

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: P637847

Luminaire Tested: **IFLD-S-SA3D-730-U-66-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637847  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3D-730-U-66-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor  
Light Source: (48) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17895.8 lumens  
Efficiency: N/A  
Efficacy: 97.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G1

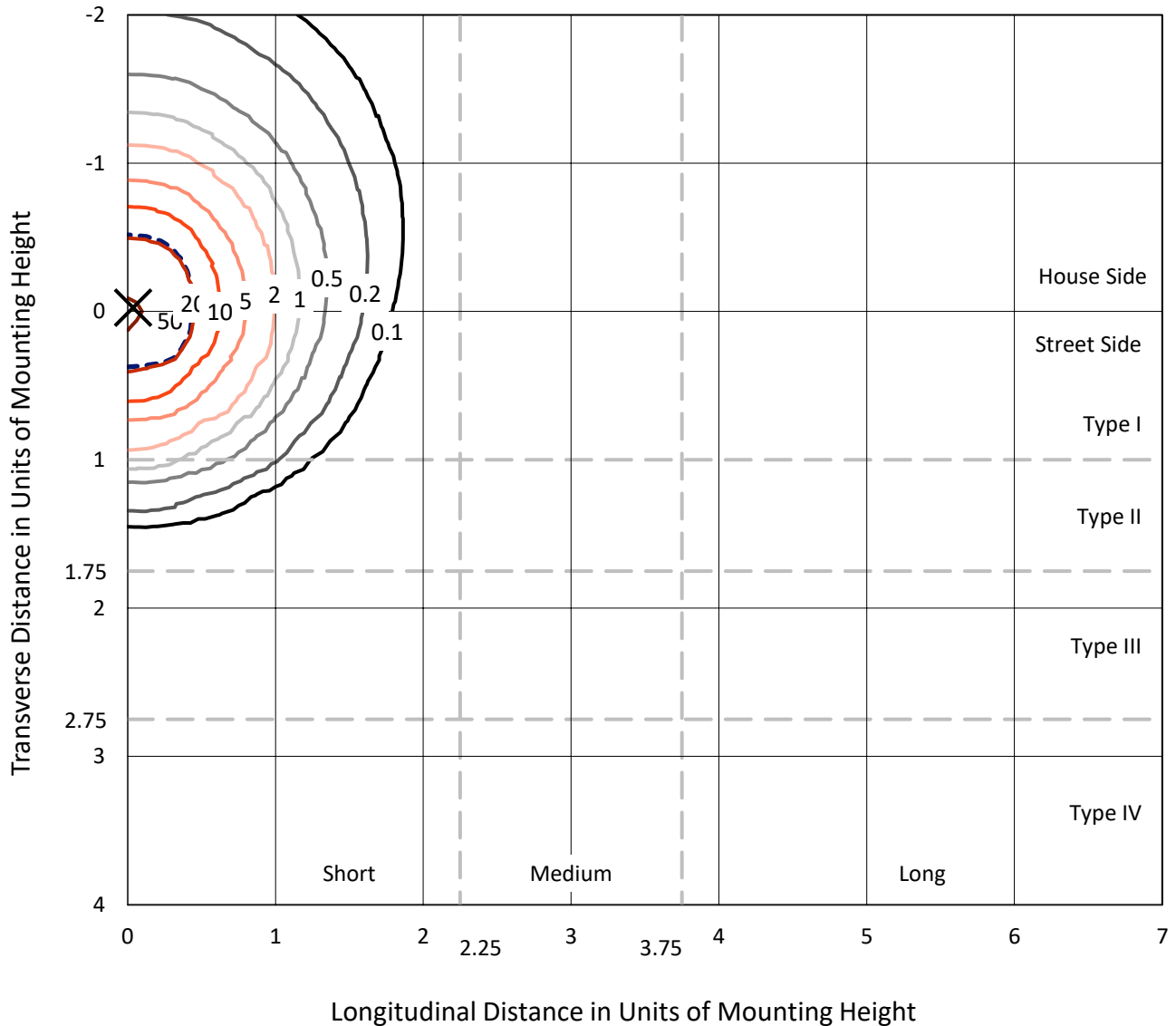
Input Watts (W): 184.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

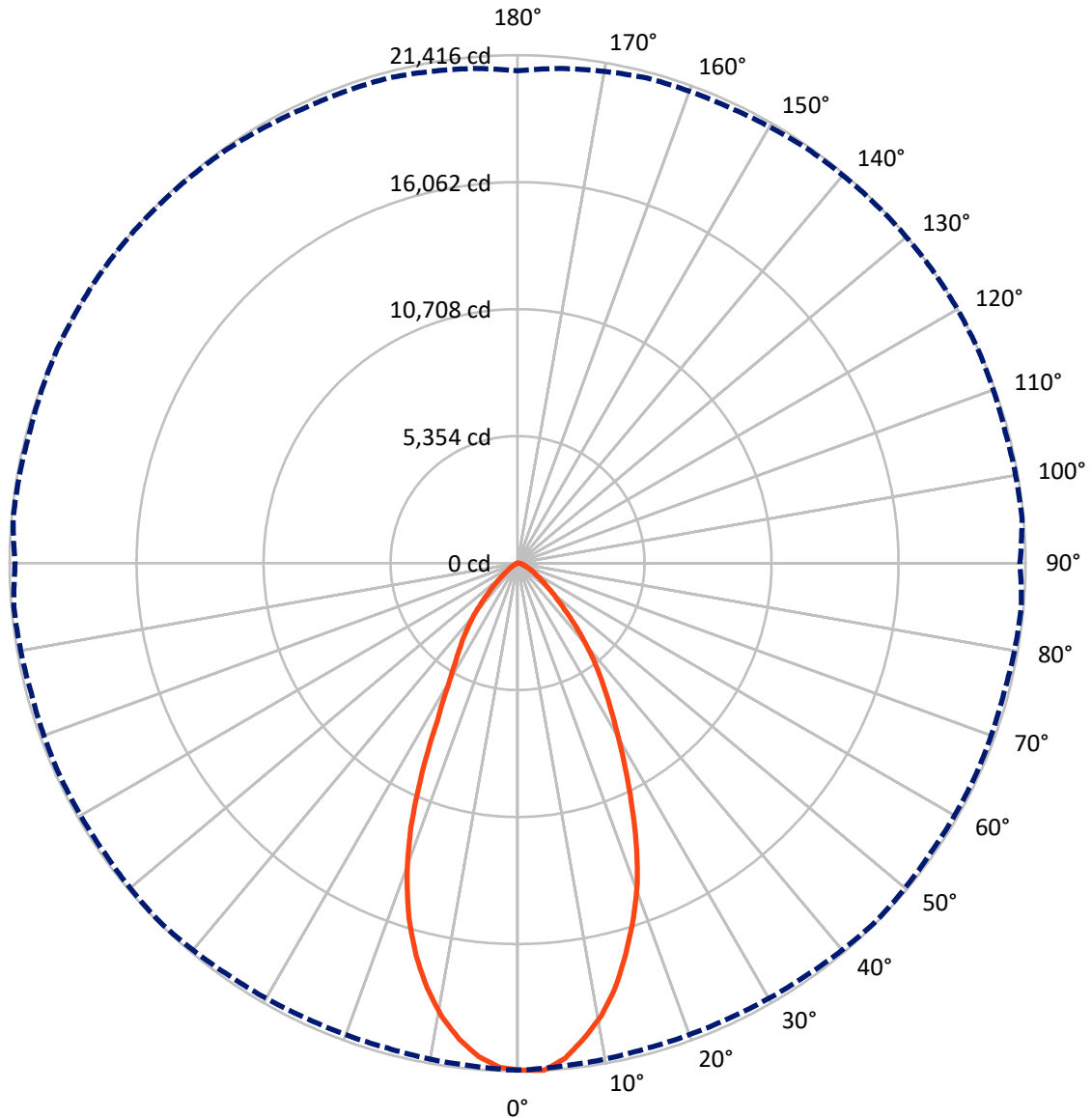
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 53.5 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 125-Deg Lateral    - - - Horizontal Cone Through 2.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10154.8	0.0	10154.8
	% Fixture	56.7	0.0	56.7
<b>Street Side</b>	Lumens	7741.0	0.0	7741.0
	% Fixture	43.3	0.0	43.3
<b>Total</b>	Lumens	17895.8	0.0	17895.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1941.5	10.8
10°-20°	4628.1	25.9
20°-30°	4713.6	26.3
30°-40°	3514.9	19.6
40°-50°	1836.3	10.3
50°-60°	772.4	4.3
60°-70°	315.4	1.8
70°-80°	132.7	0.7
80°-90°	40.9	0.2
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°	17895.8	100.0
0°-180°	17895.8	100.0



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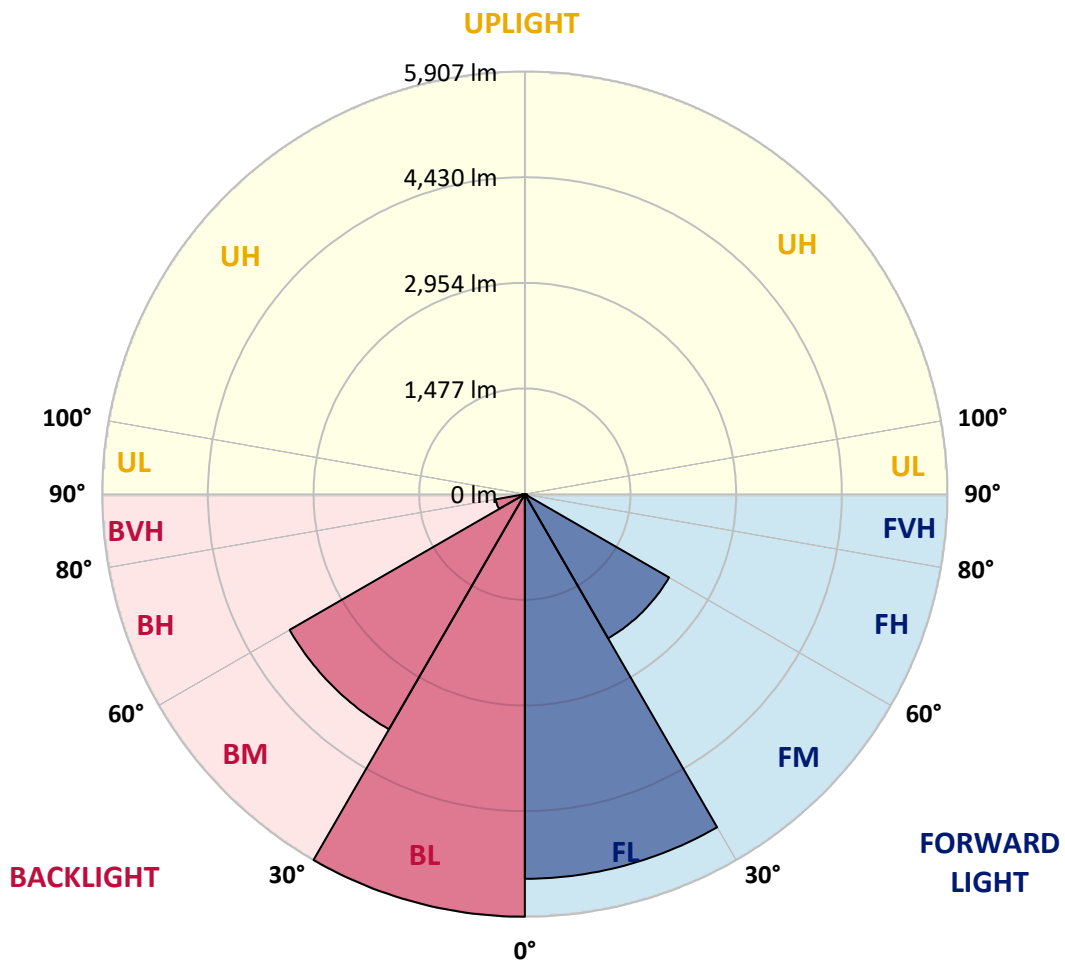
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5376.1	30.0			
FM	(30°-60°)	2327.4	13.0			
FH	(60°-80°)	33.7	0.2			G0/660
FVH	(80°-90°)	3.8	0.0			G0/10
BL	(0°-30°)	5907.0	33.0	B5		
BM	(30°-60°)	3796.1	21.2	B3/5000		
BH	(60°-80°)	414.5	2.3	B1/500		G1/500
BVH	(80°-90°)	37.1	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G1**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	21381.1	21381.1	21381.1	21381.1	21381.1	21381.1	21381.1	21381.1	21381.1	21381.1
2.5°	21383.4	21296.1	21172.0	21160.5	21224.8	21365.1	21275.4	21280.0	21224.8	21319.1
5°	21047.8	20965.1	20880.0	20767.4	20861.6	20921.4	20875.4	20824.8	20753.6	20845.5
7.5°	20413.4	20367.4	20240.9	20190.4	20247.8	20314.5	20215.7	20201.9	20103.0	20222.6
10°	19443.3	19424.9	19300.7	19270.8	19321.4	19422.6	19378.9	19369.7	19307.6	19296.1
12.5°	18436.4	18365.1	18211.1	18201.9	18277.8	18429.5	18312.2	18199.6	18234.1	18264.0
15°	15843.3	15767.5	16149.1	16749.1	17064.0	17052.5	17087.0	16951.4	16910.0	16923.8
17.5°	12595.1	12466.4	12604.3	13533.0	15029.6	15898.5	15659.4	15367.5	15211.2	15107.7
20°	10871.0	10877.9	10852.6	11091.7	12025.0	14006.6	13949.1	13385.9	13181.3	13096.3
22.5°	9822.8	9783.7	9728.5	9804.4	10055.0	11218.1	11997.4	11480.2	11408.9	11314.7
25°	8795.2	8795.2	8728.5	8804.4	8875.7	8891.8	9673.4	9884.8	9746.9	9746.9
27.5°	7905.6	7859.6	7829.7	7864.2	7769.9	7317.1	7415.9	8498.7	8404.4	8346.9
30°	7022.8	7009.0	6958.5	7004.4	6655.0	6144.7	5937.8	7172.3	7271.1	7250.4
32.5°	5797.6	5852.7	6078.0	6149.3	5551.6	5140.1	4942.4	5953.9	6349.3	6333.2
35°	3940.1	3986.1	4243.6	5094.1	4602.2	4308.0	4250.5	4735.5	5386.1	5448.2
37.5°	3137.9	3131.0	3204.5	3356.2	3698.8	3627.5	3611.4	3737.9	4393.0	4420.6
40°	2586.2	2577.0	2574.7	2450.5	2365.5	3016.0	2972.3	2896.5	3464.3	3519.5
42.5°	2085.0	2094.2	2101.1	1829.8	1705.7	2326.4	2301.1	2222.9	2717.2	2781.5
45°	1636.7	1634.4	1648.2	1363.2	1328.7	1487.3	1719.5	1657.4	2050.5	2119.5
47.5°	848.3	878.1	1064.3	1055.1	1071.2	1055.1	1301.1	1285.0	1542.5	1652.8
50°	570.1	579.3	595.4	597.7	843.7	777.0	882.7	1000.0	1080.4	1250.5
52.5°	441.4	448.3	406.9	381.6	517.2	574.7	579.3	691.9	754.0	926.4
55°	246.0	275.9	296.5	298.8	285.1	425.3	423.0	512.6	560.9	675.8
57.5°	32.2	39.1	59.8	193.1	190.8	236.8	296.5	372.4	400.0	494.2
60°	2.3	4.6	6.9	29.9	126.4	137.9	202.3	232.2	278.2	347.1
62.5°	0.0	0.0	2.3	6.9	25.3	80.5	105.7	121.8	163.2	227.6
65°	0.0	0.0	2.3	4.6	9.2	29.9	41.4	66.7	96.5	140.2
67.5°	0.0	0.0	2.3	4.6	6.9	11.5	18.4	29.9	50.6	85.1
70°	0.0	0.0	2.3	4.6	6.9	9.2	13.8	18.4	27.6	46.0
72.5°	0.0	0.0	2.3	2.3	4.6	11.5	11.5	13.8	18.4	25.3
75°	0.0	0.0	2.3	4.6	6.9	11.5	11.5	11.5	13.8	16.1
77.5°	0.0	0.0	2.3	4.6	6.9	11.5	9.2	11.5	11.5	11.5
80°	0.0	0.0	2.3	4.6	6.9	11.5	13.8	11.5	9.2	9.2
82.5°	0.0	0.0	2.3	6.9	6.9	16.1	16.1	16.1	6.9	6.9
85°	0.0	0.0	4.6	6.9	11.5	18.4	18.4	13.8	6.9	4.6
87.5°	0.0	0.0	2.3	4.6	4.6	9.2	13.8	11.5	4.6	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°
21381.1	0°	21381.1	21381.1	21381.1	21381.1	21381.1	21381.1	21381.1	21381.1	21381.1
21181.2	2.5°	21351.3	21293.8	21401.8	21415.6	21369.7	21312.2	21178.9	21167.4	20935.2
20712.2	5°	20946.7	20852.4	20921.4	20967.4	20951.3	20889.2	20834.0	20783.5	20574.3
19951.3	7.5°	20192.7	20158.2	20190.4	20224.9	20291.5	20224.9	20201.9	20149.0	19942.1
19201.9	10°	19355.9	19291.5	19413.4	19397.3	19378.9	19360.5	19264.0	19273.1	19029.5
18181.2	12.5°	18328.3	18220.3	18337.5	18351.3	18337.5	18273.2	18165.1	18211.1	17988.1
16801.9	15°	16946.8	16935.3	17020.3	17075.5	17114.6	17045.6	17008.8	17031.8	16898.5
15027.3	17.5°	15250.2	15399.7	15677.8	15772.1	15774.4	15845.6	15824.9	15797.4	15698.5
13061.8	20°	13254.9	13542.2	13969.8	14408.9	14535.3	14475.6	14448.0	14498.5	14351.4
11215.9	22.5°	11413.5	11659.5	12156.1	12797.4	13167.5	13204.3	13197.4	13153.7	13096.3
9737.7	25°	9850.4	10068.7	10544.6	11130.8	11841.1	11946.9	11951.5	11937.7	11887.1
8397.5	27.5°	8530.9	8795.2	9057.3	9581.4	10337.7	10774.5	10719.3	10703.2	10684.8
7266.5	30°	7335.5	7668.8	7914.8	8241.2	8919.3	9510.1	9567.6	9540.0	9496.3
6330.9	32.5°	6388.4	6586.1	6898.7	7119.4	7606.7	8275.7	8496.4	8475.7	8436.6
5487.2	35°	5565.4	5643.6	5889.5	6135.5	6459.6	7107.9	7434.3	7388.3	7381.5
4471.2	37.5°	4583.8	4845.9	4981.5	5229.8	5457.4	5960.8	6411.4	6390.7	6393.0
3595.3	40°	3701.1	3852.8	4121.8	4330.9	4540.1	4907.9	5409.1	5422.9	5418.3
2783.8	42.5°	2841.3	2988.4	3271.2	3498.8	3685.0	3912.6	4390.7	4406.8	4427.5
2167.8	45°	2218.3	2312.6	2519.5	2756.3	2954.0	3091.9	3455.1	3558.5	3560.8
1680.4	47.5°	1721.8	1829.8	1977.0	2204.6	2397.6	2496.5	2760.9	2901.1	2894.2
1289.6	50°	1351.7	1450.5	1570.1	1749.4	1958.6	2036.7	2232.1	2370.1	2363.2
972.4	52.5°	1034.5	1160.9	1266.6	1404.6	1609.2	1675.8	1816.1	1974.7	1951.7
712.6	55°	783.9	912.6	1011.5	1126.4	1312.6	1397.7	1494.2	1620.7	1625.3
551.7	57.5°	590.8	724.1	813.8	931.0	1071.2	1165.5	1239.1	1374.7	1372.4
377.0	60°	423.0	537.9	646.0	767.8	875.8	983.9	1034.5	1163.2	1167.8
266.7	62.5°	305.7	413.8	517.2	623.0	719.5	825.3	871.2	972.4	986.2
174.7	65°	213.8	289.6	409.2	489.6	597.7	675.8	735.6	823.0	839.1
103.4	67.5°	137.9	209.2	324.1	395.4	494.2	560.9	623.0	691.9	712.6
66.7	70°	82.8	158.6	241.4	317.2	406.9	466.7	526.4	586.2	597.7
32.2	72.5°	52.9	110.3	174.7	257.5	326.4	390.8	443.7	487.3	452.9
20.7	75°	29.9	75.9	137.9	202.3	264.4	326.4	370.1	393.1	314.9
13.8	77.5°	18.4	55.2	112.6	163.2	204.6	262.1	289.6	303.4	225.3
9.2	80°	11.5	41.4	94.3	133.3	133.3	193.1	225.3	236.8	163.2
6.9	82.5°	9.2	29.9	73.6	101.1	89.7	144.8	177.0	179.3	114.9
4.6	85°	6.9	23.0	46.0	66.7	62.1	101.1	103.4	114.9	75.9
4.6	87.5°	4.6	13.8	27.6	39.1	34.5	48.3	55.2	62.1	41.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
21381.1
20753.6
20406.5
19898.4
18946.7
17923.8
16737.6
15551.4
14245.7
12985.9
11717.0
10576.8
9441.2
8333.2
7305.6
6319.4
5337.8
4358.5
3501.1
2868.9
2363.2
1954.0
1625.3
1367.8
1156.3
981.6
834.5
710.3
588.5
420.7
298.8
211.5
151.7
105.7
69.0
36.8
0.0

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