

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: P637261

Luminaire Tested: **IFLD-S-SA2C-722-U-44-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637261  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2C-722-U-44-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor  
Light Source: (32) 2200K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10097.7 lumens  
Efficiency: N/A  
Efficacy: 93.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G1

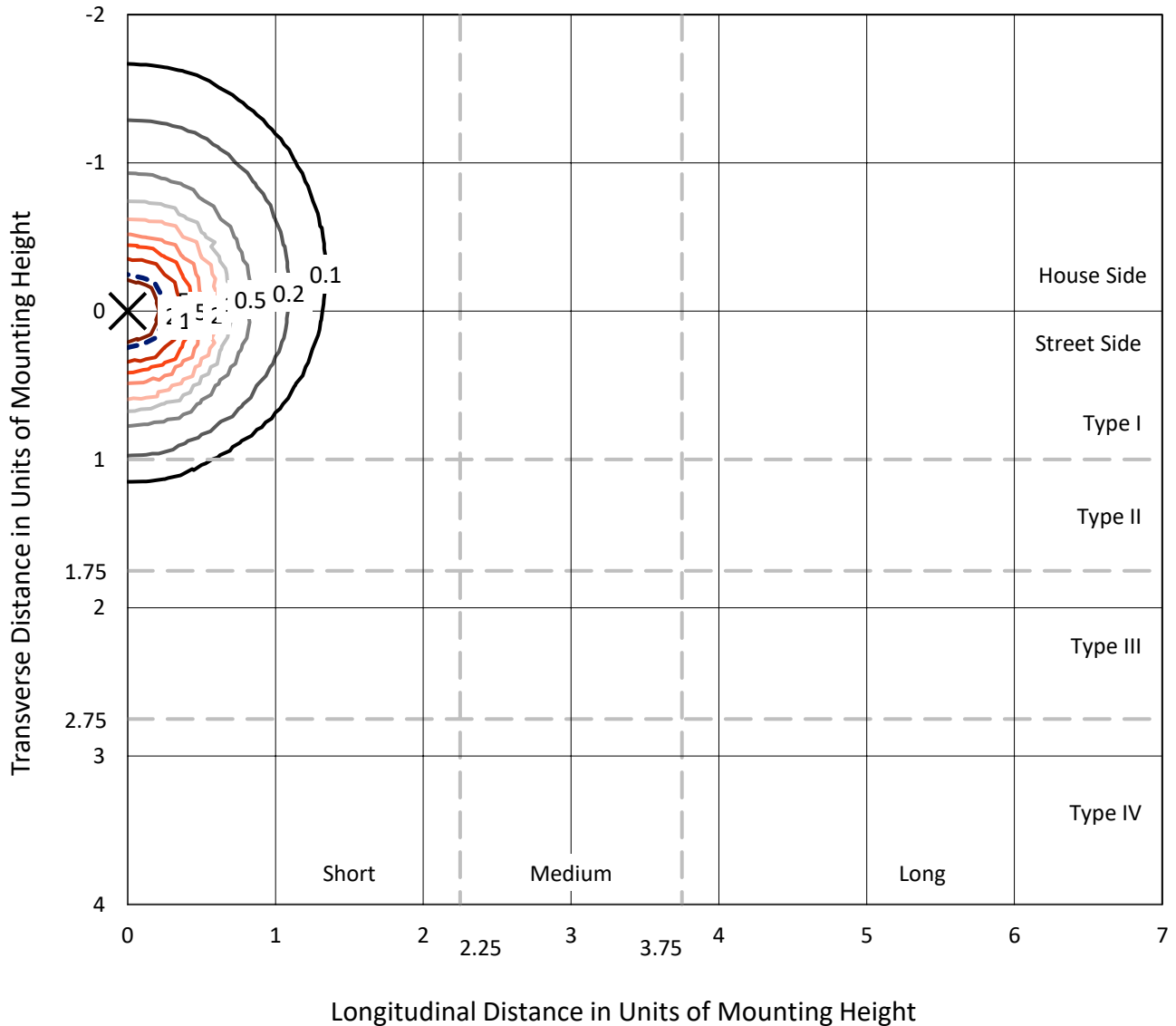
Input Watts (W): 108.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

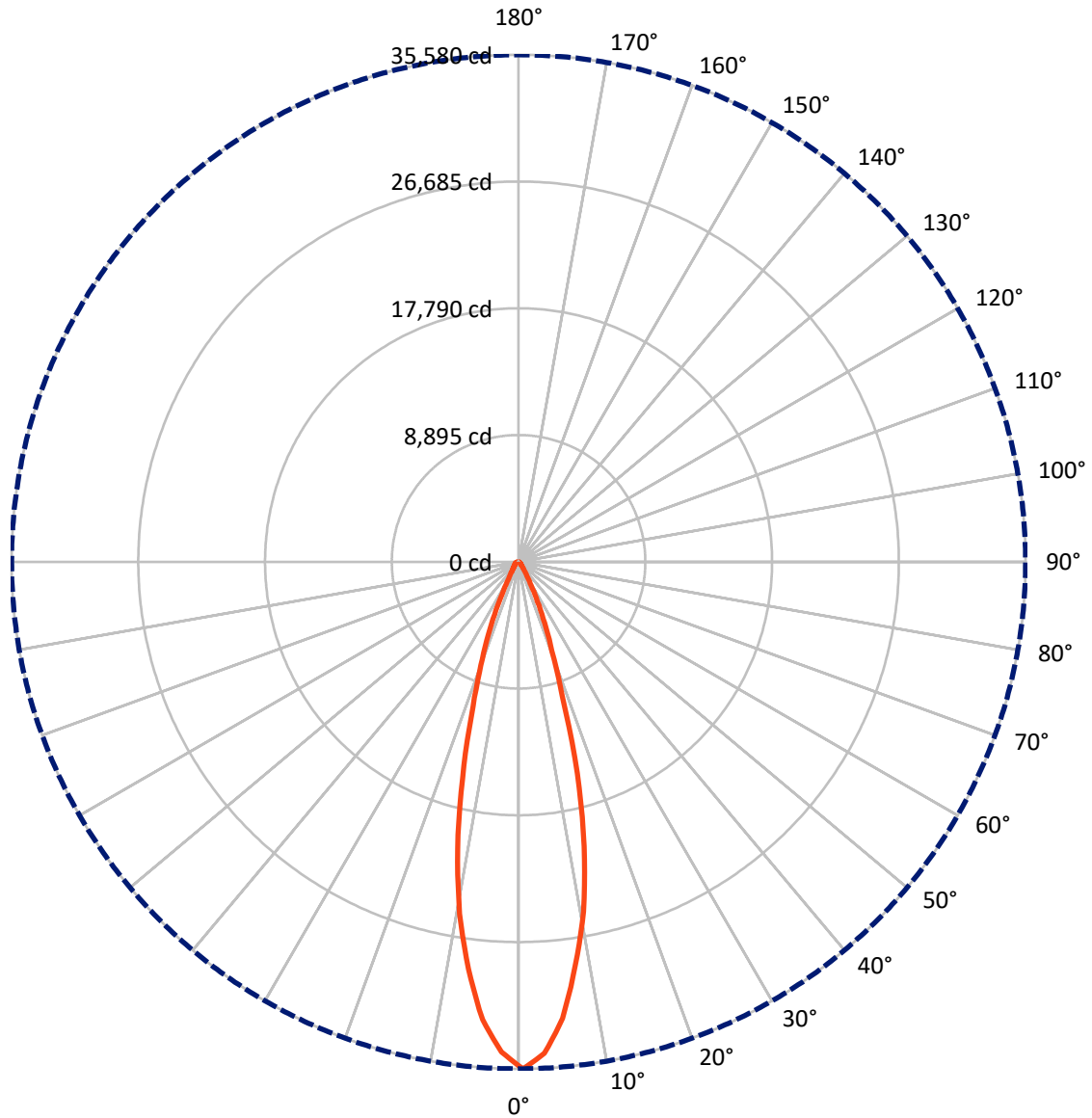
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 89 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	5324.2	0.0	5324.2
	% Fixture	52.7	0.0	52.7
<b>Street Side</b>	Lumens	4773.5	0.0	4773.5
	% Fixture	47.3	0.0	47.3
<b>Total</b>	Lumens	10097.7	0.0	10097.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2871.6	28.4
10°-20°	4349.1	43.1
20°-30°	1835.3	18.2
30°-40°	478.7	4.7
40°-50°	242.1	2.4
50°-60°	158.3	1.6
60°-70°	94.8	0.9
70°-80°	49.9	0.5
80°-90°	18.0	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°	10097.7	100.0
0°-180°	10097.7	100.0

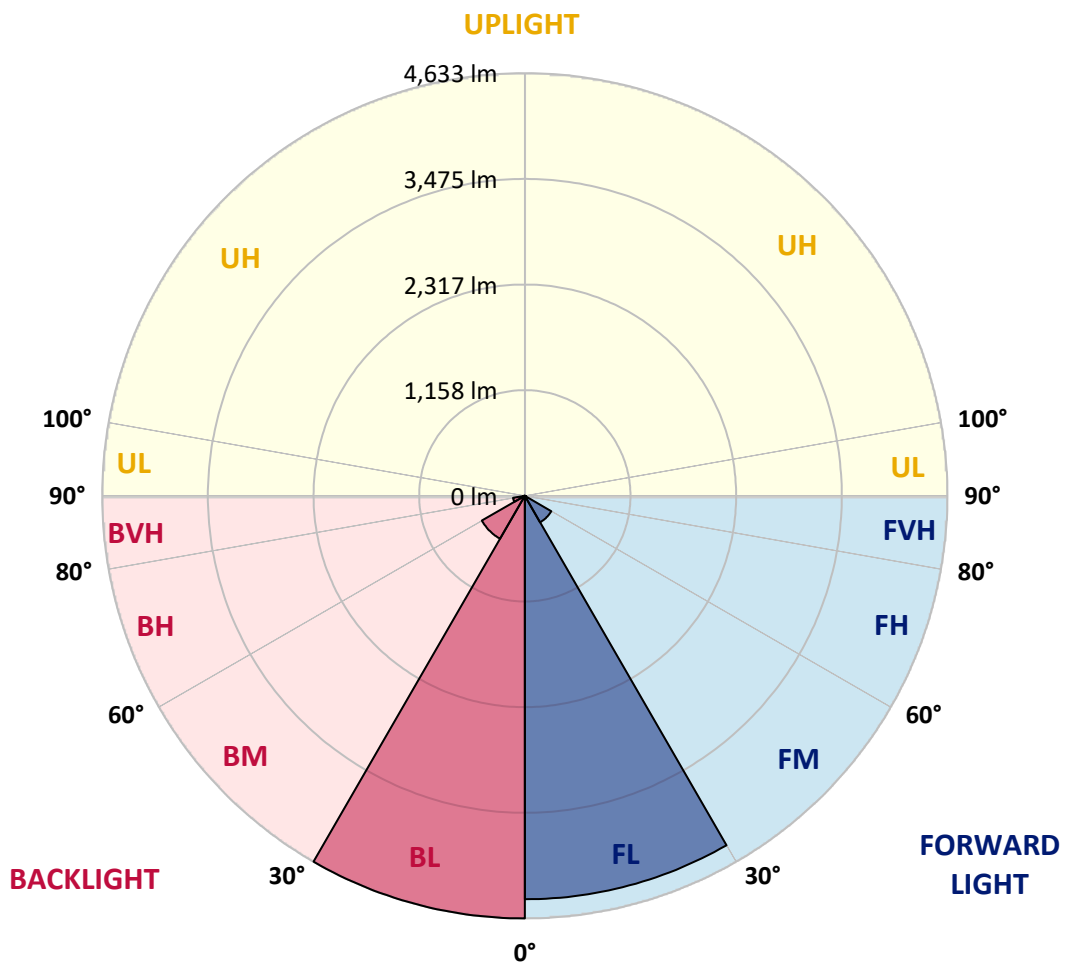


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4422.7	43.8			
FM (30°-60°)	334.9	3.3			
FH (60°-80°)	13.6	0.1			G0/660
FVH (80°-90°)	2.2	0.0			G0/10
BL (0°-30°)	4633.3	45.9	B4/5000		
BM (30°-60°)	544.1	5.4	B1/1000		
BH (60°-80°)	131.0	1.3	B1/500		G0/660
BVH (80°-90°)	15.8	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G1**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	35580.1	35580.1	35580.1	35580.1	35580.1	35580.1	35580.1	35580.1	35580.1	35580.1
2.5°	34543.6	34562.9	34491.4	34645.7	34525.5	34847.5	34687.6	34937.1	34853.2	34992.7
5°	32184.9	32153.2	32132.7	32372.0	32302.8	32648.7	32427.6	32355.0	32579.5	32538.7
7.5°	28623.0	28707.0	28659.3	28721.7	28756.9	29151.5	29276.2	29178.7	29182.1	29238.8
10°	24971.6	24848.0	24672.2	24789.0	25036.2	25208.6	25139.4	25282.3	25250.6	25385.5
12.5°	20478.7	20576.3	20477.6	20373.3	20805.3	20757.7	20877.9	20956.1	20760.0	21196.5
15°	15425.7	15476.7	15596.9	15589.0	15921.2	15988.1	15972.3	16055.0	15901.9	15974.5
17.5°	9909.9	10082.3	10405.5	10952.1	11566.7	11638.1	11620.0	11552.0	11478.2	11396.6
20°	6656.5	6638.4	6755.2	6915.1	8187.4	8524.2	8514.0	8300.8	7992.4	7933.4
22.5°	4663.0	4697.0	4681.1	4839.9	5103.0	6031.7	5917.2	5700.6	5599.6	5533.9
25°	3067.4	3055.0	3134.3	3182.0	3407.6	3521.0	3922.5	3842.0	3686.6	3703.6
27.5°	1869.9	1885.8	1915.3	1956.1	2116.0	2079.7	2308.8	2339.4	2289.5	2236.2
30°	1147.6	1158.9	1182.8	1212.2	1267.8	1228.1	1291.6	1401.6	1383.5	1346.0
32.5°	779.1	780.2	797.2	808.5	801.7	764.3	784.7	889.0	891.3	887.9
35°	560.2	560.2	576.1	585.1	565.9	535.2	538.6	603.3	631.6	637.3
37.5°	386.7	387.8	415.0	442.3	420.7	412.8	399.2	442.3	487.6	494.4
40°	293.7	292.6	306.2	326.6	328.9	314.1	318.7	345.9	392.4	398.0
42.5°	238.1	239.3	246.1	243.8	244.9	264.2	271.0	283.5	326.6	336.8
45°	200.7	201.9	205.3	193.9	189.4	218.9	227.9	234.7	271.0	283.5
47.5°	165.6	167.8	171.2	158.8	156.5	175.8	191.6	198.4	230.2	243.8
50°	119.1	121.3	133.8	127.0	133.8	138.3	159.9	170.1	191.6	209.8
52.5°	86.2	88.5	91.9	93.0	110.0	112.3	128.1	144.0	154.2	174.6
55°	68.0	70.3	68.0	65.8	80.5	93.0	98.7	115.7	123.6	147.4
57.5°	38.6	40.8	44.2	51.0	53.3	71.4	77.1	91.9	98.7	121.3
60°	6.8	7.9	12.5	30.6	37.4	45.4	57.8	70.3	79.4	95.3
62.5°	1.1	1.1	2.3	6.8	21.5	31.8	42.0	49.9	57.8	72.6
65°	0.0	0.0	1.1	2.3	5.7	18.1	22.7	29.5	39.7	52.2
67.5°	0.0	0.0	1.1	2.3	3.4	6.8	10.2	18.1	22.7	35.2
70°	0.0	0.0	1.1	2.3	3.4	4.5	5.7	7.9	13.6	21.5
72.5°	0.0	0.0	1.1	2.3	3.4	4.5	5.7	6.8	6.8	13.6
75°	0.0	0.0	1.1	2.3	3.4	5.7	6.8	6.8	5.7	5.7
77.5°	0.0	0.0	1.1	2.3	4.5	6.8	7.9	6.8	4.5	4.5
80°	0.0	0.0	2.3	3.4	5.7	7.9	10.2	7.9	4.5	2.3
82.5°	0.0	0.0	2.3	4.5	5.7	9.1	12.5	10.2	4.5	2.3
85°	0.0	0.0	1.1	3.4	6.8	9.1	12.5	9.1	4.5	1.1
87.5°	0.0	0.0	1.1	1.1	2.3	3.4	6.8	5.7	2.3	1.1
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°
<b>35580.1</b>	0°	<b>35580.1</b>	<b>35580.1</b>	<b>35580.1</b>	<b>35580.1</b>	<b>35580.1</b>	<b>35580.1</b>	<b>35580.1</b>	<b>35580.1</b>	<b>35580.1</b>
34728.5	2.5°	34928.0	35109.5	35146.9	35097.0	35169.6	35039.2	34939.4	34680.8	34525.5
32526.2	5°	32736.0	32708.8	32898.2	32960.6	32952.6	32852.8	32713.4	32556.9	32404.9
29128.8	7.5°	29310.2	29345.4	29517.8	29627.8	29572.2	29447.5	29351.1	29233.1	29131.1
25434.3	10°	25666.7	25425.2	25639.5	25639.5	25788.1	25435.4	25468.3	25171.2	25184.8
21188.6	12.5°	21261.2	21348.5	21383.7	21484.6	21311.1	21124.0	20894.9	20849.5	20707.8
15836.2	15°	16064.1	16313.6	16099.3	16465.5	16288.6	16093.6	16058.4	15706.9	15818.0
11486.2	17.5°	11429.5	11705.0	11791.2	12001.0	11840.0	11724.3	11578.0	11471.4	11463.5
8041.1	20°	8104.6	8381.3	8444.8	8696.6	8678.4	8642.1	8518.5	8383.6	8237.3
5473.8	22.5°	5556.6	5782.2	5993.1	6332.2	6326.5	6219.9	6207.5	6017.0	6020.4
3697.9	25°	3736.5	3900.9	3950.8	4297.8	4336.4	4325.0	4260.4	4083.5	4150.4
2258.9	27.5°	2261.2	2405.2	2574.2	2696.6	2812.3	2794.2	2729.5	2630.9	2587.8
1357.4	30°	1393.7	1458.3	1520.7	1668.1	1737.3	1773.6	1742.9	1651.1	1657.9
893.6	32.5°	912.9	967.3	1012.7	1105.6	1141.9	1208.8	1196.4	1177.1	1154.4
643.0	35°	665.7	705.3	736.0	779.1	825.5	882.2	891.3	883.4	874.3
496.7	37.5°	508.0	548.9	584.0	602.1	638.4	682.7	707.6	706.5	699.7
404.8	40°	412.8	443.4	475.1	499.0	523.9	556.8	587.4	590.8	590.8
340.2	42.5°	344.7	370.8	402.6	427.5	445.7	476.3	508.0	510.3	508.0
288.0	45°	294.8	317.5	348.1	377.6	392.4	415.0	445.7	452.5	447.9
247.2	47.5°	256.3	276.7	302.8	334.5	350.4	370.8	399.2	407.1	406.0
213.2	50°	220.0	243.8	269.9	296.0	316.4	335.7	362.9	371.9	368.5
181.4	52.5°	193.9	215.5	238.1	266.5	290.3	307.3	328.9	344.7	340.2
153.1	55°	162.2	188.2	212.1	235.9	265.4	283.5	303.9	323.2	318.7
129.3	57.5°	140.6	162.2	189.4	210.9	240.4	262.0	282.4	302.8	301.6
105.5	60°	117.9	140.6	166.7	189.4	216.6	240.4	260.8	283.5	285.8
79.4	62.5°	93.0	120.2	142.9	169.0	196.2	222.3	240.4	263.1	266.5
60.1	65°	70.3	98.7	123.6	148.6	175.8	204.1	220.0	239.3	242.7
44.2	67.5°	52.2	76.0	105.5	128.1	156.5	183.7	198.4	214.3	220.0
27.2	70°	39.7	57.8	88.5	110.0	139.5	161.0	176.9	190.5	195.0
18.1	72.5°	24.9	45.4	71.4	94.1	120.2	139.5	150.8	158.8	165.6
10.2	75°	17.0	35.2	57.8	80.5	99.8	114.5	124.7	131.5	137.2
4.5	77.5°	10.2	27.2	47.6	66.9	79.4	90.7	100.9	105.5	108.9
3.4	80°	5.7	20.4	39.7	54.4	62.4	70.3	78.2	83.9	86.2
2.3	82.5°	3.4	15.9	31.8	42.0	45.4	53.3	61.2	64.6	64.6
1.1	85°	2.3	11.3	21.5	30.6	32.9	38.6	40.8	43.1	45.4
1.1	87.5°	2.3	6.8	13.6	17.0	18.1	20.4	21.5	23.8	26.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
<u>35580.1</u>
34410.9
32234.8
28785.2
25052.1
20578.5
15706.9
11252.6
8173.8
5954.6
4044.9
2550.3
1628.4
1146.5
870.9
696.3
584.0
505.8
447.9
403.7
366.3
339.1
320.9
302.8
286.9
268.8
246.1
222.3
197.3
164.4
136.1
107.7
83.9
63.5
44.2
24.9
0.0

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