

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: P637337

Luminaire Tested: **IFLD-L-SA7A-730-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637337
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-730-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (112) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27489.9 lumens
Efficiency: N/A
Efficacy: 126.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

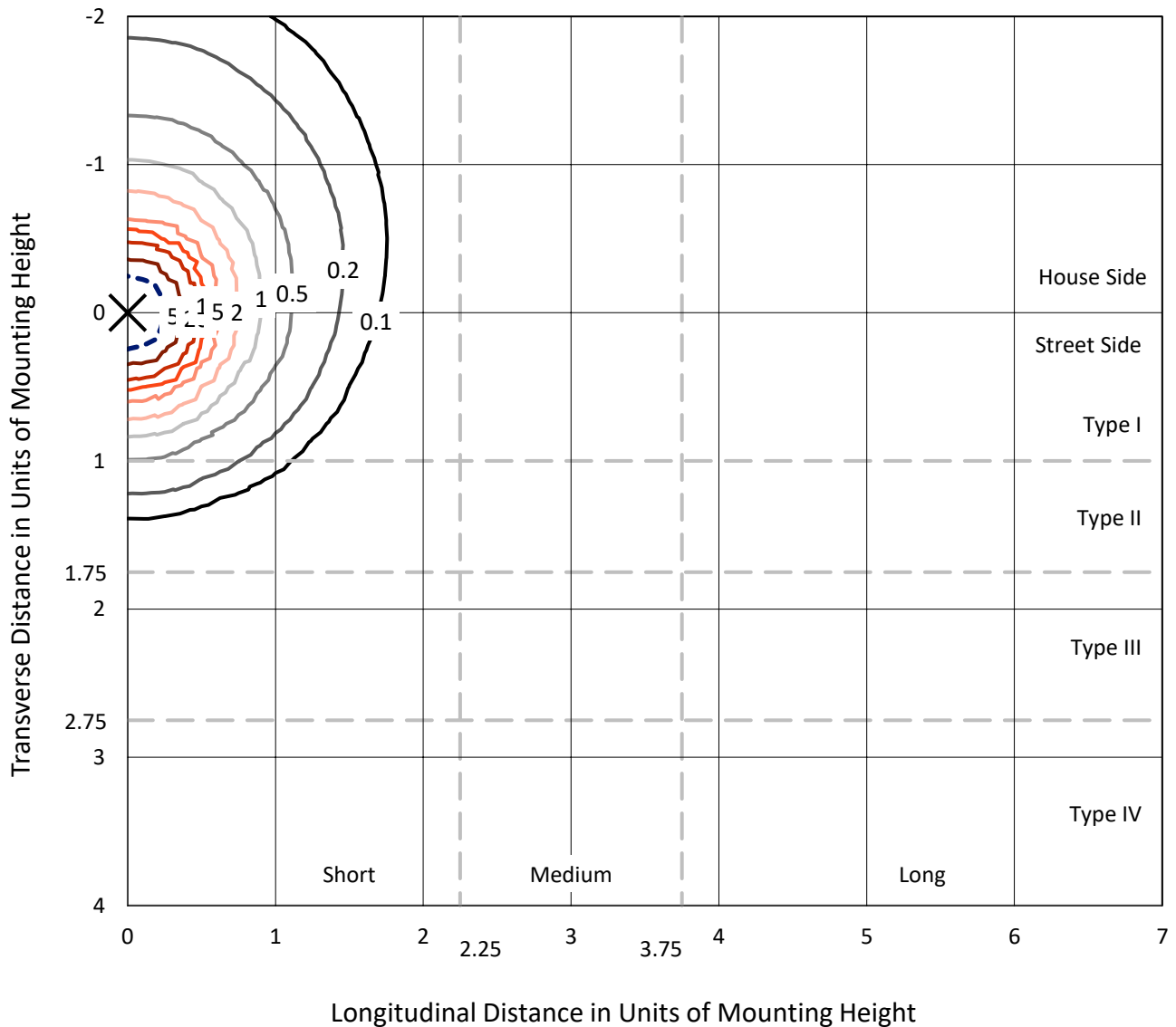
Input Watts (W): 217.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

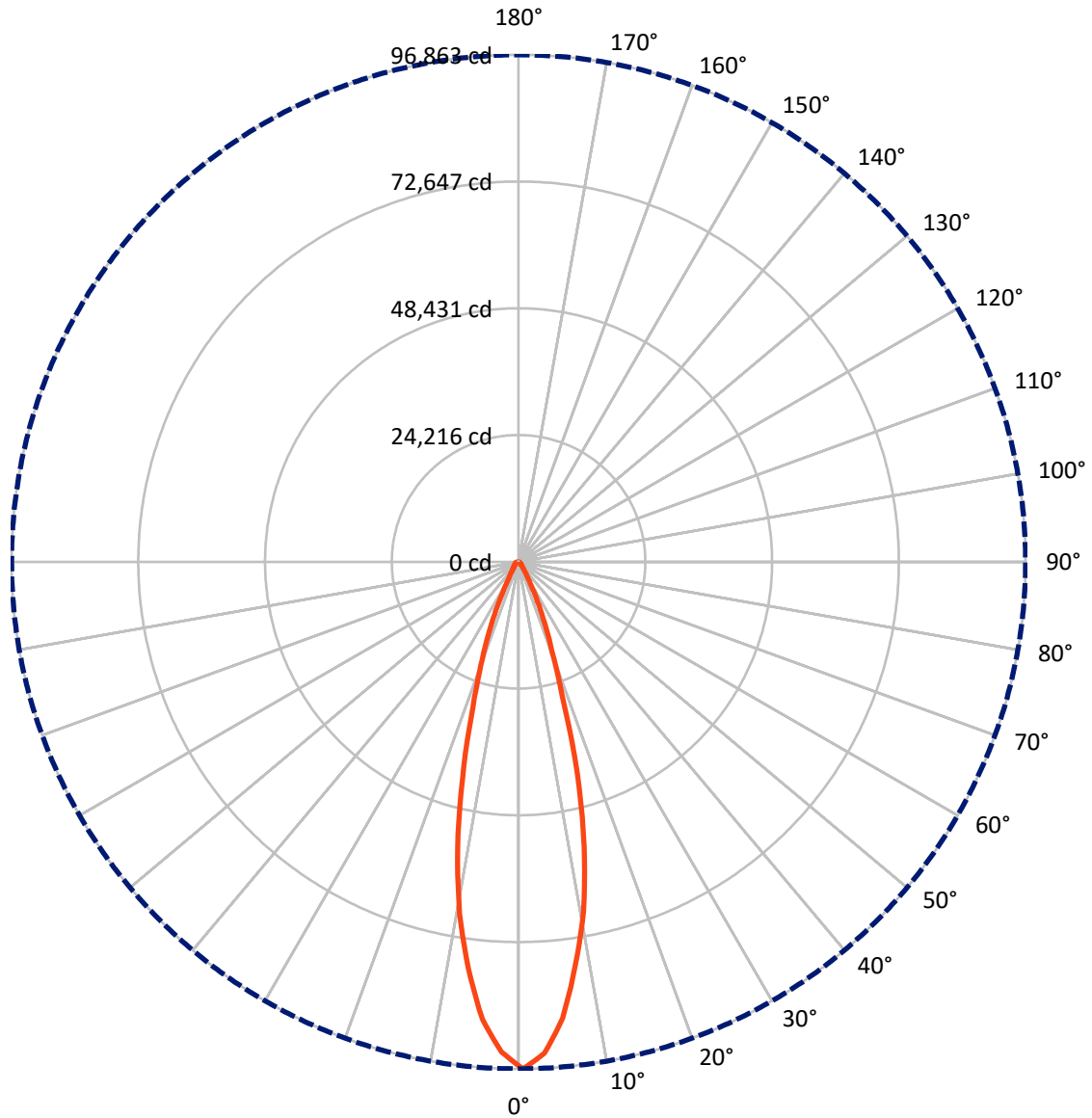
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 242.2 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	14494.5	0.0	14494.5
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	12995.4	0.0	12995.4
	% Fixture	47.3	0.0	47.3
Total	Lumens	27489.9	0.0	27489.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7817.7	28.4
10°-20°	11839.8	43.1
20°-30°	4996.5	18.2
30°-40°	1303.1	4.7
40°-50°	659.1	2.4
50°-60°	430.8	1.6
60°-70°	258.1	0.9
70°-80°	135.8	0.5
80°-90°	49.0	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°	27489.9	100.0
0°-180°	27489.9	100.0

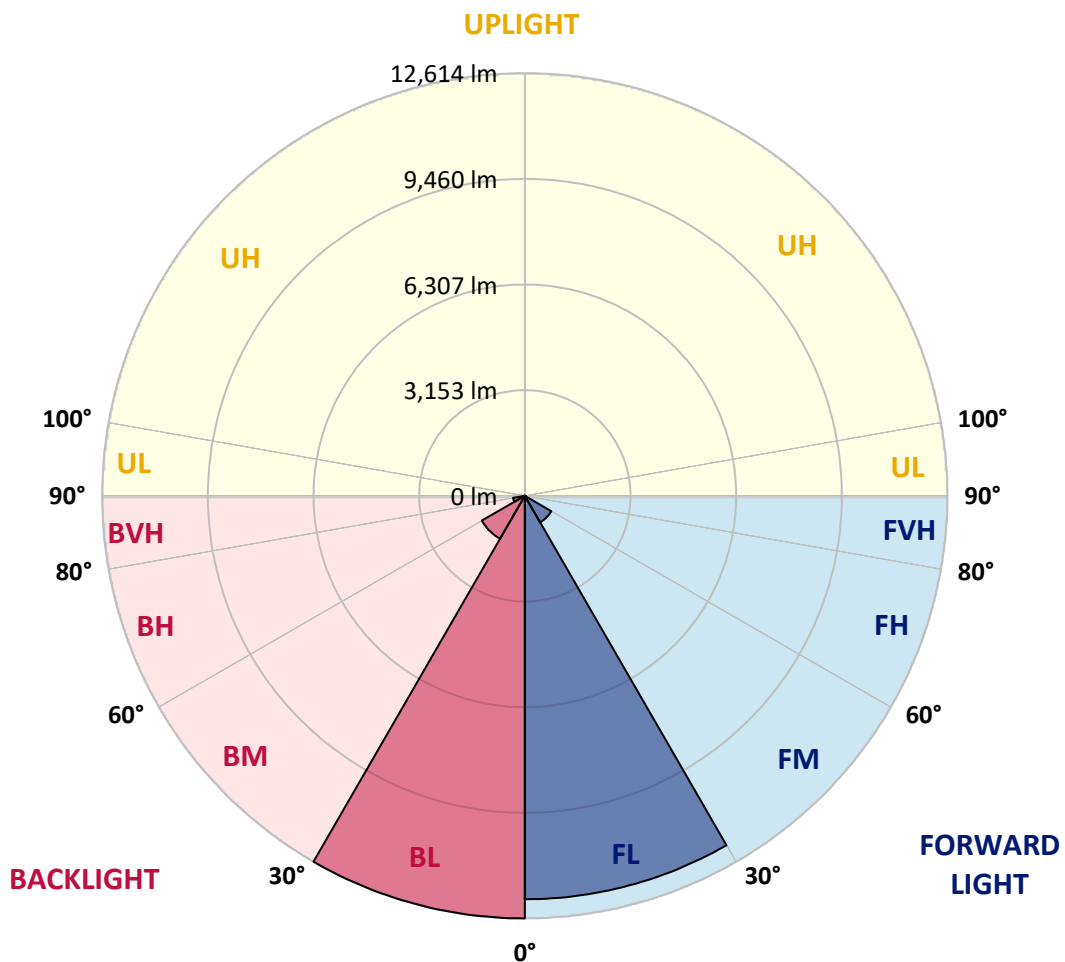


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	12040.4	43.8			
FM (30°-60°)	911.8	3.3			
FH (60°-80°)	37.2	0.1			G0/660
FVH (80°-90°)	6.0	0.0			G0/10
BL (0°-30°)	12613.5	45.9	B5		
BM (30°-60°)	1481.2	5.4	B2/2500		
BH (60°-80°)	356.7	1.3	B1/500		G0/660
BVH (80°-90°)	43.1	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°	96862.7	96862.7	96862.7	96862.7	96862.7	96862.7	96862.7	96862.7	96862.7	96862.7
2.5°	94041.0	94093.5	93899.0	94318.8	93991.6	94868.4	94433.1	95112.2	94883.8	95263.5
5°	87619.7	87533.3	87477.7	88129.1	87940.8	88882.4	88280.4	88082.8	88694.0	88582.9
7.5°	77923.0	78151.4	78021.7	78191.5	78287.2	79361.6	79701.2	79435.7	79444.9	79599.3
10°	67982.3	67645.8	67167.3	67485.3	68158.3	68627.5	68439.2	68828.2	68741.7	69109.1
12.5°	55751.0	56016.5	55747.9	55463.9	56640.1	56510.4	56837.7	57050.7	56516.6	57705.2
15°	41994.6	42133.5	42460.8	42439.2	43343.7	43525.8	43482.6	43708.0	43291.2	43488.8
17.5°	26978.7	27447.9	28327.8	29815.8	31489.0	31683.5	31634.1	31448.9	31248.2	31025.9
20°	18121.6	18072.2	18390.2	18825.5	22289.3	23206.2	23178.4	22598.0	21758.3	21597.8
22.5°	12694.4	12787.0	12743.8	13176.0	13892.2	16420.6	16108.8	15519.1	15244.4	15065.3
25°	8350.8	8316.8	8532.9	8662.6	9276.9	9585.6	10678.5	10459.3	10036.4	10082.7
27.5°	5090.7	5133.9	5214.2	5325.3	5760.6	5661.8	6285.5	6368.8	6233.0	6087.9
30°	3124.2	3155.1	3219.9	3300.2	3451.4	3343.4	3516.3	3815.7	3766.3	3664.5
32.5°	2120.9	2124.0	2170.3	2201.1	2182.6	2080.7	2136.3	2420.3	2426.5	2417.2
35°	1525.1	1525.1	1568.3	1593.0	1540.5	1457.1	1466.4	1642.4	1719.5	1735.0
37.5°	1052.7	1055.8	1129.9	1204.0	1145.3	1123.7	1086.7	1204.0	1327.5	1346.0
40°	799.6	796.5	833.5	889.1	895.3	855.1	867.5	941.6	1068.2	1083.6
42.5°	648.3	651.4	669.9	663.7	666.8	719.3	737.8	771.8	889.1	916.9
45°	546.4	549.5	558.8	527.9	515.6	595.8	620.5	639.0	737.8	771.8
47.5°	450.7	456.9	466.2	432.2	426.0	478.5	521.7	540.3	626.7	663.7
50°	324.2	330.3	364.3	345.8	364.3	376.6	435.3	463.1	521.7	571.1
52.5°	234.6	240.8	250.1	253.1	299.5	305.6	348.8	392.1	419.9	475.4
55°	185.2	191.4	185.2	179.1	219.2	253.1	268.6	314.9	336.5	401.3
57.5°	105.0	111.1	120.4	138.9	145.1	194.5	209.9	250.1	268.6	330.3
60°	18.5	21.6	34.0	83.4	101.9	123.5	157.4	191.4	216.1	259.3
62.5°	3.1	3.1	6.2	18.5	58.7	86.4	114.2	135.8	157.4	197.6
65°	0.0	0.0	3.1	6.2	15.4	49.4	61.7	80.3	108.1	142.0
67.5°	0.0	0.0	3.1	6.2	9.3	18.5	27.8	49.4	61.7	95.7
70°	0.0	0.0	3.1	6.2	9.3	12.3	15.4	21.6	37.0	58.7
72.5°	0.0	0.0	3.1	6.2	9.3	12.3	15.4	18.5	18.5	37.0
75°	0.0	0.0	3.1	6.2	9.3	15.4	18.5	18.5	15.4	15.4
77.5°	0.0	0.0	3.1	6.2	12.3	18.5	21.6	18.5	12.3	12.3
80°	0.0	0.0	6.2	9.3	15.4	21.6	27.8	21.6	12.3	6.2
82.5°	0.0	0.0	6.2	12.3	15.4	24.7	34.0	27.8	12.3	6.2
85°	0.0	0.0	3.1	9.3	18.5	24.7	34.0	24.7	12.3	3.1
87.5°	0.0	0.0	3.1	3.1	6.2	9.3	18.5	15.4	6.2	3.1
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°
96862.7	0°	96862.7	96862.7	96862.7	96862.7	96862.7	96862.7	96862.7	96862.7	96862.7
94544.2	2.5°	95087.5	95581.5	95683.4	95547.5	95745.1	95390.1	95118.4	94414.5	93991.6
88548.9	5°	89120.1	89046.0	89561.5	89731.3	89709.7	89438.0	89058.3	88632.3	88218.6
79299.8	7.5°	79793.8	79889.5	80358.7	80658.2	80506.9	80167.3	79904.9	79583.8	79306.0
69241.9	10°	69874.7	69217.2	69800.6	69800.6	70205.1	69245.0	69334.5	68525.6	68562.7
57683.5	12.5°	57881.1	58118.8	58214.5	58489.3	58017.0	57507.6	56884.0	56760.5	56374.6
43112.2	15°	43732.7	44411.9	43828.4	44825.5	44343.9	43812.9	43717.2	42760.2	43062.8
31269.8	17.5°	31115.5	31865.6	32100.3	32671.4	32233.0	31918.1	31519.9	31229.7	31208.1
21891.0	20°	22063.9	22817.2	22990.1	23675.4	23626.0	23527.2	23190.7	22823.4	22425.1
14901.7	22.5°	15127.1	15741.4	16315.6	17238.7	17223.3	16933.1	16899.1	16380.5	16389.7
10067.2	25°	10172.2	10619.8	10755.7	11700.3	11805.3	11774.4	11598.5	11116.9	11299.0
6149.6	27.5°	6155.8	6547.9	7007.8	7341.3	7656.2	7606.8	7430.8	7162.2	7044.9
3695.3	30°	3794.1	3970.1	4139.9	4541.2	4729.5	4828.3	4745.0	4494.9	4513.4
2432.7	32.5°	2485.2	2633.3	2756.8	3010.0	3108.8	3290.9	3257.0	3204.5	3142.7
1750.4	35°	1812.2	1920.2	2003.6	2120.9	2247.5	2401.8	2426.5	2404.9	2380.2
1352.2	37.5°	1383.0	1494.2	1589.9	1639.3	1738.1	1858.5	1926.4	1923.3	1904.8
1102.1	40°	1123.7	1207.1	1293.5	1358.3	1426.3	1515.8	1599.1	1608.4	1608.4
926.1	42.5°	938.5	1009.5	1095.9	1163.9	1213.3	1296.6	1383.0	1389.2	1383.0
784.1	45°	802.7	864.4	947.8	1028.0	1068.2	1129.9	1213.3	1231.8	1219.4
673.0	47.5°	697.7	753.3	824.3	910.7	953.9	1009.5	1086.7	1108.3	1105.2
580.4	50°	598.9	663.7	734.7	805.7	861.3	913.8	987.9	1012.6	1003.3
493.9	52.5°	527.9	586.6	648.3	725.5	790.3	836.6	895.3	938.5	926.1
416.8	55°	441.5	512.5	577.3	642.1	722.4	771.8	827.4	879.8	867.5
351.9	57.5°	382.8	441.5	515.6	574.2	654.5	713.1	768.7	824.3	821.2
287.1	60°	321.1	382.8	453.8	515.6	589.6	654.5	710.0	771.8	778.0
216.1	62.5°	253.1	327.2	389.0	460.0	534.1	605.1	654.5	716.2	725.5
163.6	65°	191.4	268.6	336.5	404.4	478.5	555.7	598.9	651.4	660.7
120.4	67.5°	142.0	206.8	287.1	348.8	426.0	500.1	540.3	583.5	598.9
74.1	70°	108.1	157.4	240.8	299.5	379.7	438.4	481.6	518.6	531.0
49.4	72.5°	67.9	123.5	194.5	256.2	327.2	379.7	410.6	432.2	450.7
27.8	75°	46.3	95.7	157.4	219.2	271.7	311.8	339.6	358.1	373.5
12.3	77.5°	27.8	74.1	129.7	182.1	216.1	247.0	274.8	287.1	296.4
9.3	80°	15.4	55.6	108.1	148.2	169.8	191.4	213.0	228.4	234.6
6.2	82.5°	9.3	43.2	86.4	114.2	123.5	145.1	166.7	176.0	176.0
3.1	85°	6.2	30.9	58.7	83.4	89.5	105.0	111.1	117.3	123.5
3.1	87.5°	6.2	18.5	37.0	46.3	49.4	55.6	58.7	64.8	71.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
96862.7
93679.8
87755.5
78364.4
68201.5
56022.7
42760.2
30633.9
22252.2
16210.7
11011.9
6943.0
4433.2
3121.1
2370.9
1895.5
1589.9
1376.9
1219.4
1099.0
997.2
923.1
873.7
824.3
781.1
731.7
669.9
605.1
537.2
447.6
370.5
293.3
228.4
172.9
120.4
67.9
0.0

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