

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: P637464

Luminaire Tested: **IFLD-S-SA2C-827-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637464
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-827-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (32) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10077.2 lumens
Efficiency: N/A
Efficacy: 93.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

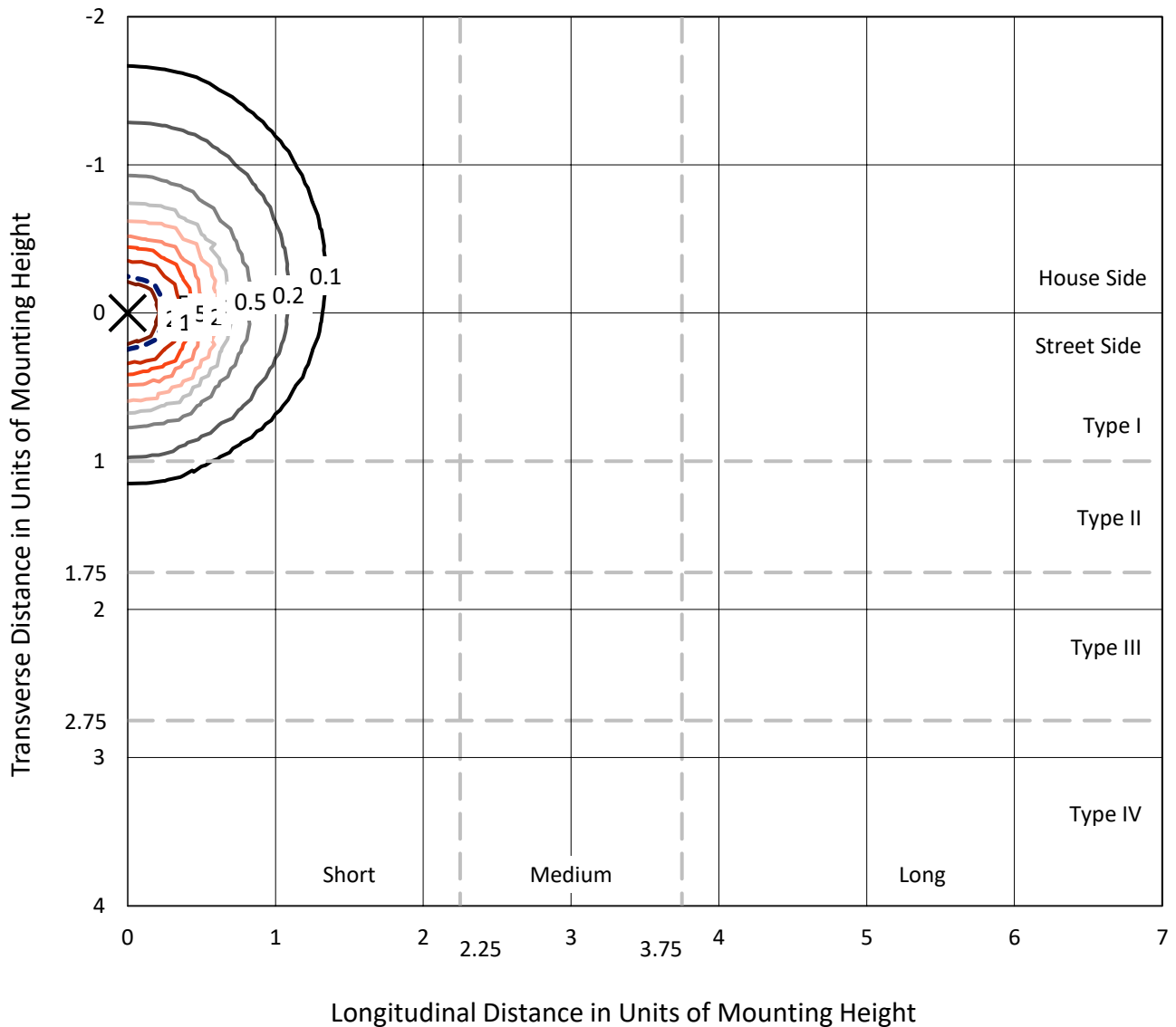
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

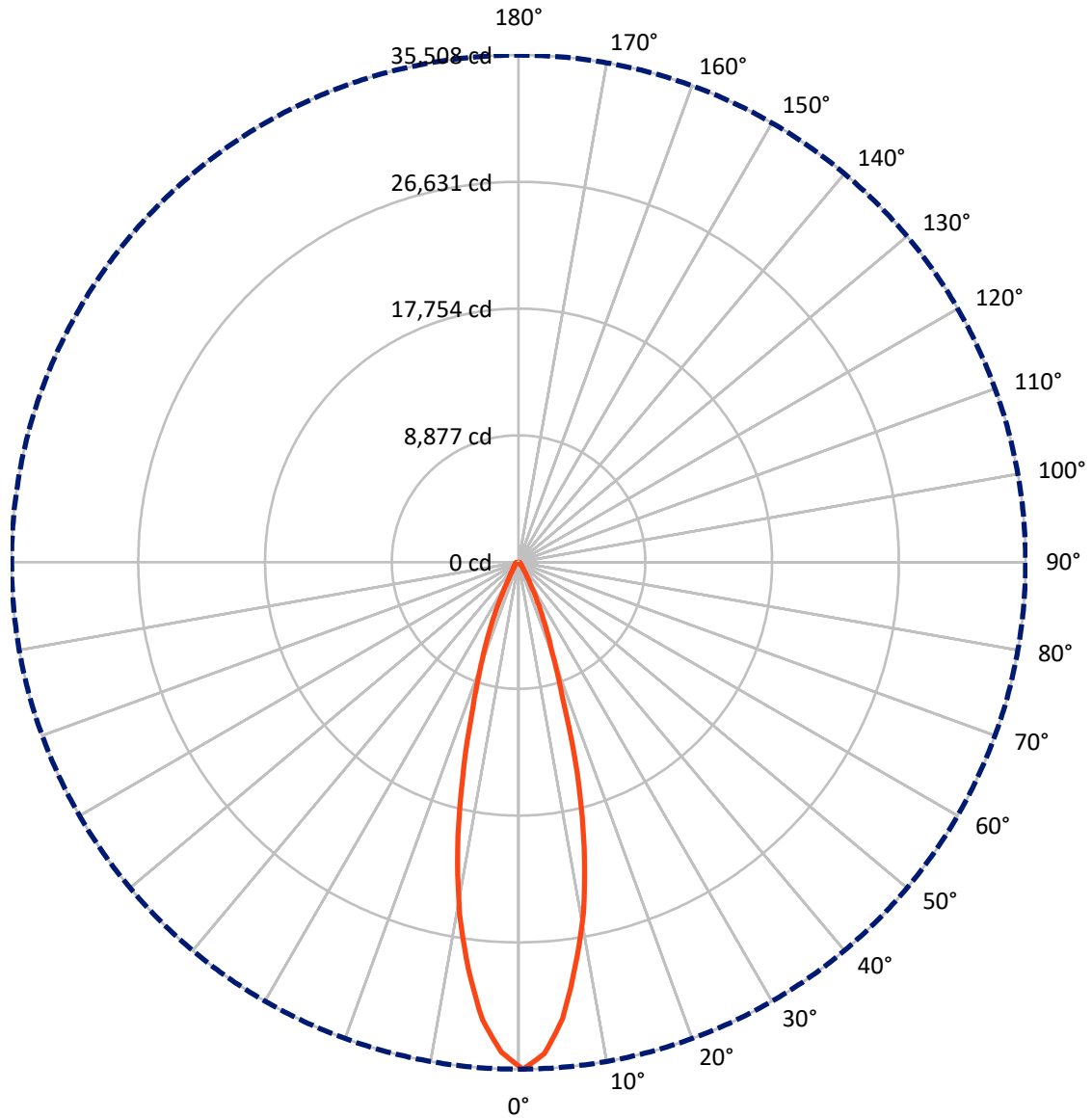
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 88.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 0-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5313.4	0.0	5313.4
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	4763.8	0.0	4763.8
	% Fixture	47.3	0.0	47.3
Total	Lumens	10077.2	0.0	10077.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2865.8	28.4
10°-20°	4340.2	43.1
20°-30°	1831.6	18.2
30°-40°	477.7	4.7
40°-50°	241.6	2.4
50°-60°	157.9	1.6
60°-70°	94.6	0.9
70°-80°	49.8	0.5
80°-90°	18.0	0.2
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°	10077.2	100.0
0°-180°	10077.2	100.0



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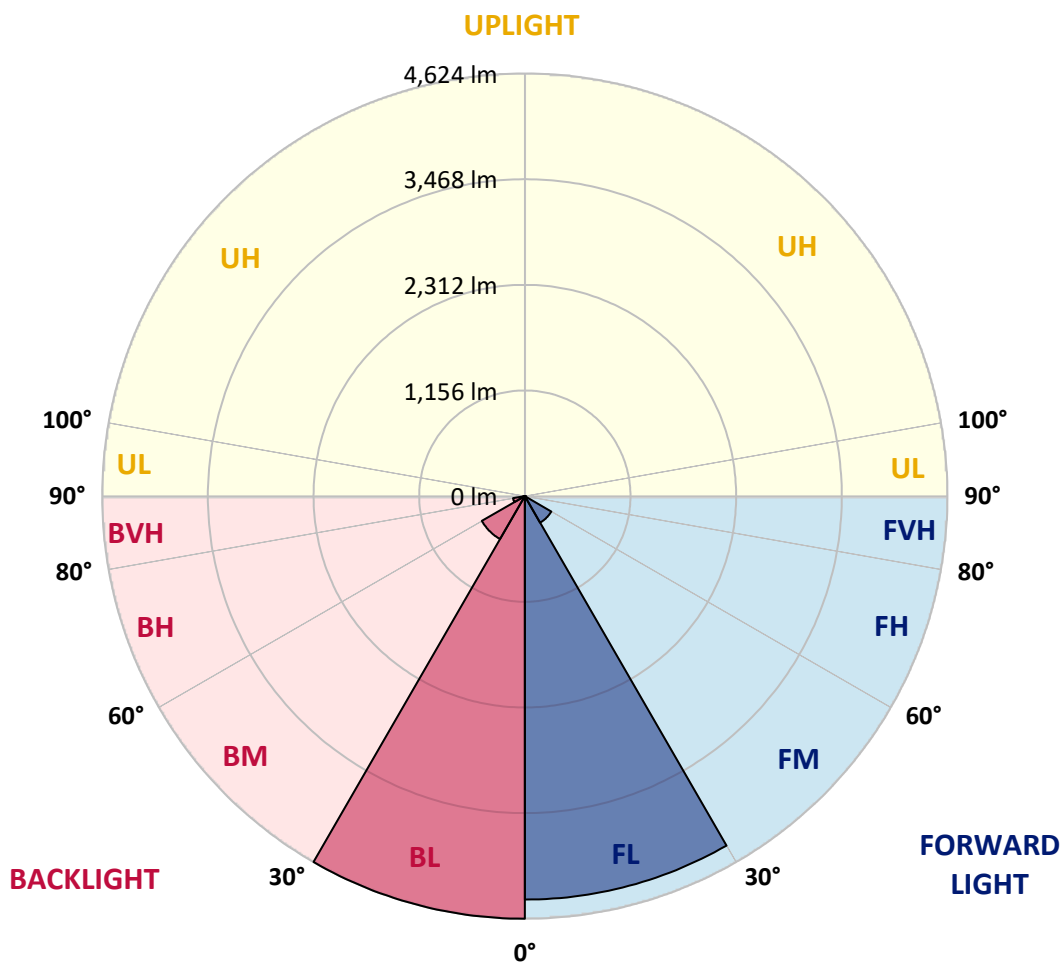
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4413.7	43.8			
FM (30°-60°)	334.3	3.3			
FH (60°-80°)	13.6	0.1			G0/660
FVH (80°-90°)	2.2	0.0			G0/10
BL (0°-30°)	4623.8	45.9	B4/5000		
BM (30°-60°)	543.0	5.4	B1/1000		
BH (60°-80°)	130.8	1.3	B1/500		G0/660
BVH (80°-90°)	15.8	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	35507.6	35507.6	35507.6	35507.6	35507.6	35507.6	35507.6	35507.6	35507.6	35507.6
2.5°	34473.3	34492.5	34421.2	34575.1	34455.2	34776.6	34617.0	34866.0	34782.2	34921.4
5°	32119.4	32087.7	32067.3	32306.1	32237.1	32582.2	32361.5	32289.1	32513.2	32472.5
7.5°	28564.8	28648.5	28601.0	28663.2	28698.3	29092.1	29216.6	29119.3	29122.7	29179.3
10°	24920.7	24797.4	24622.0	24738.5	24985.3	25157.3	25088.2	25230.8	25199.1	25333.8
12.5°	20437.0	20534.4	20435.9	20331.8	20763.0	20715.4	20835.4	20913.5	20717.7	21153.4
15°	15394.3	15445.2	15565.1	15557.2	15888.8	15955.6	15939.7	16022.3	15869.6	15942.0
17.5°	9889.8	10061.8	10384.3	10929.8	11543.1	11614.4	11596.3	11528.4	11454.9	11373.4
20°	6643.0	6624.9	6741.4	6901.0	8170.7	8506.8	8496.7	8283.9	7976.1	7917.2
22.5°	4653.5	4687.4	4671.6	4830.0	5092.6	6019.4	5905.1	5689.0	5588.2	5522.6
25°	3061.2	3048.7	3128.0	3175.5	3400.7	3513.9	3914.5	3834.1	3679.1	3696.1
27.5°	1866.1	1882.0	1911.4	1952.1	2111.7	2075.5	2304.1	2334.7	2284.9	2231.7
30°	1145.3	1156.6	1180.3	1209.8	1265.2	1225.6	1289.0	1398.8	1380.7	1343.3
32.5°	777.5	778.6	795.6	806.9	800.1	762.8	783.1	887.2	889.5	886.1
35°	559.1	559.1	574.9	583.9	564.7	534.2	537.5	602.1	630.3	636.0
37.5°	385.9	387.0	414.2	441.4	419.9	411.9	398.4	441.4	486.6	493.4
40°	293.1	292.0	305.6	325.9	328.2	313.5	318.0	345.2	391.6	397.2
42.5°	237.7	238.8	245.6	243.3	244.4	263.7	270.5	282.9	325.9	336.1
45°	200.3	201.4	204.8	193.5	189.0	218.4	227.5	234.3	270.5	282.9
47.5°	165.2	167.5	170.9	158.4	156.2	175.4	191.3	198.0	229.7	243.3
50°	118.8	121.1	133.5	126.7	133.5	138.1	159.6	169.8	191.3	209.4
52.5°	86.0	88.3	91.7	92.8	109.8	112.0	127.9	143.7	153.9	174.3
55°	67.9	70.2	67.9	65.6	80.3	92.8	98.5	115.4	123.4	147.1
57.5°	38.5	40.7	44.1	50.9	53.2	71.3	77.0	91.7	98.5	121.1
60°	6.8	7.9	12.4	30.6	37.3	45.3	57.7	70.2	79.2	95.1
62.5°	1.1	1.1	2.3	6.8	21.5	31.7	41.9	49.8	57.7	72.4
65°	0.0	0.0	1.1	2.3	5.7	18.1	22.6	29.4	39.6	52.1
67.5°	0.0	0.0	1.1	2.3	3.4	6.8	10.2	18.1	22.6	35.1
70°	0.0	0.0	1.1	2.3	3.4	4.5	5.7	7.9	13.6	21.5
72.5°	0.0	0.0	1.1	2.3	3.4	4.5	5.7	6.8	6.8	13.6
75°	0.0	0.0	1.1	2.3	3.4	5.7	6.8	6.8	5.7	5.7
77.5°	0.0	0.0	1.1	2.3	4.5	6.8	7.9	6.8	4.5	4.5
80°	0.0	0.0	2.3	3.4	5.7	7.9	10.2	7.9	4.5	2.3
82.5°	0.0	0.0	2.3	4.5	5.7	9.1	12.4	10.2	4.5	2.3
85°	0.0	0.0	1.1	3.4	6.8	9.1	12.4	9.1	4.5	1.1
87.5°	0.0	0.0	1.1	1.1	2.3	3.4	6.8	5.7	2.3	1.1
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):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
35507.6	0°	35507.6	35507.6	35507.6	35507.6	35507.6	35507.6	35507.6	35507.6	35507.6
34657.7	2.5°	34856.9	35038.0	35075.3	35025.5	35098.0	34967.8	34868.2	34610.2	34455.2
32460.0	5°	32669.4	32642.2	32831.2	32893.4	32885.5	32785.9	32646.7	32490.6	32338.9
29069.5	7.5°	29250.6	29285.6	29457.7	29567.4	29512.0	29387.5	29291.3	29173.6	29071.8
25382.5	10°	25614.5	25373.4	25587.3	25587.3	25735.6	25383.6	25416.4	25119.9	25133.5
21145.5	12.5°	21217.9	21305.0	21340.1	21440.8	21267.7	21081.0	20852.4	20807.1	20665.6
15803.9	15°	16031.4	16280.4	16066.5	16432.0	16255.5	16060.8	16025.7	15674.9	15785.8
11462.8	17.5°	11406.2	11681.2	11767.2	11976.6	11815.9	11700.4	11554.5	11448.1	11440.2
8024.7	20°	8088.1	8364.3	8427.6	8678.9	8660.8	8624.5	8501.2	8366.5	8220.5
5462.6	22.5°	5545.2	5770.4	5980.9	6319.3	6313.6	6207.3	6194.8	6004.7	6008.1
3690.4	25°	3728.9	3893.0	3942.8	4289.1	4327.5	4316.2	4251.7	4075.2	4142.0
2254.3	27.5°	2256.6	2400.3	2568.9	2691.1	2806.6	2788.5	2724.0	2625.5	2582.5
1354.6	30°	1390.8	1455.3	1517.6	1664.7	1733.7	1769.9	1739.4	1647.7	1654.5
891.8	32.5°	911.0	965.3	1010.6	1103.4	1139.6	1206.4	1193.9	1174.7	1152.1
641.7	35°	664.3	703.9	734.5	777.5	823.9	880.4	889.5	881.6	872.5
495.7	37.5°	507.0	547.7	582.8	600.9	637.1	681.3	706.2	705.0	698.2
404.0	40°	411.9	442.5	474.2	497.9	522.8	555.7	586.2	589.6	589.6
339.5	42.5°	344.0	370.1	401.7	426.6	444.8	475.3	507.0	509.3	507.0
287.4	45°	294.2	316.9	347.4	376.8	391.6	414.2	444.8	451.5	447.0
246.7	47.5°	255.8	276.1	302.2	333.8	349.7	370.1	398.4	406.3	405.1
212.8	50°	219.5	243.3	269.3	295.4	315.7	335.0	362.1	371.2	367.8
181.1	52.5°	193.5	215.0	237.7	265.9	289.7	306.7	328.2	344.0	339.5
152.8	55°	161.8	187.9	211.6	235.4	264.8	282.9	303.3	322.5	318.0
129.0	57.5°	140.3	161.8	189.0	210.5	239.9	261.4	281.8	302.2	301.0
105.2	60°	117.7	140.3	166.4	189.0	216.2	239.9	260.3	282.9	285.2
79.2	62.5°	92.8	120.0	142.6	168.6	195.8	221.8	239.9	262.5	265.9
60.0	65°	70.2	98.5	123.4	148.3	175.4	203.7	219.5	238.8	242.2
44.1	67.5°	52.1	75.8	105.2	127.9	156.2	183.3	198.0	213.9	219.5
27.2	70°	39.6	57.7	88.3	109.8	139.2	160.7	176.5	190.1	194.6
18.1	72.5°	24.9	45.3	71.3	93.9	120.0	139.2	150.5	158.4	165.2
10.2	75°	17.0	35.1	57.7	80.3	99.6	114.3	124.5	131.3	136.9
4.5	77.5°	10.2	27.2	47.5	66.8	79.2	90.5	100.7	105.2	108.6
3.4	80°	5.7	20.4	39.6	54.3	62.2	70.2	78.1	83.7	86.0
2.3	82.5°	3.4	15.8	31.7	41.9	45.3	53.2	61.1	64.5	64.5
1.1	85°	2.3	11.3	21.5	30.6	32.8	38.5	40.7	43.0	45.3
1.1	87.5°	2.3	6.8	13.6	17.0	18.1	20.4	21.5	23.8	26.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
<u>35507.6</u>
34340.9
32169.2
28726.6
25001.1
20536.6
15674.9
11229.7
8157.2
5942.5
4036.7
2545.2
1625.1
1144.1
869.1
694.9
582.8
504.7
447.0
402.9
365.5
338.4
320.3
302.2
286.3
268.2
245.6
221.8
196.9
164.1
135.8
107.5
83.7
63.4
44.1
24.9
0.0

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