

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: P637221

Luminaire Tested: **IFLD-L-SA7A-827-U-33-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637221  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7A-827-U-33-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor  
Light Source: (112) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22882.1 lumens  
Efficiency: N/A  
Efficacy: 105.2 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

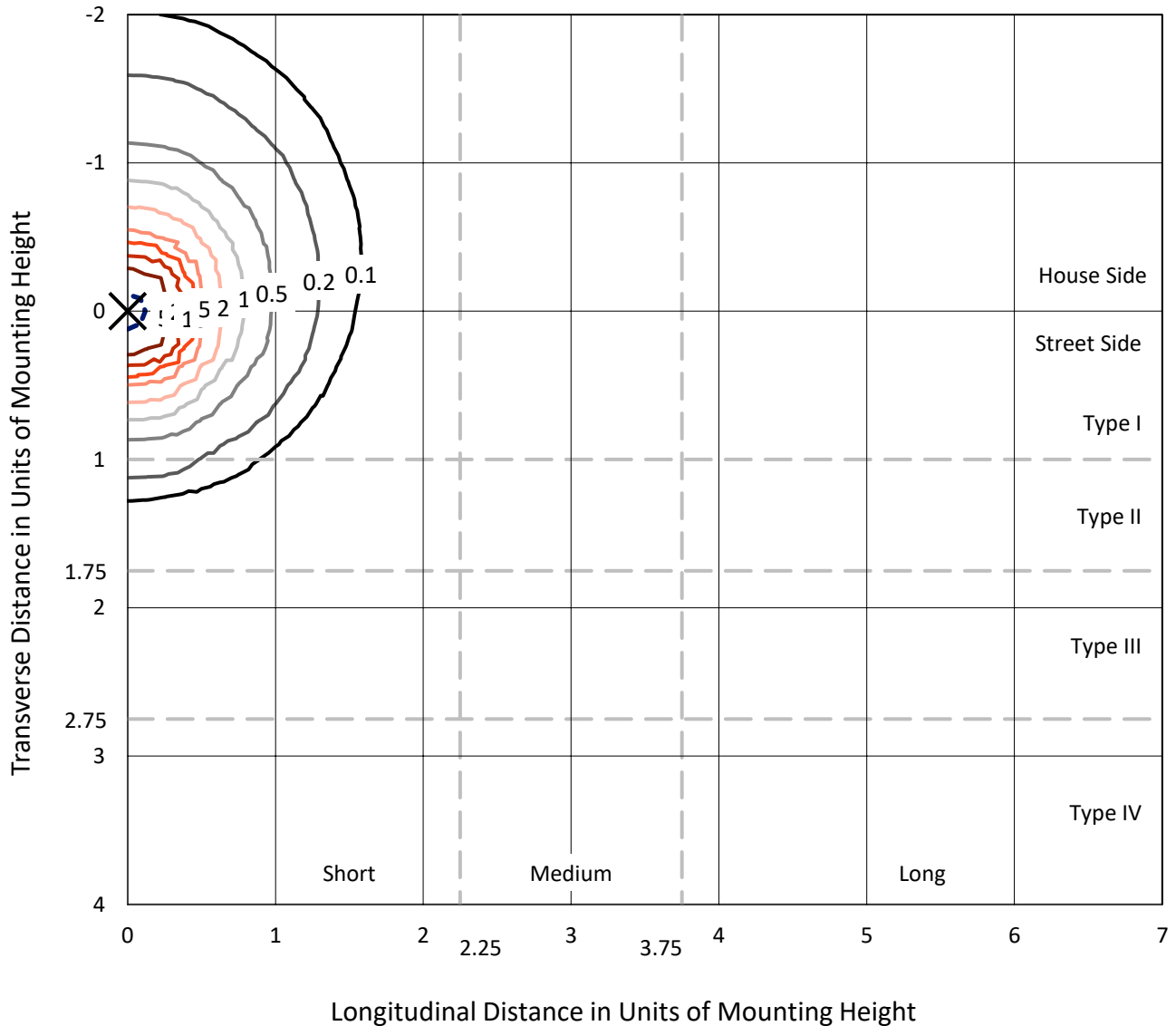
Input Watts (W): 217.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

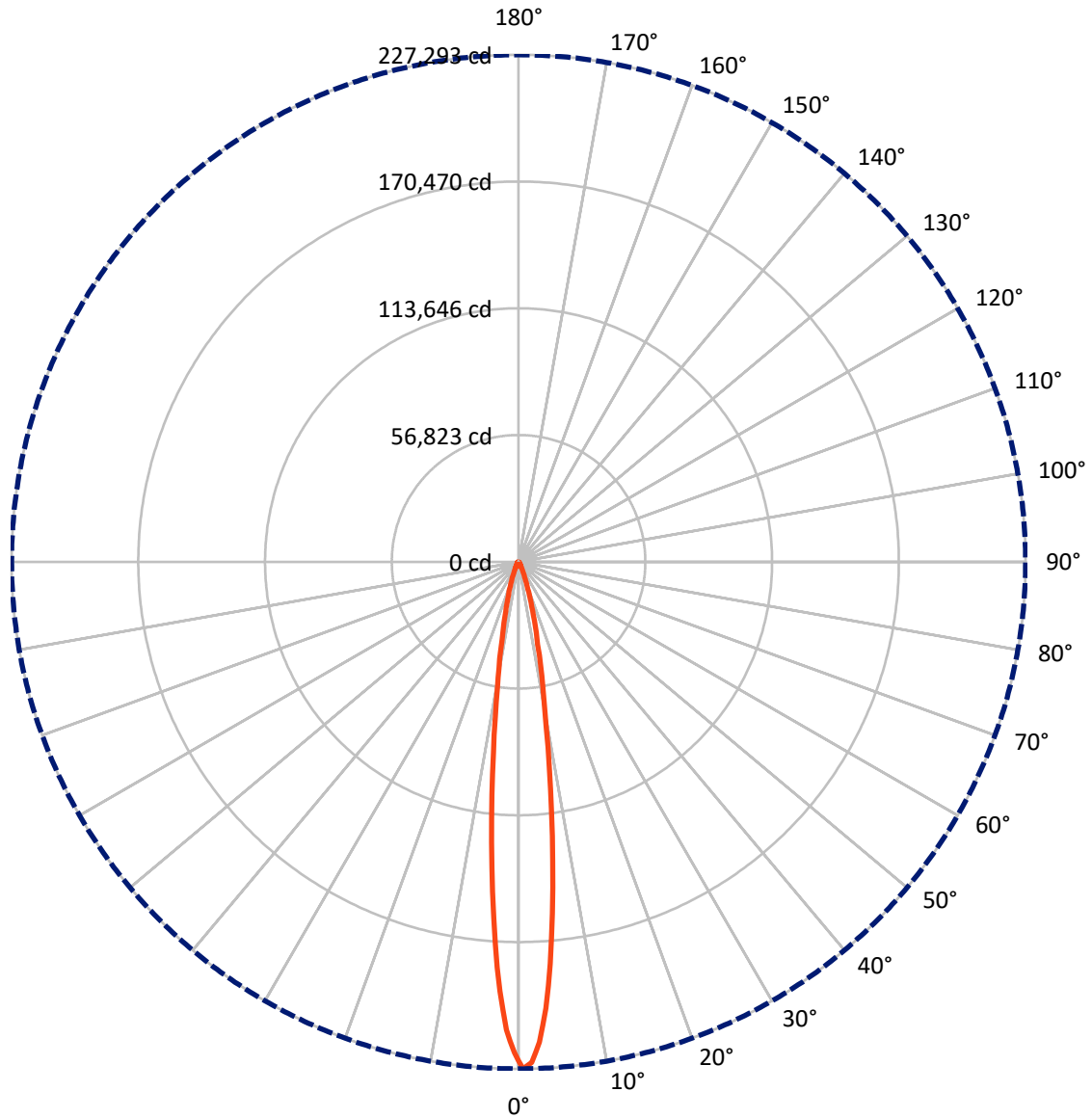
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 568.2 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	11719.8	0.0	11719.8
	% Fixture	51.2	0.0	51.2
<b>Street Side</b>	Lumens	11162.3	0.0	11162.3
	% Fixture	48.8	0.0	48.8
<b>Total</b>	Lumens	22882.1	0.0	22882.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	11551.5	50.5
10°-20°	7395.2	32.3
20°-30°	2222.9	9.7
30°-40°	723.8	3.2
40°-50°	421.1	1.8
50°-60°	279.7	1.2
60°-70°	168.4	0.7
70°-80°	86.6	0.4
80°-90°	32.9	0.1
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°	22882.1	100.0
0°-180°	22882.1	100.0

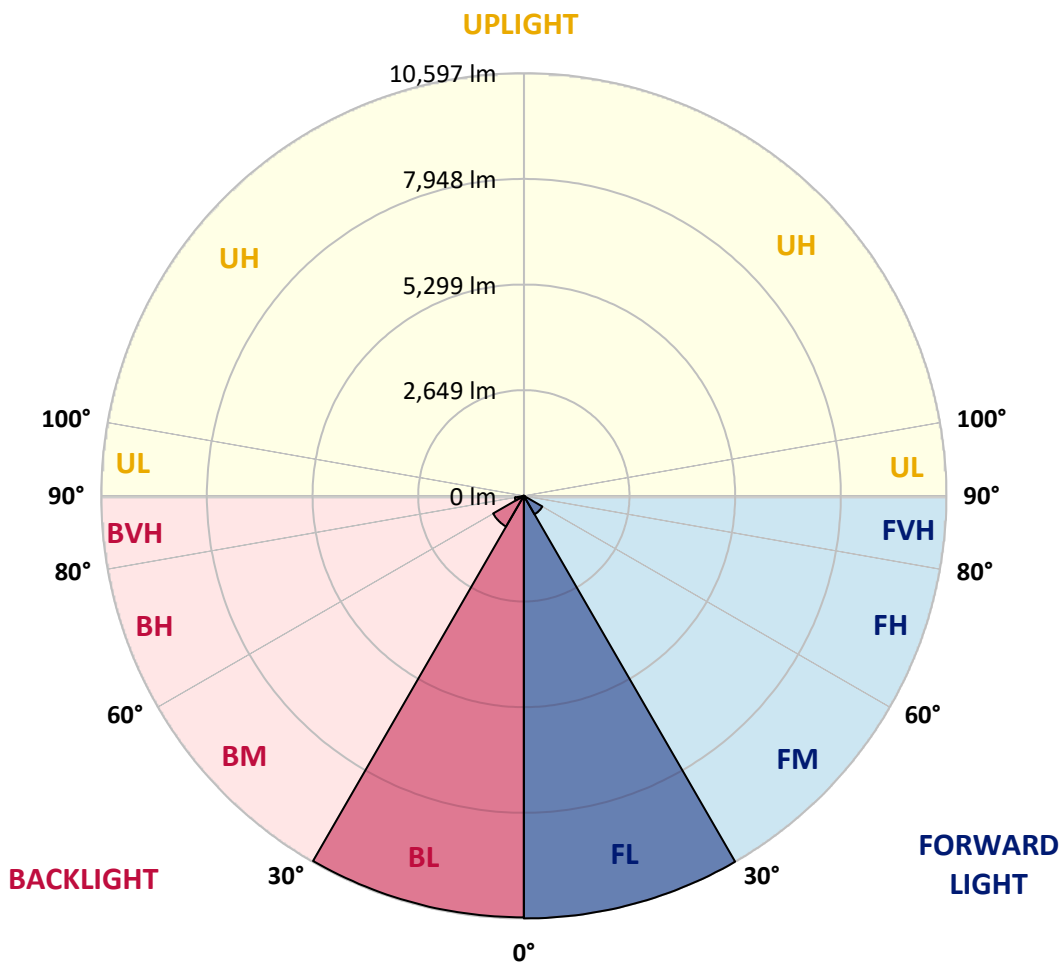


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	10597.4	46.3			
FM (30°-60°)	534.8	2.3			
FH (60°-80°)	25.2	0.1			G0/660
FVH (80°-90°)	5.0	0.0			G0/10
BL (0°-30°)	10572.3	46.2	B5		
BM (30°-60°)	889.8	3.9	B1/1000		
BH (60°-80°)	229.7	1.0	B1/500		G0/660
BVH (80°-90°)	27.9	0.1			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°	227292.9	227292.9	227292.9	227292.9	227292.9	227292.9	227292.9	227292.9	227292.9	227292.9
1°	224571.4	223886.0	222116.6	223375.1	224481.7	224160.2	224137.7	224018.1	223851.1	225162.0
2°	215594.4	215150.8	212534.0	213613.1	215185.7	214039.3	214757.0	214126.5	214139.0	215704.1
3°	200461.7	200703.4	196528.9	198490.3	200676.0	197897.2	198759.5	200379.4	198682.2	198171.3
4°	180793.1	178694.6	176414.2	178408.0	178973.7	177356.3	178946.3	180930.1	178572.5	178677.2
5°	158338.2	156788.0	154088.9	155320.1	153917.0	154427.9	156810.4	157627.9	155983.0	153912.0
6°	135250.2	134148.7	130774.2	132548.7	132050.2	131761.1	134769.3	132277.0	133174.2	131920.6
7°	112501.3	110442.7	108785.4	110485.1	110594.7	109724.9	113630.2	113176.7	111544.3	111165.4
8°	93209.0	91155.4	89752.3	91018.3	91845.8	90480.0	92316.8	93523.0	92247.0	92361.6
9°	75177.8	74816.4	72865.0	74519.8	75419.5	73956.6	75990.3	76426.4	75232.6	75813.3
10°	61727.3	61306.1	59748.5	60418.9	61909.2	60164.7	62116.1	62258.1	61306.1	61577.8
12.5°	38145.9	37976.4	37934.1	38031.3	38011.3	38320.4	38818.8	38250.6	38175.8	37236.2
15°	24655.5	24907.2	24648.0	25146.5	25218.8	25510.4	25206.3	24747.7	23873.0	23439.3
17.5°	15387.0	15708.5	16152.1	16882.3	17612.5	17697.2	17293.5	16755.2	16331.5	15868.0
20°	8852.4	9009.4	8942.1	9816.9	11706.0	12219.4	11698.5	11132.7	10621.8	10153.3
22.5°	5500.3	5443.0	5547.7	5841.8	6457.3	8044.9	7618.7	7053.0	6681.6	6295.3
25°	3372.0	3434.3	3394.4	3556.4	3833.0	4505.9	4603.1	4358.9	4169.5	3970.1
27.5°	2170.7	2170.7	2188.2	2277.9	2467.3	2444.9	2963.2	2773.8	2671.7	2574.5
30°	1507.8	1512.8	1512.8	1565.1	1607.5	1532.7	1667.3	1911.5	1864.2	1789.4
32.5°	1119.0	1134.0	1146.4	1173.8	1138.9	1059.2	1091.6	1375.7	1348.3	1320.9
35°	852.3	864.8	894.7	909.7	859.8	810.0	780.1	1011.8	1024.3	1016.8
37.5°	620.6	628.0	682.9	740.2	682.9	638.0	620.6	777.6	837.4	829.9
40°	476.0	478.5	488.5	553.3	553.3	518.4	523.4	580.7	685.4	685.4
42.5°	408.7	408.7	418.7	408.7	411.2	448.6	461.1	468.5	580.7	580.7
45°	353.9	353.9	358.9	334.0	309.0	386.3	396.3	398.8	488.5	500.9
47.5°	296.6	296.6	306.5	274.1	261.7	306.5	334.0	341.4	421.2	431.2
50°	219.3	221.8	251.7	224.3	231.8	236.8	289.1	294.1	356.4	378.8
52.5°	147.0	147.0	152.0	174.5	201.9	194.4	234.3	251.7	284.1	314.0
55°	119.6	119.6	117.1	112.1	149.5	162.0	172.0	209.3	231.8	269.2
57.5°	82.2	87.2	79.8	92.2	97.2	122.1	129.6	164.5	176.9	226.8
60°	10.0	12.5	17.4	67.3	64.8	82.2	97.2	129.6	144.5	174.5
62.5°	2.5	2.5	5.0	12.5	44.9	54.8	77.3	89.7	104.7	134.6
65°	0.0	0.0	2.5	5.0	10.0	29.9	39.9	52.3	74.8	94.7
67.5°	0.0	0.0	2.5	5.0	5.0	12.5	19.9	32.4	39.9	69.8
70°	0.0	0.0	2.5	5.0	5.0	10.0	12.5	15.0	27.4	37.4
72.5°	0.0	0.0	2.5	5.0	7.5	10.0	12.5	12.5	12.5	24.9
75°	0.0	0.0	2.5	5.0	7.5	10.0	12.5	12.5	10.0	10.0
77.5°	0.0	0.0	2.5	5.0	10.0	12.5	15.0	12.5	7.5	7.5
80°	0.0	0.0	2.5	7.5	12.5	17.4	19.9	15.0	7.5	5.0
82.5°	0.0	0.0	5.0	10.0	15.0	19.9	27.4	22.4	10.0	5.0
85°	0.0	0.0	2.5	7.5	15.0	19.9	39.9	27.4	12.5	2.5
87.5°	0.0	0.0	0.0	2.5	2.5	5.0	15.0	10.0	5.0	2.5
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°
227292.9	0°	227292.9	227292.9	227292.9	227292.9	227292.9	227292.9	227292.9	227292.9
223649.3	1°	225211.9	225368.9	224855.5	225650.5	225371.4	223736.5	223195.7	222555.2
214784.4	2°	214126.5	214926.5	214966.4	215848.6	215836.2	213929.6	213339.0	214428.1
199208.1	3°	198605.0	199537.0	198697.2	200264.8	199793.7	197481.0	196880.3	198116.5
179504.6	4°	178968.8	178791.8	178502.7	177610.5	178709.6	177132.0	175943.2	177620.5
156658.4	5°	156344.4	155950.6	155387.4	155123.2	155940.7	154931.3	152486.4	154936.3
134188.6	6°	134353.0	132658.3	132576.1	132429.1	132511.3	129685.1	129854.6	131678.9
109862.0	7°	111023.4	111334.9	110699.4	111718.7	110941.1	109027.1	108289.4	110210.9
92865.1	8°	92217.1	91823.3	91337.3	92860.1	91511.8	90255.7	89395.9	90913.7
75908.0	9°	75766.0	75085.6	74592.1	74514.9	74724.2	72366.6	72845.1	73994.0
61727.3	10°	61749.7	60633.2	60904.9	60977.1	60747.8	59202.7	59217.6	59613.9
37859.3	12.5°	37724.7	37176.4	37313.5	37388.3	37854.3	37311.0	36543.4	35990.1
23870.5	15°	23711.0	23317.2	24122.2	24663.0	24553.3	24069.9	23708.5	23207.5
15868.0	17.5°	15720.9	16236.8	16239.3	16732.8	16782.6	16299.1	16020.0	15568.9
10320.3	20°	10282.9	10497.2	10943.3	11292.2	11494.1	11125.3	10791.3	10482.3
6434.9	22.5°	6434.9	6808.7	7087.9	7541.5	7725.9	7456.7	7220.0	6968.2
4017.5	25°	3950.2	4216.8	4448.6	4842.4	5094.1	4964.5	4747.7	4570.7
2594.4	27.5°	2634.3	2746.4	2861.1	3132.7	3394.4	3322.1	3234.9	3127.7
1829.3	30°	1856.7	1866.7	1988.8	2140.8	2315.3	2360.1	2320.3	2265.4
1343.3	32.5°	1368.2	1408.1	1465.4	1560.1	1677.3	1784.4	1764.5	1739.6
1026.8	35°	1056.7	1116.5	1163.9	1236.1	1298.4	1400.6	1418.1	1410.6
844.9	37.5°	862.3	914.6	962.0	1004.4	1056.7	1126.5	1181.3	1183.8
697.8	40°	715.3	762.6	824.9	857.3	894.7	947.0	1014.3	1019.3
590.7	42.5°	603.1	648.0	710.3	750.2	777.6	827.4	894.7	904.7
505.9	45°	518.4	545.8	610.6	657.9	685.4	717.8	790.0	800.0
436.1	47.5°	451.1	478.5	518.4	585.7	610.6	640.5	697.8	715.3
386.3	50°	396.3	423.7	458.6	518.4	555.8	580.7	628.0	653.0
336.4	52.5°	351.4	378.8	416.2	463.6	505.9	528.4	573.2	605.6
274.1	55°	294.1	341.4	368.8	411.2	468.5	488.5	523.4	565.7
239.3	57.5°	256.7	296.6	336.4	371.3	428.7	453.6	488.5	528.4
189.4	60°	216.8	254.2	301.6	331.5	386.3	418.7	456.1	493.5
144.5	62.5°	172.0	221.8	254.2	296.6	348.9	391.3	421.2	458.6
112.1	65°	127.1	181.9	219.3	264.2	314.0	358.9	383.8	423.7
79.8	67.5°	92.2	142.1	186.9	229.3	276.6	321.5	346.4	381.3
49.8	70°	72.3	104.7	154.5	191.9	241.7	279.1	306.5	329.0
32.4	72.5°	42.4	79.8	124.6	167.0	211.8	236.8	256.7	276.6
15.0	75°	27.4	62.3	102.2	139.6	172.0	194.4	211.8	229.3
7.5	77.5°	17.4	44.9	82.2	117.1	132.1	159.5	174.5	184.4
5.0	80°	10.0	34.9	72.3	94.7	107.2	124.6	139.6	152.0
5.0	82.5°	7.5	29.9	59.8	79.8	79.8	99.7	107.2	107.2
2.5	85°	5.0	24.9	47.4	74.8	59.8	74.8	69.8	69.8
2.5	87.5°	5.0	17.4	22.4	32.4	27.4	32.4	32.4	37.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
227292.9  
220018.1  
209815.0  
192626.1  
171549.4  
148481.4  
126390.4  
104984.7  
86579.7  
70405.2  
56917.3  
35653.7  
22950.8  
15456.7  
10375.1  
6833.7  
4468.5  
3065.4  
2228.0  
1719.6  
1385.7  
1166.4  
1011.8  
897.2  
797.5  
717.8  
655.5  
605.6  
568.2  
530.8  
503.4  
476.0  
431.2  
383.8  
336.4  
281.6  
229.3  
179.4  
137.1  
99.7  
67.3  
37.4  
0.0

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