

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: P637325

Luminaire Tested: **IFLD-S-SA3D-730-U-44-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637325  
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-44-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor  
Light Source: (48) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20469.6 lumens  
Efficiency: N/A  
Efficacy: 111.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

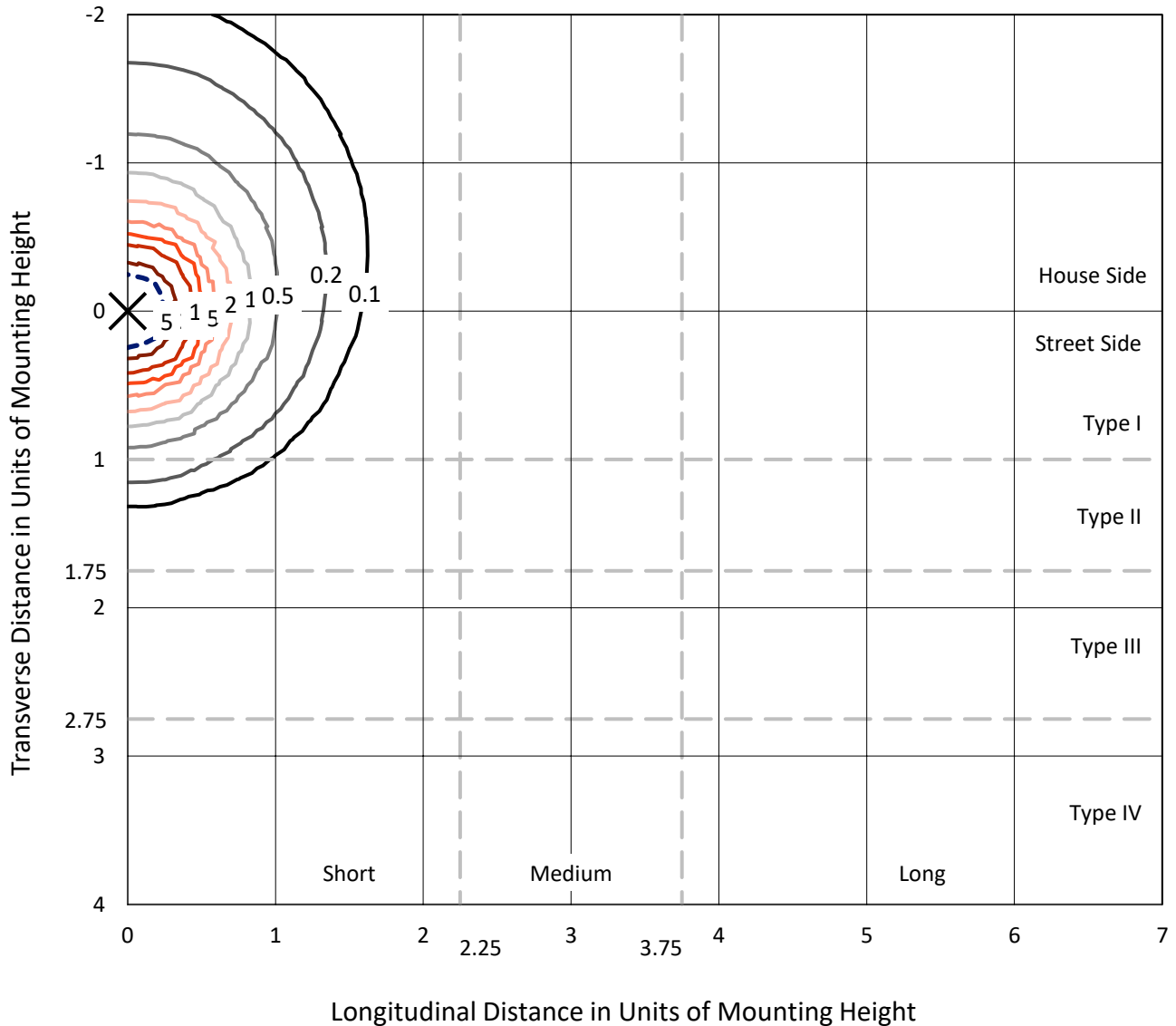
Input Watts (W): 184.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

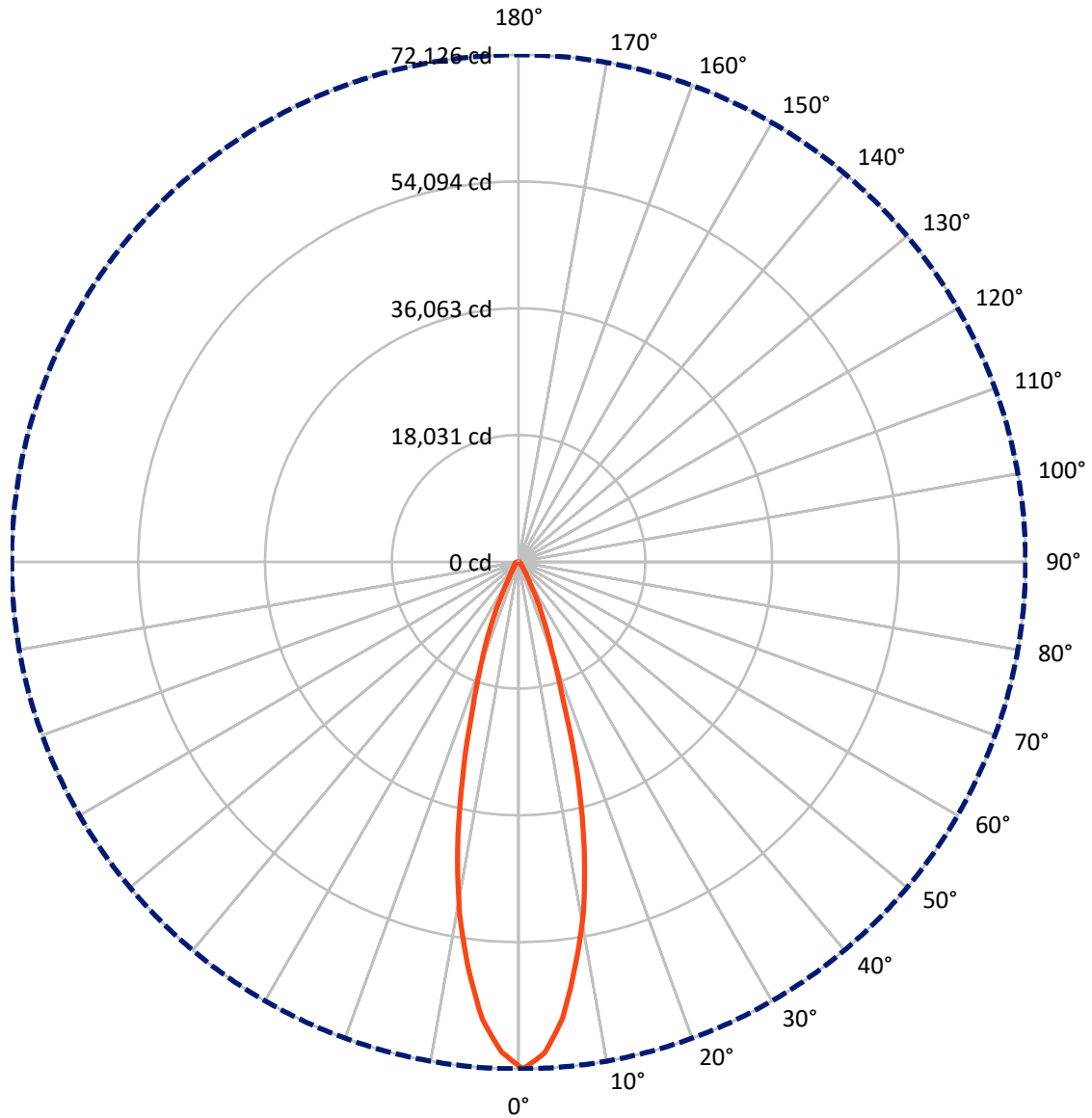
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 180.3 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral      - - - Horizontal Cone Through 0-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10792.9	0.0	10792.9
	% Fixture	52.7	0.0	52.7
<b>Street Side</b>	Lumens	9676.6	0.0	9676.6
	% Fixture	47.3	0.0	47.3
<b>Total</b>	Lumens	20469.6	0.0	20469.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	5821.2	28.4
10°-20°	8816.2	43.1
20°-30°	3720.5	18.2
30°-40°	970.3	4.7
40°-50°	490.8	2.4
50°-60°	320.8	1.6
60°-70°	192.2	0.9
70°-80°	101.1	0.5
80°-90°	36.5	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°	20469.6	100.0
0°-180°	20469.6	100.0

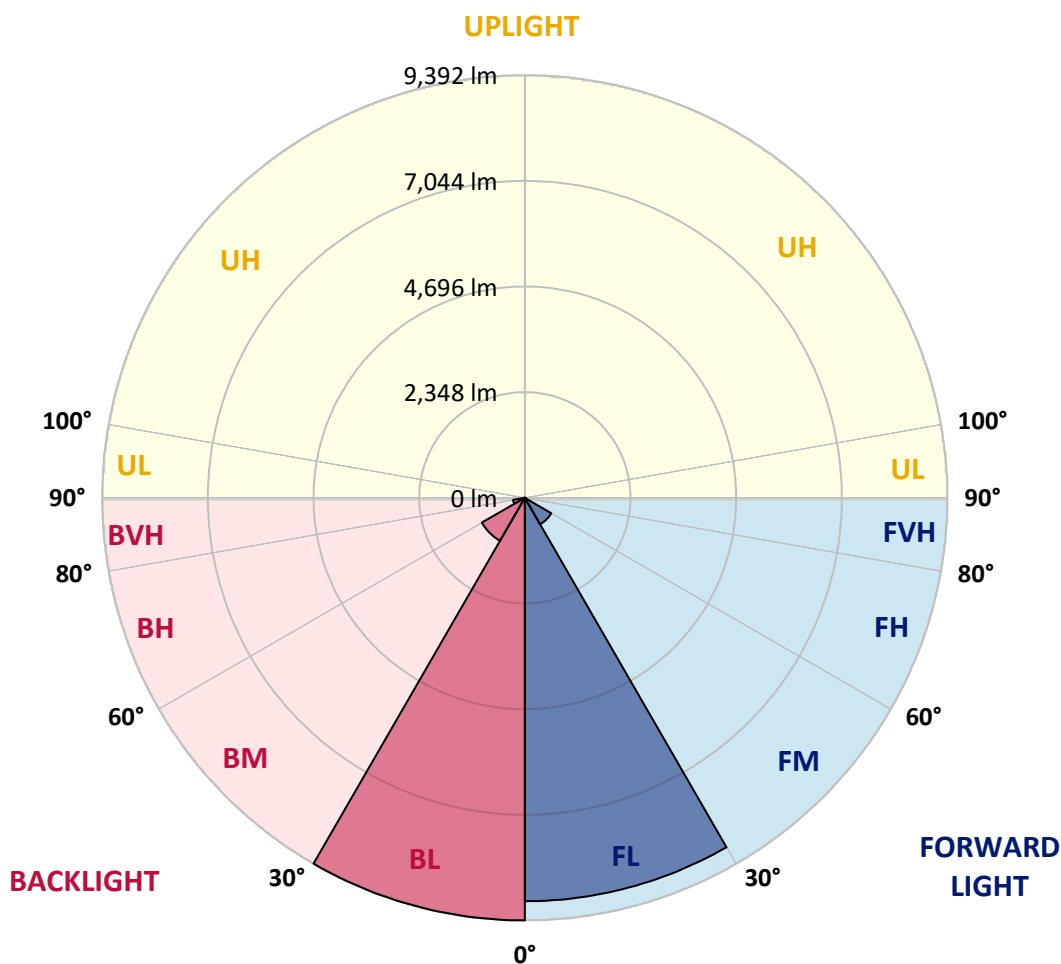


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	8965.5	43.8			
FM (30°-60°)	679.0	3.3			
FH (60°-80°)	27.7	0.1			G0/660
FVH (80°-90°)	4.4	0.0			G0/10
BL (0°-30°)	9392.3	45.9	B5		
BM (30°-60°)	1102.9	5.4	B2/2500		
BH (60°-80°)	265.6	1.3	B1/500		G0/660
BVH (80°-90°)	32.1	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 V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	72125.9	72125.9	72125.9	72125.9	72125.9	72125.9	72125.9	72125.9	72125.9	72125.9
2.5°	70024.9	70063.9	69919.1	70231.7	69988.1	70640.9	70316.8	70822.5	70652.4	70935.2
5°	65243.4	65179.1	65137.7	65622.7	65482.5	66183.6	65735.4	65588.2	66043.4	65960.6
7.5°	58023.0	58193.1	58096.6	58223.0	58294.3	59094.2	59347.1	59149.4	59156.3	59271.3
10°	50621.0	50370.4	50014.1	50250.9	50752.0	51101.5	50961.2	51250.9	51186.5	51460.1
12.5°	41513.3	41711.0	41511.0	41299.5	42175.4	42078.8	42322.5	42481.1	42083.4	42968.4
15°	31270.0	31373.5	31617.2	31601.1	32274.6	32410.2	32378.0	32545.9	32235.5	32382.6
17.5°	20088.9	20438.3	21093.4	22201.4	23447.4	23592.2	23555.4	23417.5	23268.1	23102.5
20°	13493.7	13456.9	13693.7	14017.8	16597.1	17279.8	17259.1	16826.9	16201.7	16082.1
22.5°	9452.5	9521.5	9489.3	9811.1	10344.4	12227.1	11994.9	11555.9	11351.3	11218.0
25°	6218.1	6192.9	6353.8	6450.3	6907.8	7137.7	7951.4	7788.2	7473.3	7507.8
27.5°	3790.7	3822.8	3882.6	3965.4	4289.5	4215.9	4680.3	4742.3	4641.2	4533.2
30°	2326.3	2349.3	2397.6	2457.4	2570.0	2489.6	2618.3	2841.3	2804.5	2728.6
32.5°	1579.2	1581.5	1616.0	1639.0	1625.2	1549.4	1590.7	1802.2	1806.8	1799.9
35°	1135.6	1135.6	1167.8	1186.2	1147.1	1085.0	1091.9	1222.9	1280.4	1291.9
37.5°	783.9	786.2	841.3	896.5	852.8	836.7	809.2	896.5	988.5	1002.3
40°	595.4	593.1	620.7	662.0	666.6	636.8	646.0	701.1	795.4	806.9
42.5°	482.7	485.0	498.8	494.2	496.5	535.6	549.4	574.7	662.0	682.7
45°	406.9	409.2	416.1	393.1	383.9	443.7	462.1	475.8	549.4	574.7
47.5°	335.6	340.2	347.1	321.8	317.2	356.3	388.5	402.3	466.6	494.2
50°	241.4	246.0	271.3	257.5	271.3	280.4	324.1	344.8	388.5	425.3
52.5°	174.7	179.3	186.2	188.5	223.0	227.6	259.8	291.9	312.6	354.0
55°	137.9	142.5	137.9	133.3	163.2	188.5	200.0	234.5	250.6	298.8
57.5°	78.2	82.8	89.7	103.4	108.0	144.8	156.3	186.2	200.0	246.0
60°	13.8	16.1	25.3	62.1	75.9	92.0	117.2	142.5	160.9	193.1
62.5°	2.3	2.3	4.6	13.8	43.7	64.4	85.1	101.1	117.2	147.1
65°	0.0	0.0	2.3	4.6	11.5	36.8	46.0	59.8	80.5	105.7
67.5°	0.0	0.0	2.3	4.6	6.9	13.8	20.7	36.8	46.0	71.3
70°	0.0	0.0	2.3	4.6	6.9	9.2	11.5	16.1	27.6	43.7
72.5°	0.0	0.0	2.3	4.6	6.9	9.2	11.5	13.8	13.8	27.6
75°	0.0	0.0	2.3	4.6	6.9	11.5	13.8	13.8	11.5	11.5
77.5°	0.0	0.0	2.3	4.6	9.2	13.8	16.1	13.8	9.2	9.2
80°	0.0	0.0	4.6	6.9	11.5	16.1	20.7	16.1	9.2	4.6
82.5°	0.0	0.0	4.6	9.2	11.5	18.4	25.3	20.7	9.2	4.6
85°	0.0	0.0	2.3	6.9	13.8	18.4	25.3	18.4	9.2	2.3
87.5°	0.0	0.0	2.3	2.3	4.6	6.9	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



REPORT NUMBER: P637325

CATALOG NUMBER: IFLD-S-SA3D-730-U-44-VI

**CANDELA DISTRIBUTION (continued):**

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
72125.9	0°	72125.9	72125.9	72125.9	72125.9	72125.9	72125.9	72125.9	72125.9	72125.9
70399.6	2.5°	70804.1	71171.9	71247.8	71146.7	71293.8	71029.4	70827.1	70303.0	69988.1
65935.4	5°	66360.6	66305.5	66689.4	66815.8	66799.7	66597.4	66314.7	65997.4	65689.4
59048.3	7.5°	59416.1	59487.3	59836.7	60059.7	59947.1	59694.2	59498.8	59259.8	59052.9
51558.9	10°	52030.2	51540.5	51975.0	51975.0	52276.1	51561.2	51627.9	51025.6	51053.2
42952.3	12.5°	43099.5	43276.5	43347.7	43552.3	43200.6	42821.3	42357.0	42265.0	41977.7
32102.2	15°	32564.2	33070.0	32635.5	33378.0	33019.4	32624.0	32552.8	31840.1	32065.4
23284.1	17.5°	23169.2	23727.8	23902.5	24327.8	24001.4	23766.9	23470.3	23254.3	23238.2
16300.5	20°	16429.2	16990.1	17118.9	17629.2	17592.4	17518.9	17268.3	16994.7	16698.2
11096.1	22.5°	11263.9	11721.4	12149.0	12836.3	12824.8	12608.7	12583.4	12197.2	12204.1
7496.3	25°	7574.4	7907.7	8008.9	8712.3	8790.5	8767.5	8636.4	8277.8	8413.5
4579.1	27.5°	4583.7	4875.7	5218.2	5466.5	5700.9	5664.1	5533.1	5333.1	5245.8
2751.6	30°	2825.2	2956.2	3082.6	3381.5	3521.7	3595.3	3533.2	3347.0	3360.8
1811.4	32.5°	1850.5	1960.8	2052.8	2241.3	2314.9	2450.5	2425.2	2386.1	2340.1
1303.4	35°	1349.4	1429.8	1491.9	1579.2	1673.5	1788.4	1806.8	1790.7	1772.3
1006.9	37.5°	1029.8	1112.6	1183.9	1220.6	1294.2	1383.9	1434.4	1432.1	1418.3
820.7	40°	836.7	898.8	963.2	1011.5	1062.0	1128.7	1190.8	1197.7	1197.7
689.6	42.5°	698.8	751.7	816.1	866.6	903.4	965.5	1029.8	1034.4	1029.8
583.9	45°	597.7	643.7	705.7	765.5	795.4	841.3	903.4	917.2	908.0
501.1	47.5°	519.5	560.9	613.8	678.1	710.3	751.7	809.2	825.3	823.0
432.2	50°	446.0	494.2	547.1	600.0	641.4	680.4	735.6	754.0	747.1
367.8	52.5°	393.1	436.8	482.7	540.2	588.5	623.0	666.6	698.8	689.6
310.3	55°	328.7	381.6	429.9	478.1	537.9	574.7	616.1	655.1	646.0
262.1	57.5°	285.0	328.7	383.9	427.6	487.3	531.0	572.4	613.8	611.5
213.8	60°	239.1	285.0	337.9	383.9	439.1	487.3	528.7	574.7	579.3
160.9	62.5°	188.5	243.7	289.6	342.5	397.7	450.6	487.3	533.3	540.2
121.8	65°	142.5	200.0	250.6	301.1	356.3	413.8	446.0	485.0	491.9
89.7	67.5°	105.7	154.0	213.8	259.8	317.2	372.4	402.3	434.5	446.0
55.2	70°	80.5	117.2	179.3	223.0	282.7	326.4	358.6	386.2	395.4
36.8	72.5°	50.6	92.0	144.8	190.8	243.7	282.7	305.7	321.8	335.6
20.7	75°	34.5	71.3	117.2	163.2	202.3	232.2	252.9	266.7	278.2
9.2	77.5°	20.7	55.2	96.5	135.6	160.9	183.9	204.6	213.8	220.7
6.9	80°	11.5	41.4	80.5	110.3	126.4	142.5	158.6	170.1	174.7
4.6	82.5°	6.9	32.2	64.4	85.1	92.0	108.0	124.1	131.0	131.0
2.3	85°	4.6	23.0	43.7	62.1	66.7	78.2	82.8	87.4	92.0
2.3	87.5°	4.6	13.8	27.6	34.5	36.8	41.4	43.7	48.3	52.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
<u>72125.9</u>
69755.9
65344.6
58351.7
50784.2
41715.6
31840.1
22810.6
16569.5
12070.8
8199.7
5169.9
3301.0
2324.0
1765.4
1411.4
1183.9
1025.2
908.0
818.4
742.5
687.3
650.5
613.8
581.6
544.8
498.8
450.6
400.0
333.3
275.9
218.4
170.1
128.7
89.7
50.6
0.0

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