

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: P637350

Luminaire Tested: **IFLD-S-SA2E-735-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637350
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-735-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (32) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17217.4 lumens
Efficiency: N/A
Efficacy: 110.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

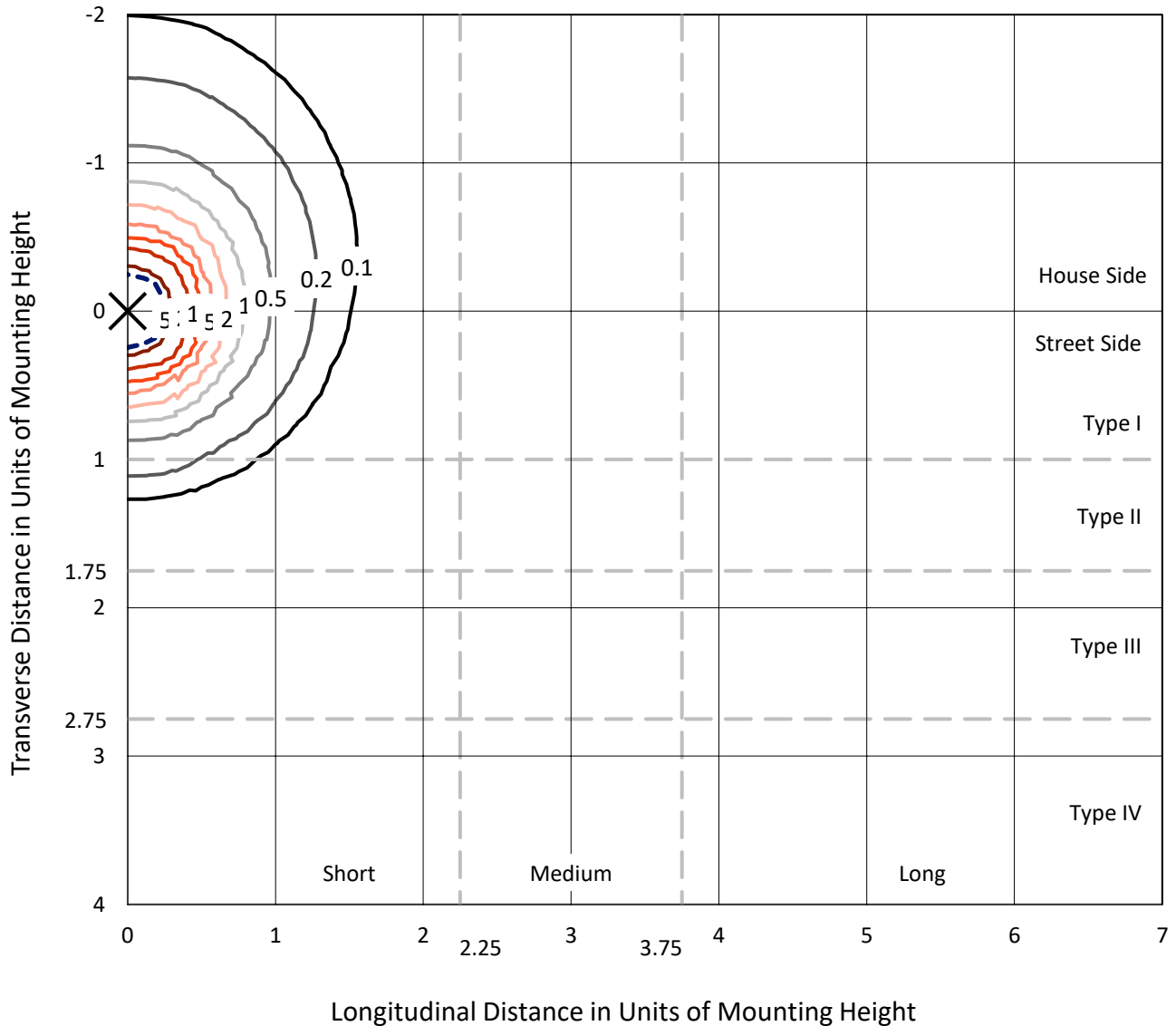
Input Watts (W): 156.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

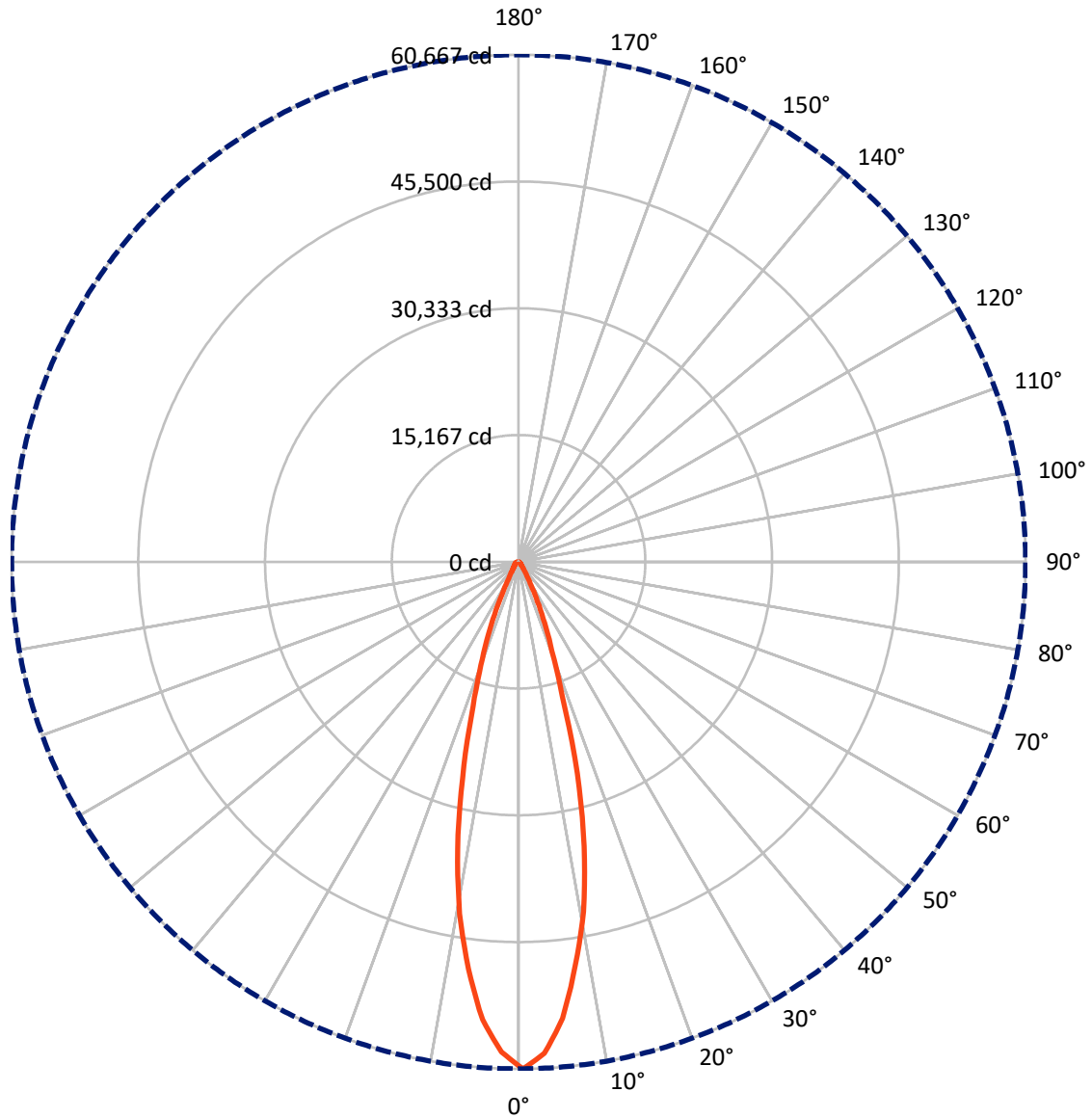
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 151.7 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	9078.2	0.0	9078.2
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	8139.2	0.0	8139.2
	% Fixture	47.3	0.0	47.3
Total	Lumens	17217.4	0.0	17217.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4896.3	28.4
10°-20°	7415.5	43.1
20°-30°	3129.4	18.2
30°-40°	816.2	4.7
40°-50°	412.8	2.4
50°-60°	269.8	1.6
60°-70°	161.7	0.9
70°-80°	85.0	0.5
80°-90°	30.7	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°	17217.4	100.0
0°-180°	17217.4	100.0

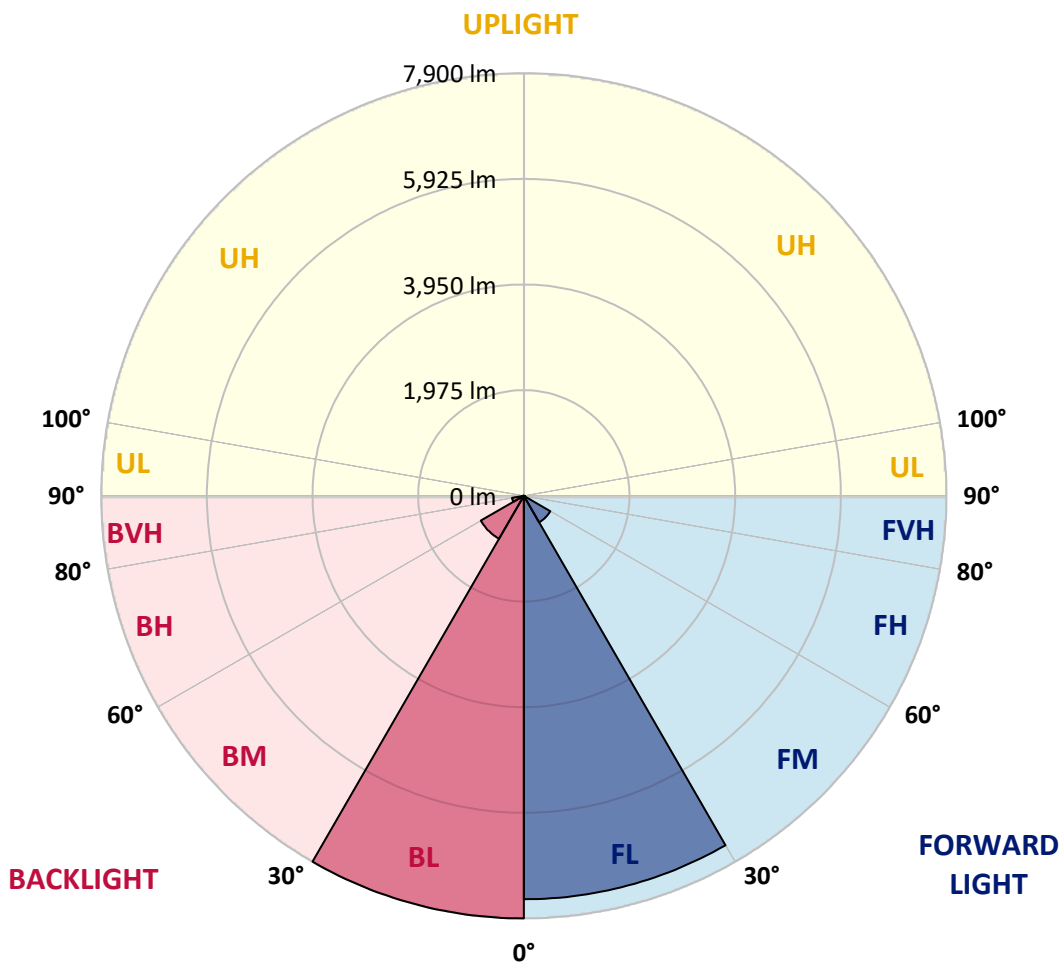


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7541.1	43.8			
FM (30°-60°)	571.1	3.3			
FH (60°-80°)	23.3	0.1			G0/660
FVH (80°-90°)	3.7	0.0			G0/10
BL (0°-30°)	7900.1	45.9	B5		
BM (30°-60°)	927.7	5.4	B1/1000		
BH (60°-80°)	223.4	1.3	B1/500		G0/660
BVH (80°-90°)	27.0	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°	60666.6	60666.6	60666.6	60666.6	60666.6	60666.6	60666.6	60666.6	60666.6	60666.6
2.5°	58899.3	58932.2	58810.4	59073.4	58868.4	59417.5	59144.9	59570.3	59427.2	59665.0
5°	54877.6	54823.4	54788.6	55196.6	55078.7	55668.4	55291.4	55167.6	55550.5	55480.8
7.5°	48804.4	48947.4	48866.2	48972.6	49032.5	49705.4	49918.1	49751.8	49757.6	49854.3
10°	42578.4	42367.6	42067.9	42267.1	42688.6	42982.5	42864.5	43108.2	43054.0	43284.1
12.5°	34917.7	35084.0	34915.8	34737.9	35474.6	35393.4	35598.3	35731.7	35397.2	36141.6
15°	26301.9	26388.9	26593.8	26580.3	27146.8	27260.9	27233.8	27375.0	27114.0	27237.7
17.5°	16897.2	17191.1	17742.1	18674.1	19722.1	19843.9	19812.9	19696.9	19571.2	19432.0
20°	11349.8	11318.9	11518.1	11790.7	13960.1	14534.4	14517.0	14153.5	13627.6	13527.0
22.5°	7950.7	8008.7	7981.6	8252.3	8700.9	10284.5	10089.2	9719.9	9547.8	9435.7
25°	5230.2	5208.9	5344.3	5425.5	5810.3	6003.6	6688.1	6550.8	6285.9	6314.9
27.5°	3188.4	3215.5	3265.7	3335.3	3608.0	3546.1	3936.7	3988.9	3903.8	3812.9
30°	1956.7	1976.1	2016.7	2066.9	2161.7	2094.0	2202.3	2389.8	2358.9	2295.1
32.5°	1328.3	1330.3	1359.3	1378.6	1367.0	1303.2	1338.0	1515.9	1519.8	1514.0
35°	955.2	955.2	982.2	997.7	964.8	912.6	918.4	1028.6	1077.0	1086.6
37.5°	659.3	661.3	707.7	754.1	717.3	703.8	680.6	754.1	831.4	843.0
40°	500.8	498.9	522.1	556.9	560.7	535.6	543.3	589.7	669.0	678.7
42.5°	406.0	408.0	419.6	415.7	417.6	450.5	462.1	483.4	556.9	574.3
45°	342.2	344.2	350.0	330.6	322.9	373.2	388.6	400.2	462.1	483.4
47.5°	282.3	286.2	292.0	270.7	266.8	299.7	326.8	338.4	392.5	415.7
50°	203.0	206.9	228.2	216.6	228.2	235.9	272.6	290.0	326.8	357.7
52.5°	146.9	150.8	156.6	158.5	187.6	191.4	218.5	245.6	263.0	297.8
55°	116.0	119.9	116.0	112.1	137.3	158.5	168.2	197.2	210.8	251.4
57.5°	65.7	69.6	75.4	87.0	90.9	121.8	131.5	156.6	168.2	206.9
60°	11.6	13.5	21.3	52.2	63.8	77.3	98.6	119.9	135.3	162.4
62.5°	1.9	1.9	3.9	11.6	36.7	54.1	71.5	85.1	98.6	123.7
65°	0.0	0.0	1.9	3.9	9.7	30.9	38.7	50.3	67.7	88.9
67.5°	0.0	0.0	1.9	3.9	5.8	11.6	17.4	30.9	38.7	59.9
70°	0.0	0.0	1.9	3.9	5.8	7.7	9.7	13.5	23.2	36.7
72.5°	0.0	0.0	1.9	3.9	5.8	7.7	9.7	11.6	11.6	23.2
75°	0.0	0.0	1.9	3.9	5.8	9.7	11.6	11.6	9.7	9.7
77.5°	0.0	0.0	1.9	3.9	7.7	11.6	13.5	11.6	7.7	7.7
80°	0.0	0.0	3.9	5.8	9.7	13.5	17.4	13.5	7.7	3.9
82.5°	0.0	0.0	3.9	7.7	9.7	15.5	21.3	17.4	7.7	3.9
85°	0.0	0.0	1.9	5.8	11.6	15.5	21.3	15.5	7.7	1.9
87.5°	0.0	0.0	1.9	1.9	3.9	5.8	11.6	9.7	3.9	1.9
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°
60666.6	0°	60666.6	60666.6	60666.6	60666.6	60666.6	60666.6	60666.6	60666.6	60666.6
59214.5	2.5°	59554.8	59864.2	59928.0	59842.9	59966.7	59744.3	59574.1	59133.3	58868.4
55459.6	5°	55817.3	55770.9	56093.8	56200.1	56186.6	56016.4	55778.6	55511.8	55252.7
49666.7	7.5°	49976.1	50036.0	50329.9	50517.5	50422.7	50210.0	50045.7	49844.6	49670.6
43367.3	10°	43763.6	43351.8	43717.2	43717.2	43970.5	43369.2	43425.3	42918.7	42941.9
36128.1	12.5°	36251.8	36400.7	36460.7	36632.8	36336.9	36017.9	35627.3	35550.0	35308.3
27001.8	15°	27390.5	27815.8	27450.4	28074.9	27773.3	27440.7	27380.8	26781.4	26970.9
19584.8	17.5°	19488.1	19957.9	20104.9	20462.6	20188.0	19990.8	19741.4	19559.6	19546.1
13710.7	20°	13819.0	14290.8	14399.0	14828.3	14797.3	14735.5	14524.7	14294.6	14045.2
9333.2	22.5°	9474.3	9859.1	10218.7	10796.9	10787.2	10605.4	10584.2	10259.3	10265.1
6305.3	25°	6371.0	6651.4	6736.4	7328.1	7393.8	7374.5	7264.3	6962.7	7076.7
3851.6	27.5°	3855.5	4101.0	4389.1	4597.9	4795.2	4764.2	4654.0	4485.8	4412.3
2314.4	30°	2376.3	2486.5	2592.9	2844.2	2962.2	3024.0	2971.8	2815.2	2826.8
1523.6	32.5°	1556.5	1649.3	1726.6	1885.2	1947.1	2061.1	2039.9	2007.0	1968.3
1096.3	35°	1135.0	1202.7	1254.9	1328.3	1407.6	1504.3	1519.8	1506.2	1490.8
846.9	37.5°	866.2	935.8	995.8	1026.7	1088.6	1164.0	1206.5	1204.6	1193.0
690.3	40°	703.8	756.0	810.2	850.8	893.3	949.4	1001.6	1007.4	1007.4
580.1	42.5°	587.8	632.3	686.4	728.9	759.9	812.1	866.2	870.1	866.2
491.1	45°	502.7	541.4	593.6	643.9	669.0	707.7	759.9	771.5	763.7
421.5	47.5°	437.0	471.8	516.3	570.4	597.5	632.3	680.6	694.1	692.2
363.5	50°	375.1	415.7	460.2	504.7	539.5	572.3	618.7	634.2	628.4
309.4	52.5°	330.6	367.4	406.0	454.4	495.0	524.0	560.7	587.8	580.1
261.0	55°	276.5	321.0	361.6	402.2	452.4	483.4	518.2	551.1	543.3
220.4	57.5°	239.8	276.5	322.9	359.6	409.9	446.6	481.5	516.3	514.3
179.8	60°	201.1	239.8	284.2	322.9	369.3	409.9	444.7	483.4	487.3
135.3	62.5°	158.5	205.0	243.6	288.1	334.5	379.0	409.9	448.6	454.4
102.5	65°	119.9	168.2	210.8	253.3	299.7	348.0	375.1	408.0	413.8
75.4	67.5°	88.9	129.5	179.8	218.5	266.8	313.2	338.4	365.4	375.1
46.4	70°	67.7	98.6	150.8	187.6	237.8	274.6	301.6	324.8	332.6
30.9	72.5°	42.5	77.3	121.8	160.5	205.0	237.8	257.2	270.7	282.3
17.4	75°	29.0	59.9	98.6	137.3	170.2	195.3	212.7	224.3	234.0
7.7	77.5°	17.4	46.4	81.2	114.1	135.3	154.7	172.1	179.8	185.6
5.8	80°	9.7	34.8	67.7	92.8	106.3	119.9	133.4	143.1	146.9
3.9	82.5°	5.8	27.1	54.1	71.5	77.3	90.9	104.4	110.2	110.2
1.9	85°	3.9	19.3	36.7	52.2	56.1	65.7	69.6	73.5	77.3
1.9	87.5°	3.9	11.6	23.2	29.0	30.9	34.8	36.7	40.6	44.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
60666.6
58673.1
54962.7
49080.8
42715.7
35087.9
26781.4
19186.5
13936.9
10153.0
6896.9
4348.5
2776.6
1954.8
1485.0
1187.2
995.8
862.4
763.7
688.3
624.5
578.1
547.2
516.3
489.2
458.2
419.6
379.0
336.4
280.4
232.0
183.7
143.1
108.3
75.4
42.5
0.0

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