

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: P637308

Luminaire Tested: **IFLD-L-SA7A-727-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637308
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-727-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (112) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25246.9 lumens
Efficiency: N/A
Efficacy: 116.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

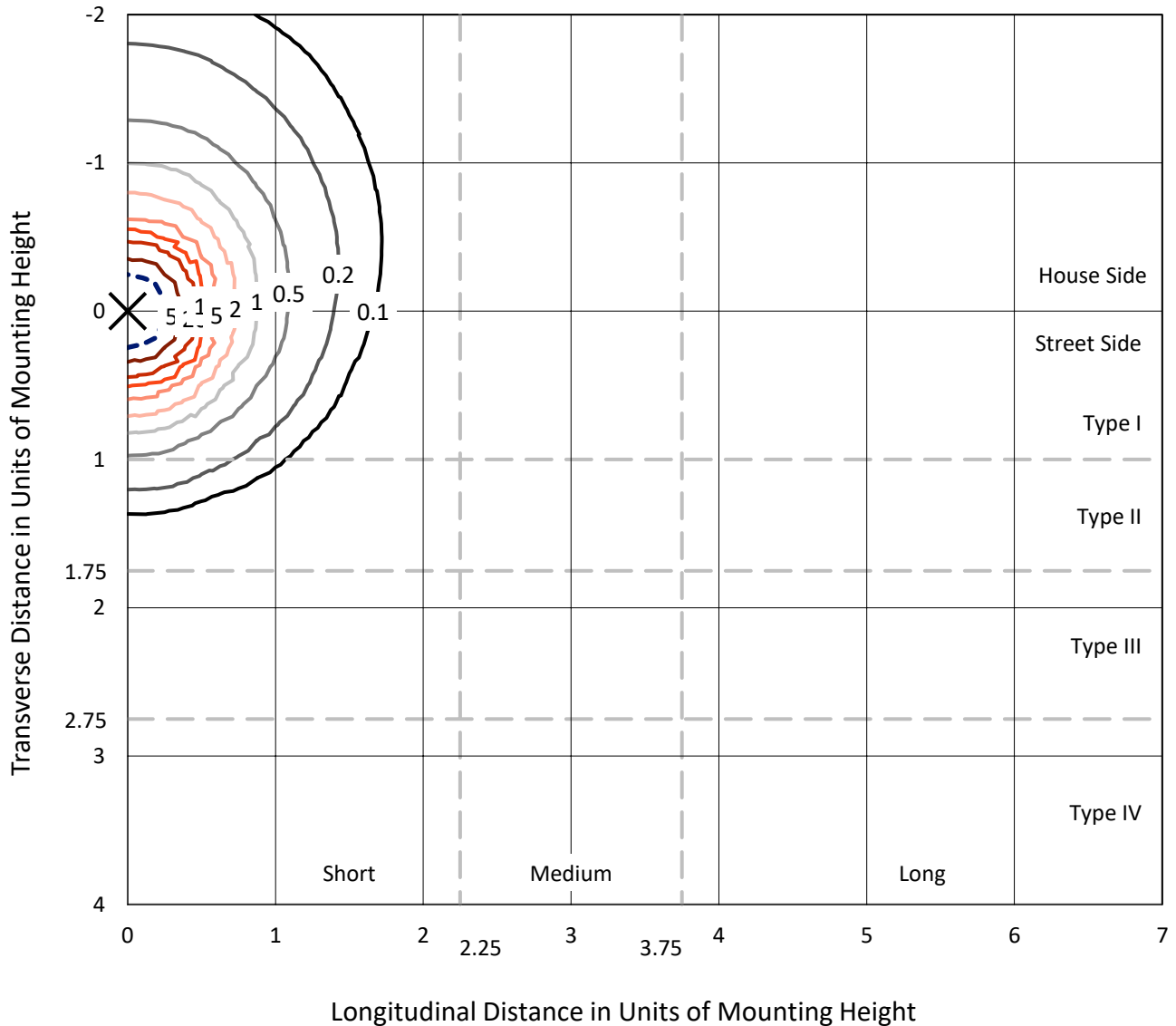
Input Watts (W): 217.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

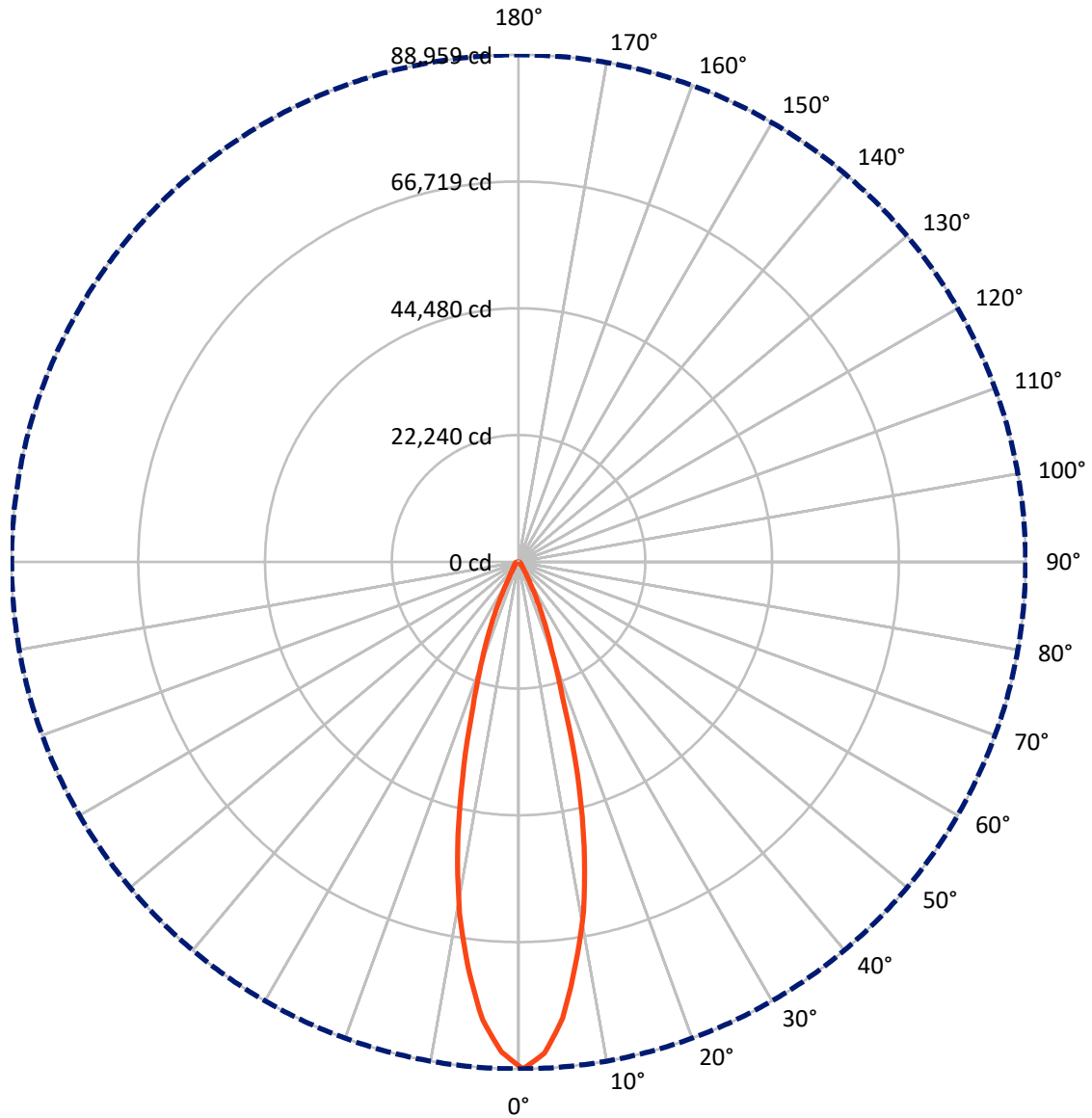
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 222.4 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	13311.9	0.0	13311.9
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	11935.0	0.0	11935.0
	% Fixture	47.3	0.0	47.3
Total	Lumens	25246.9	0.0	25246.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7179.8	28.4
10°-20°	10873.7	43.1
20°-30°	4588.8	18.2
30°-40°	1196.8	4.7
40°-50°	605.3	2.4
50°-60°	395.7	1.6
60°-70°	237.1	0.9
70°-80°	124.7	0.5
80°-90°	45.0	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°	25246.9	100.0
0°-180°	25246.9	100.0

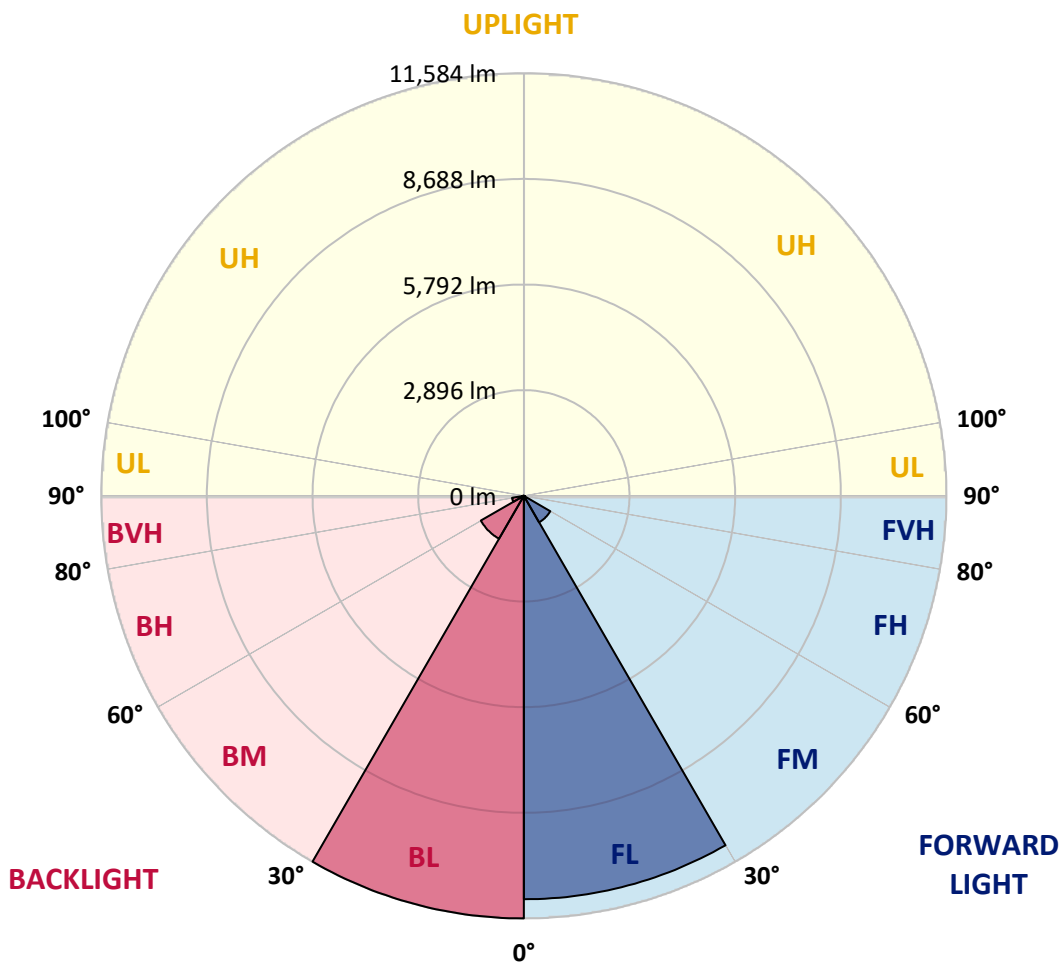


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	11058.0	43.8			
FM (30°-60°)	837.5	3.3			
FH (60°-80°)	34.1	0.1			G0/660
FVH (80°-90°)	5.5	0.0			G0/10
BL (0°-30°)	11584.3	45.9	B5		
BM (30°-60°)	1360.3	5.4	B2/2500		
BH (60°-80°)	327.6	1.3	B1/500		G0/660
BVH (80°-90°)	39.6	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°	88959.2	88959.2	88959.2	88959.2	88959.2	88959.2	88959.2	88959.2	88959.2	88959.2
2.5°	86367.8	86416.0	86237.3	86622.9	86322.4	87127.6	86727.8	87351.6	87141.8	87490.5
5°	80470.4	80391.0	80340.0	80938.2	80765.3	81630.0	81077.2	80895.7	81457.1	81355.0
7.5°	71564.9	71774.7	71655.6	71811.5	71899.4	72886.1	73198.0	72954.1	72962.6	73104.4
10°	62435.3	62126.3	61686.8	61978.8	62596.9	63027.9	62854.9	63212.2	63132.8	63470.2
12.5°	51202.0	51445.8	51199.2	50938.3	52018.6	51899.5	52200.0	52395.7	51905.2	52996.7
15°	38568.1	38695.7	38996.2	38976.4	39807.1	39974.4	39934.7	40141.6	39758.9	39940.3
17.5°	24777.4	25208.3	26016.4	27383.0	28919.7	29098.3	29052.9	28882.8	28698.5	28494.4
20°	16643.0	16597.6	16889.7	17289.4	20470.6	21312.7	21287.2	20754.1	19982.9	19835.5
22.5°	11658.6	11743.7	11704.0	12100.9	12758.7	15080.8	14794.4	14252.9	14000.5	13836.1
25°	7669.4	7638.2	7836.7	7955.7	8520.0	8803.5	9807.2	9605.9	9217.4	9260.0
27.5°	4675.3	4715.0	4788.8	4890.8	5290.6	5199.9	5772.6	5849.1	5724.4	5591.1
30°	2869.3	2897.6	2957.2	3030.9	3169.8	3070.6	3229.4	3504.4	3459.0	3365.5
32.5°	1947.8	1950.7	1993.2	2021.5	2004.5	1911.0	1962.0	2222.8	2228.5	2220.0
35°	1400.6	1400.6	1440.3	1463.0	1414.8	1338.2	1346.7	1508.4	1579.2	1593.4
37.5°	966.8	969.7	1037.7	1105.8	1051.9	1032.0	998.0	1105.8	1219.2	1236.2
40°	734.3	731.5	765.5	816.6	822.2	785.4	796.7	864.8	981.0	995.2
42.5°	595.4	598.2	615.3	609.6	612.4	660.6	677.6	708.8	816.6	842.1
45°	501.8	504.7	513.2	484.8	473.5	547.2	569.9	586.9	677.6	708.8
47.5°	413.9	419.6	428.1	396.9	391.3	439.5	479.2	496.2	575.6	609.6
50°	297.7	303.4	334.6	317.5	334.6	345.9	399.8	425.3	479.2	524.5
52.5°	215.5	221.2	229.7	232.5	275.0	280.7	320.4	360.1	385.6	436.6
55°	170.1	175.8	170.1	164.4	201.3	232.5	246.7	289.2	309.0	368.6
57.5°	96.4	102.1	110.6	127.6	133.3	178.6	192.8	229.7	246.7	303.4
60°	17.0	19.8	31.2	76.6	93.6	113.4	144.6	175.8	198.5	238.2
62.5°	2.8	2.8	5.7	17.0	53.9	79.4	104.9	124.8	144.6	181.5
65°	0.0	0.0	2.8	5.7	14.2	45.4	56.7	73.7	99.2	130.4
67.5°	0.0	0.0	2.8	5.7	8.5	17.0	25.5	45.4	56.7	87.9
70°	0.0	0.0	2.8	5.7	8.5	11.3	14.2	19.8	34.0	53.9
72.5°	0.0	0.0	2.8	5.7	8.5	11.3	14.2	17.0	17.0	34.0
75°	0.0	0.0	2.8	5.7	8.5	14.2	17.0	17.0	14.2	14.2
77.5°	0.0	0.0	2.8	5.7	11.3	17.0	19.8	17.0	11.3	11.3
80°	0.0	0.0	5.7	8.5	14.2	19.8	25.5	19.8	11.3	5.7
82.5°	0.0	0.0	5.7	11.3	14.2	22.7	31.2	25.5	11.3	5.7
85°	0.0	0.0	2.8	8.5	17.0	22.7	31.2	22.7	11.3	2.8
87.5°	0.0	0.0	2.8	2.8	5.7	8.5	17.0	14.2	5.7	2.8
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°
88959.2	0°	88959.2	88959.2	88959.2	88959.2	88959.2	88959.2	88959.2	88959.2	88959.2
86829.9	2.5°	87328.9	87782.6	87876.1	87751.4	87932.8	87606.8	87357.3	86710.8	86322.4
81323.8	5°	81848.4	81780.3	82253.8	82409.7	82389.9	82140.4	81791.7	81400.4	81020.5
72829.4	7.5°	73283.0	73370.9	73801.9	74076.9	73938.0	73626.1	73385.1	73090.2	72835.1
63592.1	10°	64173.3	63569.4	64105.3	64105.3	64476.7	63594.9	63677.2	62934.3	62968.3
52976.9	12.5°	53158.3	53376.7	53464.5	53716.9	53283.1	52815.3	52242.5	52129.1	51774.7
39594.4	15°	40164.3	40788.1	40252.2	41168.0	40725.7	40238.0	40150.2	39271.2	39549.1
28718.4	17.5°	28576.6	29265.6	29481.1	30005.6	29603.0	29313.8	28948.0	28681.5	28661.7
20104.8	20°	20263.6	20955.4	21114.2	21743.6	21698.3	21607.5	21298.5	20961.1	20595.3
13685.8	22.5°	13892.8	14457.0	14984.4	15832.1	15817.9	15551.4	15520.2	15043.9	15052.4
9245.8	25°	9342.2	9753.3	9878.1	10745.6	10842.0	10813.7	10652.1	10209.8	10377.1
5647.8	27.5°	5653.5	6013.6	6436.0	6742.3	7031.5	6986.1	6824.5	6577.8	6470.1
3393.8	30°	3484.5	3646.1	3802.1	4170.7	4343.6	4434.4	4357.8	4128.1	4145.2
2234.2	32.5°	2282.4	2418.5	2531.9	2764.4	2855.1	3022.4	2991.2	2943.0	2886.3
1607.6	35°	1664.3	1763.5	1840.1	1947.8	2064.1	2205.8	2228.5	2208.7	2186.0
1241.8	37.5°	1270.2	1372.3	1460.2	1505.5	1596.3	1706.8	1769.2	1766.4	1749.4
1012.2	40°	1032.0	1108.6	1188.0	1247.5	1309.9	1392.1	1468.7	1477.2	1477.2
850.6	42.5°	861.9	927.1	1006.5	1068.9	1114.3	1190.8	1270.2	1275.9	1270.2
720.2	45°	737.2	793.9	870.4	944.1	981.0	1037.7	1114.3	1131.3	1119.9
618.1	47.5°	640.8	691.8	757.0	836.4	876.1	927.1	998.0	1017.9	1015.0
533.0	50°	550.0	609.6	674.8	740.0	791.0	839.2	907.3	930.0	921.5
453.6	52.5°	484.8	538.7	595.4	666.3	725.8	768.4	822.2	861.9	850.6
382.8	55°	405.4	470.7	530.2	589.7	663.5	708.8	759.9	808.0	796.7
323.2	57.5°	351.6	405.4	473.5	527.4	601.1	654.9	706.0	757.0	754.2
263.7	60°	294.9	351.6	416.8	473.5	541.5	601.1	652.1	708.8	714.5
198.5	62.5°	232.5	300.5	357.2	422.5	490.5	555.7	601.1	657.8	666.3
150.3	65°	175.8	246.7	309.0	371.4	439.5	510.3	550.0	598.2	606.7
110.6	67.5°	130.4	190.0	263.7	320.4	391.3	459.3	496.2	535.9	550.0
68.0	70°	99.2	144.6	221.2	275.0	348.7	402.6	442.3	476.3	487.7
45.4	72.5°	62.4	113.4	178.6	235.3	300.5	348.7	377.1	396.9	413.9
25.5	75°	42.5	87.9	144.6	201.3	249.5	286.4	311.9	328.9	343.1
11.3	77.5°	25.5	68.0	119.1	167.3	198.5	226.8	252.3	263.7	272.2
8.5	80°	14.2	51.0	99.2	136.1	155.9	175.8	195.6	209.8	215.5
5.7	82.5°	8.5	39.7	79.4	104.9	113.4	133.3	153.1	161.6	161.6
2.8	85°	5.7	28.4	53.9	76.6	82.2	96.4	102.1	107.7	113.4
2.8	87.5°	5.7	17.0	34.0	42.5	45.4	51.0	53.9	59.5	65.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
88959.2
86036.0
80595.2
71970.3
62636.6
51451.5
39271.2
28134.3
20436.6
14888.0
10113.4
6376.5
4071.4
2866.5
2177.5
1740.9
1460.2
1264.5
1119.9
1009.4
915.8
847.7
802.4
757.0
717.3
672.0
615.3
555.7
493.3
411.1
340.2
269.3
209.8
158.8
110.6
62.4
0.0

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