

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: P636719

Luminaire Tested: **IFLD-S-SA6B-927-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636719
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-927-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (96) 2700K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16254.9 lumens
Efficiency: N/A
Efficacy: 66.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

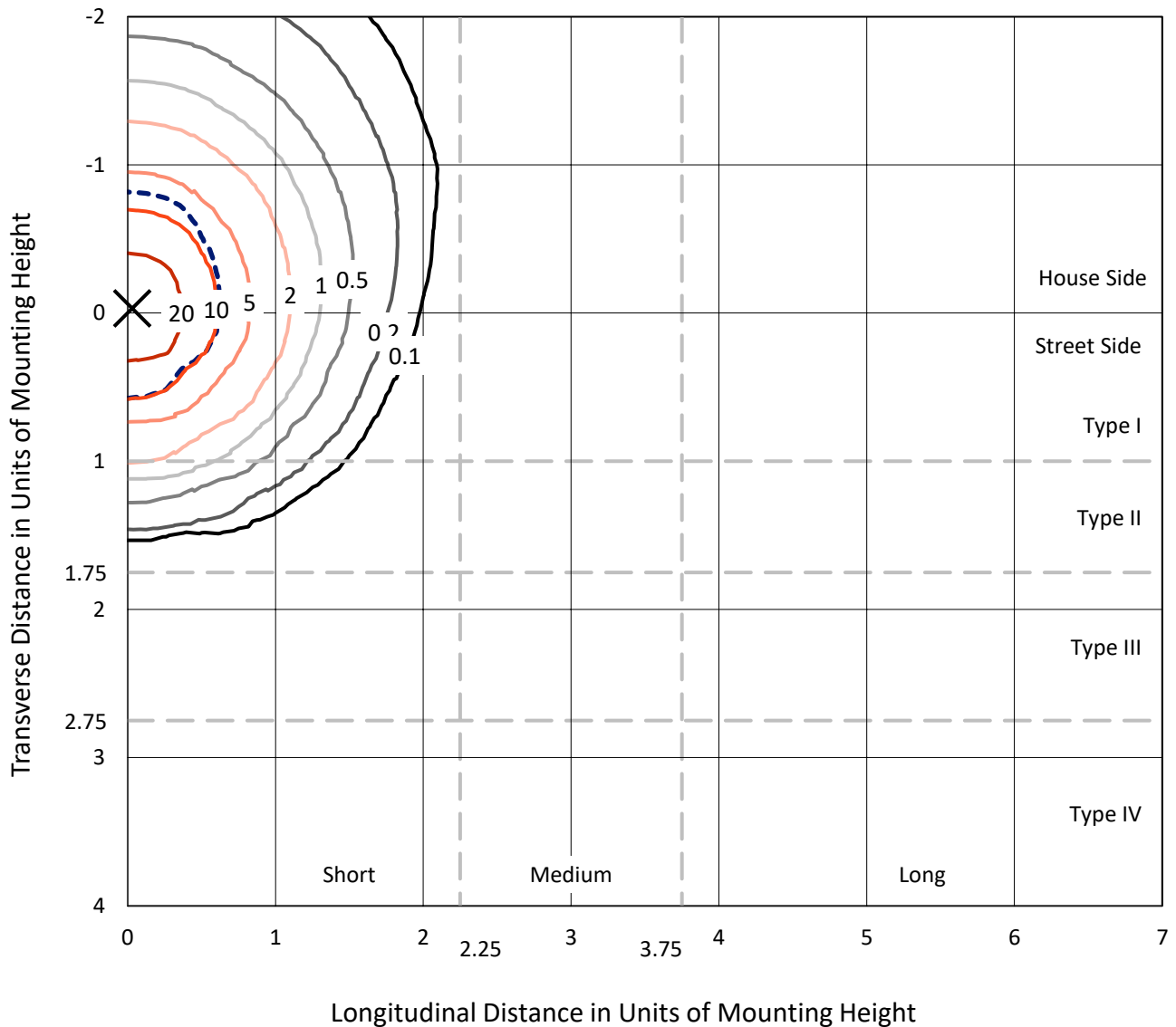
Input Watts (W): 244.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

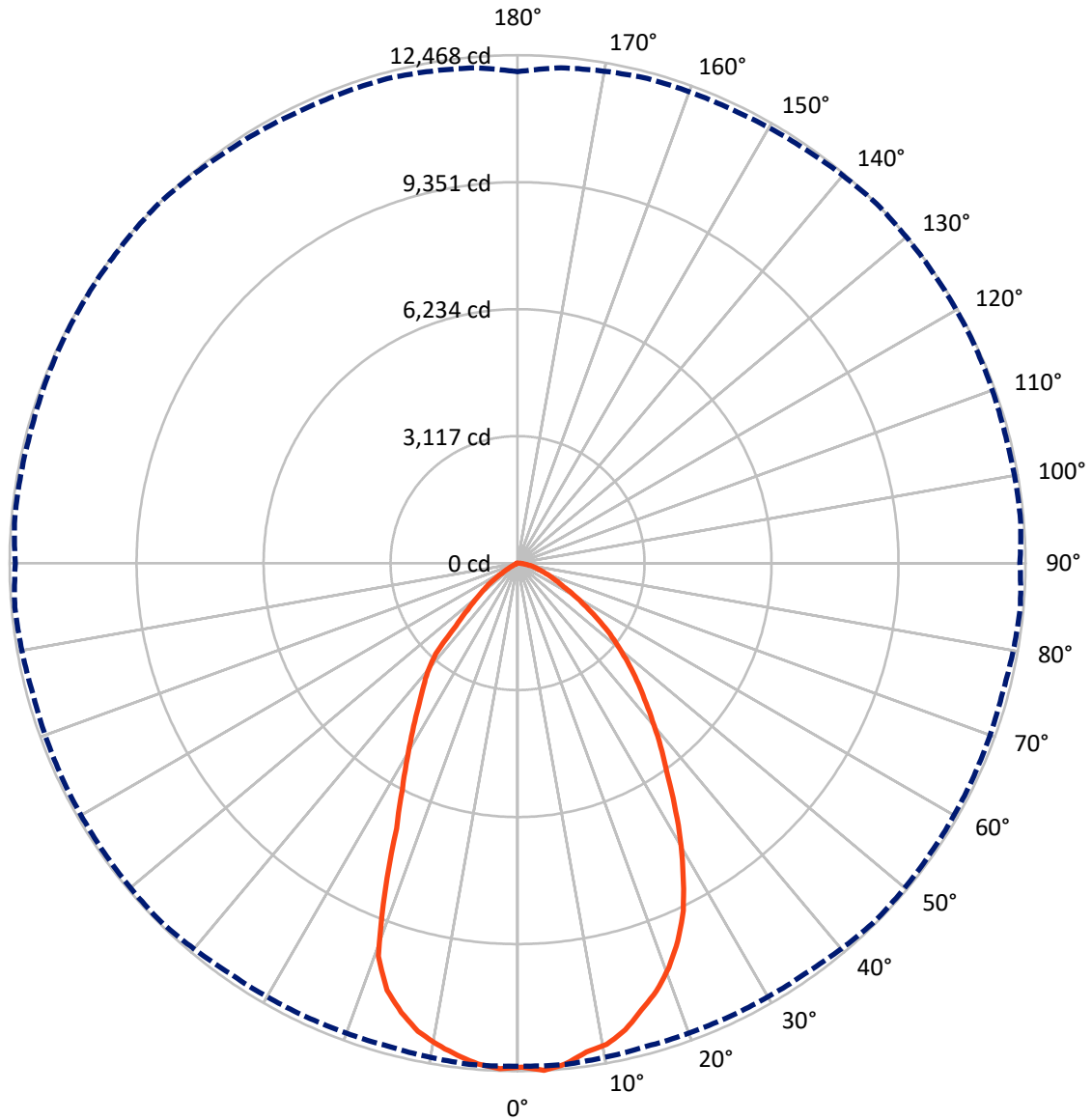
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 30.9 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 135-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9627.0	0.0	9627.0
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	6627.9	0.0	6627.9
	% Fixture	40.8	0.0	40.8
Total	Lumens	16254.9	0.0	16254.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1160.1	7.1
10°-20°	3110.9	19.1
20°-30°	3793.9	23.3
30°-40°	3463.8	21.3
40°-50°	2503.2	15.4
50°-60°	1366.8	8.4
60°-70°	565.1	3.5
70°-80°	228.9	1.4
80°-90°	62.3	0.4
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°	16254.9	100.0
0°-180°	16254.9	100.0

Coefficient of Utilization



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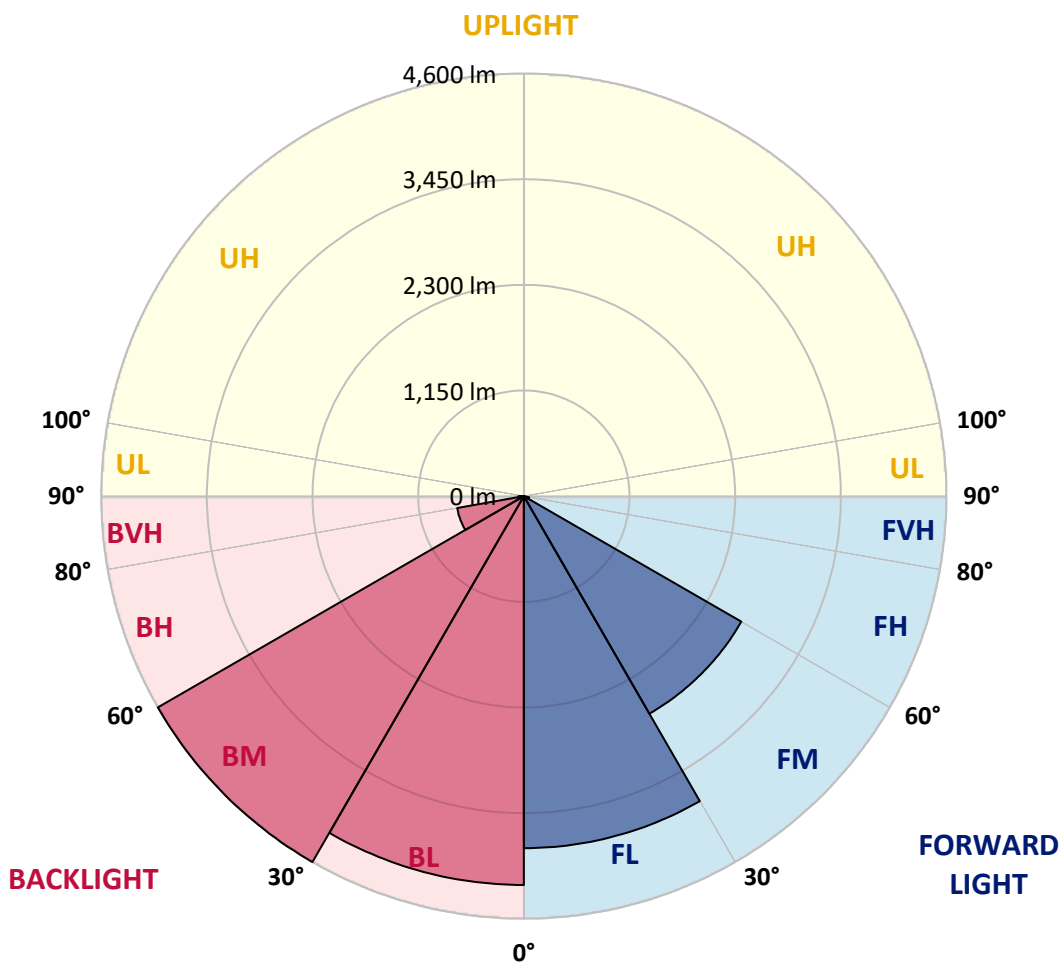
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3831.9	23.6			
FM (30°-60°)	2733.8	16.8			
FH (60°-80°)	57.3	0.4			G0/660
FVH (80°-90°)	5.0	0.0			G0/10
BL (0°-30°)	4233.0	26.0	B4/5000		
BM (30°-60°)	4600.0	28.3	B3/5000		
BH (60°-80°)	736.7	4.5	B2/1000		G2/1000
BVH (80°-90°)	57.3	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	12369.9	12369.9	12369.9	12369.9	12369.9	12369.9	12369.9	12369.9	12369.9	12369.9
2.5°	12347.1	12363.1	12276.1	12285.2	12301.3	12418.0	12388.3	12360.8	12321.9	12388.3
5°	12331.0	12340.2	12248.6	12216.6	12230.3	12335.6	12239.5	12239.5	12230.3	12218.9
7.5°	12207.4	12212.0	12141.0	12083.8	12120.4	12168.5	12097.5	12131.9	12081.5	12120.4
10°	12022.0	11992.3	11907.6	11891.5	11932.7	11978.5	11930.4	11962.5	11916.7	11946.5
12.5°	11749.6	11703.8	11635.2	11614.6	11685.5	11747.3	11708.4	11690.1	11630.6	11703.8
15°	10698.9	10664.6	10820.3	11092.7	11337.6	11390.2	11349.0	11367.3	11243.7	11264.3
17.5°	8805.9	8741.8	8908.9	9554.4	10474.6	10959.9	10923.3	10804.2	10621.1	10662.3
20°	8002.5	7984.2	7965.8	8119.2	8762.4	10234.3	10284.6	9982.5	9721.5	9664.3
22.5°	7549.2	7542.4	7524.1	7558.4	7727.8	8673.2	9250.0	8970.7	8796.8	8780.7
25°	7134.9	7123.5	7068.5	7112.0	7112.0	7167.0	7906.3	8075.7	7922.3	7904.0
27.5°	6713.7	6693.1	6684.0	6704.6	6599.3	6228.5	6416.2	7242.5	7162.4	7167.0
30°	6258.2	6251.4	6226.2	6269.7	5944.6	5484.5	5365.5	6487.1	6503.1	6498.6
32.5°	5580.7	5610.4	5724.9	5772.9	5237.3	4857.3	4658.2	5612.7	5940.0	5933.2
35°	4053.9	4053.9	4427.0	5120.6	4589.5	4303.4	4195.8	4758.9	5383.8	5406.7
37.5°	3332.8	3344.3	3417.5	3733.4	3960.0	3859.3	3827.3	4005.8	4669.6	4706.3
40°	2998.6	2998.6	2998.6	2868.2	2861.3	3477.0	3458.7	3401.5	4033.3	4113.4
42.5°	2694.2	2701.1	2705.6	2376.0	2192.9	3005.5	2964.3	2877.3	3463.3	3557.2
45°	2380.6	2392.0	2405.8	1986.9	1906.8	2163.1	2508.8	2412.6	2900.2	3021.5
47.5°	1453.5	1471.8	1783.2	1684.7	1693.9	1668.7	2046.4	2030.4	2378.3	2550.0
50°	982.0	988.9	1018.6	1069.0	1453.5	1311.6	1449.0	1680.2	1806.0	2067.0
52.5°	824.1	835.5	762.2	693.6	954.5	1025.5	1011.8	1247.5	1297.9	1620.6
55°	579.1	615.8	581.4	574.5	542.5	796.6	766.8	959.1	991.2	1231.5
57.5°	59.5	68.7	119.0	428.0	354.8	450.9	547.1	702.7	734.8	908.7
60°	4.6	4.6	11.4	59.5	258.7	270.1	377.7	432.6	494.4	634.1
62.5°	0.0	2.3	4.6	9.2	41.2	144.2	190.0	226.6	297.6	409.7
65°	0.0	0.0	2.3	6.9	9.2	54.9	73.2	119.0	162.5	254.1
67.5°	0.0	0.0	2.3	4.6	6.9	13.7	25.2	43.5	87.0	144.2
70°	0.0	0.0	2.3	4.6	6.9	11.4	18.3	27.5	38.9	77.8
72.5°	0.0	0.0	2.3	2.3	4.6	11.4	13.7	18.3	27.5	38.9
75°	0.0	0.0	2.3	2.3	6.9	13.7	11.4	13.7	18.3	25.2
77.5°	0.0	0.0	2.3	4.6	6.9	13.7	11.4	13.7	13.7	16.0
80°	0.0	0.0	2.3	4.6	9.2	16.0	13.7	13.7	11.4	11.4
82.5°	0.0	0.0	2.3	6.9	9.2	20.6	20.6	18.3	9.2	6.9
85°	0.0	0.0	4.6	9.2	13.7	22.9	22.9	18.3	6.9	4.6
87.5°	0.0	0.0	4.6	6.9	11.4	16.0	22.9	18.3	6.9	2.3
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°
12369.9	0°	12369.9	12369.9	12369.9	12369.9	12369.9	12369.9	12369.9	12369.9	12369.9
12331.0	2.5°	12392.8	12379.1	12424.9	12443.2	12468.4	12372.2	12312.7	12315.0	12205.1
12191.4	5°	12264.6	12266.9	12326.5	12321.9	12347.1	12294.4	12271.5	12232.6	12136.5
12015.1	7.5°	12102.1	12081.5	12138.8	12182.2	12118.1	12154.8	12102.1	12120.4	12063.2
11859.5	10°	11976.2	11928.2	11980.8	12010.6	12012.9	11976.2	11925.9	11877.8	11857.2
11616.9	12.5°	11697.0	11635.2	11724.4	11765.6	11758.8	11687.8	11630.6	11642.0	11575.6
11191.1	15°	11312.4	11314.7	11378.8	11417.7	11381.1	11365.1	11369.6	11342.2	11284.9
10602.8	17.5°	10724.1	10758.5	10927.9	11021.7	11042.3	11010.3	10994.2	10962.2	10905.0
9664.3	20°	9744.4	9950.4	10252.6	10543.3	10600.5	10591.4	10534.1	10520.4	10488.4
8735.0	22.5°	8883.7	9037.1	9387.3	9840.6	10074.0	10096.9	10028.3	10007.7	9973.3
7904.0	25°	7993.3	8158.1	8474.0	8966.1	9449.1	9547.6	9536.1	9474.3	9437.7
7167.0	27.5°	7242.5	7407.3	7693.4	8137.5	8654.8	8970.7	9000.5	8902.1	8899.8
6510.0	30°	6565.0	6791.6	7009.0	7370.7	7872.0	8345.8	8396.2	8327.5	8334.4
5908.0	32.5°	6033.9	6221.6	6407.0	6649.6	7066.3	7617.9	7814.8	7750.7	7725.5
5406.7	35°	5491.4	5619.6	5809.6	6031.6	6315.4	6862.5	7203.6	7155.5	7130.3
4729.1	37.5°	4873.4	5093.1	5230.4	5479.9	5702.0	6136.9	6617.6	6610.7	6558.1
4152.3	40°	4239.3	4470.5	4678.8	4930.6	5102.3	5447.9	5981.2	5979.0	5985.8
3554.9	42.5°	3664.7	3877.6	4129.4	4404.1	4568.9	4820.7	5393.0	5425.0	5463.9
3062.7	45°	3145.1	3337.4	3570.9	3905.1	4104.2	4248.4	4756.6	4903.1	4900.8
2623.2	47.5°	2678.2	2859.0	3055.9	3380.9	3635.0	3765.5	4186.6	4394.9	4381.2
2151.7	50°	2247.8	2408.1	2614.1	2849.8	3190.9	3305.4	3619.0	3893.6	3873.0
1714.5	52.5°	1808.3	2030.4	2204.3	2419.5	2778.9	2891.1	3133.7	3401.5	3385.5
1286.4	55°	1410.0	1625.2	1835.8	2021.2	2323.4	2490.5	2664.4	2939.1	2934.5
1007.2	57.5°	1066.7	1302.5	1501.6	1677.9	1918.2	2124.2	2263.9	2513.4	2545.4
689.0	60°	789.7	970.6	1185.7	1382.6	1572.6	1785.4	1879.3	2124.2	2138.0
471.5	62.5°	537.9	737.1	947.7	1126.2	1268.1	1487.9	1572.6	1774.0	1799.2
302.2	65°	373.1	501.3	741.6	869.8	1043.8	1231.5	1316.2	1476.4	1526.8
174.0	67.5°	247.2	357.1	579.1	695.9	867.5	995.7	1103.3	1233.8	1288.7
109.9	70°	135.1	263.2	414.3	549.4	698.2	821.8	927.1	1032.4	1080.4
50.4	72.5°	91.6	176.3	288.4	434.9	563.1	684.4	778.3	856.1	858.4
29.8	75°	45.8	119.0	219.7	336.5	439.5	558.5	643.2	689.0	634.1
18.3	77.5°	27.5	87.0	178.5	270.1	357.1	450.9	499.0	524.2	434.9
13.7	80°	16.0	61.8	139.6	215.2	247.2	331.9	377.7	384.6	290.7
9.2	82.5°	11.4	45.8	109.9	157.9	151.1	233.5	283.8	274.7	185.4
6.9	85°	6.9	32.0	68.7	98.4	91.6	153.4	164.8	169.4	107.6
4.6	87.5°	4.6	18.3	36.6	52.6	43.5	66.4	66.4	80.1	52.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
12369.9
12063.2
12113.6
11967.1
11765.6
11518.4
11227.7
10879.8
10415.1
9964.2
9398.8
8895.2
8300.0
7727.8
7096.0
6601.6
5985.8
5443.3
4905.4
4385.8
3891.4
3419.8
2946.0
2531.7
2158.6
1803.8
1515.3
1281.9
1062.1
837.8
592.9
418.9
272.4
171.7
98.4
45.8
0.0

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