

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: P638210

Luminaire Tested: **IFLD-L-SA7D-750-U-77-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638210  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7D-750-U-77-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor  
Light Source: (112) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 38379.3 lumens  
Efficiency: N/A  
Efficacy: 90.8 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G3

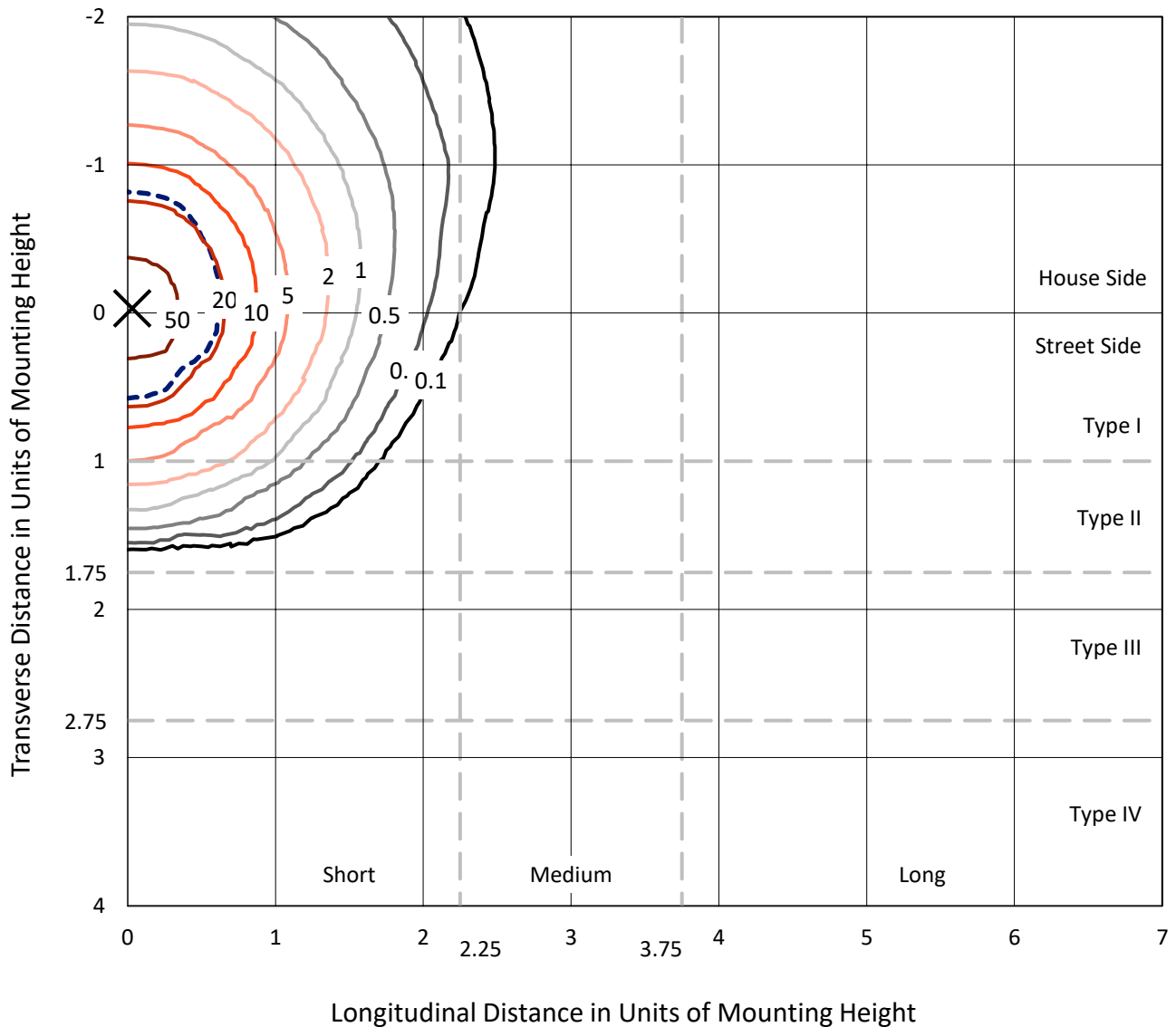
Input Watts (W): 422.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

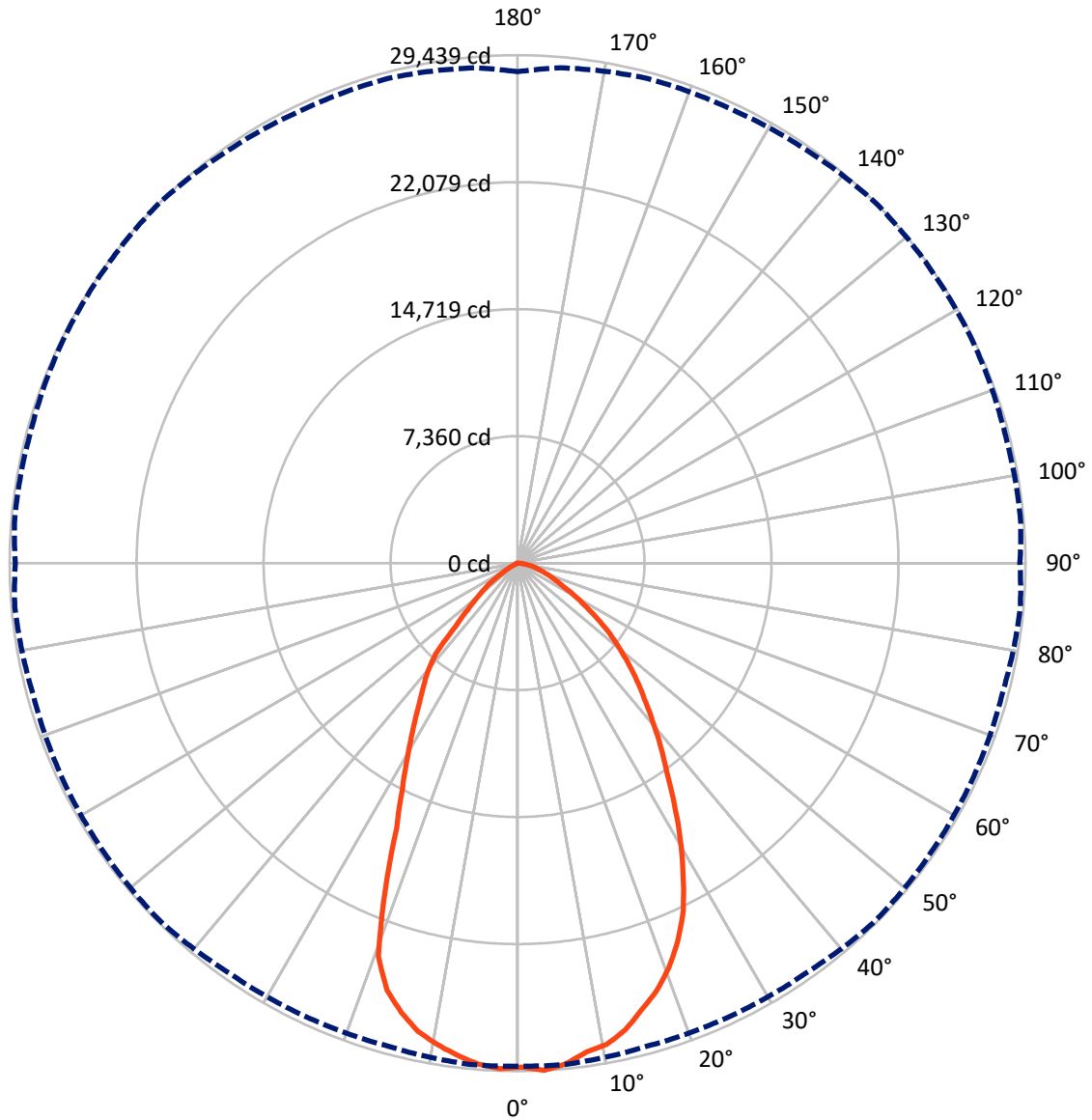
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 73 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	22730.2	0.0	22730.2
	% Fixture	59.2	0.0	59.2
<b>Street Side</b>	Lumens	15649.1	0.0	15649.1
	% Fixture	40.8	0.0	40.8
<b>Total</b>	Lumens	38379.3	0.0	38379.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2739.1	7.1
10°-20°	7345.1	19.1
20°-30°	8957.7	23.3
30°-40°	8178.3	21.3
40°-50°	5910.3	15.4
50°-60°	3227.1	8.4
60°-70°	1334.3	3.5
70°-80°	540.4	1.4
80°-90°	147.0	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°	38379.3	100.0
0°-180°	38379.3	100.0



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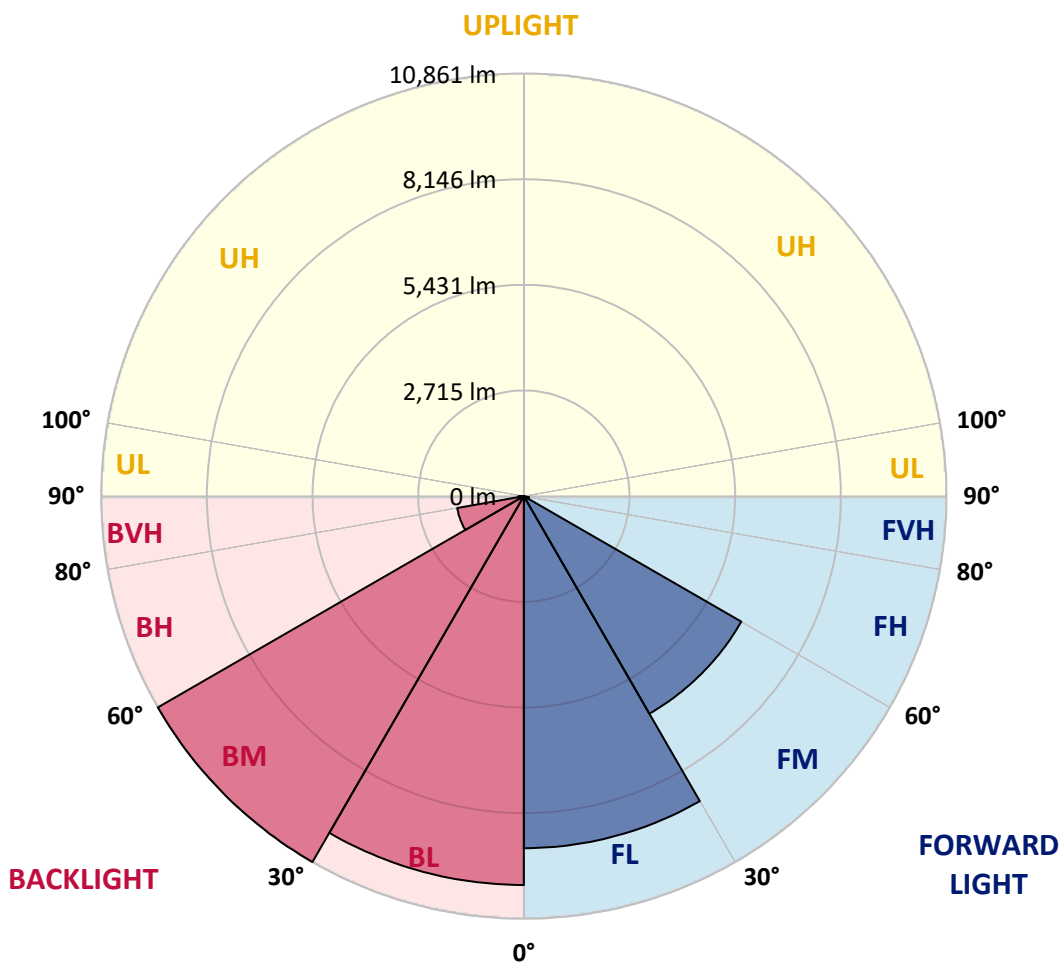
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	9047.4	23.6			
FM (30°-60°)	6454.7	16.8			
FH (60°-80°)	135.2	0.4			G0/660
FVH (80°-90°)	11.8	0.0			G1/100
BL (0°-30°)	9994.5	26.0	B5		
BM (30°-60°)	10861.0	28.3	B5		
BH (60°-80°)	1739.4	4.5	B3/2500		G3/2500
BVH (80°-90°)	135.2	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°	29206.5	29206.5	29206.5	29206.5	29206.5	29206.5	29206.5	29206.5	29206.5	29206.5
2.5°	29152.5	29190.3	28984.9	29006.6	29044.4	29320.0	29249.8	29184.9	29093.0	29249.8
5°	29114.7	29136.3	28920.1	28844.4	28876.9	29125.5	28898.5	28898.5	28876.9	28849.8
7.5°	28822.8	28833.6	28666.1	28531.0	28617.4	28730.9	28563.4	28644.5	28525.6	28617.4
10°	28385.0	28314.8	28114.8	28077.0	28174.3	28282.3	28168.8	28244.5	28136.4	28206.7
12.5°	27741.9	27633.8	27471.7	27423.0	27590.6	27736.5	27644.6	27601.4	27460.8	27633.8
15°	25261.2	25180.1	25547.6	26190.8	26769.1	26893.4	26796.1	26839.3	26547.5	26596.1
17.5°	20791.5	20640.2	21034.8	22558.9	24731.5	25877.3	25790.8	25509.8	25077.4	25174.7
20°	18894.5	18851.3	18808.1	19170.2	20688.9	24164.0	24282.9	23569.5	22953.4	22818.3
22.5°	17824.4	17808.2	17765.0	17846.0	18246.0	20478.1	21840.0	21180.7	20769.9	20732.1
25°	16846.2	16819.2	16689.4	16792.1	16792.1	16921.8	18667.5	19067.5	18705.4	18662.1
27.5°	15851.7	15803.1	15781.5	15830.1	15581.5	14706.0	15149.1	17100.2	16911.0	16921.8
30°	14776.2	14760.0	14700.5	14803.2	14035.8	12949.5	12668.4	15316.7	15354.5	15343.7
32.5°	13176.4	13246.7	13516.9	13630.4	12365.8	11468.6	10998.4	13252.1	14025.0	14008.8
35°	9571.6	9571.6	10452.5	12090.1	10836.3	10160.7	9906.7	11236.2	12711.7	12765.7
37.5°	7869.1	7896.1	8069.1	8814.9	9350.0	9112.2	9036.5	9458.1	11025.4	11111.9
40°	7080.0	7080.0	7080.0	6772.0	6755.8	8209.6	8166.4	8031.3	9522.9	9712.1
42.5°	6361.2	6377.4	6388.3	5610.0	5177.6	7096.3	6999.0	6793.6	8177.2	8398.8
45°	5620.8	5647.8	5680.2	4691.2	4502.0	5107.4	5923.5	5696.5	6847.6	7134.1
47.5°	3431.9	3475.2	4210.2	3977.8	3999.4	3940.0	4831.7	4793.9	5615.4	6020.7
50°	2318.6	2334.8	2405.1	2524.0	3431.9	3096.8	3421.1	3967.0	4264.2	4880.4
52.5°	1945.7	1972.7	1799.7	1637.6	2253.7	2421.3	2388.8	2945.5	3064.4	3826.5
55°	1367.4	1453.8	1372.8	1356.6	1280.9	1880.8	1810.5	2264.5	2340.2	2907.7
57.5°	140.5	162.1	281.0	1010.7	837.7	1064.7	1291.7	1659.2	1734.9	2145.6
60°	10.8	10.8	27.0	140.5	610.7	637.7	891.8	1021.5	1167.4	1497.1
62.5°	0.0	5.4	10.8	21.6	97.3	340.5	448.6	535.1	702.6	967.4
65°	0.0	0.0	5.4	16.2	21.6	129.7	172.9	281.0	383.7	599.9
67.5°	0.0	0.0	5.4	10.8	16.2	32.4	59.5	102.7	205.4	340.5
70°	0.0	0.0	5.4	10.8	16.2	27.0	43.2	64.9	91.9	183.8
72.5°	0.0	0.0	5.4	5.4	10.8	27.0	32.4	43.2	64.9	91.9
75°	0.0	0.0	5.4	5.4	16.2	32.4	27.0	32.4	43.2	59.5
77.5°	0.0	0.0	5.4	10.8	16.2	32.4	27.0	32.4	32.4	37.8
80°	0.0	0.0	5.4	10.8	21.6	37.8	32.4	32.4	27.0	27.0
82.5°	0.0	0.0	5.4	16.2	21.6	48.6	48.6	43.2	21.6	16.2
85°	0.0	0.0	10.8	21.6	32.4	54.0	54.0	43.2	16.2	10.8
87.5°	0.0	0.0	10.8	16.2	27.0	37.8	54.0	43.2	16.2	5.4
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°
29206.5	0°	29206.5	29206.5	29206.5	29206.5	29206.5	29206.5	29206.5	29206.5	29206.5
29114.7	2.5°	29260.6	29228.2	29336.2	29379.5	29438.9	29211.9	29071.4	29076.8	28817.4
28785.0	5°	28957.9	28963.3	29103.8	29093.0	29152.5	29028.2	28974.1	28882.3	28655.3
28368.8	7.5°	28574.2	28525.6	28660.7	28763.4	28612.0	28698.5	28574.2	28617.4	28482.3
28001.3	10°	28276.9	28163.4	28287.7	28358.0	28363.4	28276.9	28158.0	28044.5	27995.9
27428.4	12.5°	27617.6	27471.7	27682.4	27779.7	27763.5	27596.0	27460.8	27487.9	27331.1
26423.2	15°	26709.6	26715.0	26866.3	26958.2	26871.7	26833.9	26844.7	26779.9	26644.7
25034.2	17.5°	25320.6	25401.7	25801.6	26023.2	26071.9	25996.2	25958.4	25882.7	25747.6
22818.3	20°	23007.4	23493.9	24207.3	24893.7	25028.8	25007.1	24872.0	24839.6	24763.9
20624.0	22.5°	20975.3	21337.4	22164.3	23234.4	23785.7	23839.8	23677.6	23629.0	23547.9
18662.1	25°	18872.9	19262.0	20007.9	21169.9	22310.2	22542.6	22515.6	22369.7	22283.2
16921.8	27.5°	17100.2	17489.3	18164.9	19213.4	20434.8	21180.7	21250.9	21018.5	21013.1
15370.7	30°	15500.4	16035.5	16548.9	17402.9	18586.5	19705.2	19824.1	19662.0	19678.2
13949.3	32.5°	14246.6	14689.7	15127.5	15700.4	16684.0	17986.6	18451.4	18300.0	18240.6
12765.7	35°	12965.7	13268.3	13716.9	14241.2	14911.3	16203.0	17008.3	16894.8	16835.4
11165.9	37.5°	11506.4	12025.3	12349.5	12938.6	13462.9	14489.8	15624.7	15608.5	15484.2
9804.0	40°	10009.3	10555.2	11047.0	11641.5	12046.9	12863.0	14122.3	14116.9	14133.1
8393.4	42.5°	8652.8	9155.4	9749.9	10398.5	10787.6	11382.1	12733.3	12808.9	12900.8
7231.4	45°	7425.9	7879.9	8431.2	9220.3	9690.5	10031.0	11230.8	11576.7	11571.3
6193.7	47.5°	6323.4	6750.4	7215.2	7982.6	8582.5	8890.6	9885.0	10376.9	10344.4
5080.3	50°	5307.3	5685.7	6172.1	6728.7	7534.0	7804.3	8544.7	9193.2	9144.6
4048.1	52.5°	4269.6	4793.9	5204.6	5712.7	6561.2	6826.0	7398.9	8031.3	7993.4
3037.4	55°	3329.2	3837.3	4334.5	4772.3	5485.7	5880.2	6291.0	6939.5	6928.7
2378.0	57.5°	2518.6	3075.2	3545.4	3961.6	4529.1	5015.5	5345.2	5934.3	6009.9
1626.8	60°	1864.6	2291.6	2799.6	3264.4	3713.0	4215.6	4437.2	5015.5	5047.9
1113.4	62.5°	1270.1	1740.3	2237.5	2659.1	2994.2	3513.0	3713.0	4188.6	4248.0
713.4	65°	881.0	1183.6	1751.1	2053.8	2464.5	2907.7	3107.7	3486.0	3604.9
410.8	67.5°	583.7	843.1	1367.4	1643.0	2048.3	2351.0	2605.0	2913.1	3042.8
259.4	70°	318.9	621.5	978.2	1297.1	1648.4	1940.3	2188.9	2437.5	2551.0
118.9	72.5°	216.2	416.2	681.0	1026.9	1329.5	1616.0	1837.6	2021.3	2026.7
70.3	75°	108.1	281.0	518.8	794.5	1037.7	1318.7	1518.7	1626.8	1497.1
43.2	77.5°	64.9	205.4	421.6	637.7	843.1	1064.7	1178.2	1237.7	1026.9
32.4	80°	37.8	145.9	329.7	508.0	583.7	783.7	891.8	908.0	686.4
21.6	82.5°	27.0	108.1	259.4	372.9	356.7	551.3	670.2	648.6	437.8
16.2	85°	16.2	75.7	162.1	232.4	216.2	362.1	389.1	399.9	254.0
10.8	87.5°	10.8	43.2	86.5	124.3	102.7	156.7	156.7	189.2	124.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
29206.5
28482.3
28601.2
28255.3
27779.7
27196.0
26509.6
25688.1
24591.0
23526.3
22191.3
21002.3
19597.1
18246.0
16754.3
15586.9
14133.1
12852.2
11582.1
10355.2
9187.8
8074.5
6955.7
5977.5
5096.6
4258.8
3577.9
3026.6
2507.7
1978.1
1399.8
989.0
643.1
405.3
232.4
108.1
0.0

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