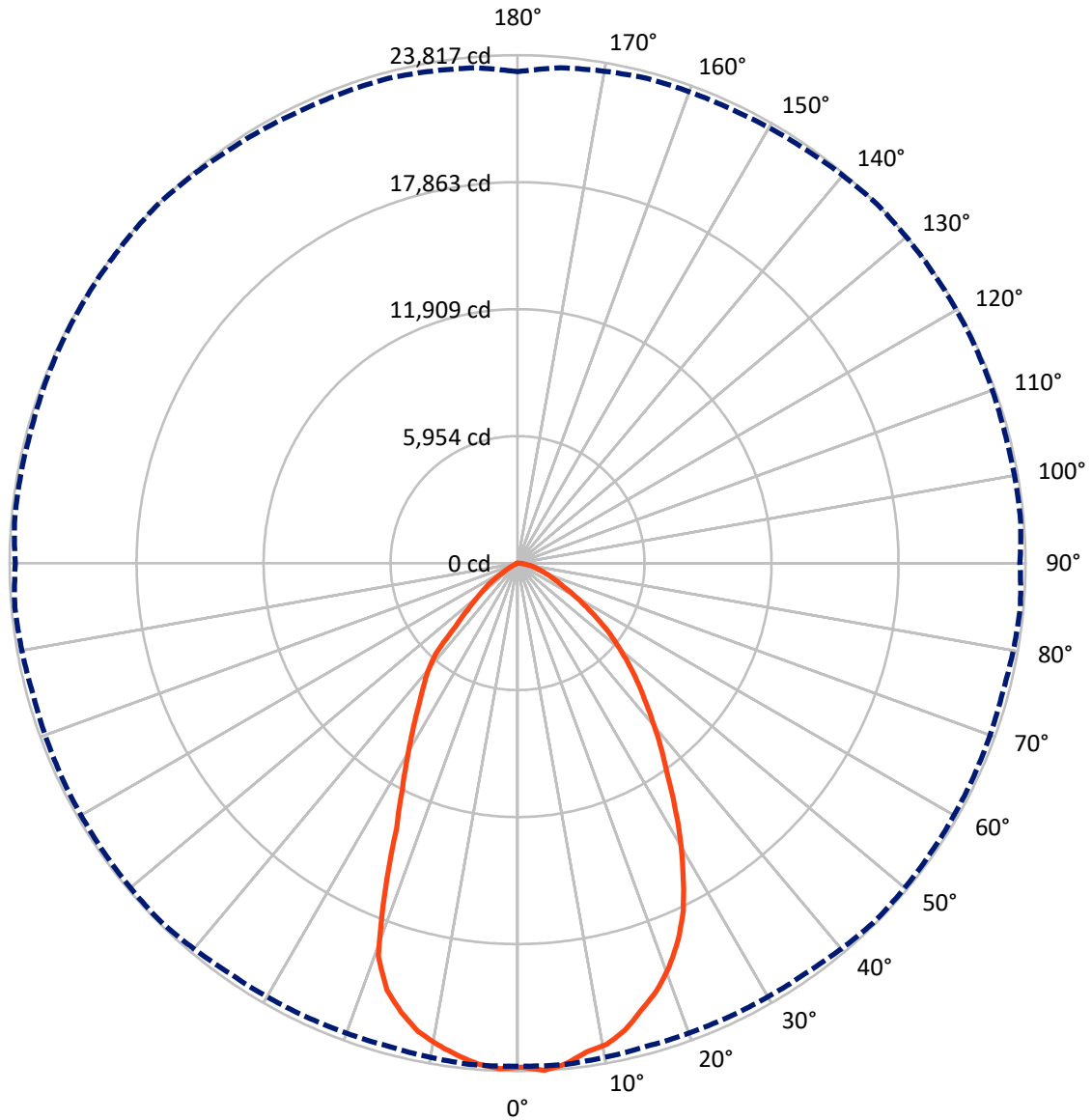
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 59.1 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 135-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18389.5	0.0	18389.5
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	12660.7	0.0	12660.7
	% Fixture	40.8	0.0	40.8
Total	Lumens	31050.2	0.0	31050.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2216.0	7.1
10°-20°	5942.4	19.1
20°-30°	7247.1	23.3
30°-40°	6616.6	21.3
40°-50°	4781.6	15.4
50°-60°	2610.8	8.4
60°-70°	1079.5	3.5
70°-80°	437.2	1.4
80°-90°	118.9	0.4
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°	31050.2	100.0
0°-180°	31050.2	100.0



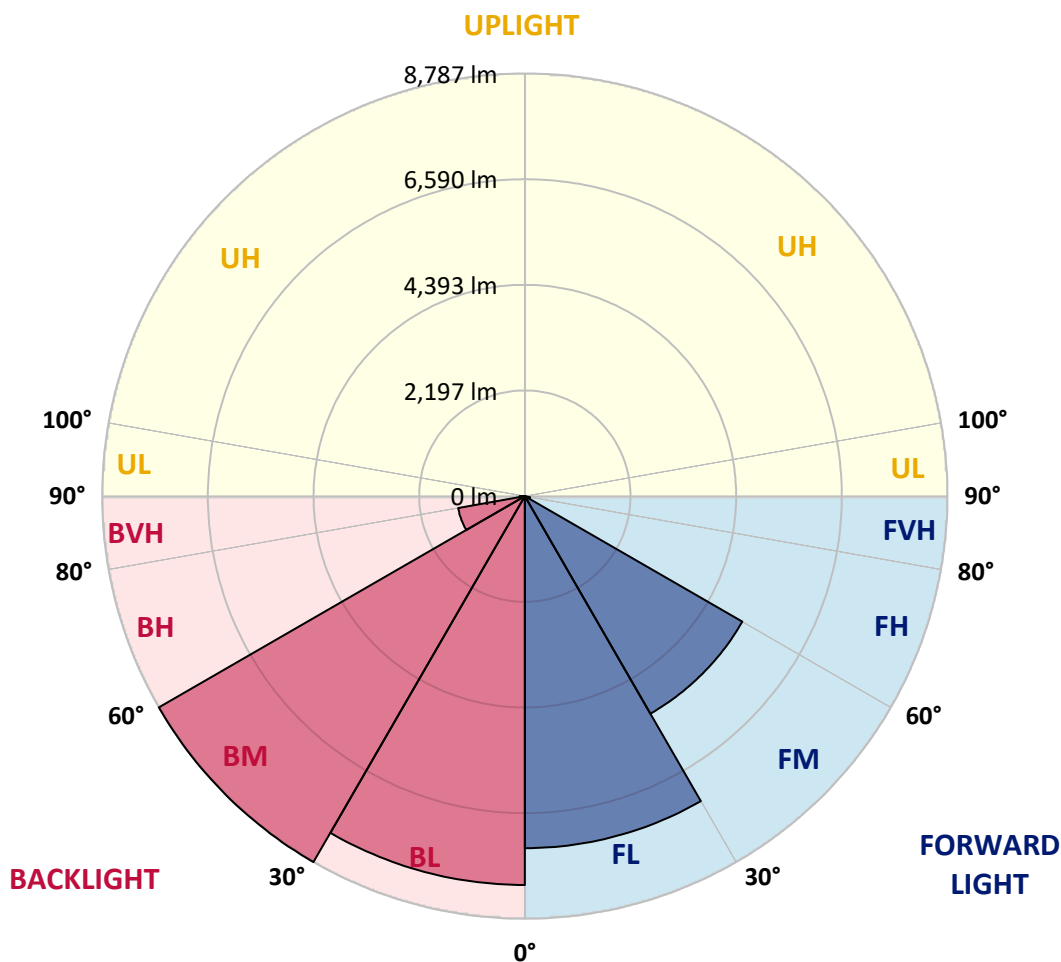
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7319.7	23.6			
FM (30°-60°)	5222.1	16.8			
FH (60°-80°)	109.4	0.4			G0/660
FVH (80°-90°)	9.5	0.0			G0/10
BL (0°-30°)	8085.9	26.0	B5		
BM (30°-60°)	8786.9	28.3	B5		
BH (60°-80°)	1407.3	4.5	B3/2500		G3/2500
BVH (80°-90°)	109.4	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	23629.1	23629.1	23629.1	23629.1	23629.1	23629.1	23629.1	23629.1	23629.1	23629.1
2.5°	23585.4	23616.0	23449.8	23467.3	23497.9	23720.9	23664.1	23611.6	23537.3	23664.1
5°	23554.8	23572.3	23397.3	23336.1	23362.4	23563.5	23379.9	23379.9	23362.4	23340.5
7.5°	23318.6	23327.4	23191.8	23082.5	23152.5	23244.3	23108.8	23174.4	23078.2	23152.5
10°	22964.5	22907.6	22745.8	22715.2	22793.9	22881.4	22789.6	22850.8	22763.3	22820.2
12.5°	22444.1	22356.7	22225.5	22186.2	22321.7	22439.8	22365.4	22330.5	22216.8	22356.7
15°	20437.2	20371.6	20668.9	21189.2	21657.1	21757.7	21678.9	21713.9	21477.8	21517.2
17.5°	16821.1	16698.7	17017.8	18250.9	20008.6	20935.6	20865.7	20638.3	20288.5	20367.2
20°	15286.3	15251.3	15216.4	15509.3	16738.0	19549.5	19645.7	19068.6	18570.1	18460.8
22.5°	14420.6	14407.5	14372.5	14438.1	14761.6	16567.5	17669.3	17135.9	16803.6	16773.0
25°	13629.1	13607.3	13502.3	13585.4	13585.4	13690.4	15102.7	15426.2	15133.3	15098.3
27.5°	12824.6	12785.2	12767.8	12807.1	12606.0	11897.6	12256.2	13834.7	13681.6	13690.4
30°	11954.5	11941.3	11893.3	11976.3	11355.4	10476.6	10249.2	12391.7	12422.3	12413.6
32.5°	10660.2	10717.0	10935.7	11027.5	10004.3	9278.5	8898.1	10721.4	11346.7	11333.6
35°	7743.7	7743.7	8456.5	9781.3	8766.9	8220.3	8014.8	9090.5	10284.2	10327.9
37.5°	6366.4	6388.3	6528.2	7131.6	7564.5	7372.1	7310.9	7651.9	8919.9	8989.9
40°	5728.0	5728.0	5728.0	5478.8	5465.6	6641.9	6606.9	6497.6	7704.4	7857.4
42.5°	5146.5	5159.6	5168.3	4538.7	4188.9	5741.1	5662.4	5496.3	6615.6	6794.9
45°	4547.4	4569.3	4595.5	3795.3	3642.3	4132.0	4792.3	4608.6	5540.0	5771.7
47.5°	2776.5	2811.5	3406.2	3218.2	3235.7	3187.6	3909.0	3878.4	4543.0	4871.0
50°	1875.8	1888.9	1945.8	2042.0	2776.5	2505.5	2767.8	3209.4	3449.9	3948.4
52.5°	1574.1	1596.0	1456.0	1324.9	1823.3	1958.9	1932.7	2383.0	2479.2	3095.7
55°	1106.2	1176.2	1110.6	1097.5	1036.3	1521.6	1464.8	1832.1	1893.3	2352.4
57.5°	113.7	131.2	227.4	817.7	677.7	861.4	1045.0	1342.4	1403.6	1735.9
60°	8.7	8.7	21.9	113.7	494.1	516.0	721.5	826.4	944.5	1211.2
62.5°	0.0	4.4	8.7	17.5	78.7	275.5	362.9	432.9	568.4	782.7
65°	0.0	0.0	4.4	13.1	17.5	104.9	139.9	227.4	310.4	485.3
67.5°	0.0	0.0	4.4	8.7	13.1	26.2	48.1	83.1	166.2	275.5
70°	0.0	0.0	4.4	8.7	13.1	21.9	35.0	52.5	74.3	148.7
72.5°	0.0	0.0	4.4	4.4	8.7	21.9	26.2	35.0	52.5	74.3
75°	0.0	0.0	4.4	4.4	13.1	26.2	21.9	26.2	35.0	48.1
77.5°	0.0	0.0	4.4	8.7	13.1	26.2	21.9	26.2	26.2	30.6
80°	0.0	0.0	4.4	8.7	17.5	30.6	26.2	26.2	21.9	21.9
82.5°	0.0	0.0	4.4	13.1	17.5	39.4	39.4	35.0	17.5	13.1
85°	0.0	0.0	8.7	17.5	26.2	43.7	43.7	35.0	13.1	8.7
87.5°	0.0	0.0	8.7	13.1	21.9	30.6	43.7	35.0	13.1	4.4
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):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
23629.1	0°	23629.1	23629.1	23629.1	23629.1	23629.1	23629.1	23629.1	23629.1	23629.1
23554.8	2.5°	23672.8	23646.6	23734.0	23769.0	23817.1	23633.5	23519.8	23524.2	23314.3
23288.0	5°	23428.0	23432.3	23546.0	23537.3	23585.4	23484.8	23441.1	23366.7	23183.1
22951.4	7.5°	23117.5	23078.2	23187.5	23270.5	23148.1	23218.1	23117.5	23152.5	23043.2
22654.0	10°	22877.0	22785.2	22885.8	22942.6	22947.0	22877.0	22780.8	22689.0	22649.6
22190.5	12.5°	22343.6	22225.5	22396.0	22474.7	22461.6	22326.1	22216.8	22238.6	22111.8
21377.2	15°	21609.0	21613.4	21735.8	21810.1	21740.2	21709.6	21718.3	21665.8	21556.5
20253.5	17.5°	20485.3	20550.8	20874.4	21053.7	21093.0	21031.8	21001.2	20940.0	20830.7
18460.8	20°	18613.8	19007.3	19584.5	20139.8	20249.1	20231.6	20122.3	20096.1	20034.9
16685.5	22.5°	16969.7	17262.7	17931.7	18797.5	19243.5	19287.2	19156.0	19116.7	19051.1
15098.3	25°	15268.8	15583.7	16187.1	17127.2	18049.8	18237.8	18215.9	18097.9	18027.9
13690.4	27.5°	13834.7	14149.5	14696.0	15544.3	16532.5	17135.9	17192.7	17004.7	17000.4
12435.4	30°	12540.4	12973.3	13388.7	14079.5	15037.1	15942.2	16038.4	15907.2	15920.3
11285.5	32.5°	11526.0	11884.5	12238.7	12702.2	13498.0	14551.7	14927.8	14805.3	14757.3
10327.9	35°	10489.7	10734.5	11097.5	11521.6	12063.8	13108.8	13760.3	13668.5	13620.4
9033.6	37.5°	9309.1	9728.9	9991.2	10467.8	10891.9	11722.7	12641.0	12627.8	12527.3
7931.7	40°	8097.9	8539.5	8937.4	9418.4	9746.3	10406.6	11425.4	11421.0	11434.1
6790.5	42.5°	7000.4	7407.0	7888.0	8412.7	8727.5	9208.5	10301.7	10362.9	10437.2
5850.4	45°	6007.8	6375.1	6821.1	7459.5	7839.9	8115.4	9086.1	9365.9	9361.6
5010.9	47.5°	5115.8	5461.3	5837.3	6458.2	6943.6	7192.8	7997.3	8395.2	8369.0
4110.2	50°	4293.8	4599.9	4993.4	5443.8	6095.3	6313.9	6913.0	7437.7	7398.3
3275.0	52.5°	3454.3	3878.4	4210.7	4621.8	5308.2	5522.5	5986.0	6497.6	6467.0
2457.4	55°	2693.5	3104.5	3506.8	3860.9	4438.1	4757.3	5089.6	5614.3	5605.6
1923.9	57.5°	2037.6	2488.0	2868.4	3205.1	3664.2	4057.7	4324.4	4801.0	4862.2
1316.1	60°	1508.5	1853.9	2265.0	2641.0	3003.9	3410.6	3589.8	4057.7	4083.9
900.7	62.5°	1027.5	1408.0	1810.2	2151.3	2422.4	2842.1	3003.9	3388.7	3436.8
577.2	65°	712.7	957.6	1416.7	1661.6	1993.9	2352.4	2514.2	2820.3	2916.5
332.3	67.5°	472.2	682.1	1106.2	1329.2	1657.2	1902.0	2107.6	2356.8	2461.7
209.9	70°	258.0	502.8	791.4	1049.4	1333.6	1569.7	1770.9	1972.0	2063.8
96.2	72.5°	174.9	336.7	550.9	830.8	1075.6	1307.4	1486.7	1635.3	1639.7
56.8	75°	87.5	227.4	419.8	642.8	839.5	1066.9	1228.7	1316.1	1211.2
35.0	77.5°	52.5	166.2	341.1	516.0	682.1	861.4	953.2	1001.3	830.8
26.2	80°	30.6	118.1	266.7	411.0	472.2	634.0	721.5	734.6	555.3
17.5	82.5°	21.9	87.5	209.9	301.7	288.6	446.0	542.2	524.7	354.2
13.1	85°	13.1	61.2	131.2	188.0	174.9	293.0	314.8	323.6	205.5
8.7	87.5°	8.7	35.0	70.0	100.6	83.1	126.8	126.8	153.0	100.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
23629.1
23043.2
23139.4
22859.5
22474.7
22002.5
21447.2
20782.6
19895.0
19033.6
17953.6
16991.6
15854.8
14761.6
13554.8
12610.3
11434.1
10397.9
9370.3
8377.7
7433.3
6532.5
5627.4
4836.0
4123.3
3445.5
2894.6
2448.6
2028.8
1600.3
1132.5
800.2
520.3
327.9
188.0
87.5
0.0

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