

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: P638183

Luminaire Tested: **IFLD-L-SA8A-740-U-77-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638183  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8A-740-U-77-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor  
Light Source: (128) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26349.4 lumens  
Efficiency: N/A  
Efficacy: 106.3 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G3

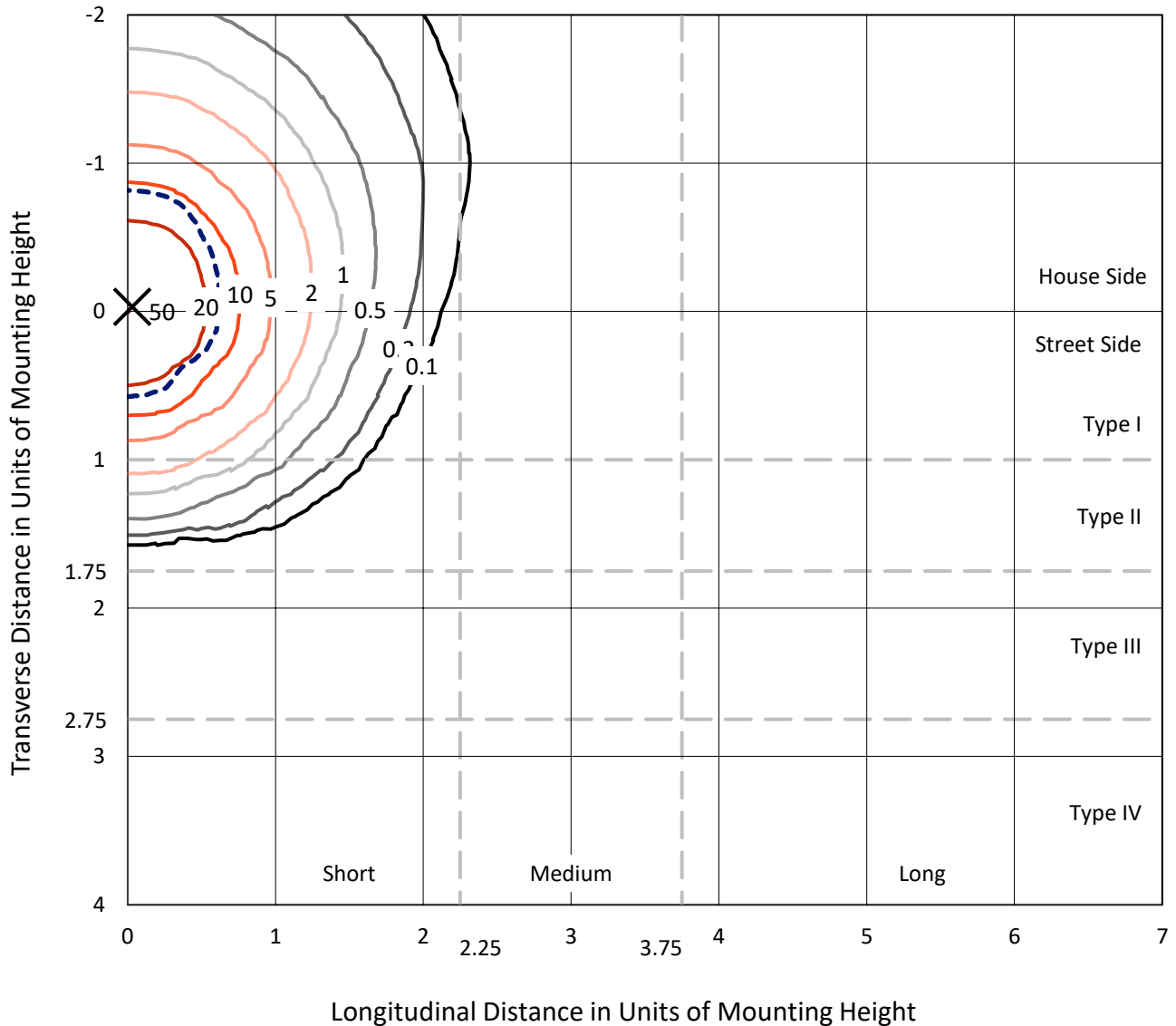
Input Watts (W): 247.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

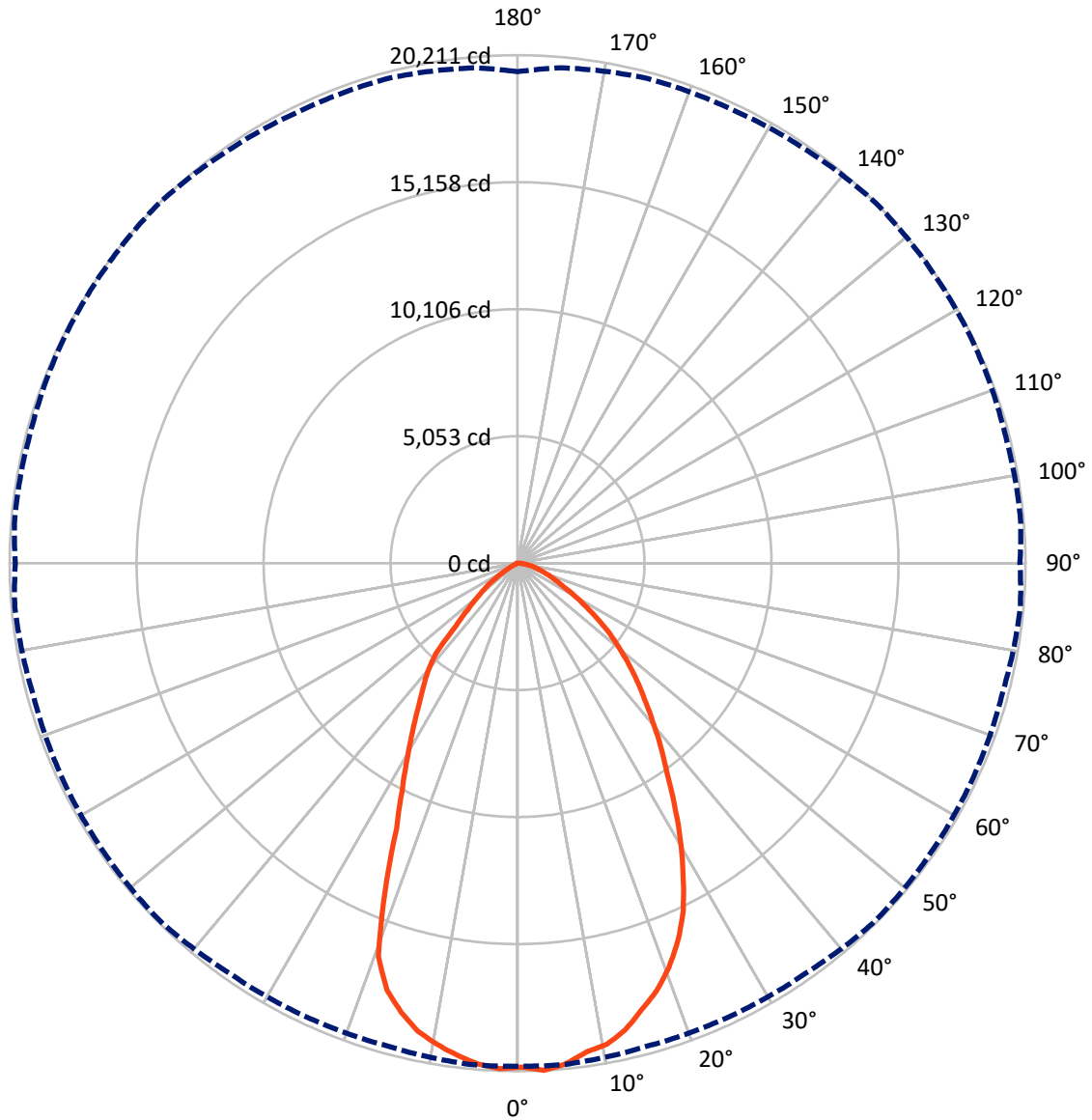
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 50.1 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
<b>House Side</b>	Lumens	15605.4	0.0	15605.4
	% Fixture	59.2	0.0	59.2
<b>Street Side</b>	Lumens	10743.9	0.0	10743.9
	% Fixture	40.8	0.0	40.8
<b>Total</b>	Lumens	26349.4	0.0	26349.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1880.5	7.1
10°-20°	5042.8	19.1
20°-30°	6150.0	23.3
30°-40°	5614.8	21.3
40°-50°	4057.7	15.4
50°-60°	2215.6	8.4
60°-70°	916.1	3.5
70°-80°	371.0	1.4
80°-90°	100.9	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°	26349.4	100.0
0°-180°	26349.4	100.0

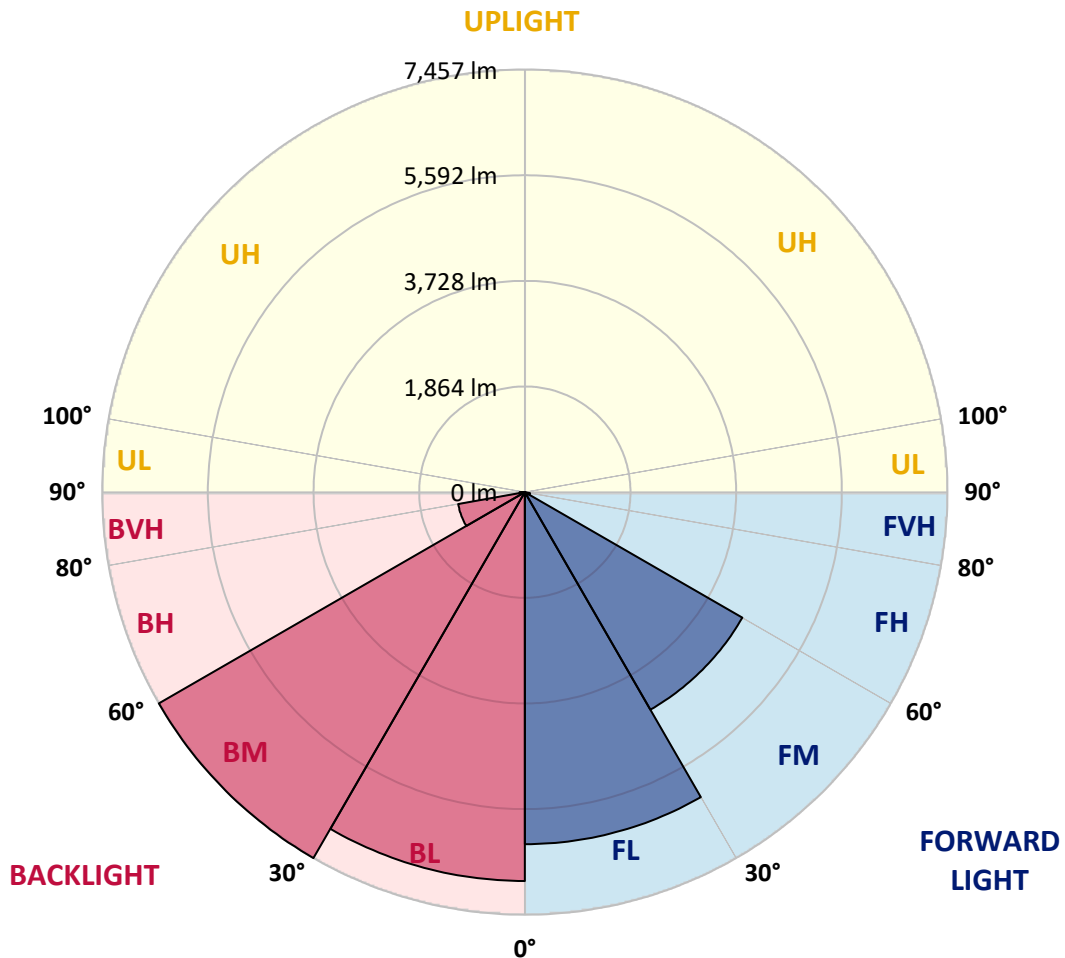


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6211.5	23.6			
FM (30°-60°)	4431.5	16.8			
FH (60°-80°)	92.9	0.4			G0/660
FVH (80°-90°)	8.1	0.0			G0/10
BL (0°-30°)	6861.8	26.0	B5		
BM (30°-60°)	7456.6	28.3	B4/8500		
BH (60°-80°)	1194.2	4.5	B3/2500		G3/2500
BVH (80°-90°)	92.8	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-G3**  
 Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	20051.8	20051.8	20051.8	20051.8	20051.8	20051.8	20051.8	20051.8	20051.8	20051.8
2.5°	20014.7	20040.6	19899.6	19914.5	19940.5	20129.7	20081.5	20036.9	19973.9	20081.5
5°	19988.7	20003.5	19855.1	19803.2	19825.4	19996.1	19840.3	19840.3	19825.4	19806.9
7.5°	19788.3	19795.8	19680.7	19588.0	19647.3	19725.3	19610.2	19665.9	19584.3	19647.3
10°	19487.8	19439.5	19302.3	19276.3	19343.1	19417.3	19339.4	19391.3	19317.1	19365.3
12.5°	19046.2	18972.0	18860.7	18827.3	18942.3	19042.5	18979.4	18949.7	18853.3	18972.0
15°	17343.1	17287.4	17539.7	17981.3	18378.3	18463.7	18396.9	18426.6	18226.2	18259.6
17.5°	14274.5	14170.6	14441.4	15487.8	16979.5	17766.1	17706.7	17513.8	17216.9	17283.7
20°	12972.1	12942.4	12912.7	13161.3	14204.0	16589.8	16671.5	16181.7	15758.7	15665.9
22.5°	12237.4	12226.2	12196.6	12252.2	12526.8	14059.3	14994.3	14541.6	14259.6	14233.6
25°	11565.8	11547.2	11458.2	11528.7	11528.7	11617.7	12816.2	13090.8	12842.2	12812.5
27.5°	10883.0	10849.6	10834.8	10868.2	10697.5	10096.4	10400.7	11740.2	11610.3	11617.7
30°	10144.6	10133.5	10092.7	10163.2	9636.3	8890.5	8697.5	10515.7	10541.7	10534.2
32.5°	9046.3	9094.5	9280.1	9358.0	8489.7	7873.8	7551.0	9098.3	9628.9	9617.7
35°	6571.4	6571.4	7176.2	8300.5	7439.6	6975.8	6801.4	7714.2	8727.2	8764.3
37.5°	5402.6	5421.1	5539.8	6051.9	6419.2	6256.0	6204.0	6493.5	7569.5	7628.9
40°	4860.8	4860.8	4860.8	4649.3	4638.2	5636.3	5606.6	5513.9	6538.0	6667.8
42.5°	4367.3	4378.4	4385.9	3851.5	3554.7	4871.9	4805.2	4664.2	5614.1	5766.2
45°	3859.0	3877.5	3899.8	3220.8	3090.9	3506.5	4066.8	3910.9	4701.3	4897.9
47.5°	2356.2	2385.9	2890.5	2731.0	2745.8	2705.0	3317.2	3291.3	3855.3	4133.5
50°	1591.8	1603.0	1651.2	1732.8	2356.2	2126.1	2348.8	2723.5	2927.6	3350.6
52.5°	1335.8	1354.3	1235.6	1124.3	1547.3	1662.3	1640.1	2022.2	2103.9	2627.1
55°	938.8	998.1	942.5	931.3	879.4	1291.3	1243.0	1554.7	1606.7	1996.3
57.5°	96.5	111.3	192.9	693.9	575.1	731.0	886.8	1139.1	1191.1	1473.1
60°	7.4	7.4	18.6	96.5	419.3	437.8	612.2	701.3	801.5	1027.8
62.5°	0.0	3.7	7.4	14.8	66.8	233.8	308.0	367.3	482.4	664.2
65°	0.0	0.0	3.7	11.1	14.8	89.1	118.7	192.9	263.4	411.9
67.5°	0.0	0.0	3.7	7.4	11.1	22.3	40.8	70.5	141.0	233.8
70°	0.0	0.0	3.7	7.4	11.1	18.6	29.7	44.5	63.1	126.2
72.5°	0.0	0.0	3.7	3.7	7.4	18.6	22.3	29.7	44.5	63.1
75°	0.0	0.0	3.7	3.7	11.1	22.3	18.6	22.3	29.7	40.8
77.5°	0.0	0.0	3.7	7.4	11.1	22.3	18.6	22.3	22.3	26.0
80°	0.0	0.0	3.7	7.4	14.8	26.0	22.3	22.3	18.6	18.6
82.5°	0.0	0.0	3.7	11.1	14.8	33.4	33.4	29.7	14.8	11.1
85°	0.0	0.0	7.4	14.8	22.3	37.1	37.1	29.7	11.1	7.4
87.5°	0.0	0.0	7.4	11.1	18.6	26.0	37.1	29.7	11.1	3.7
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°
20051.8	0°	20051.8	20051.8	20051.8	20051.8	20051.8	20051.8	20051.8	20051.8	20051.8
19988.7	2.5°	20088.9	20066.6	20140.8	20170.5	20211.3	20055.5	19959.0	19962.7	19784.6
19762.4	5°	19881.1	19884.8	19981.3	19973.9	20014.7	19929.3	19892.2	19829.1	19673.3
19476.6	7.5°	19617.6	19584.3	19677.0	19747.5	19643.6	19703.0	19617.6	19647.3	19554.6
19224.3	10°	19413.6	19335.6	19421.0	19469.2	19472.9	19413.6	19331.9	19254.0	19220.6
18831.0	12.5°	18960.9	18860.7	19005.4	19072.2	19061.1	18946.0	18853.3	18871.8	18764.2
18140.9	15°	18337.5	18341.2	18445.1	18508.2	18448.8	18422.9	18430.3	18385.7	18293.0
17187.2	17.5°	17383.9	17439.6	17714.1	17866.3	17899.7	17847.7	17821.7	17769.8	17677.0
15665.9	20°	15795.8	16129.7	16619.5	17090.8	17183.5	17168.7	17075.9	17053.7	17001.7
14159.4	22.5°	14400.6	14649.2	15216.9	15951.6	16330.1	16367.2	16255.9	16222.5	16166.8
12812.5	25°	12957.2	13224.4	13736.4	14534.2	15317.1	15476.7	15458.1	15357.9	15298.6
11617.7	27.5°	11740.2	12007.3	12471.1	13191.0	14029.6	14541.6	14589.9	14430.3	14426.6
10552.8	30°	10641.8	11009.2	11361.7	11948.0	12760.6	13528.6	13610.3	13499.0	13510.1
9576.9	32.5°	9781.0	10085.3	10385.8	10779.1	11454.5	12348.7	12667.8	12563.9	12523.1
8764.3	35°	8901.6	9109.4	9417.4	9777.3	10237.4	11124.2	11677.1	11599.2	11558.3
7666.0	37.5°	7899.7	8256.0	8478.6	8883.0	9243.0	9948.0	10727.2	10716.1	10630.7
6730.9	40°	6871.9	7246.7	7584.4	7992.5	8270.8	8831.1	9695.7	9691.9	9703.1
5762.5	42.5°	5940.6	6285.7	6693.8	7139.1	7406.2	7814.4	8742.0	8794.0	8857.1
4964.7	45°	5098.3	5410.0	5788.4	6330.2	6653.0	6886.8	7710.5	7948.0	7944.3
4252.3	47.5°	4341.3	4634.5	4953.6	5480.5	5892.3	6103.8	6786.6	7124.2	7102.0
3487.9	50°	3643.8	3903.5	4237.4	4619.6	5172.5	5358.0	5866.4	6311.6	6278.2
2779.2	52.5°	2931.3	3291.3	3573.3	3922.0	4504.6	4686.4	5079.7	5513.9	5487.9
2085.3	55°	2285.7	2634.5	2975.9	3276.4	3766.2	4037.1	4319.1	4764.3	4756.9
1632.6	57.5°	1729.1	2111.3	2434.1	2719.8	3109.4	3443.4	3669.7	4074.2	4126.1
1116.9	60°	1280.1	1573.3	1922.1	2241.2	2549.1	2894.2	3046.4	3443.4	3465.6
764.4	62.5°	872.0	1194.8	1536.2	1825.6	2055.6	2411.9	2549.1	2875.7	2916.5
489.8	65°	604.8	812.6	1202.2	1410.0	1692.0	1996.3	2133.6	2393.3	2474.9
282.0	67.5°	400.7	578.8	938.8	1128.0	1406.3	1614.1	1788.5	2000.0	2089.0
178.1	70°	218.9	426.7	671.6	890.5	1131.7	1332.1	1502.8	1673.5	1751.4
81.6	72.5°	148.4	285.7	467.5	705.0	912.8	1109.5	1261.6	1387.7	1391.5
48.2	75°	74.2	192.9	356.2	545.5	712.4	905.4	1042.7	1116.9	1027.8
29.7	77.5°	44.5	141.0	289.4	437.8	578.8	731.0	808.9	849.7	705.0
22.3	80°	26.0	100.2	226.3	348.8	400.7	538.0	612.2	623.4	471.2
14.8	82.5°	18.6	74.2	178.1	256.0	244.9	378.5	460.1	445.3	300.6
11.1	85°	11.1	51.9	111.3	159.6	148.4	248.6	267.2	274.6	174.4
7.4	87.5°	7.4	29.7	59.4	85.3	70.5	107.6	107.6	129.9	85.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
20051.8
19554.6
19636.2
19398.7
19072.2
18671.5
18200.2
17636.2
16883.0
16152.0
15235.5
14419.2
13454.4
12526.8
11502.7
10701.2
9703.1
8823.7
7951.7
7109.4
6307.9
5543.6
4775.5
4103.9
3499.0
2923.9
2456.4
2077.9
1721.7
1358.1
961.0
679.0
441.6
278.3
159.6
74.2
0.0

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