

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: P637257

Luminaire Tested: **IFLD-L-SA8C-830-U-33-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637257  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8C-830-U-33-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor  
Light Source: (128) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 40035.4 lumens  
Efficiency: N/A  
Efficacy: 95.3 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

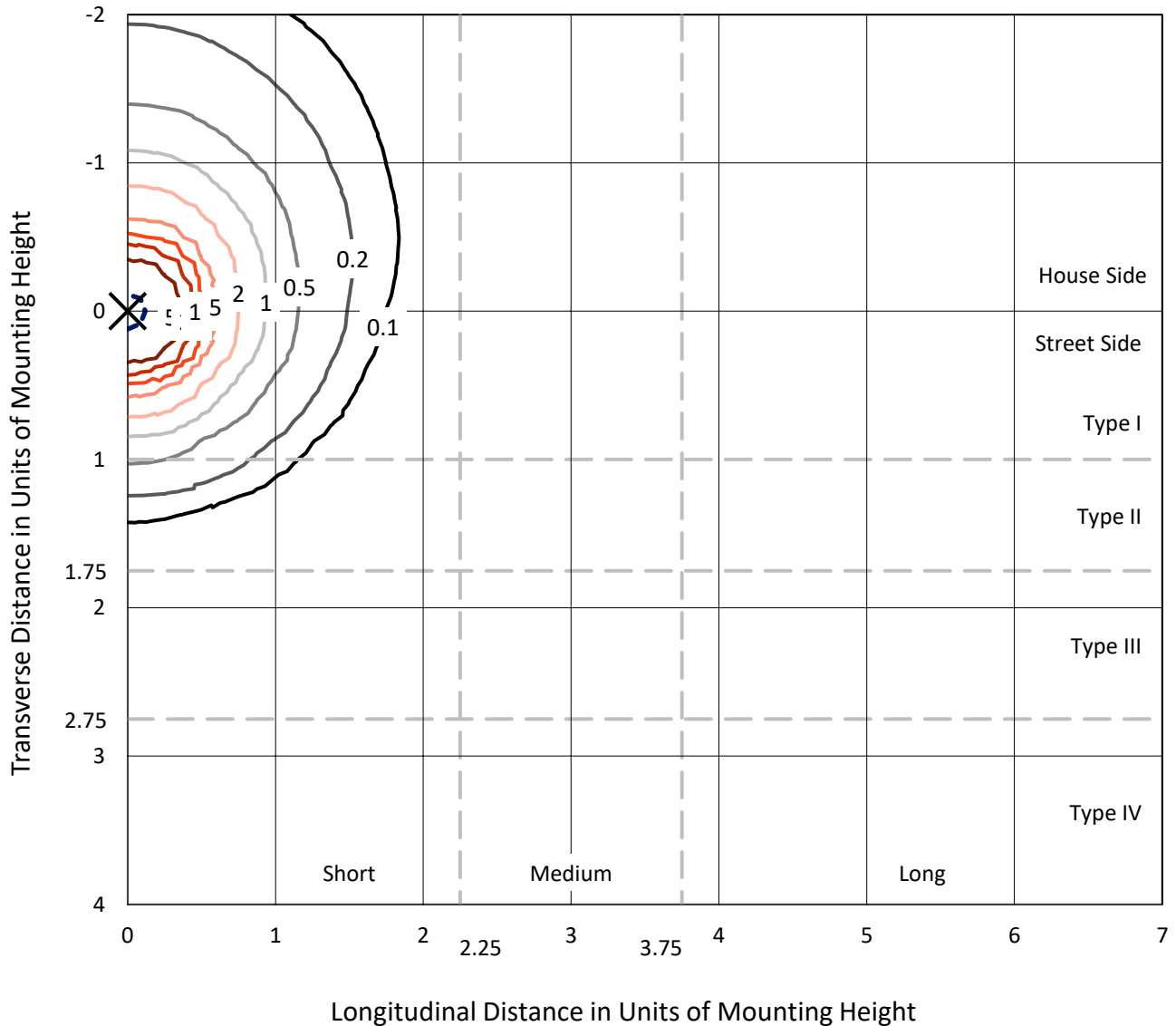
Input Watts (W): 420.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

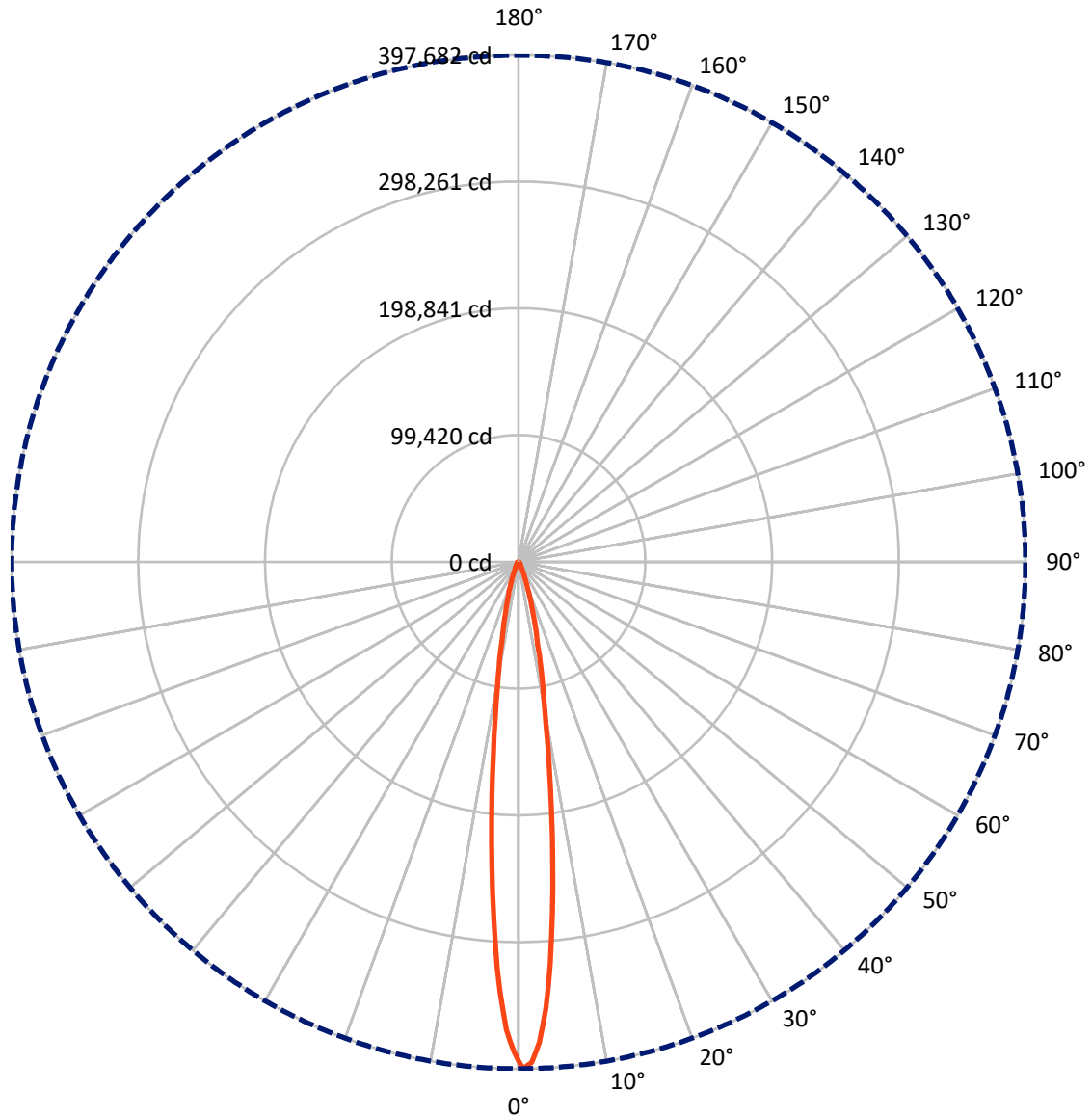
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 994.2 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	20505.4	0.0	20505.4
	% Fixture	51.2	0.0	51.2
<b>Street Side</b>	Lumens	19530.0	0.0	19530.0
	% Fixture	48.8	0.0	48.8
<b>Total</b>	Lumens	40035.4	0.0	40035.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	20211.1	50.5
10°-20°	12939.1	32.3
20°-30°	3889.2	9.7
30°-40°	1266.3	3.2
40°-50°	736.8	1.8
50°-60°	489.4	1.2
60°-70°	294.6	0.7
70°-80°	151.4	0.4
80°-90°	57.5	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°	40035.4	100.0
0°-180°	40035.4	100.0



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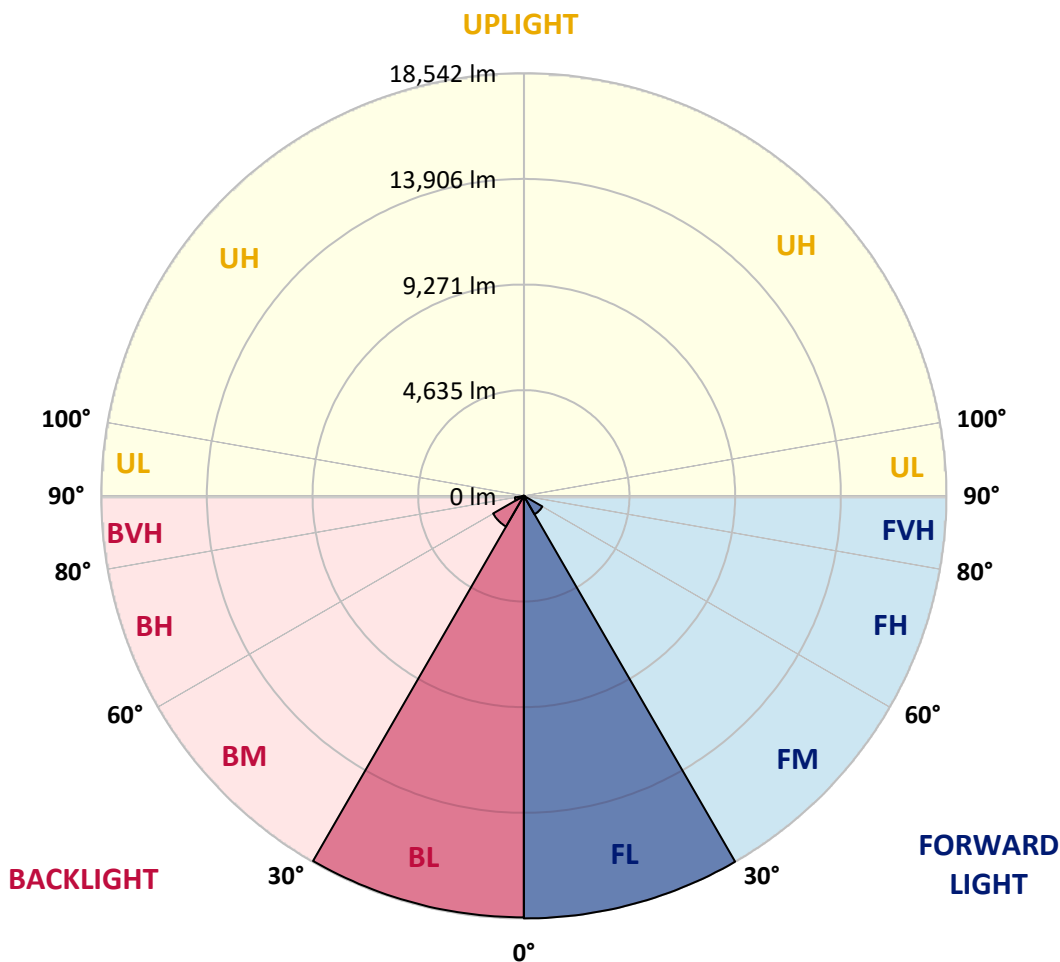
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	18541.7	46.3			
FM (30°-60°)	935.6	2.3			
FH (60°-80°)	44.0	0.1			G0/660
FVH (80°-90°)	8.7	0.0			G0/10
BL (0°-30°)	18497.7	46.2	B5		
BM (30°-60°)	1556.9	3.9	B2/2500		
BH (60°-80°)	402.0	1.0	B1/500		G0/660
BVH (80°-90°)	48.8	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°	397681.8	397681.8	397681.8	397681.8	397681.8	397681.8	397681.8	397681.8	397681.8	397681.8
1°	392920.1	391721.0	388625.0	390827.1	392763.1	392200.6	392161.4	391952.1	391659.9	393953.5
2°	377213.6	376437.4	371858.9	373747.0	376498.5	374492.6	375748.4	374645.2	374667.0	377405.4
3°	350736.6	351159.6	343855.8	347287.5	351111.6	346249.7	347758.4	350592.7	347623.2	346729.3
4°	316323.6	312652.0	308662.2	312150.6	313140.4	310310.5	313092.5	316563.4	312438.4	312621.5
5°	277035.5	274323.3	269600.9	271754.9	269300.0	270193.9	274362.5	275792.8	272914.8	269291.3
6°	236639.9	234712.5	228808.4	231913.1	231041.0	230535.2	235798.3	231437.8	233007.6	230814.2
7°	196837.2	193235.5	190335.7	193309.6	193501.4	191979.6	198812.5	198018.9	195162.8	194500.0
8°	163082.6	159489.6	157034.6	159249.7	160697.4	158307.9	161521.6	163632.0	161399.5	161600.0
9°	131534.4	130902.1	127487.9	130383.2	131957.4	129397.8	132955.9	133719.0	131630.3	132646.3
10°	108000.8	107263.9	104538.6	105711.5	108319.1	105266.8	108681.0	108929.6	107263.9	107739.2
12.5°	66741.8	66445.3	66371.1	66541.2	66506.3	67047.0	67919.1	66924.9	66794.1	65150.2
15°	43138.4	43578.8	43125.3	43997.4	44123.9	44634.1	44102.1	43299.7	41769.2	41010.5
17.5°	26921.7	27484.2	28260.4	29538.0	30815.6	30963.9	30257.5	29315.6	28574.3	27763.3
20°	15488.5	15763.2	15645.5	17176.0	20481.3	21379.5	20468.2	19478.3	18584.4	17764.7
22.5°	9623.6	9523.3	9706.5	10221.0	11298.0	14075.7	13330.0	12340.2	11690.5	11014.6
25°	5899.8	6008.8	5939.0	6222.4	6706.4	7883.8	8053.8	7626.5	7295.1	6946.3
27.5°	3798.0	3798.0	3828.5	3985.5	4316.9	4277.6	5184.6	4853.2	4674.5	4504.4
30°	2638.1	2646.8	2646.8	2738.4	2812.5	2681.7	2917.2	3344.5	3261.7	3130.8
32.5°	1957.9	1984.0	2005.8	2053.8	1992.7	1853.2	1909.9	2407.0	2359.0	2311.1
35°	1491.3	1513.1	1565.4	1591.6	1504.4	1417.2	1364.8	1770.4	1792.2	1779.1
37.5°	1085.8	1098.8	1194.8	1295.1	1194.8	1116.3	1085.8	1360.5	1465.1	1452.0
40°	832.9	837.2	854.7	968.0	968.0	907.0	915.7	1016.0	1199.1	1199.1
42.5°	715.1	715.1	732.6	715.1	719.5	784.9	806.7	819.8	1016.0	1016.0
45°	619.2	619.2	627.9	584.3	540.7	675.9	693.3	697.7	854.7	876.5
47.5°	518.9	518.9	536.3	479.7	457.9	536.3	584.3	597.4	736.9	754.4
50°	383.7	388.1	440.4	392.4	405.5	414.2	505.8	514.5	623.6	662.8
52.5°	257.3	257.3	266.0	305.2	353.2	340.1	409.9	440.4	497.1	549.4
55°	209.3	209.3	204.9	196.2	261.6	283.4	300.9	366.3	405.5	470.9
57.5°	143.9	152.6	139.5	161.3	170.1	213.7	226.7	287.8	309.6	396.8
60°	17.4	21.8	30.5	117.7	113.4	143.9	170.1	226.7	252.9	305.2
62.5°	4.4	4.4	8.7	21.8	78.5	95.9	135.2	157.0	183.1	235.5
65°	0.0	0.0	4.4	8.7	17.4	52.3	69.8	91.6	130.8	165.7
67.5°	0.0	0.0	4.4	8.7	8.7	21.8	34.9	56.7	69.8	122.1
70°	0.0	0.0	4.4	8.7	8.7	17.4	21.8	26.2	48.0	65.4
72.5°	0.0	0.0	4.4	8.7	13.1	17.4	21.8	21.8	21.8	43.6
75°	0.0	0.0	4.4	8.7	13.1	17.4	21.8	21.8	17.4	17.4
77.5°	0.0	0.0	4.4	8.7	17.4	21.8	26.2	21.8	13.1	13.1
80°	0.0	0.0	4.4	13.1	21.8	30.5	34.9	26.2	13.1	8.7
82.5°	0.0	0.0	8.7	17.4	26.2	34.9	48.0	39.2	17.4	8.7
85°	0.0	0.0	4.4	13.1	26.2	34.9	69.8	48.0	21.8	4.4
87.5°	0.0	0.0	0.0	4.4	4.4	8.7	26.2	17.4	8.7	4.4
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°
397681.8	0°	397681.8	397681.8	397681.8	397681.8	397681.8	397681.8	397681.8	397681.8
391306.7	1°	394040.7	394315.4	393417.2	394808.2	394319.8	391459.3	390513.1	389392.4
375796.4	2°	374645.2	376045.0	376114.7	377658.3	377636.5	374300.8	373267.3	375172.9
348543.3	3°	347488.1	349118.9	347649.4	350392.2	349568.0	345521.5	344470.6	346633.4
314069.2	4°	313131.7	312822.1	312316.3	310755.2	312678.2	309918.0	307838.1	310772.7
274096.5	5°	273547.1	272858.1	271872.7	271410.5	272840.7	271074.7	266797.1	271083.4
234782.3	6°	235070.1	232104.9	231961.0	231703.8	231847.7	226902.9	227199.4	230391.3
192219.5	7°	194251.5	194796.5	193684.6	195468.0	194107.6	190758.7	189468.0	192829.9
162480.9	8°	161347.1	160658.2	159807.9	162472.1	160113.1	157915.4	156411.1	159066.6
132812.0	9°	132563.5	131373.1	130509.7	130374.5	130740.8	126615.8	127453.0	129463.2
108000.8	10°	108040.1	106086.5	106561.8	106688.3	106287.1	103583.6	103609.8	104303.1
66240.3	12.5°	66004.9	65045.5	65285.4	65416.2	66231.6	65281.0	63938.0	62969.9
41764.8	15°	41485.8	40796.8	42205.3	43151.5	42959.6	42113.7	41481.4	40605.0
27763.3	17.5°	27506.0	28408.6	28413.0	29276.4	29363.6	28517.7	28029.3	27240.0
18056.8	20°	17991.4	18366.4	19146.9	19757.4	20110.6	19465.3	18881.0	18340.3
11258.8	22.5°	11258.8	11912.9	12401.3	13194.9	13517.5	13046.6	12632.4	12192.0
7029.1	25°	6911.4	7378.0	7783.5	8472.4	8912.9	8686.1	8306.7	7997.2
4539.3	27.5°	4609.0	4805.3	5005.9	5481.1	5939.0	5812.5	5659.9	5472.4
3200.6	30°	3248.6	3266.0	3479.7	3745.7	4050.9	4129.4	4059.6	3963.7
2350.3	32.5°	2393.9	2463.7	2564.0	2729.7	2934.6	3122.1	3087.2	3043.6
1796.5	35°	1848.9	1953.5	2036.4	2162.8	2271.8	2450.6	2481.1	2468.0
1478.2	37.5°	1508.7	1600.3	1683.2	1757.3	1848.9	1970.9	2066.9	2071.2
1220.9	40°	1251.5	1334.3	1443.3	1500.0	1565.4	1657.0	1774.7	1783.4
1033.4	42.5°	1055.2	1133.7	1242.7	1312.5	1360.5	1447.7	1565.4	1582.9
885.2	45°	907.0	954.9	1068.3	1151.2	1199.1	1255.8	1382.3	1399.7
763.1	47.5°	789.3	837.2	907.0	1024.7	1068.3	1120.6	1220.9	1251.5
675.9	50°	693.3	741.3	802.3	907.0	972.4	1016.0	1098.8	1142.5
588.7	52.5°	614.8	662.8	728.2	811.1	885.2	924.4	1002.9	1059.6
479.7	55°	514.5	597.4	645.4	719.5	819.8	854.7	915.7	989.8
418.6	57.5°	449.1	518.9	588.7	649.7	750.0	793.6	854.7	924.4
331.4	60°	379.4	444.8	527.6	579.9	675.9	732.6	798.0	863.4
252.9	62.5°	300.9	388.1	444.8	518.9	610.5	684.6	736.9	802.3
196.2	65°	222.4	318.3	383.7	462.2	549.4	627.9	671.5	741.3
139.5	67.5°	161.3	248.5	327.0	401.2	484.0	562.5	606.1	667.2
87.2	70°	126.5	183.1	270.4	335.8	423.0	488.4	536.3	575.6
56.7	72.5°	74.1	139.5	218.0	292.2	370.6	414.2	449.1	484.0
26.2	75°	48.0	109.0	178.8	244.2	300.9	340.1	370.6	401.2
13.1	77.5°	30.5	78.5	143.9	204.9	231.1	279.1	305.2	322.7
8.7	80°	17.4	61.0	126.5	165.7	187.5	218.0	244.2	266.0
8.7	82.5°	13.1	52.3	104.7	139.5	139.5	174.4	187.5	187.5
4.4	85°	8.7	43.6	82.8	130.8	104.7	130.8	122.1	122.1
4.4	87.5°	8.7	30.5	39.2	56.7	48.0	56.7	56.7	65.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
397681.8  
384953.5  
367101.6  
337027.2  
300150.5  
259789.7  
221138.3  
183686.0  
151483.7  
123184.1  
99585.0  
62381.3  
40155.8  
27043.8  
18152.8  
11956.5  
7818.4  
5363.4  
3898.3  
3008.7  
2424.4  
2040.7  
1770.4  
1569.8  
1395.4  
1255.8  
1146.8  
1059.6  
994.2  
928.8  
880.8  
832.9  
754.4  
671.5  
588.7  
492.7  
401.2  
314.0  
239.8  
174.4  
117.7  
65.4  
0.0

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