

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: P637424

Luminaire Tested: **IFLD-L-SA7A-750-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637424
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-750-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (112) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30880.1 lumens
Efficiency: N/A
Efficacy: 141.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

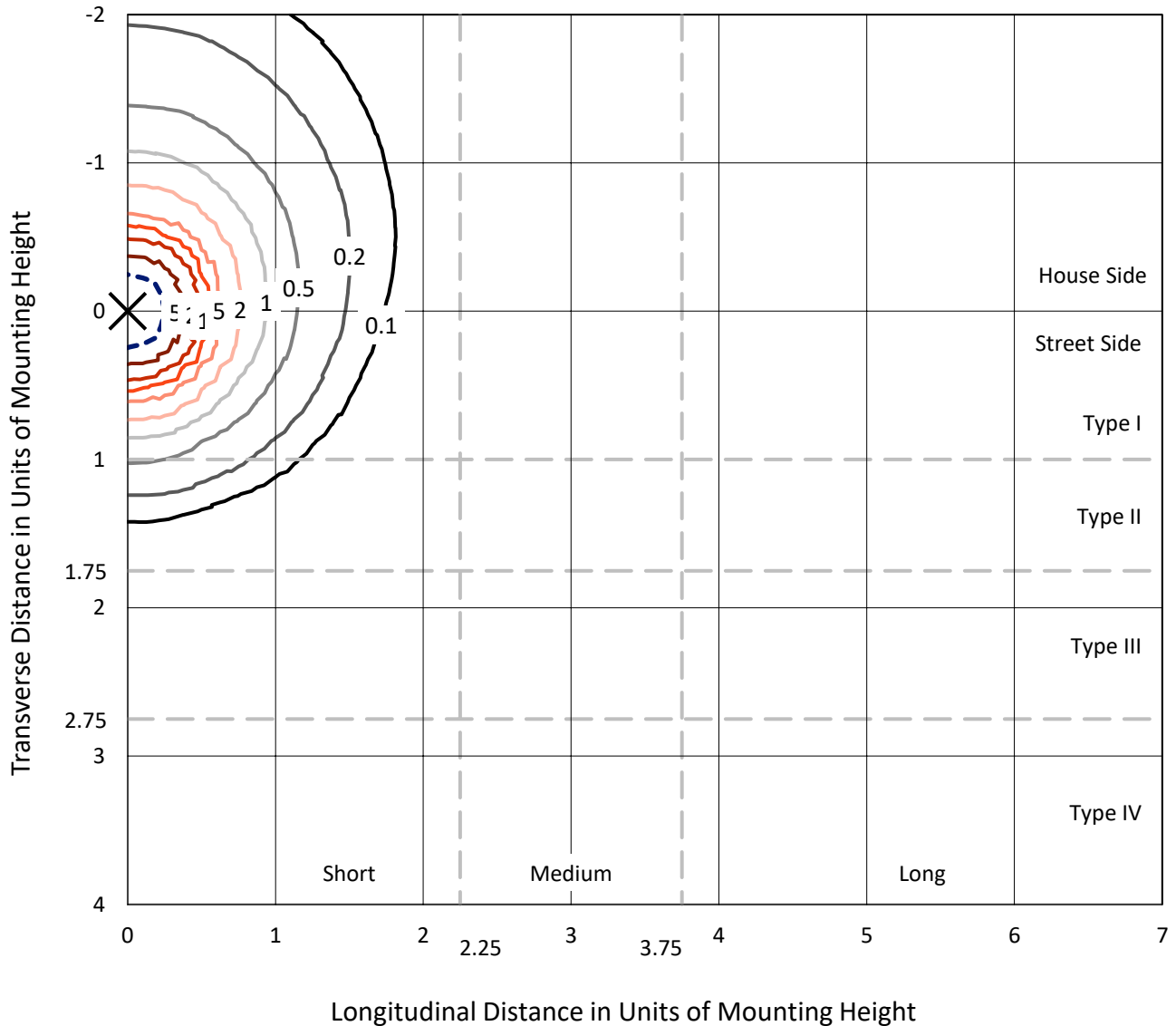
Input Watts (W): 217.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

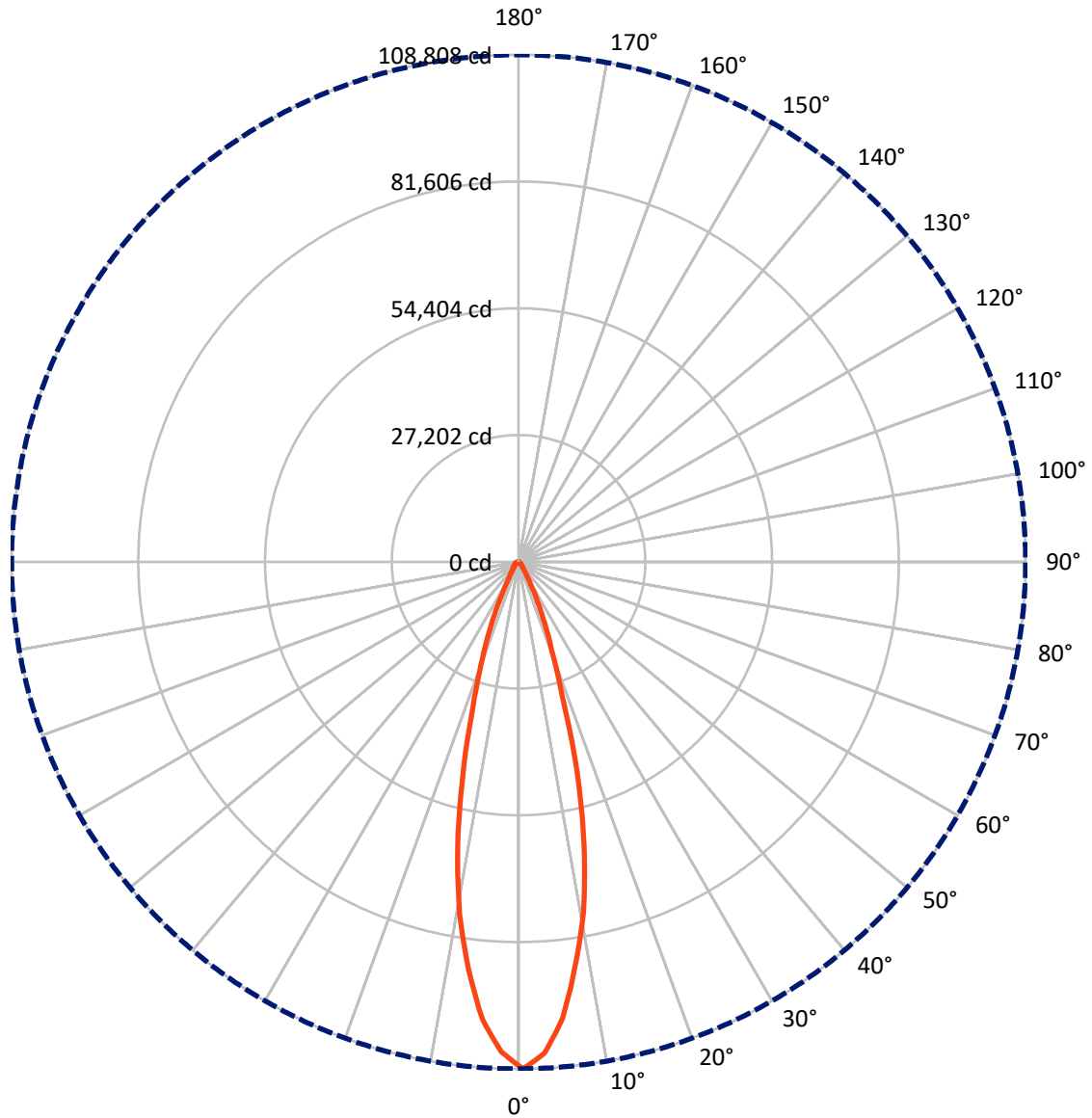
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 272 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	16282.1	0.0	16282.1
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	14598.0	0.0	14598.0
	% Fixture	47.3	0.0	47.3
Total	Lumens	30880.1	0.0	30880.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8781.8	28.4
10°-20°	13300.0	43.1
20°-30°	5612.7	18.2
30°-40°	1463.8	4.7
40°-50°	740.4	2.4
50°-60°	483.9	1.6
60°-70°	289.9	0.9
70°-80°	152.5	0.5
80°-90°	55.1	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°	30880.1	100.0
0°-180°	30880.1	100.0



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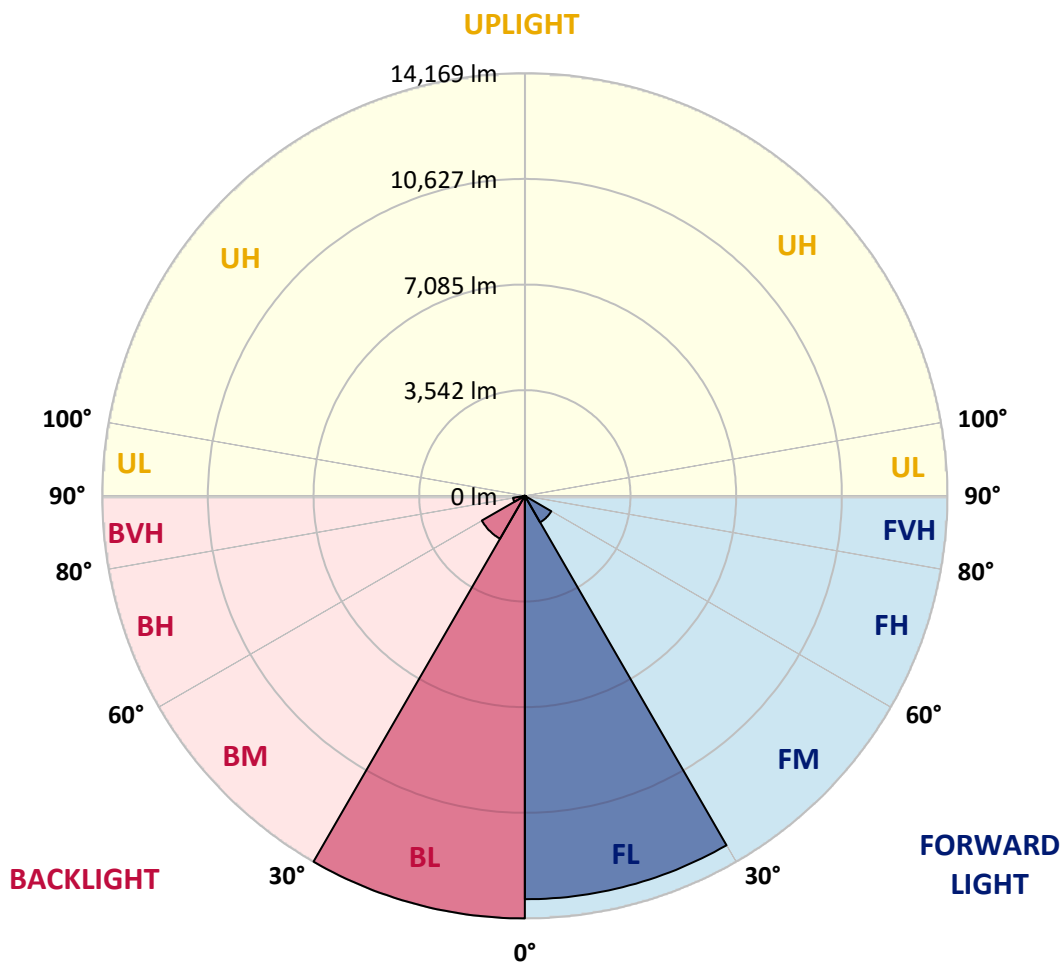
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	13525.3	43.8			
FM (30°-60°)	1024.3	3.3			
FH (60°-80°)	41.7	0.1			G0/660
FVH (80°-90°)	6.7	0.0			G0/10
BL (0°-30°)	14169.1	45.9	B5		
BM (30°-60°)	1663.9	5.4	B2/2500		
BH (60°-80°)	400.7	1.3	B1/500		G0/660
BVH (80°-90°)	48.4	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°	108808.3	108808.3	108808.3	108808.3	108808.3	108808.3	108808.3	108808.3	108808.3	108808.3
2.5°	105638.6	105697.6	105479.1	105950.7	105583.1	106568.0	106079.1	106842.0	106585.4	107011.9
5°	98425.4	98328.3	98265.9	98997.6	98786.1	99843.8	99167.6	98945.6	99632.3	99507.4
7.5°	87532.8	87789.4	87643.8	87834.5	87942.0	89148.9	89530.3	89232.1	89242.5	89415.9
10°	76366.2	75988.2	75450.7	75807.9	76563.9	77091.0	76879.5	77316.4	77219.3	77632.0
12.5°	62626.5	62924.7	62623.0	62304.0	63625.2	63479.6	63847.2	64086.5	63486.5	64821.7
15°	47173.6	47329.7	47697.3	47673.0	48689.1	48893.7	48845.1	49098.3	48630.1	48852.1
17.5°	30305.8	30832.9	31821.3	33492.8	35372.4	35590.9	35535.4	35327.3	35101.9	34852.2
20°	20356.5	20301.0	20658.2	21147.1	25038.1	26068.1	26036.9	25384.9	24441.6	24261.3
22.5°	14259.9	14364.0	14315.4	14800.9	15605.5	18445.7	18095.4	17433.0	17124.4	16923.3
25°	9380.6	9342.5	9585.2	9730.9	10421.0	10767.8	11995.4	11749.2	11274.1	11326.1
27.5°	5718.5	5767.1	5857.3	5982.1	6471.1	6360.1	7060.6	7154.2	7001.7	6838.7
30°	3509.5	3544.2	3617.0	3707.2	3877.1	3755.7	3949.9	4286.3	4230.8	4116.4
32.5°	2382.4	2385.9	2437.9	2472.6	2451.8	2337.4	2399.8	2718.8	2725.8	2715.4
35°	1713.1	1713.1	1761.7	1789.4	1730.5	1636.8	1647.2	1844.9	1931.6	1948.9
37.5°	1182.5	1186.0	1269.2	1352.5	1286.6	1262.3	1220.7	1352.5	1491.2	1512.0
40°	898.2	894.7	936.3	998.8	1005.7	960.6	974.5	1057.7	1199.9	1217.2
42.5°	728.3	731.7	752.5	745.6	749.1	808.0	828.8	867.0	998.8	1030.0
45°	613.8	617.3	627.7	593.0	579.1	669.3	697.0	717.9	828.8	867.0
47.5°	506.3	513.2	523.7	485.5	478.6	537.5	586.1	606.9	704.0	745.6
50°	364.1	371.1	409.2	388.4	409.2	423.1	489.0	520.2	586.1	641.6
52.5°	263.6	270.5	280.9	284.4	336.4	343.3	391.9	440.4	471.6	534.1
55°	208.1	215.0	208.1	201.1	246.2	284.4	301.7	353.7	378.0	450.8
57.5°	117.9	124.8	135.2	156.1	163.0	218.5	235.8	280.9	301.7	371.1
60°	20.8	24.3	38.1	93.6	114.4	138.7	176.9	215.0	242.8	291.3
62.5°	3.5	3.5	6.9	20.8	65.9	97.1	128.3	152.6	176.9	221.9
65°	0.0	0.0	3.5	6.9	17.3	55.5	69.4	90.2	121.4	159.5
67.5°	0.0	0.0	3.5	6.9	10.4	20.8	31.2	55.5	69.4	107.5
70°	0.0	0.0	3.5	6.9	10.4	13.9	17.3	24.3	41.6	65.9
72.5°	0.0	0.0	3.5	6.9	10.4	13.9	17.3	20.8	20.8	41.6
75°	0.0	0.0	3.5	6.9	10.4	17.3	20.8	20.8	17.3	17.3
77.5°	0.0	0.0	3.5	6.9	13.9	20.8	24.3	20.8	13.9	13.9
80°	0.0	0.0	6.9	10.4	17.3	24.3	31.2	24.3	13.9	6.9
82.5°	0.0	0.0	6.9	13.9	17.3	27.7	38.1	31.2	13.9	6.9
85°	0.0	0.0	3.5	10.4	20.8	27.7	38.1	27.7	13.9	3.5
87.5°	0.0	0.0	3.5	3.5	6.9	10.4	20.8	17.3	6.9	3.5
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°
108808.3	0°	108808.3	108808.3	108808.3	108808.3	108808.3	108808.3	108808.3	108808.3	108808.3
106203.9	2.5°	106814.2	107369.1	107483.5	107331.0	107552.9	107154.1	106848.9	106058.2	105583.1
99469.3	5°	100110.8	100027.6	100606.7	100797.5	100773.2	100468.0	100041.5	99562.9	99098.2
89079.5	7.5°	89634.4	89741.9	90269.0	90605.4	90435.4	90054.0	89759.2	89398.5	89086.4
77781.1	10°	78492.1	77753.4	78408.8	78408.8	78863.1	77784.6	77885.2	76976.6	77018.2
64797.4	12.5°	65019.3	65286.4	65393.9	65702.5	65171.9	64599.7	63899.2	63760.5	63327.0
48429.0	15°	49126.0	49889.0	49233.5	50353.7	49812.7	49216.2	49108.7	48033.6	48373.5
35126.2	17.5°	34952.8	35795.5	36059.0	36700.6	36208.2	35854.4	35407.1	35081.1	35056.8
24590.8	20°	24785.0	25631.1	25825.3	26595.2	26539.7	26428.7	26050.7	25638.1	25190.7
16739.5	22.5°	16992.6	17682.7	18327.8	19364.7	19347.3	19021.3	18983.2	18400.6	18411.0
11308.8	25°	11426.7	11929.5	12082.1	13143.3	13261.2	13226.5	13028.8	12487.8	12692.4
6908.0	27.5°	6915.0	7355.4	7872.1	8246.6	8600.3	8544.9	8347.2	8045.5	7913.7
4151.1	30°	4262.0	4459.7	4650.4	5101.3	5312.8	5423.8	5330.1	5049.2	5070.0
2732.7	32.5°	2791.6	2958.1	3096.8	3381.2	3492.2	3696.8	3658.6	3599.7	3530.3
1966.3	35°	2035.6	2157.0	2250.7	2382.4	2524.6	2698.0	2725.8	2701.5	2673.7
1518.9	37.5°	1553.6	1678.5	1786.0	1841.4	1952.4	2087.7	2164.0	2160.5	2139.7
1238.0	40°	1262.3	1355.9	1453.0	1525.9	1602.2	1702.7	1796.4	1806.8	1806.8
1040.4	42.5°	1054.2	1134.0	1231.1	1307.4	1362.9	1456.5	1553.6	1560.5	1553.6
880.8	45°	901.6	971.0	1064.6	1154.8	1199.9	1269.2	1362.9	1383.7	1369.8
756.0	47.5°	783.7	846.2	925.9	1023.0	1071.6	1134.0	1220.7	1245.0	1241.5
652.0	50°	672.8	745.6	825.4	905.1	967.5	1026.5	1109.7	1137.5	1127.1
554.9	52.5°	593.0	658.9	728.3	815.0	887.8	939.8	1005.7	1054.2	1040.4
468.2	55°	495.9	575.7	648.5	721.3	811.5	867.0	929.4	988.3	974.5
395.3	57.5°	430.0	495.9	579.1	645.0	735.2	801.1	863.5	925.9	922.5
322.5	60°	360.7	430.0	509.8	579.1	662.4	735.2	797.6	867.0	873.9
242.8	62.5°	284.4	367.6	437.0	516.7	599.9	679.7	735.2	804.5	815.0
183.8	65°	215.0	301.7	378.0	454.3	537.5	624.2	672.8	731.7	742.1
135.2	67.5°	159.5	232.3	322.5	391.9	478.6	561.8	606.9	655.4	672.8
83.2	70°	121.4	176.9	270.5	336.4	426.5	492.4	541.0	582.6	596.5
55.5	72.5°	76.3	138.7	218.5	287.8	367.6	426.5	461.2	485.5	506.3
31.2	75°	52.0	107.5	176.9	246.2	305.2	350.3	381.5	402.3	419.6
13.9	77.5°	31.2	83.2	145.7	204.6	242.8	277.4	308.6	322.5	332.9
10.4	80°	17.3	62.4	121.4	166.5	190.7	215.0	239.3	256.6	263.6
6.9	82.5°	10.4	48.6	97.1	128.3	138.7	163.0	187.3	197.7	197.7
3.5	85°	6.9	34.7	65.9	93.6	100.6	117.9	124.8	131.8	138.7
3.5	87.5°	6.9	20.8	41.6	52.0	55.5	62.4	65.9	72.8	79.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
108808.3
105232.9
98578.0
88028.7
76612.5
62931.7
48033.6
34411.8
24996.5
18209.9
12369.9
7799.3
4979.9
3506.0
2663.3
2129.3
1786.0
1546.7
1369.8
1234.6
1120.1
1036.9
981.4
925.9
877.4
821.9
752.5
679.7
603.4
502.8
416.1
329.4
256.6
194.2
135.2
76.3
0.0

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