

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: P636749

Luminaire Tested: **IFLD-S-SA6C-930-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636749
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-930-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (96) 3000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20455.1 lumens
Efficiency: N/A
Efficacy: 63.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

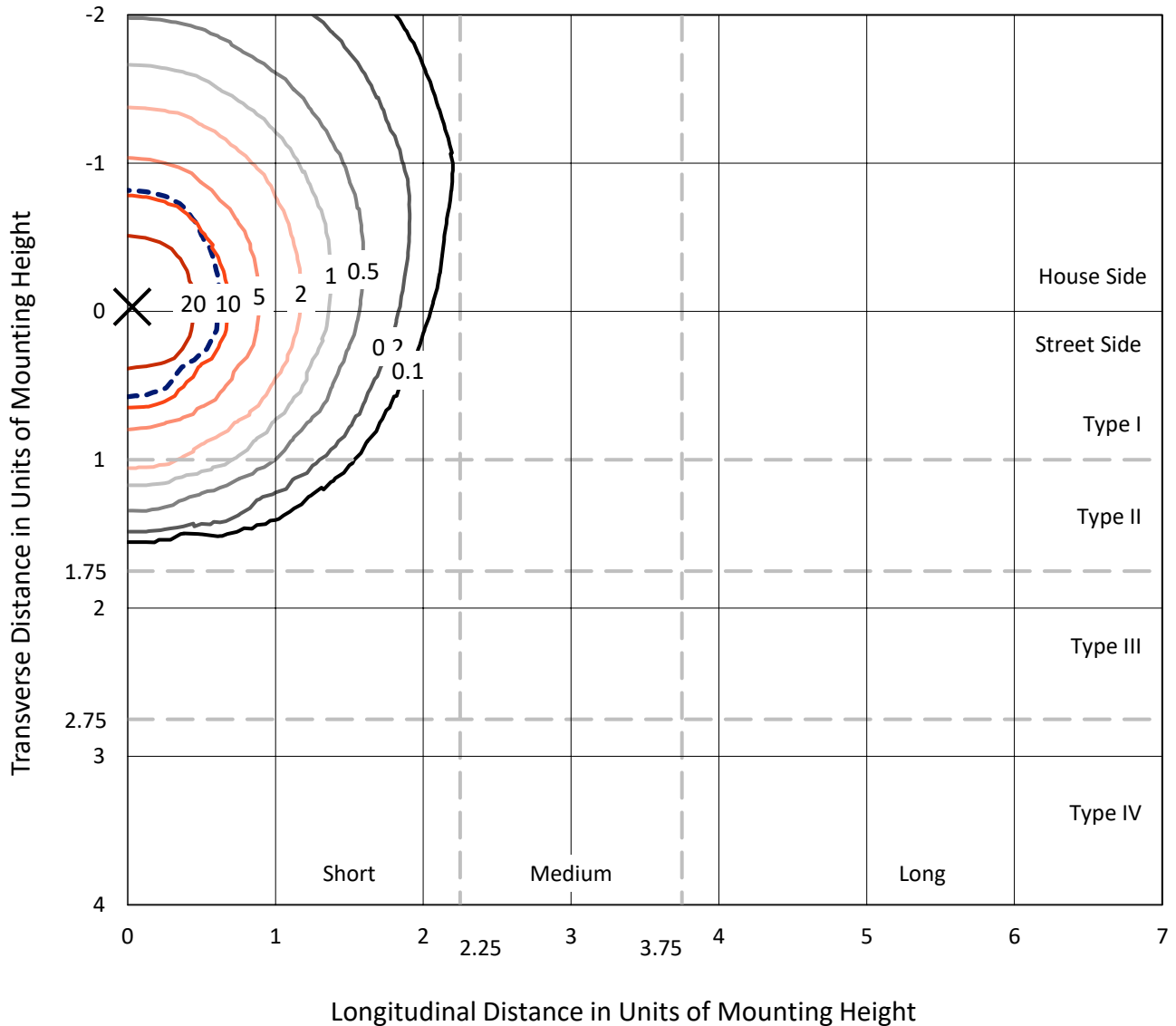
Input Watts (W): 321.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

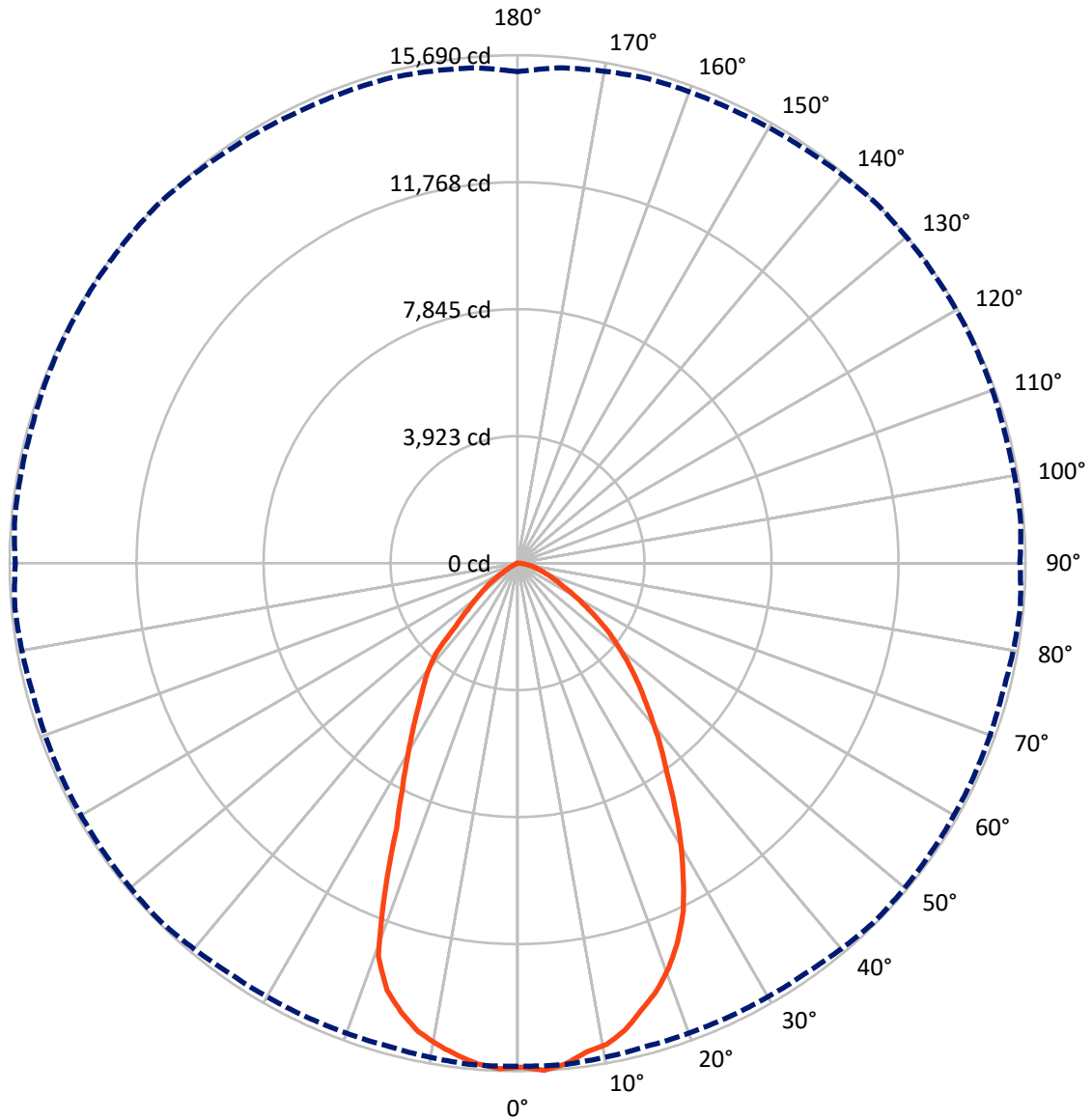
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 38.9 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	12114.5	0.0	12114.5
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	8340.5	0.0	8340.5
	% Fixture	40.8	0.0	40.8
Total	Lumens	20455.1	0.0	20455.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1459.9	7.1
10°-20°	3914.7	19.1
20°-30°	4774.2	23.3
30°-40°	4358.8	21.3
40°-50°	3150.0	15.4
50°-60°	1719.9	8.4
60°-70°	711.1	3.5
70°-80°	288.0	1.4
80°-90°	78.3	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°	20455.1	100.0
0°-180°	20455.1	100.0

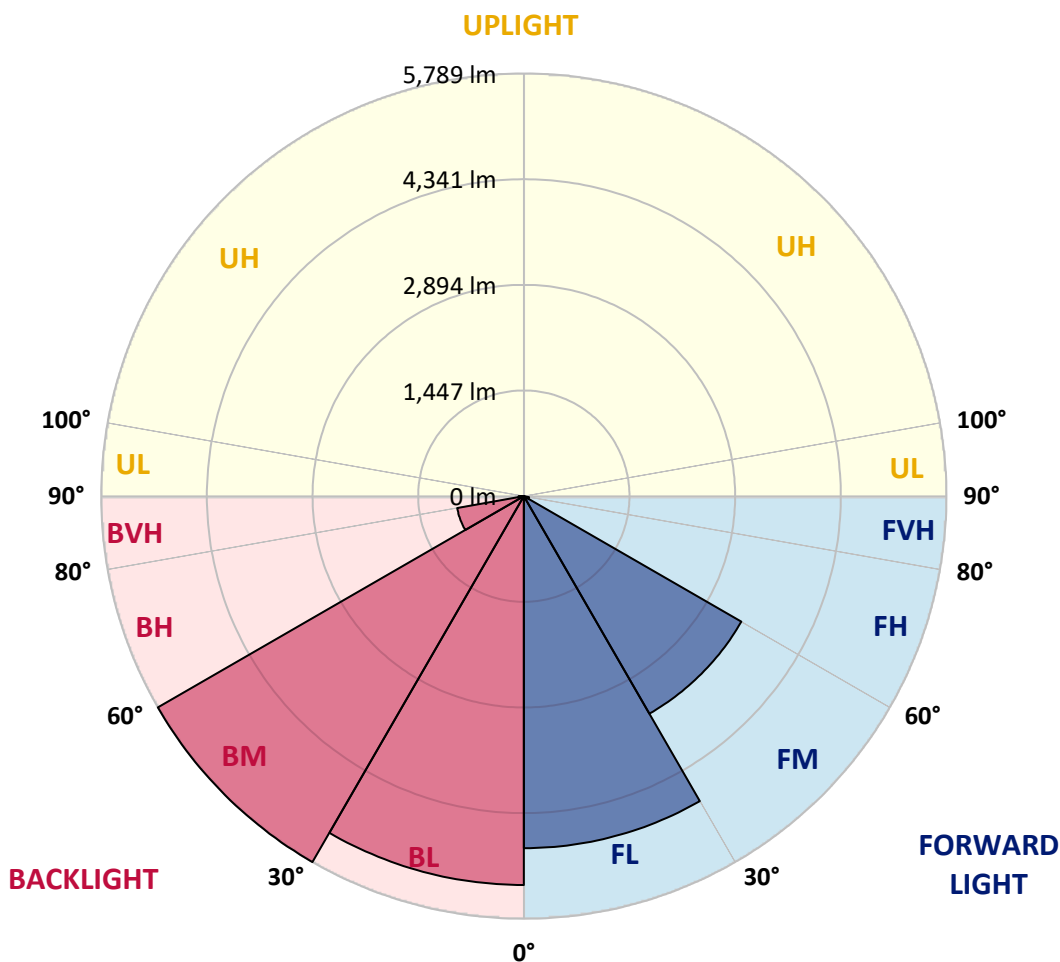


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4822.0	23.6			
FM (30°-60°)	3440.2	16.8			
FH (60°-80°)	72.1	0.4			G0/660
FVH (80°-90°)	6.3	0.0			G0/10
BL (0°-30°)	5326.8	26.0	B5		
BM (30°-60°)	5788.6	28.3	B4/8500		
BH (60°-80°)	927.1	4.5	B2/1000		G2/1000
BVH (80°-90°)	72.1	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G2
 Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	15566.2	15566.2	15566.2	15566.2	15566.2	15566.2	15566.2	15566.2	15566.2	15566.2
2.5°	15537.4	15557.6	15448.1	15459.6	15479.8	15626.7	15589.3	15554.7	15505.7	15589.3
5°	15517.3	15528.8	15413.6	15373.2	15390.5	15523.0	15402.0	15402.0	15390.5	15376.1
7.5°	15361.7	15367.5	15278.2	15206.2	15252.3	15312.7	15223.4	15266.7	15203.3	15252.3
10°	15128.4	15090.9	14984.4	14964.2	15016.0	15073.7	15013.2	15053.5	14995.9	15033.3
12.5°	14785.6	14728.0	14641.6	14615.7	14705.0	14782.7	14733.8	14710.7	14635.8	14728.0
15°	13463.5	13420.3	13616.1	13958.9	14267.1	14333.4	14281.5	14304.6	14149.0	14174.9
17.5°	11081.3	11000.6	11210.9	12023.2	13181.2	13791.8	13745.7	13596.0	13365.5	13417.4
20°	10070.2	10047.2	10024.1	10217.1	11026.6	12878.7	12942.1	12561.9	12233.5	12161.5
22.5°	9499.9	9491.2	9468.2	9511.4	9724.6	10914.2	11640.1	11288.7	11069.8	11049.6
25°	8978.5	8964.1	8895.0	8949.7	8949.7	9018.8	9949.2	10162.4	9969.4	9946.4
27.5°	8448.5	8422.6	8411.1	8437.0	8304.5	7837.8	8074.0	9113.9	9013.1	9018.8
30°	7875.3	7866.6	7835.0	7889.7	7480.7	6901.7	6751.9	8163.3	8183.5	8177.7
32.5°	7022.7	7060.1	7204.1	7264.6	6590.6	6112.4	5861.8	7063.0	7474.9	7466.3
35°	5101.4	5101.4	5570.9	6443.7	5775.4	5415.3	5280.0	5988.6	6774.9	6803.7
37.5°	4194.0	4208.4	4300.6	4698.1	4983.3	4856.5	4816.2	5040.9	5876.2	5922.3
40°	3773.5	3773.5	3773.5	3609.3	3600.6	4375.5	4352.4	4280.4	5075.4	5176.3
42.5°	3390.3	3399.0	3404.8	2990.0	2759.5	3782.1	3730.2	3620.8	4358.2	4476.3
45°	2995.7	3010.1	3027.4	2500.3	2399.5	2722.1	3157.0	3036.0	3649.6	3802.3
47.5°	1829.1	1852.2	2243.9	2120.0	2131.6	2099.9	2575.2	2555.0	2992.8	3208.9
50°	1235.7	1244.4	1281.8	1345.2	1829.1	1650.5	1823.4	2114.3	2272.7	2601.1
52.5°	1037.0	1051.4	959.2	872.8	1201.2	1290.5	1273.2	1569.9	1633.2	2039.4
55°	728.8	774.9	731.6	723.0	682.7	1002.4	965.0	1206.9	1247.3	1549.7
57.5°	74.9	86.4	149.8	538.7	446.5	567.5	688.4	884.3	924.6	1143.6
60°	5.8	5.8	14.4	74.9	325.5	339.9	475.3	544.4	622.2	797.9
62.5°	0.0	2.9	5.8	11.5	51.8	181.5	239.1	285.2	374.5	515.6
65°	0.0	0.0	2.9	8.6	11.5	69.1	92.2	149.8	204.5	319.7
67.5°	0.0	0.0	2.9	5.8	8.6	17.3	31.7	54.7	109.5	181.5
70°	0.0	0.0	2.9	5.8	8.6	14.4	23.0	34.6	49.0	97.9
72.5°	0.0	0.0	2.9	2.9	5.8	14.4	17.3	23.0	34.6	49.0
75°	0.0	0.0	2.9	2.9	8.6	17.3	14.4	17.3	23.0	31.7
77.5°	0.0	0.0	2.9	5.8	8.6	17.3	14.4	17.3	17.3	20.2
80°	0.0	0.0	2.9	5.8	11.5	20.2	17.3	17.3	14.4	14.4
82.5°	0.0	0.0	2.9	8.6	11.5	25.9	25.9	23.0	11.5	8.6
85°	0.0	0.0	5.8	11.5	17.3	28.8	28.8	23.0	8.6	5.8
87.5°	0.0	0.0	5.8	8.6	14.4	20.2	28.8	23.0	8.6	2.9
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°
15566.2	0°	15566.2	15566.2	15566.2	15566.2	15566.2	15566.2	15566.2	15566.2	15566.2
15517.3	2.5°	15595.0	15577.7	15635.4	15658.4	15690.1	15569.1	15494.2	15497.1	15358.8
15341.5	5°	15433.7	15436.6	15511.5	15505.7	15537.4	15471.2	15442.4	15393.4	15272.4
15119.7	7.5°	15229.2	15203.3	15275.3	15330.0	15249.4	15295.5	15229.2	15252.3	15180.2
14923.9	10°	15070.8	15010.3	15076.5	15114.0	15116.9	15070.8	15007.4	14946.9	14921.0
14618.5	12.5°	14719.4	14641.6	14753.9	14805.8	14797.1	14707.8	14635.8	14650.2	14566.7
14082.8	15°	14235.4	14238.3	14319.0	14367.9	14321.8	14301.7	14307.4	14272.9	14200.9
13342.5	17.5°	13495.1	13538.4	13751.5	13869.6	13895.5	13855.2	13835.0	13794.7	13722.7
12161.5	20°	12262.3	12521.5	12901.8	13267.6	13339.6	13328.1	13256.1	13238.8	13198.5
10992.0	22.5°	11179.2	11372.2	11812.9	12383.3	12677.1	12705.9	12619.5	12593.5	12550.3
9946.4	25°	10058.7	10266.1	10663.6	11282.9	11890.7	12014.6	12000.2	11922.4	11876.3
9018.8	27.5°	9113.9	9321.3	9681.4	10240.2	10891.2	11288.7	11326.1	11202.3	11199.4
8192.1	30°	8261.3	8546.4	8820.1	9275.2	9906.0	10502.3	10565.7	10479.3	10487.9
7434.6	32.5°	7593.0	7829.2	8062.5	8367.9	8892.1	9586.3	9834.0	9753.4	9721.7
6803.7	35°	6910.3	7071.6	7310.7	7590.1	7947.3	8635.7	9064.9	9004.4	8972.8
5951.1	37.5°	6132.6	6409.1	6581.9	6895.9	7175.3	7722.6	8327.5	8318.9	8252.6
5225.2	40°	5334.7	5625.6	5887.7	6204.6	6420.6	6855.6	7526.7	7523.9	7532.5
4473.4	42.5°	4611.7	4879.6	5196.4	5542.1	5749.5	6066.3	6786.5	6826.8	6875.8
3854.1	45°	3957.8	4199.8	4493.6	4914.1	5164.7	5346.2	5985.7	6170.0	6167.2
3301.1	47.5°	3370.2	3597.7	3845.5	4254.5	4574.2	4738.4	5268.4	5530.6	5513.3
2707.7	50°	2828.7	3030.3	3289.5	3586.2	4015.4	4159.4	4554.1	4899.7	4873.8
2157.5	52.5°	2275.6	2555.0	2773.9	3044.7	3496.9	3638.1	3943.4	4280.4	4260.3
1618.8	55°	1774.4	2045.2	2310.2	2543.5	2923.7	3134.0	3352.9	3698.6	3692.8
1267.4	57.5°	1342.3	1639.0	1889.6	2111.4	2413.9	2673.1	2848.8	3162.8	3203.1
867.0	60°	993.8	1221.3	1492.1	1739.8	1978.9	2246.8	2364.9	2673.1	2690.4
593.4	62.5°	676.9	927.5	1192.5	1417.2	1595.8	1872.3	1978.9	2232.4	2264.1
380.2	65°	469.5	630.8	933.3	1094.6	1313.5	1549.7	1656.3	1857.9	1921.3
218.9	67.5°	311.1	449.4	728.8	875.7	1091.7	1253.0	1388.4	1552.6	1621.7
138.3	70°	169.9	331.3	521.4	691.3	878.6	1034.1	1166.6	1299.1	1359.6
63.4	72.5°	115.2	221.8	362.9	547.3	708.6	861.3	979.4	1077.3	1080.2
37.4	75°	57.6	149.8	276.5	423.4	553.1	702.8	809.4	867.0	797.9
23.0	77.5°	34.6	109.5	224.7	339.9	449.4	567.5	627.9	659.6	547.3
17.3	80°	20.2	77.8	175.7	270.8	311.1	417.7	475.3	483.9	365.8
11.5	82.5°	14.4	57.6	138.3	198.8	190.1	293.8	357.2	345.7	233.3
8.6	85°	8.6	40.3	86.4	123.9	115.2	193.0	207.4	213.2	135.4
5.8	87.5°	5.8	23.0	46.1	66.3	54.7	83.5	83.5	100.8	66.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
15566.2
<i>15180.2</i>
15243.6
15059.3
14805.8
14494.7
14128.9
13691.0
13106.3
12538.8
11827.3
11193.6
10444.7
9724.6
8929.6
8307.4
7532.5
6849.8
6172.9
5519.0
4896.9
4303.5
3707.2
3185.8
2716.3
2269.8
1906.9
1613.1
1336.6
1054.3
746.0
527.1
342.8
216.0
123.9
57.6
0.0

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