

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: P637414

Luminaire Tested: **IFLD-S-SA6A-750-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637414
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-750-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (96) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26627.4 lumens
Efficiency: N/A
Efficacy: 140.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

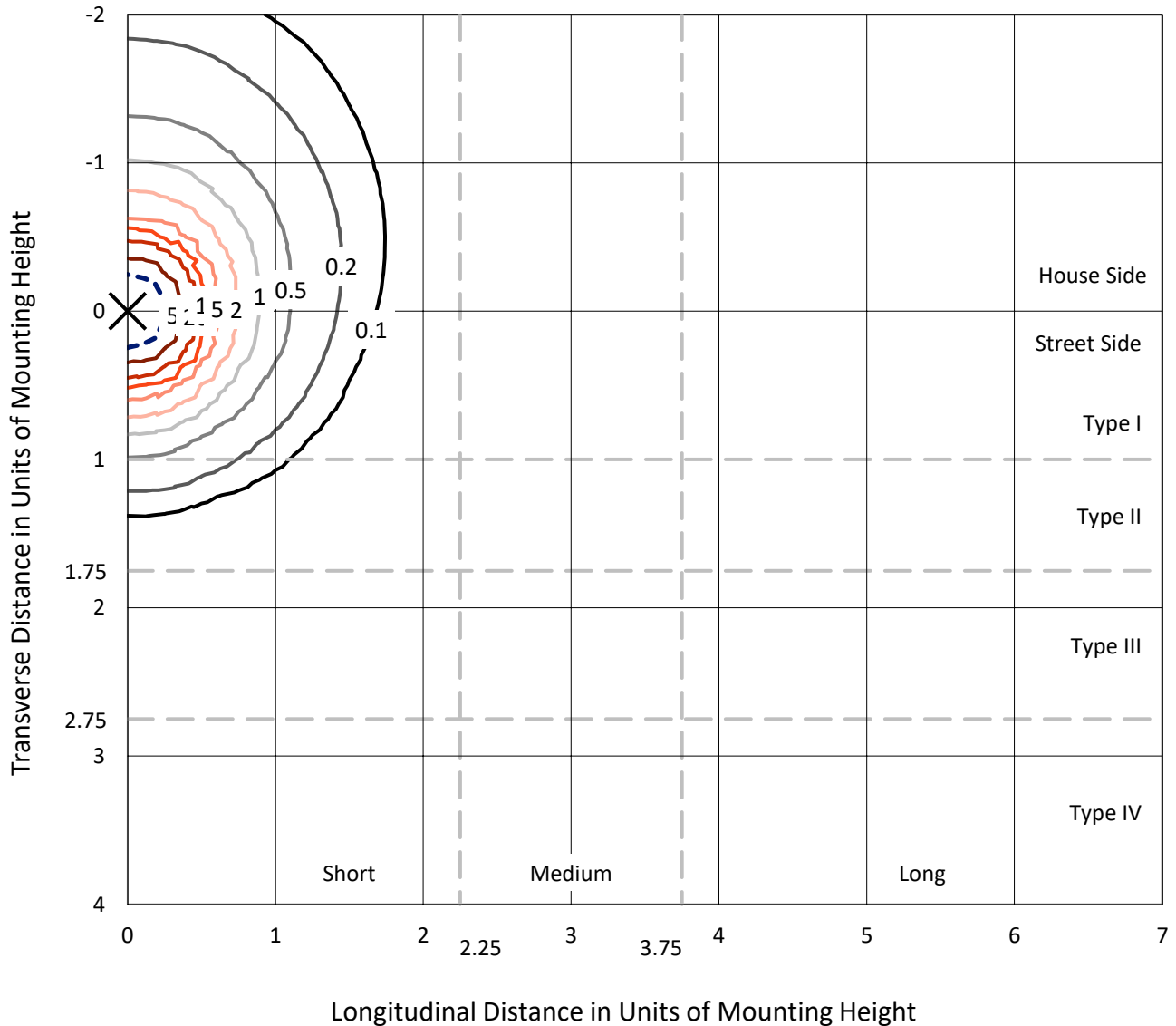
Input Watts (W): 189.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

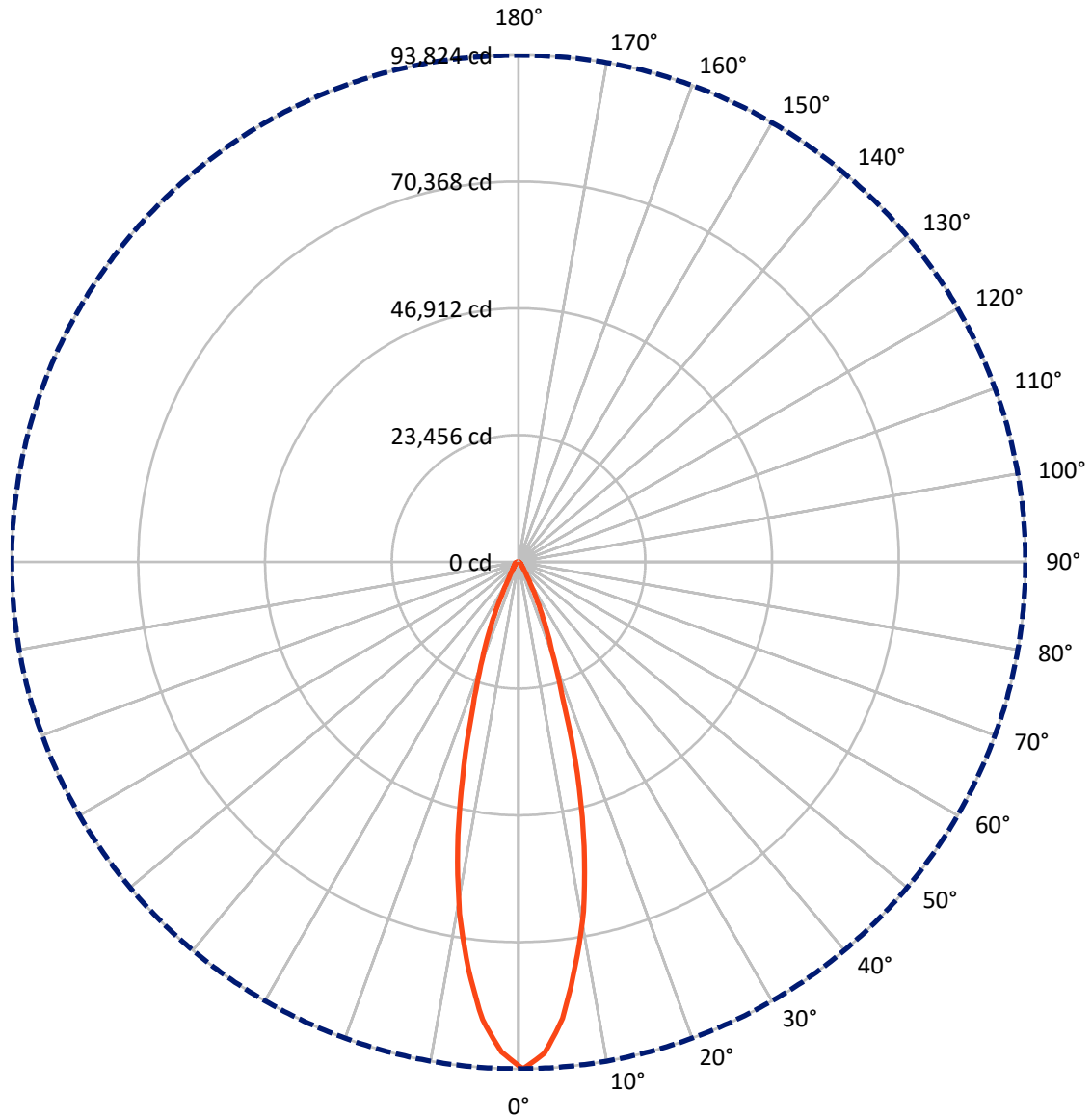
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 234.6 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	14039.8	0.0	14039.8
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	12587.7	0.0	12587.7
	% Fixture	47.3	0.0	47.3
Total	Lumens	26627.4	0.0	26627.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7572.4	28.4
10°-20°	11468.3	43.1
20°-30°	4839.7	18.2
30°-40°	1262.2	4.7
40°-50°	638.4	2.4
50°-60°	417.3	1.6
60°-70°	250.0	0.9
70°-80°	131.5	0.5
80°-90°	47.5	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°	26627.4	100.0
0°-180°	26627.4	100.0

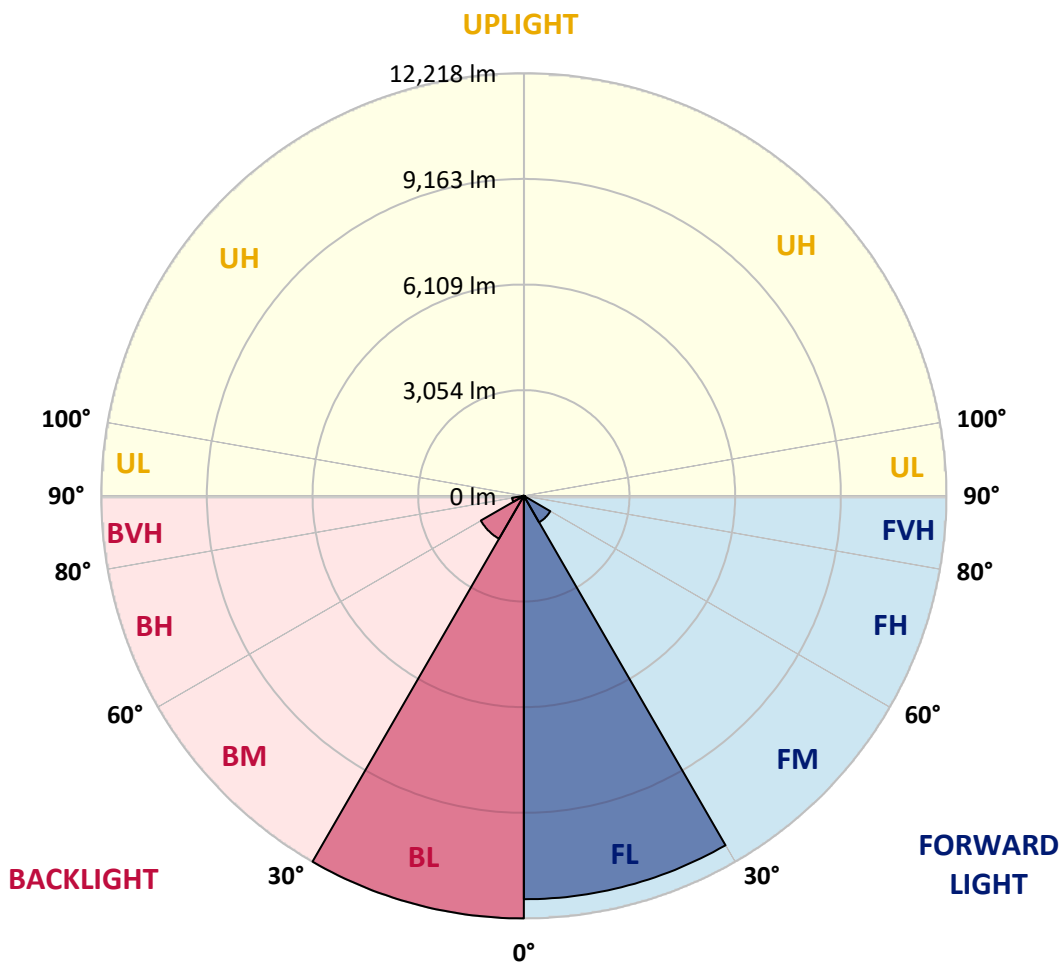


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	11662.7	43.8			
FM (30°-60°)	883.2	3.3			
FH (60°-80°)	36.0	0.1			G0/660
FVH (80°-90°)	5.8	0.0			G0/10
BL (0°-30°)	12217.8	45.9	B5		
BM (30°-60°)	1434.7	5.4	B2/2500		
BH (60°-80°)	345.5	1.3	B1/500		G0/660
BVH (80°-90°)	41.7	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°	93823.6	93823.6	93823.6	93823.6	93823.6	93823.6	93823.6	93823.6	93823.6	93823.6
2.5°	91090.5	91141.3	90953.0	91359.6	91042.7	91891.9	91470.3	92128.1	91906.9	92274.7
5°	84870.7	84787.0	84733.1	85364.1	85181.7	86093.7	85510.6	85319.2	85911.3	85803.7
7.5°	75478.2	75699.4	75573.8	75738.3	75831.0	76871.6	77200.6	76943.4	76952.4	77101.9
10°	65849.4	65523.4	65060.0	65368.0	66019.8	66474.4	66292.0	66668.7	66585.0	66940.8
12.5°	54001.8	54259.0	53998.8	53723.7	54863.0	54737.4	55054.4	55260.7	54743.4	55894.7
15°	40677.0	40811.6	41128.6	41107.6	41983.8	42160.2	42118.4	42336.7	41933.0	42124.4
17.5°	26132.2	26586.8	27439.0	28880.3	30501.1	30689.4	30641.6	30462.2	30267.8	30052.5
20°	17553.1	17505.2	17813.2	18234.8	21590.0	22478.1	22451.2	21889.0	21075.6	20920.1
22.5°	12296.1	12385.8	12344.0	12762.6	13456.3	15905.4	15603.4	15032.2	14766.1	14592.7
25°	8088.8	8055.9	8265.2	8390.8	8985.9	9284.9	10343.4	10131.1	9721.5	9766.3
27.5°	4931.0	4972.9	5050.6	5158.3	5579.9	5484.2	6088.3	6169.0	6037.4	5896.9
30°	3026.2	3056.1	3118.9	3196.6	3343.2	3238.5	3406.0	3696.0	3648.2	3549.5
32.5°	2054.3	2057.3	2102.2	2132.1	2114.1	2015.5	2069.3	2344.4	2350.4	2341.4
35°	1477.2	1477.2	1519.1	1543.0	1492.2	1411.4	1420.4	1590.8	1665.6	1680.5
37.5°	1019.7	1022.7	1094.4	1166.2	1109.4	1088.5	1052.6	1166.2	1285.8	1303.8
40°	774.5	771.5	807.4	861.2	867.2	828.3	840.3	912.0	1034.6	1049.6
42.5°	628.0	631.0	648.9	642.9	645.9	696.7	714.7	747.6	861.2	888.1
45°	529.3	532.3	541.2	511.3	499.4	577.1	601.1	619.0	714.7	747.6
47.5°	436.6	442.6	451.5	418.6	412.7	463.5	505.4	523.3	607.0	642.9
50°	314.0	320.0	352.9	334.9	352.9	364.8	421.6	448.5	505.4	553.2
52.5°	227.3	233.2	242.2	245.2	290.1	296.0	337.9	379.8	406.7	460.5
55°	179.4	185.4	179.4	173.4	212.3	245.2	260.2	305.0	325.9	388.7
57.5°	101.7	107.7	116.6	134.6	140.5	188.4	203.3	242.2	260.2	320.0
60°	17.9	20.9	32.9	80.7	98.7	119.6	152.5	185.4	209.3	251.2
62.5°	3.0	3.0	6.0	17.9	56.8	83.7	110.6	131.6	152.5	191.4
65°	0.0	0.0	3.0	6.0	15.0	47.8	59.8	77.7	104.7	137.6
67.5°	0.0	0.0	3.0	6.0	9.0	17.9	26.9	47.8	59.8	92.7
70°	0.0	0.0	3.0	6.0	9.0	12.0	15.0	20.9	35.9	56.8
72.5°	0.0	0.0	3.0	6.0	9.0	12.0	15.0	17.9	17.9	35.9
75°	0.0	0.0	3.0	6.0	9.0	15.0	17.9	17.9	15.0	15.0
77.5°	0.0	0.0	3.0	6.0	12.0	17.9	20.9	17.9	12.0	12.0
80°	0.0	0.0	6.0	9.0	15.0	20.9	26.9	20.9	12.0	6.0
82.5°	0.0	0.0	6.0	12.0	15.0	23.9	32.9	26.9	12.0	6.0
85°	0.0	0.0	3.0	9.0	17.9	23.9	32.9	23.9	12.0	3.0
87.5°	0.0	0.0	3.0	3.0	6.0	9.0	17.9	15.0	6.0	3.0
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°
93823.6	0°	93823.6	93823.6	93823.6	93823.6	93823.6	93823.6	93823.6	93823.6	93823.6
91577.9	2.5°	92104.2	92582.7	92681.3	92549.8	92741.2	92397.3	92134.1	91452.3	91042.7
85770.8	5°	86324.0	86252.2	86751.6	86916.1	86895.1	86632.0	86264.2	85851.5	85450.8
76811.8	7.5°	77290.3	77383.0	77837.5	78127.6	77981.0	77652.1	77397.9	77086.9	76817.8
67069.4	10°	67682.4	67045.5	67610.7	67610.7	68002.4	67072.4	67159.1	66375.7	66411.6
55873.7	12.5°	56065.1	56295.4	56388.1	56654.2	56196.7	55703.3	55099.3	54979.6	54605.9
41759.5	15°	42360.6	43018.5	42453.3	43419.2	42952.7	42438.3	42345.6	41418.6	41711.7
30288.7	17.5°	30139.2	30865.9	31093.1	31646.3	31221.7	30916.7	30531.0	30249.9	30228.9
21204.2	20°	21371.7	22101.3	22268.8	22932.6	22884.8	22789.1	22463.1	22107.3	21721.5
14434.2	22.5°	14652.5	15247.5	15803.7	16697.8	16682.9	16401.8	16368.9	15866.5	15875.5
9751.4	25°	9853.0	10286.6	10418.2	11333.2	11434.9	11405.0	11234.6	10768.1	10944.5
5956.7	27.5°	5962.7	6342.4	6788.0	7110.9	7415.9	7368.1	7197.7	6937.5	6823.9
3579.4	30°	3675.1	3845.5	4010.0	4398.7	4581.1	4676.8	4596.1	4353.9	4371.8
2356.4	32.5°	2407.2	2550.7	2670.3	2915.5	3011.2	3187.7	3154.8	3103.9	3044.1
1695.5	35°	1755.3	1860.0	1940.7	2054.3	2176.9	2326.5	2350.4	2329.4	2305.5
1309.8	37.5°	1339.7	1447.3	1540.0	1587.8	1683.5	1800.2	1865.9	1863.0	1845.0
1067.5	40°	1088.5	1169.2	1252.9	1315.7	1381.5	1468.2	1549.0	1557.9	1557.9
897.1	42.5°	909.1	977.8	1061.6	1127.3	1175.2	1255.9	1339.7	1345.6	1339.7
759.5	45°	777.5	837.3	918.0	995.8	1034.6	1094.4	1175.2	1193.1	1181.2
651.9	47.5°	675.8	729.6	798.4	882.1	924.0	977.8	1052.6	1073.5	1070.5
562.2	50°	580.1	642.9	711.7	780.5	834.3	885.1	956.9	980.8	971.8
478.4	52.5°	511.3	568.2	628.0	702.7	765.5	810.4	867.2	909.1	897.1
403.7	55°	427.6	496.4	559.2	622.0	699.7	747.6	801.4	852.2	840.3
340.9	57.5°	370.8	427.6	499.4	556.2	633.9	690.8	744.6	798.4	795.4
278.1	60°	311.0	370.8	439.6	499.4	571.1	633.9	687.8	747.6	753.6
209.3	62.5°	245.2	317.0	376.8	445.6	517.3	586.1	633.9	693.7	702.7
158.5	65°	185.4	260.2	325.9	391.7	463.5	538.3	580.1	631.0	639.9
116.6	67.5°	137.6	200.4	278.1	337.9	412.7	484.4	523.3	565.2	580.1
71.8	70°	104.7	152.5	233.2	290.1	367.8	424.6	466.5	502.4	514.3
47.8	72.5°	65.8	119.6	188.4	248.2	317.0	367.8	397.7	418.6	436.6
26.9	75°	44.9	92.7	152.5	212.3	263.1	302.0	328.9	346.9	361.8
12.0	77.5°	26.9	71.8	125.6	176.4	209.3	239.2	266.1	278.1	287.1
9.0	80°	15.0	53.8	104.7	143.5	164.5	185.4	206.3	221.3	227.3
6.0	82.5°	9.0	41.9	83.7	110.6	119.6	140.5	161.5	170.4	170.4
3.0	85°	6.0	29.9	56.8	80.7	86.7	101.7	107.7	113.6	119.6
3.0	87.5°	6.0	17.9	35.9	44.9	47.8	53.8	56.8	62.8	68.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
93823.6
90740.6
85002.3
75905.8
66061.7
54265.0
41418.6
29672.7
21554.1
15702.1
10666.4
6725.2
4294.1
3023.2
2296.6
1836.0
1540.0
1333.7
1181.2
1064.5
965.9
894.1
846.3
798.4
756.5
708.7
648.9
586.1
520.3
433.6
358.8
284.1
221.3
167.5
116.6
65.8
0.0

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