

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: P638112

Luminaire Tested: **IFLD-S-SA6C-730-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638112
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-730-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (96) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29103.7 lumens
Efficiency: N/A
Efficacy: 90.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

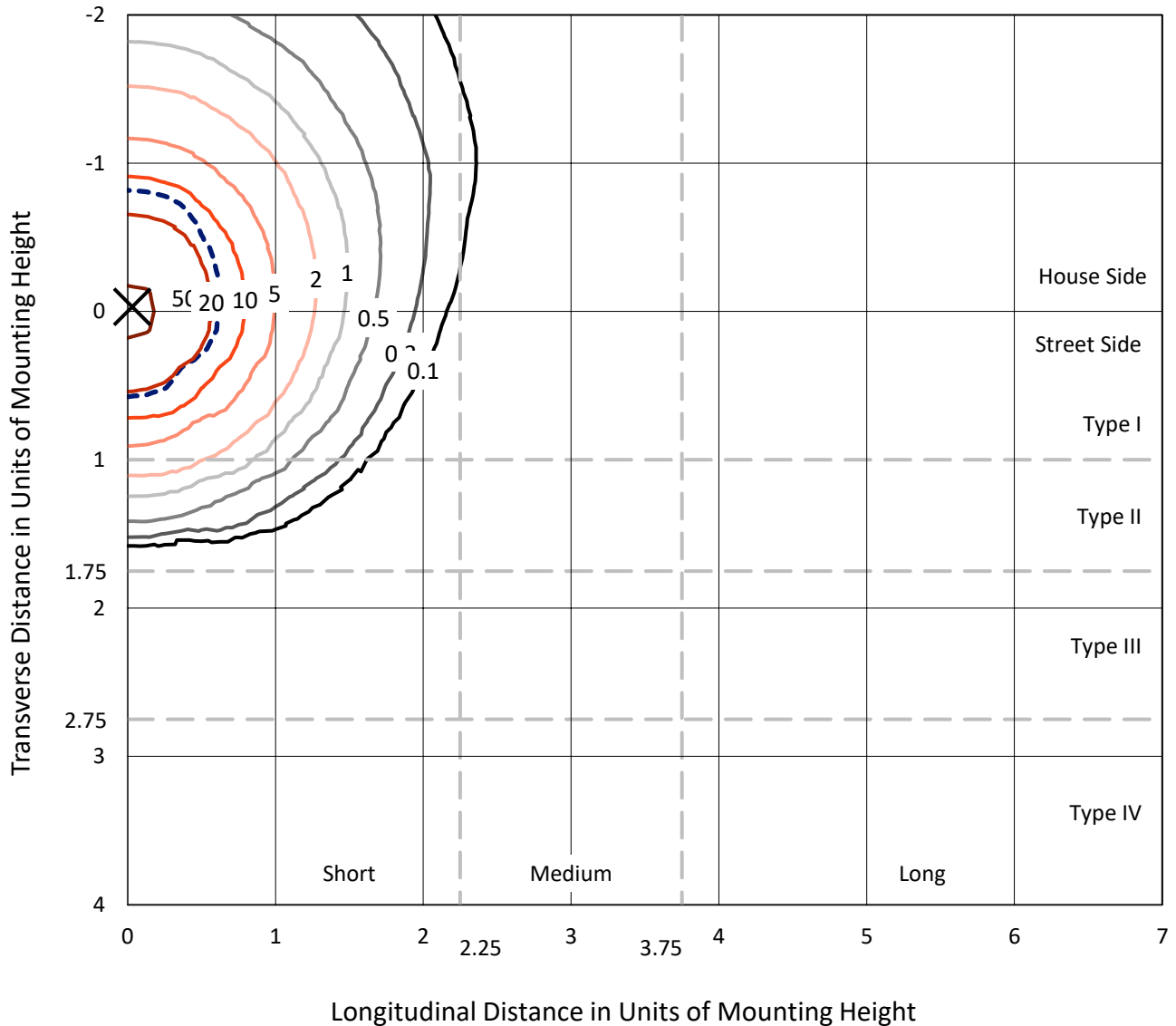
Input Watts (W): 321.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

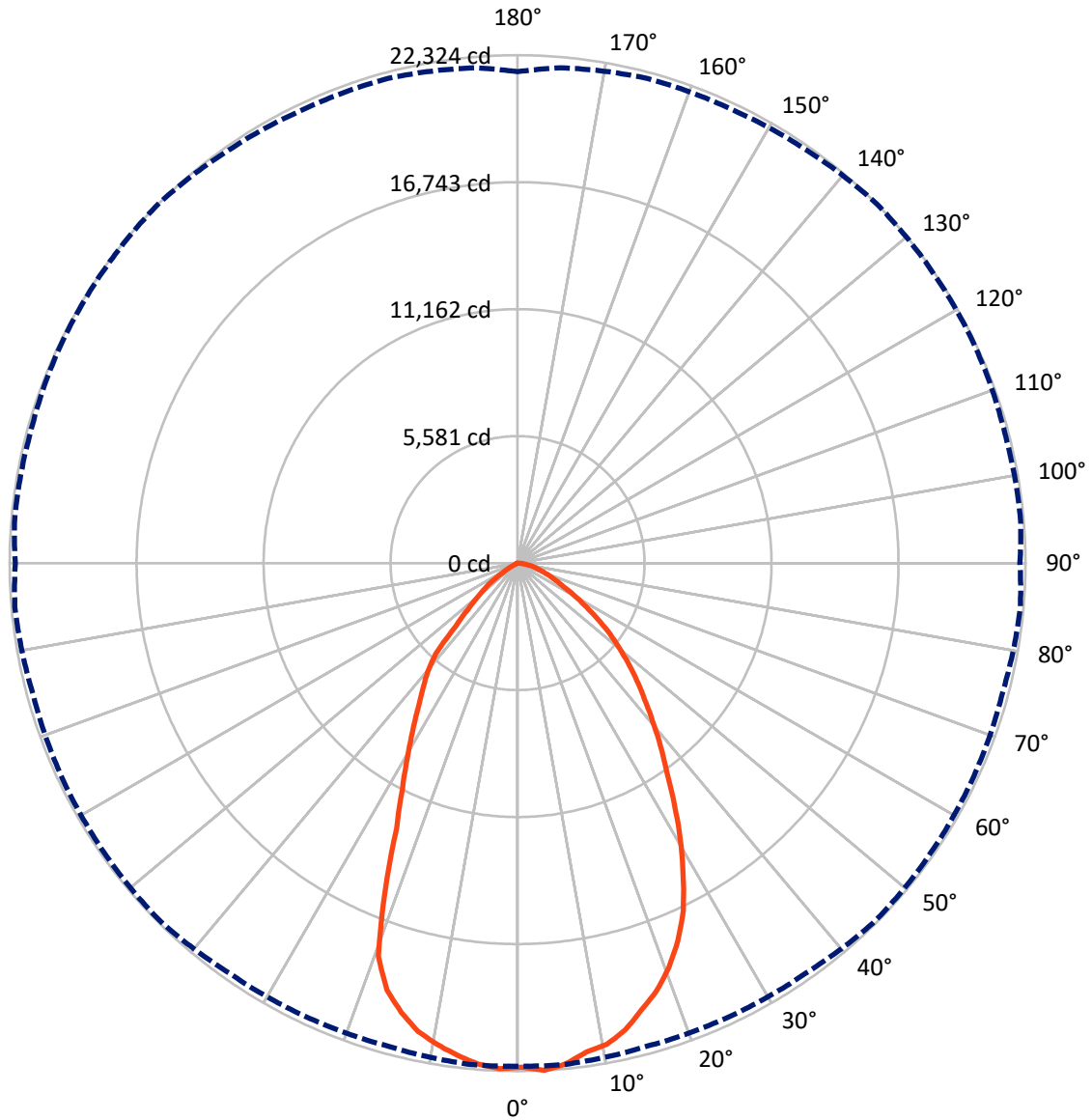
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 55.4 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	17236.7	0.0	17236.7
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	11867.0	0.0	11867.0
	% Fixture	40.8	0.0	40.8
Total	Lumens	29103.7	0.0	29103.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2077.1	7.1
10°-20°	5569.9	19.1
20°-30°	6792.8	23.3
30°-40°	6201.8	21.3
40°-50°	4481.9	15.4
50°-60°	2447.2	8.4
60°-70°	1011.8	3.5
70°-80°	409.8	1.4
80°-90°	111.5	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°	29103.7	100.0
0°-180°	29103.7	100.0



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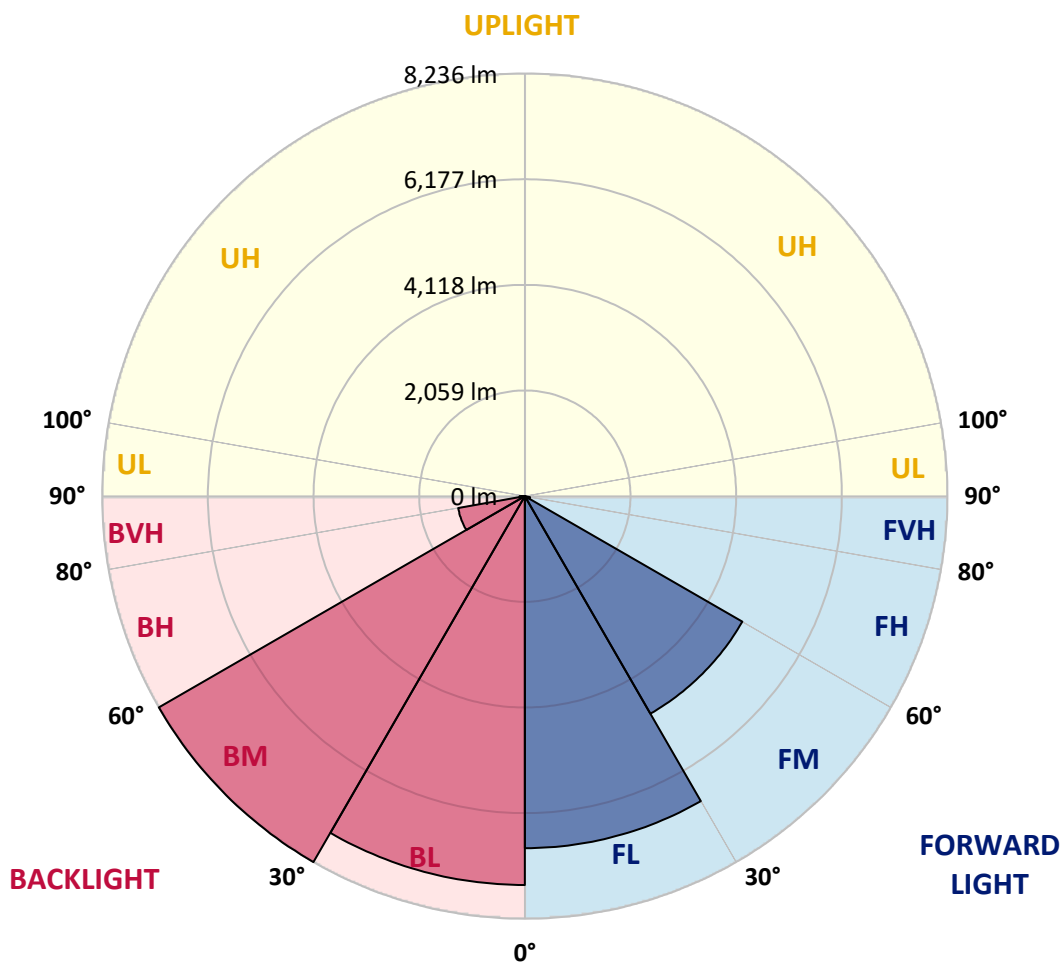
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6860.8	23.6			
FM (30°-60°)	4894.7	16.8			
FH (60°-80°)	102.6	0.4			G0/660
FVH (80°-90°)	8.9	0.0			G0/10
BL (0°-30°)	7579.0	26.0	B5		
BM (30°-60°)	8236.1	28.3	B4/8500		
BH (60°-80°)	1319.0	4.5	B3/2500		G3/2500
BVH (80°-90°)	102.5	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	22147.8	22147.8	22147.8	22147.8	22147.8	22147.8	22147.8	22147.8	22147.8	22147.8
2.5°	22106.8	22135.5	21979.8	21996.2	22024.9	22233.9	22180.6	22131.4	22061.8	22180.6
5°	22078.1	22094.5	21930.6	21873.2	21897.8	22086.3	21914.2	21914.2	21897.8	21877.3
7.5°	21856.8	21865.0	21738.0	21635.5	21701.1	21787.2	21660.1	21721.6	21631.4	21701.1
10°	21524.9	21471.6	21319.9	21291.3	21365.0	21447.0	21360.9	21418.3	21336.3	21389.6
12.5°	21037.2	20955.2	20832.2	20795.3	20922.4	21033.1	20963.4	20930.6	20824.0	20955.2
15°	19156.0	19094.5	19373.2	19860.9	20299.4	20393.7	20319.9	20352.7	20131.4	20168.3
17.5°	15766.6	15651.8	15951.0	17106.8	18754.3	19623.2	19557.6	19344.5	19016.6	19090.4
20°	14328.0	14295.3	14262.5	14537.1	15688.7	18324.0	18414.2	17873.2	17406.0	17303.5
22.5°	13516.6	13504.3	13471.5	13533.0	13836.2	15528.9	16561.7	16061.7	15750.2	15721.5
25°	12774.8	12754.3	12655.9	12733.8	12733.8	12832.1	14155.9	14459.2	14184.6	14151.8
27.5°	12020.6	11983.8	11967.4	12004.2	11815.7	11151.8	11487.8	12967.4	12823.9	12832.1
30°	11205.1	11192.8	11147.7	11225.6	10643.6	9819.8	9606.7	11614.9	11643.6	11635.4
32.5°	9991.9	10045.2	10250.1	10336.2	9377.2	8696.8	8340.3	10049.3	10635.4	10623.1
35°	7258.3	7258.3	7926.3	9168.1	8217.3	7705.0	7512.4	8520.6	9639.5	9680.4
37.5°	5967.3	5987.8	6118.9	6684.5	7090.3	6909.9	6852.5	7172.2	8360.8	8426.3
40°	5368.9	5368.9	5368.9	5135.3	5123.0	6225.5	6192.7	6090.2	7221.4	7364.8
42.5°	4823.8	4836.1	4844.3	4254.2	3926.3	5381.2	5307.4	5151.7	6200.9	6368.9
45°	4262.3	4282.8	4307.4	3557.4	3414.0	3873.0	4491.9	4319.7	5192.7	5409.9
47.5°	2602.5	2635.3	3192.7	3016.4	3032.8	2987.7	3664.0	3635.3	4258.3	4565.6
50°	1758.2	1770.5	1823.8	1914.0	2602.5	2348.4	2594.3	3008.2	3233.6	3700.9
52.5°	1475.4	1495.9	1364.8	1241.8	1709.0	1836.1	1811.5	2233.6	2323.8	2901.7
55°	1036.9	1102.5	1041.0	1028.7	971.3	1426.2	1373.0	1717.2	1774.6	2204.9
57.5°	106.6	123.0	213.1	766.4	635.3	807.4	979.5	1258.2	1315.6	1627.1
60°	8.2	8.2	20.5	106.6	463.1	483.6	676.2	774.6	885.3	1135.3
62.5°	0.0	4.1	8.2	16.4	73.8	258.2	340.2	405.7	532.8	733.6
65°	0.0	0.0	4.1	12.3	16.4	98.4	131.1	213.1	291.0	454.9
67.5°	0.0	0.0	4.1	8.2	12.3	24.6	45.1	77.9	155.7	258.2
70°	0.0	0.0	4.1	8.2	12.3	20.5	32.8	49.2	69.7	139.3
72.5°	0.0	0.0	4.1	4.1	8.2	20.5	24.6	32.8	49.2	69.7
75°	0.0	0.0	4.1	4.1	12.3	24.6	20.5	24.6	32.8	45.1
77.5°	0.0	0.0	4.1	8.2	12.3	24.6	20.5	24.6	24.6	28.7
80°	0.0	0.0	4.1	8.2	16.4	28.7	24.6	24.6	20.5	20.5
82.5°	0.0	0.0	4.1	12.3	16.4	36.9	36.9	32.8	16.4	12.3
85°	0.0	0.0	8.2	16.4	24.6	41.0	41.0	32.8	12.3	8.2
87.5°	0.0	0.0	8.2	12.3	20.5	28.7	41.0	32.8	12.3	4.1
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°
22147.8	0°	22147.8	22147.8	22147.8	22147.8	22147.8	22147.8	22147.8	22147.8	22147.8
22078.1	2.5°	22188.8	22164.2	22246.2	22279.0	22324.1	22151.9	22045.4	22049.5	21852.7
21828.1	5°	21959.3	21963.4	22070.0	22061.8	22106.8	22012.6	21971.6	21901.9	21729.8
21512.6	7.5°	21668.3	21631.4	21733.9	21811.8	21697.0	21762.6	21668.3	21701.1	21598.6
21233.9	10°	21442.9	21356.8	21451.1	21504.4	21508.5	21442.9	21352.7	21266.7	21229.8
20799.4	12.5°	20942.9	20832.2	20992.1	21065.8	21053.5	20926.5	20824.0	20844.5	20725.7
20037.1	15°	20254.4	20258.5	20373.2	20442.9	20377.3	20348.6	20356.8	20307.6	20205.2
18983.8	17.5°	19201.1	19262.5	19565.8	19733.9	19770.7	19713.4	19684.7	19627.3	19524.8
17303.5	20°	17446.9	17815.8	18356.8	18877.3	18979.7	18963.4	18860.9	18836.3	18778.9
15639.5	22.5°	15905.9	16180.5	16807.6	17619.1	18037.1	18078.1	17955.1	17918.3	17856.8
14151.8	25°	14311.7	14606.7	15172.3	16053.5	16918.2	17094.5	17074.0	16963.3	16897.8
12832.1	27.5°	12967.4	13262.5	13774.8	14569.9	15496.1	16061.7	16115.0	15938.7	15934.6
11655.9	30°	11754.2	12160.0	12549.3	13196.9	14094.4	14942.8	15033.0	14910.0	14922.3
10578.0	32.5°	10803.4	11139.5	11471.5	11905.9	12651.8	13639.5	13992.0	13877.2	13832.1
9680.4	35°	9832.1	10061.6	10401.8	10799.3	11307.5	12287.0	12897.7	12811.6	12766.6
8467.3	37.5°	8725.5	9119.0	9364.9	9811.6	10209.1	10987.8	11848.5	11836.2	11742.0
7434.5	40°	7590.3	8004.2	8377.2	8828.0	9135.4	9754.2	10709.2	10705.1	10717.3
6364.8	42.5°	6561.6	6942.7	7393.5	7885.3	8180.4	8631.3	9655.9	9713.2	9782.9
5483.7	45°	5631.2	5975.5	6393.5	6991.9	7348.5	7606.7	8516.5	8778.8	8774.7
4696.8	47.5°	4795.1	5118.9	5471.4	6053.4	6508.3	6741.9	7496.0	7869.0	7844.4
3852.5	50°	4024.6	4311.5	4680.4	5102.5	5713.2	5918.1	6479.6	6971.4	6934.5
3069.7	52.5°	3237.7	3635.3	3946.8	4332.0	4975.5	5176.3	5610.7	6090.2	6061.6
2303.3	55°	2524.6	2909.9	3286.9	3618.9	4159.9	4459.1	4770.6	5262.4	5254.2
1803.3	57.5°	1909.9	2332.0	2688.6	3004.1	3434.5	3803.3	4053.3	4500.1	4557.4
1233.6	60°	1414.0	1737.7	2123.0	2475.4	2815.6	3196.8	3364.8	3803.3	3827.9
844.3	62.5°	963.1	1319.7	1696.7	2016.4	2270.5	2664.0	2815.6	3176.3	3221.4
541.0	65°	668.0	897.6	1327.9	1557.4	1868.9	2204.9	2356.6	2643.5	2733.6
311.5	67.5°	442.6	639.4	1036.9	1245.9	1553.3	1782.8	1975.4	2209.0	2307.4
196.7	70°	241.8	471.3	741.8	983.6	1250.0	1471.3	1659.9	1848.4	1934.5
90.2	72.5°	163.9	315.6	516.4	778.7	1008.2	1225.4	1393.5	1532.8	1536.9
53.3	75°	82.0	213.1	393.4	602.5	786.9	1000.0	1151.7	1233.6	1135.3
32.8	77.5°	49.2	155.7	319.7	483.6	639.4	807.4	893.5	938.5	778.7
24.6	80°	28.7	110.7	250.0	385.3	442.6	594.3	676.2	688.5	520.5
16.4	82.5°	20.5	82.0	196.7	282.8	270.5	418.0	508.2	491.8	332.0
12.3	85°	12.3	57.4	123.0	176.2	163.9	274.6	295.1	303.3	192.6
8.2	87.5°	8.2	32.8	65.6	94.3	77.9	118.9	118.9	143.4	94.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
22147.8
21598.6
21688.8
21426.5
21065.8
20623.2
20102.7
19479.8
18647.8
17840.4
16828.1
15926.4
14860.8
13836.2
12705.1
11819.8
10717.3
9746.0
8782.9
7852.6
6967.3
6123.0
5274.7
4532.8
3864.8
3229.5
2713.1
2295.1
1901.7
1500.0
1061.5
750.0
487.7
307.4
176.2
82.0
0.0

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