

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: P637275

Luminaire Tested: **IFLD-M-SA4B-722-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637275
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-722-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (64) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16226 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

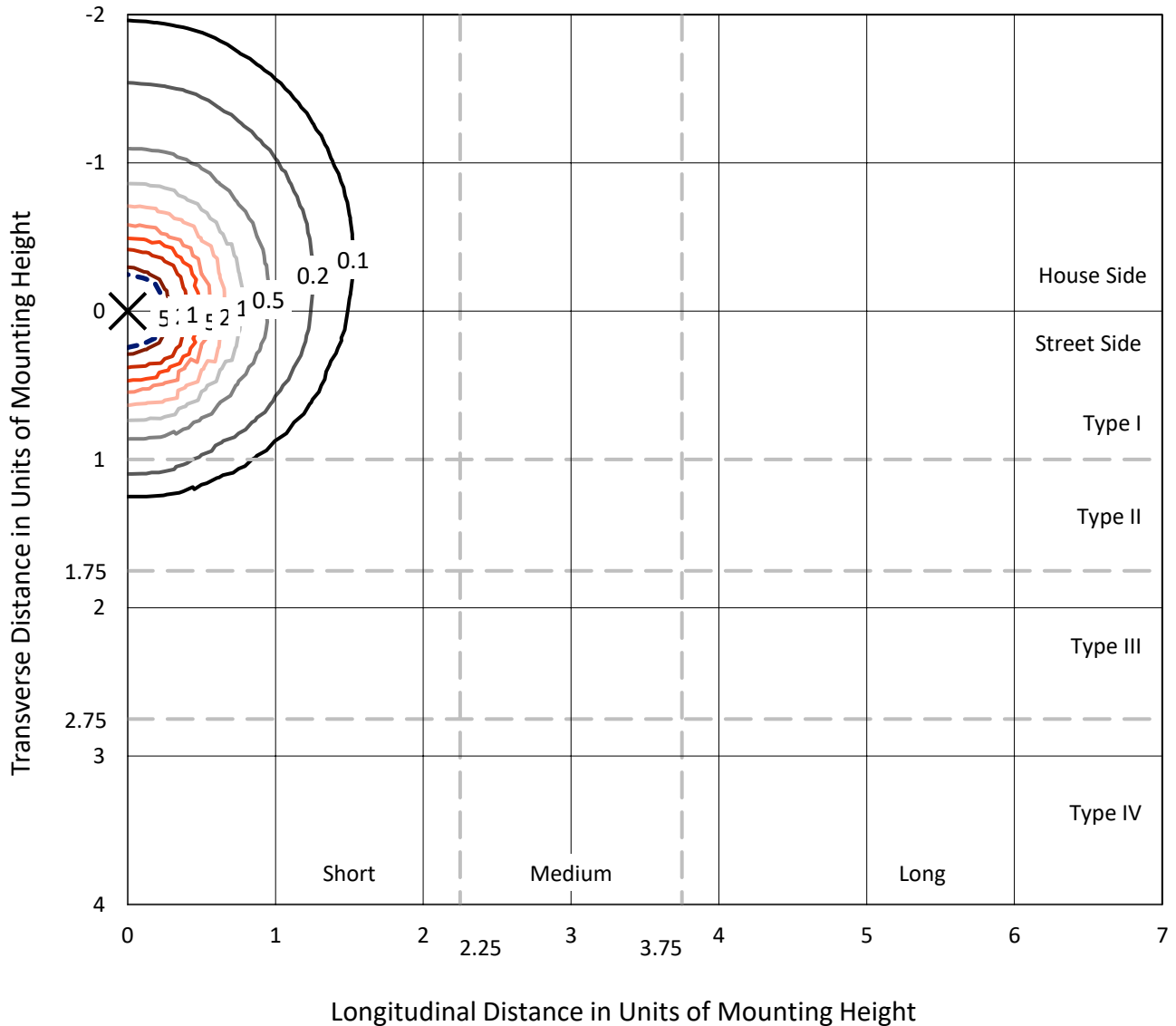
Input Watts (W): 166.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

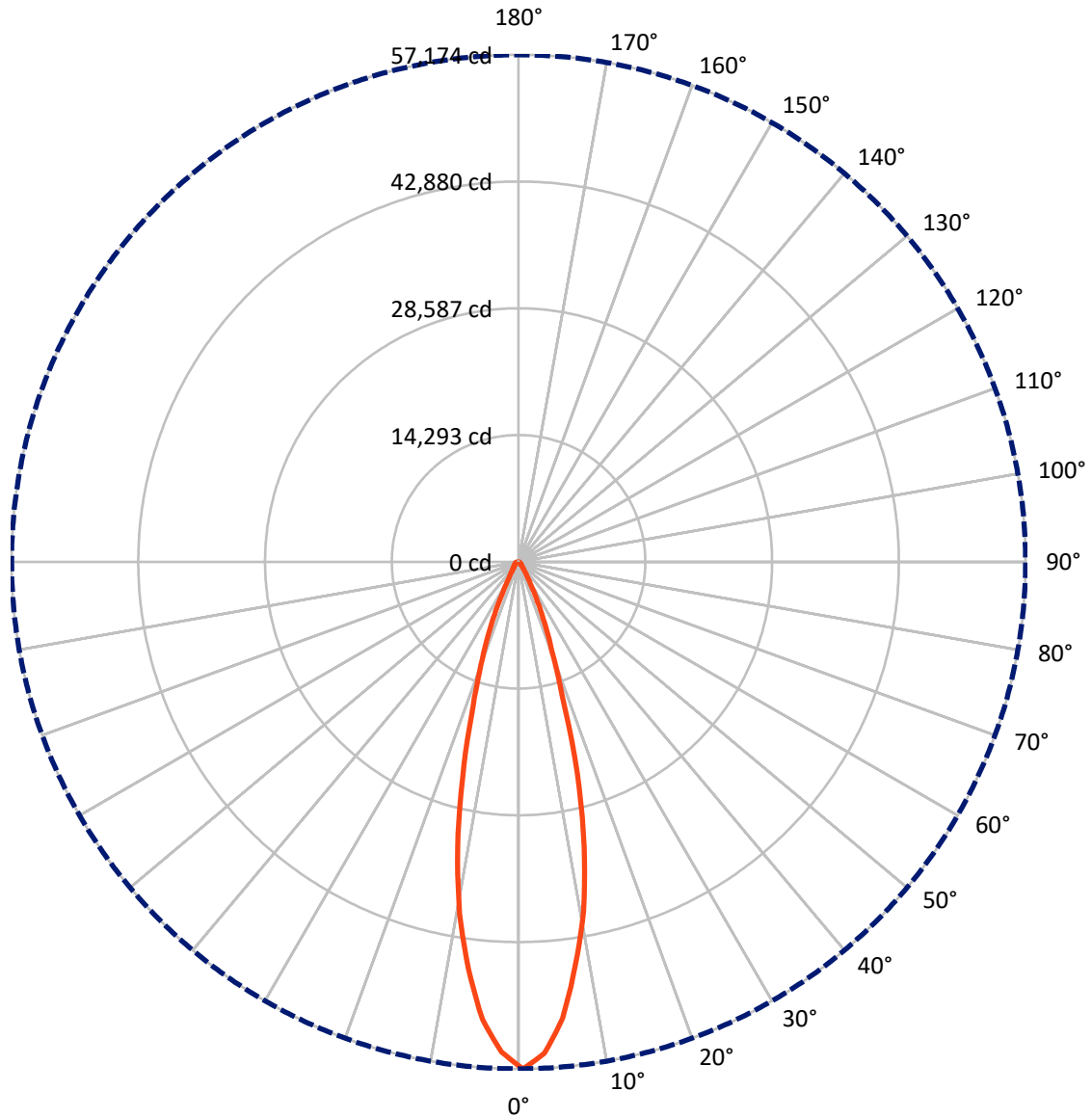
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 142.9 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	8555.4	0.0	8555.4
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	7670.6	0.0	7670.6
	% Fixture	47.3	0.0	47.3
Total	Lumens	16226.0	0.0	16226.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4614.4	28.4
10°-20°	6988.5	43.1
20°-30°	2949.2	18.2
30°-40°	769.2	4.7
40°-50°	389.0	2.4
50°-60°	254.3	1.6
60°-70°	152.3	0.9
70°-80°	80.1	0.5
80°-90°	28.9	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°	16226.0	100.0
0°-180°	16226.0	100.0

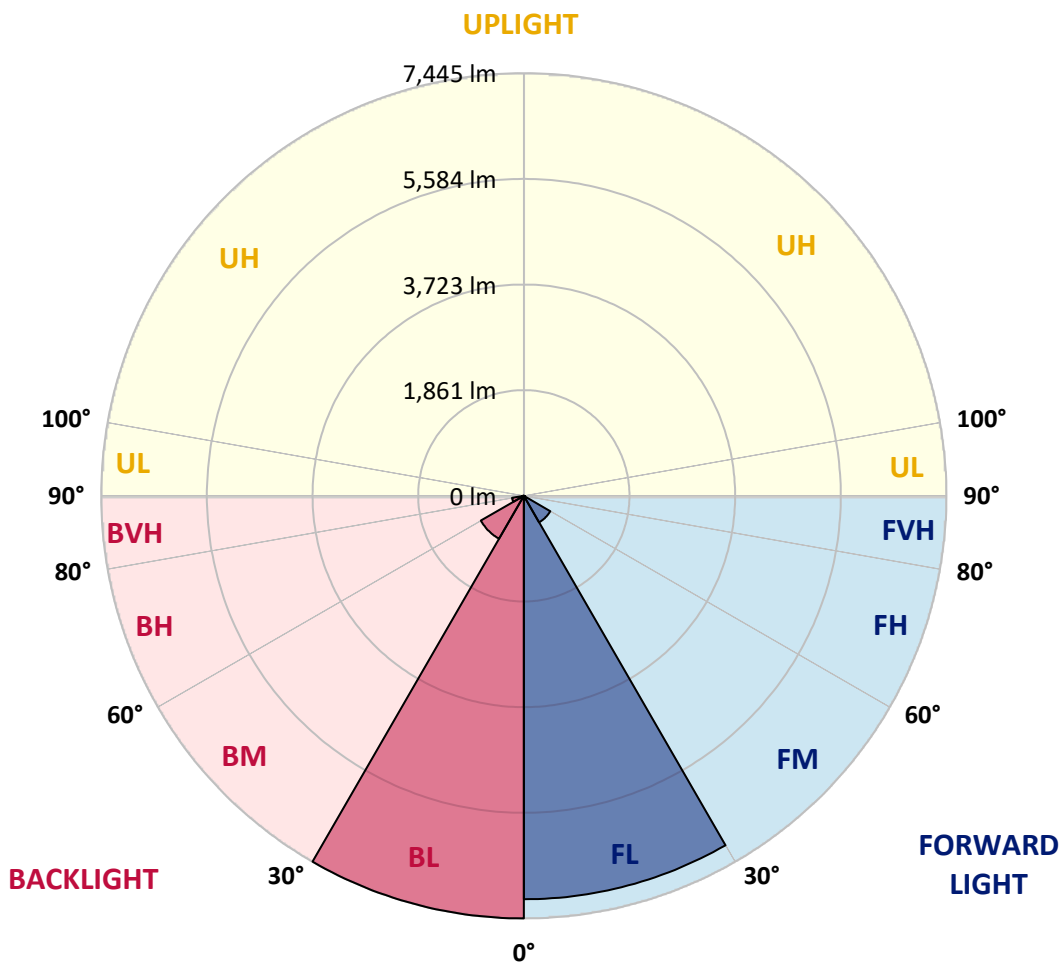


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7106.9	43.8			
FM (30°-60°)	538.2	3.3			
FH (60°-80°)	21.9	0.1			G0/660
FVH (80°-90°)	3.5	0.0			G0/10
BL (0°-30°)	7445.2	45.9	B5		
BM (30°-60°)	874.3	5.4	B1/1000		
BH (60°-80°)	210.6	1.3	B1/500		G0/660
BVH (80°-90°)	25.4	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	57173.5	57173.5	57173.5	57173.5	57173.5	57173.5	57173.5	57173.5	57173.5	57173.5
2.5°	55508.0	55538.9	55424.1	55672.0	55478.8	55996.3	55739.4	56140.3	56005.4	56229.6
5°	51717.8	51666.8	51634.0	52018.4	51907.3	52463.1	52107.7	51991.1	52351.9	52286.3
7.5°	45994.2	46129.1	46052.5	46152.8	46209.3	46843.4	47043.8	46887.1	46892.6	46983.7
10°	40126.7	39928.1	39645.7	39833.4	40230.6	40507.6	40396.4	40626.0	40575.0	40791.8
12.5°	32907.2	33063.9	32905.3	32737.7	33432.0	33355.4	33548.6	33674.3	33359.1	34060.6
15°	24787.4	24869.4	25062.6	25049.8	25583.7	25691.2	25665.7	25798.8	25552.8	25669.4
17.5°	15924.2	16201.2	16720.5	17598.8	18586.5	18701.3	18672.1	18562.8	18444.3	18313.1
20°	10696.3	10667.2	10854.9	11111.8	13156.3	13697.5	13681.1	13338.5	12842.9	12748.1
22.5°	7492.9	7547.6	7522.1	7777.2	8199.9	9692.3	9508.3	9160.2	8998.0	8892.4
25°	4929.1	4909.0	5036.6	5113.1	5475.7	5657.9	6303.0	6173.6	5924.0	5951.3
27.5°	3004.8	3030.3	3077.7	3143.3	3400.2	3341.9	3710.0	3759.2	3679.0	3593.4
30°	1844.1	1862.3	1900.6	1947.9	2037.2	1973.4	2075.5	2252.2	2223.1	2163.0
32.5°	1251.9	1253.7	1281.0	1299.2	1288.3	1228.2	1261.0	1428.6	1432.3	1426.8
35°	900.2	900.2	925.7	940.3	909.3	860.1	865.5	969.4	1015.0	1024.1
37.5°	621.4	623.2	666.9	710.7	676.0	663.3	641.4	710.7	783.5	794.5
40°	472.0	470.1	492.0	524.8	528.4	504.8	512.0	555.8	630.5	639.6
42.5°	382.7	384.5	395.4	391.8	393.6	424.6	435.5	455.6	524.8	541.2
45°	322.5	324.4	329.8	311.6	304.3	351.7	366.3	377.2	435.5	455.6
47.5°	266.0	269.7	275.2	255.1	251.5	282.4	308.0	318.9	369.9	391.8
50°	191.3	195.0	215.0	204.1	215.0	222.3	256.9	273.3	308.0	337.1
52.5°	138.5	142.1	147.6	149.4	176.8	180.4	205.9	231.4	247.8	280.6
55°	109.3	113.0	109.3	105.7	129.4	149.4	158.5	185.9	198.6	236.9
57.5°	62.0	65.6	71.1	82.0	85.6	114.8	123.9	147.6	158.5	195.0
60°	10.9	12.8	20.0	49.2	60.1	72.9	92.9	113.0	127.6	153.1
62.5°	1.8	1.8	3.6	10.9	34.6	51.0	67.4	80.2	92.9	116.6
65°	0.0	0.0	1.8	3.6	9.1	29.2	36.4	47.4	63.8	83.8
67.5°	0.0	0.0	1.8	3.6	5.5	10.9	16.4	29.2	36.4	56.5
70°	0.0	0.0	1.8	3.6	5.5	7.3	9.1	12.8	21.9	34.6
72.5°	0.0	0.0	1.8	3.6	5.5	7.3	9.1	10.9	10.9	21.9
75°	0.0	0.0	1.8	3.6	5.5	9.1	10.9	10.9	9.1	9.1
77.5°	0.0	0.0	1.8	3.6	7.3	10.9	12.8	10.9	7.3	7.3
80°	0.0	0.0	3.6	5.5	9.1	12.8	16.4	12.8	7.3	3.6
82.5°	0.0	0.0	3.6	7.3	9.1	14.6	20.0	16.4	7.3	3.6
85°	0.0	0.0	1.8	5.5	10.9	14.6	20.0	14.6	7.3	1.8
87.5°	0.0	0.0	1.8	1.8	3.6	5.5	10.9	9.1	3.6	1.8
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°
57173.5	0°	57173.5	57173.5	57173.5	57173.5	57173.5	57173.5	57173.5	57173.5	57173.5
55805.0	2.5°	56125.7	56417.2	56477.4	56397.2	56513.8	56304.3	56143.9	55728.4	55478.8
52266.3	5°	52603.4	52559.6	52863.9	52964.2	52951.4	52791.1	52566.9	52315.5	52071.3
46806.9	7.5°	47098.5	47155.0	47432.0	47608.7	47519.4	47319.0	47164.1	46974.6	46810.6
40870.2	10°	41243.8	40855.6	41200.0	41200.0	41438.7	40872.0	40924.9	40447.4	40469.3
34047.9	12.5°	34164.5	34304.8	34361.3	34523.5	34244.7	33944.0	33575.9	33503.0	33275.3
25447.1	15°	25813.3	26214.2	25869.8	26458.4	26174.1	25860.7	25804.2	25239.3	25417.9
18457.1	17.5°	18366.0	18808.8	18947.3	19284.4	19025.6	18839.8	18604.7	18433.4	18420.7
12921.2	20°	13023.3	13467.9	13569.9	13974.5	13945.3	13887.0	13688.4	13471.5	13236.5
8795.8	22.5°	8928.8	9291.4	9630.3	10175.2	10166.1	9994.8	9974.7	9668.6	9674.1
5942.2	25°	6004.2	6268.4	6348.6	6906.2	6968.1	6949.9	6846.0	6561.8	6669.3
3629.8	27.5°	3633.5	3864.9	4136.4	4333.2	4519.1	4489.9	4386.0	4227.5	4158.3
2181.2	30°	2239.5	2343.4	2443.6	2680.5	2791.6	2849.9	2800.7	2653.1	2664.1
1435.9	32.5°	1466.9	1554.3	1627.2	1776.6	1835.0	1942.5	1922.4	1891.4	1855.0
1033.2	35°	1069.6	1133.4	1182.6	1251.9	1326.6	1417.7	1432.3	1419.5	1404.9
798.1	37.5°	816.3	881.9	938.4	967.6	1025.9	1097.0	1137.1	1135.2	1124.3
650.5	40°	663.3	712.5	763.5	801.8	841.9	894.7	943.9	949.4	949.4
546.7	42.5°	553.9	595.9	646.9	687.0	716.1	765.3	816.3	820.0	816.3
462.8	45°	473.8	510.2	559.4	606.8	630.5	666.9	716.1	727.1	719.8
397.2	47.5°	411.8	444.6	486.5	537.6	563.1	595.9	641.4	654.2	652.3
342.6	50°	353.5	391.8	433.7	475.6	508.4	539.4	583.1	597.7	592.2
291.6	52.5°	311.6	346.2	382.7	428.2	466.5	493.8	528.4	553.9	546.7
246.0	55°	260.6	302.5	340.8	379.0	426.4	455.6	488.4	519.3	512.0
207.7	57.5°	226.0	260.6	304.3	338.9	386.3	420.9	453.7	486.5	484.7
169.5	60°	189.5	226.0	267.9	304.3	348.0	386.3	419.1	455.6	459.2
127.6	62.5°	149.4	193.2	229.6	271.5	315.2	357.2	386.3	422.8	428.2
96.6	65°	113.0	158.5	198.6	238.7	282.4	328.0	353.5	384.5	390.0
71.1	67.5°	83.8	122.1	169.5	205.9	251.5	295.2	318.9	344.4	353.5
43.7	70°	63.8	92.9	142.1	176.8	224.1	258.8	284.3	306.1	313.4
29.2	72.5°	40.1	72.9	114.8	151.2	193.2	224.1	242.4	255.1	266.0
16.4	75°	27.3	56.5	92.9	129.4	160.4	184.0	200.4	211.4	220.5
7.3	77.5°	16.4	43.7	76.5	107.5	127.6	145.8	162.2	169.5	174.9
5.5	80°	9.1	32.8	63.8	87.5	100.2	113.0	125.7	134.8	138.5
3.6	82.5°	5.5	25.5	51.0	67.4	72.9	85.6	98.4	103.9	103.9
1.8	85°	3.6	18.2	34.6	49.2	52.8	62.0	65.6	69.2	72.9
1.8	87.5°	3.6	10.9	21.9	27.3	29.2	32.8	34.6	38.3	41.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
57173.5
55294.8
51798.0
46254.8
40256.1
33067.5
25239.3
18081.7
13134.4
9568.4
6499.8
4098.1
2616.7
1842.2
1399.5
1118.8
938.4
812.7
719.8
648.7
588.6
544.8
515.7
486.5
461.0
431.9
395.4
357.2
317.1
264.2
218.7
173.1
134.8
102.0
71.1
40.1
0.0

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