

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: P637368

Luminaire Tested: **IFLD-L-SA7C-735-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637368
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-735-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (112) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42170.6 lumens
Efficiency: N/A
Efficacy: 114.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

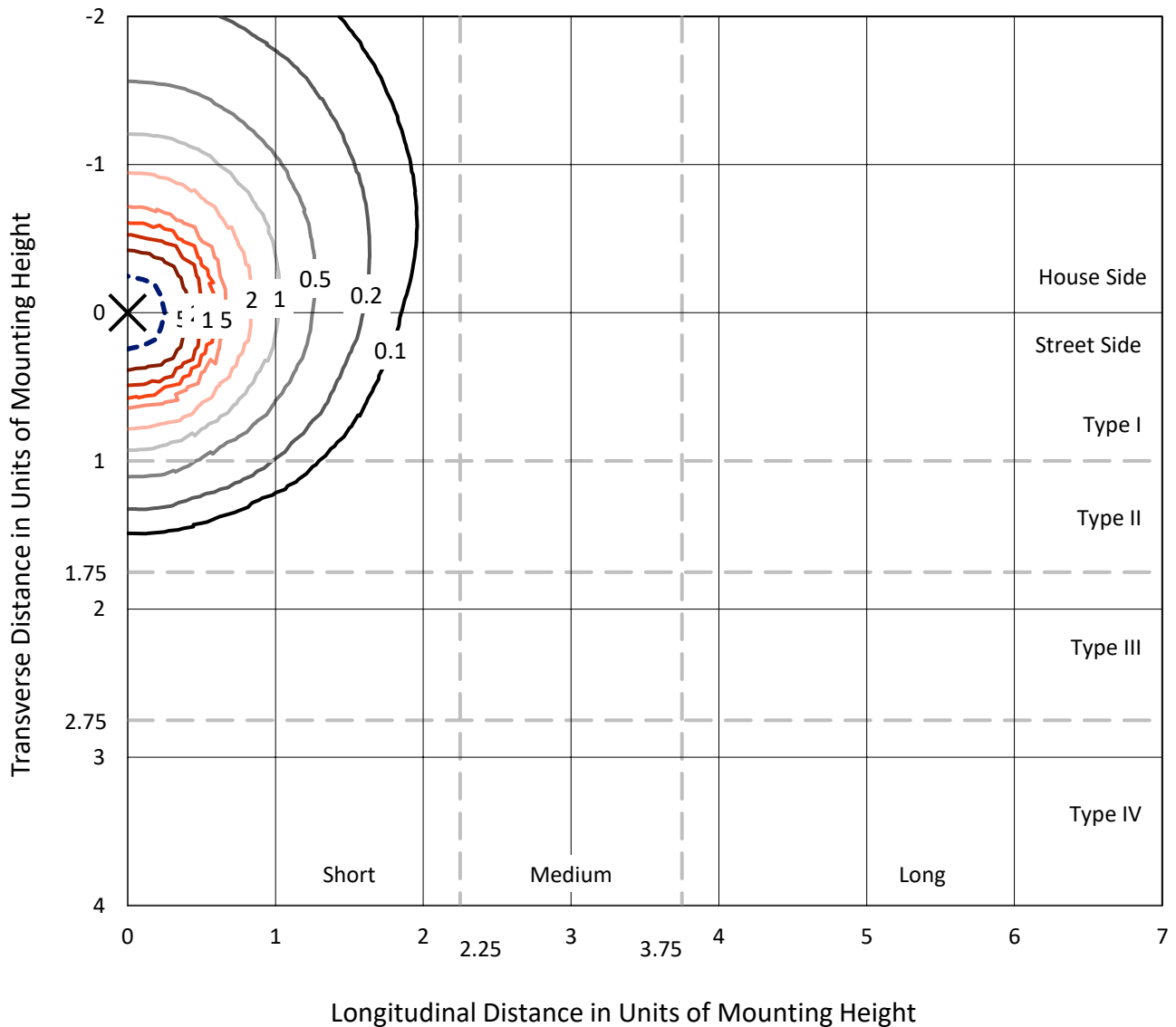
Input Watts (W): 369
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

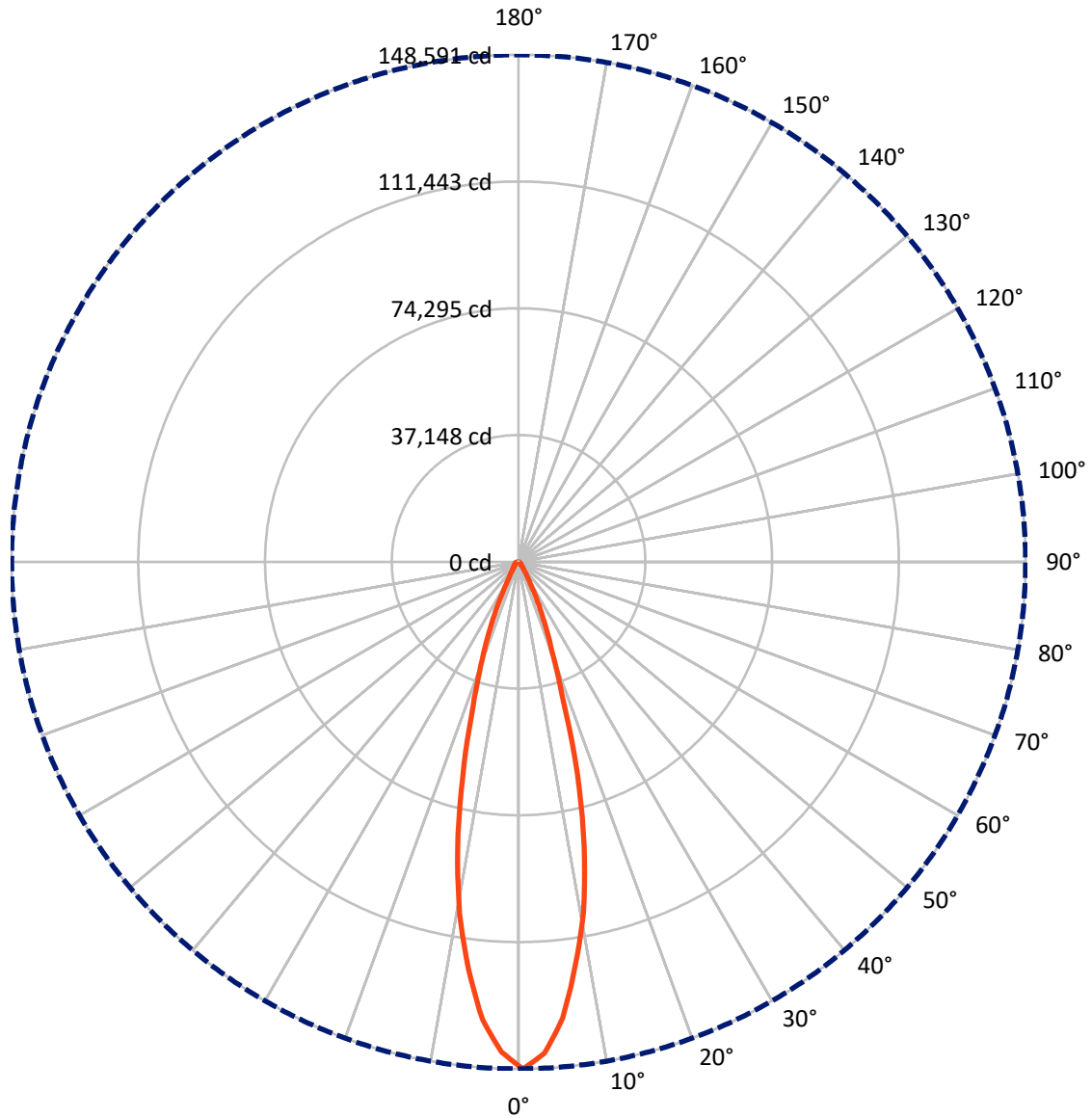
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 371.5 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	22235.2	0.0	22235.2
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	19935.4	0.0	19935.4
	% Fixture	47.3	0.0	47.3
Total	Lumens	42170.6	0.0	42170.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11992.6	28.4
10°-20°	18162.7	43.1
20°-30°	7664.8	18.2
30°-40°	1999.0	4.7
40°-50°	1011.1	2.4
50°-60°	660.9	1.6
60°-70°	395.9	0.9
70°-80°	208.3	0.5
80°-90°	75.2	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°	42170.6	100.0
0°-180°	42170.6	100.0

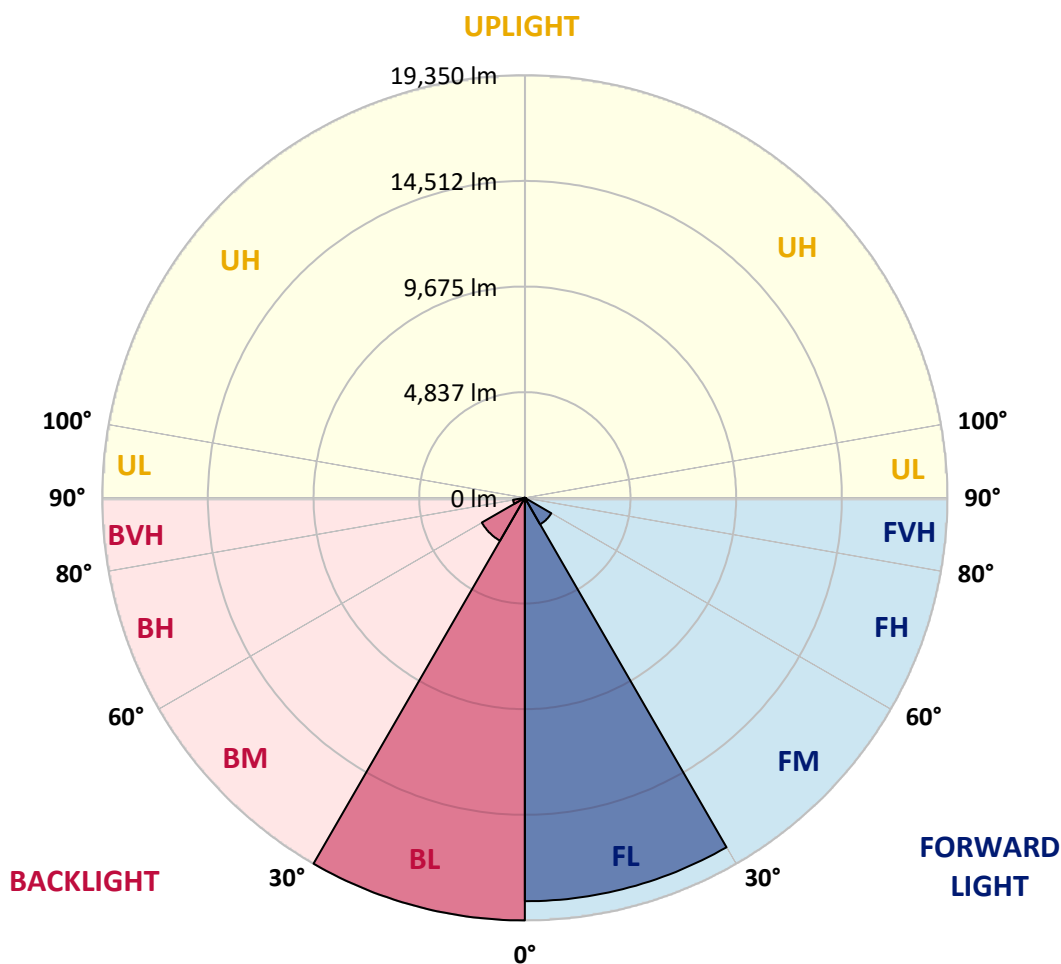


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	18470.4	43.8			
FM (30°-60°)	1398.8	3.3			
FH (60°-80°)	57.0	0.1			G0/660
FVH (80°-90°)	9.1	0.0			G0/10
BL (0°-30°)	19349.6	45.9	B5		
BM (30°-60°)	2272.2	5.4	B2/2500		
BH (60°-80°)	547.2	1.3	B2/1000		G0/660
BVH (80°-90°)	66.1	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°	148590.9	148590.9	148590.9	148590.9	148590.9	148590.9	148590.9	148590.9	148590.9	148590.9
2.5°	144262.4	144342.9	144044.6	144688.6	144186.6	145531.6	144863.9	145905.7	145555.3	146137.8
5°	134411.9	134279.3	134194.1	135193.3	134904.4	136348.9	135425.4	135122.3	136060.0	135889.5
7.5°	119536.7	119887.2	119688.3	119948.7	120095.5	121743.6	122264.5	121857.3	121871.5	122108.3
10°	104287.4	103771.2	103037.1	103524.9	104557.3	105277.2	104988.3	105585.0	105452.4	106016.0
12.5°	85524.1	85931.4	85519.4	85083.7	86888.0	86689.1	87191.1	87517.9	86698.6	88521.9
15°	64421.3	64634.4	65136.4	65103.3	66490.8	66770.3	66704.0	67049.7	66410.3	66713.4
17.5°	41386.3	42106.1	43455.8	45738.5	48305.3	48603.7	48527.9	48243.8	47935.9	47594.9
20°	27799.2	27723.5	28211.3	28879.0	34192.6	35599.1	35556.5	34666.2	33378.0	33131.8
22.5°	19473.7	19615.7	19549.4	20212.5	21311.2	25189.8	24711.5	23806.9	23385.5	23110.8
25°	12810.4	12758.3	13089.8	13288.7	14231.1	14704.7	16381.2	16044.9	15396.1	15467.2
27.5°	7809.4	7875.7	7998.8	8169.3	8837.0	8685.5	9642.1	9770.0	9561.6	9339.0
30°	4792.6	4840.0	4939.5	5062.6	5294.6	5128.9	5394.1	5853.5	5777.7	5621.4
32.5°	3253.5	3258.2	3329.3	3376.6	3348.2	3191.9	3277.2	3712.9	3722.4	3708.1
35°	2339.5	2339.5	2405.8	2443.7	2363.2	2235.3	2249.5	2519.5	2637.8	2661.5
37.5°	1614.9	1619.6	1733.3	1847.0	1757.0	1723.8	1667.0	1847.0	2036.4	2064.8
40°	1226.6	1221.8	1278.7	1363.9	1373.4	1311.8	1330.8	1444.4	1638.6	1662.3
42.5°	994.5	999.3	1027.7	1018.2	1022.9	1103.4	1131.9	1184.0	1363.9	1406.5
45°	838.2	843.0	857.2	809.8	790.9	914.0	951.9	980.3	1131.9	1184.0
47.5°	691.4	700.9	715.1	663.0	653.5	734.1	800.4	828.8	961.4	1018.2
50°	497.3	506.7	558.8	530.4	558.8	577.8	667.7	710.4	800.4	876.1
52.5°	359.9	369.4	383.6	388.3	459.4	468.8	535.1	601.4	644.1	729.3
55°	284.1	293.6	284.1	274.7	336.2	388.3	412.0	483.1	516.2	615.7
57.5°	161.0	170.5	184.7	213.1	222.6	298.4	322.0	383.6	412.0	506.7
60°	28.4	33.2	52.1	127.9	156.3	189.4	241.5	293.6	331.5	397.8
62.5°	4.7	4.7	9.5	28.4	90.0	132.6	175.2	208.4	241.5	303.1
65°	0.0	0.0	4.7	9.5	23.7	75.8	94.7	123.1	165.8	217.8
67.5°	0.0	0.0	4.7	9.5	14.2	28.4	42.6	75.8	94.7	146.8
70°	0.0	0.0	4.7	9.5	14.2	18.9	23.7	33.2	56.8	90.0
72.5°	0.0	0.0	4.7	9.5	14.2	18.9	23.7	28.4	28.4	56.8
75°	0.0	0.0	4.7	9.5	14.2	23.7	28.4	28.4	23.7	23.7
77.5°	0.0	0.0	4.7	9.5	18.9	28.4	33.2	28.4	18.9	18.9
80°	0.0	0.0	9.5	14.2	23.7	33.2	42.6	33.2	18.9	9.5
82.5°	0.0	0.0	9.5	18.9	23.7	37.9	52.1	42.6	18.9	9.5
85°	0.0	0.0	4.7	14.2	28.4	37.9	52.1	37.9	18.9	4.7
87.5°	0.0	0.0	4.7	4.7	9.5	14.2	28.4	23.7	9.5	4.7
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°
148590.9	0°	148590.9	148590.9	148590.9	148590.9	148590.9	148590.9	148590.9	148590.9	148590.9
145034.3	2.5°	145867.8	146625.6	146781.9	146573.5	146876.6	146332.0	145915.2	144835.4	144186.6
135837.4	5°	136713.5	136599.9	137390.7	137651.2	137618.1	137201.3	136618.8	135965.3	135330.7
121648.9	7.5°	122406.6	122553.4	123273.3	123732.6	123500.6	122979.7	122577.1	122084.6	121658.4
106219.6	10°	107190.4	106181.7	107076.8	107076.8	107697.2	106224.3	106361.7	105120.9	105177.7
88488.7	12.5°	88791.8	89156.5	89303.3	89724.8	89000.2	88218.8	87262.1	87072.7	86480.7
66135.7	15°	67087.6	68129.4	67234.4	68764.0	68025.3	67210.7	67063.9	65595.8	66059.9
47969.1	17.5°	47732.3	48883.1	49243.0	50119.1	49446.6	48963.6	48352.7	47907.5	47874.4
33581.7	20°	33846.9	35002.4	35267.6	36319.0	36243.2	36091.6	35575.4	35011.9	34401.0
22859.8	22.5°	23205.5	24147.9	25028.8	26444.8	26421.1	25975.9	25923.9	25128.2	25142.4
15443.5	25°	15604.5	16291.2	16499.6	17948.7	18109.8	18062.4	17792.5	17053.7	17333.1
9433.7	27.5°	9443.2	10044.7	10750.3	11261.8	11744.8	11669.0	11399.1	10987.1	10807.1
5668.8	30°	5820.3	6090.3	6350.7	6966.4	7255.3	7406.8	7278.9	6895.3	6923.8
3731.8	32.5°	3812.3	4039.7	4229.1	4617.4	4769.0	5048.4	4996.3	4915.8	4821.1
2685.2	35°	2779.9	2945.7	3073.5	3253.5	3447.7	3684.5	3722.4	3689.2	3651.3
2074.3	37.5°	2121.6	2292.1	2438.9	2514.7	2666.3	2851.0	2955.1	2950.4	2922.0
1690.7	40°	1723.8	1851.7	1984.3	2083.8	2187.9	2325.3	2453.2	2467.4	2467.4
1420.7	42.5°	1439.7	1548.6	1681.2	1785.4	1861.2	1989.0	2121.6	2131.1	2121.6
1202.9	45°	1231.3	1326.0	1453.9	1577.0	1638.6	1733.3	1861.2	1889.6	1870.6
1032.4	47.5°	1070.3	1155.5	1264.5	1397.1	1463.4	1548.6	1667.0	1700.2	1695.4
890.3	50°	918.7	1018.2	1127.1	1236.0	1321.3	1401.8	1515.5	1553.3	1539.1
757.7	52.5°	809.8	899.8	994.5	1112.9	1212.4	1283.4	1373.4	1439.7	1420.7
639.3	55°	677.2	786.1	885.6	985.0	1108.2	1184.0	1269.2	1349.7	1330.8
539.9	57.5°	587.2	677.2	790.9	880.9	1004.0	1094.0	1179.2	1264.5	1259.7
440.4	60°	492.5	587.2	696.2	790.9	904.5	1004.0	1089.2	1184.0	1193.4
331.5	62.5°	388.3	502.0	596.7	705.6	819.3	928.2	1004.0	1098.7	1112.9
251.0	65°	293.6	412.0	516.2	620.4	734.1	852.4	918.7	999.3	1013.5
184.7	67.5°	217.8	317.3	440.4	535.1	653.5	767.2	828.8	895.1	918.7
113.7	70°	165.8	241.5	369.4	459.4	582.5	672.5	738.8	795.6	814.6
75.8	72.5°	104.2	189.4	298.4	393.1	502.0	582.5	629.9	663.0	691.4
42.6	75°	71.0	146.8	241.5	336.2	416.8	478.3	520.9	549.4	573.0
18.9	77.5°	42.6	113.7	198.9	279.4	331.5	378.9	421.5	440.4	454.6
14.2	80°	23.7	85.2	165.8	227.3	260.5	293.6	326.8	350.5	359.9
9.5	82.5°	14.2	66.3	132.6	175.2	189.4	222.6	255.7	269.9	269.9
4.7	85°	9.5	47.4	90.0	127.9	137.3	161.0	170.5	180.0	189.4
4.7	87.5°	9.5	28.4	56.8	71.0	75.8	85.2	90.0	99.5	108.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
148590.9
143708.3
134620.3
120213.9
104623.6
85940.8
65595.8
46993.5
34135.8
24867.8
16892.7
10650.8
6800.6
4787.9
3637.1
2907.8
2438.9
2112.2
1870.6
1686.0
1529.7
1416.0
1340.2
1264.5
1198.2
1122.4
1027.7
928.2
824.0
686.7
568.3
449.9
350.5
265.2
184.7
104.2
0.0

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