

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: P637451

Luminaire Tested: **IFLD-M-SA4D-760-U-44-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637451  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4D-760-U-44-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor  
Light Source: (64) 5700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30863.8 lumens  
Efficiency: N/A  
Efficacy: 123.6 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

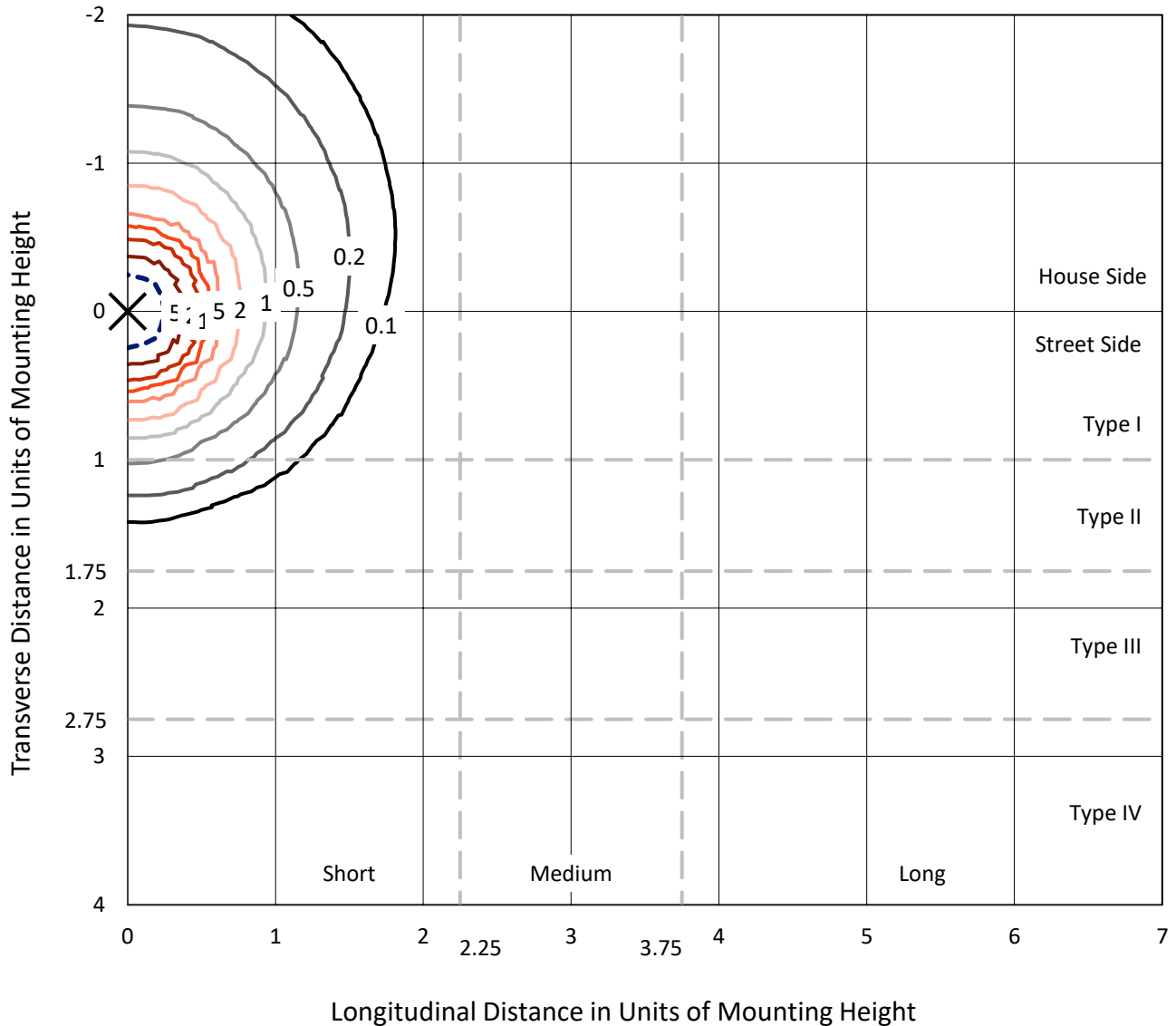
Input Watts (W): 249.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

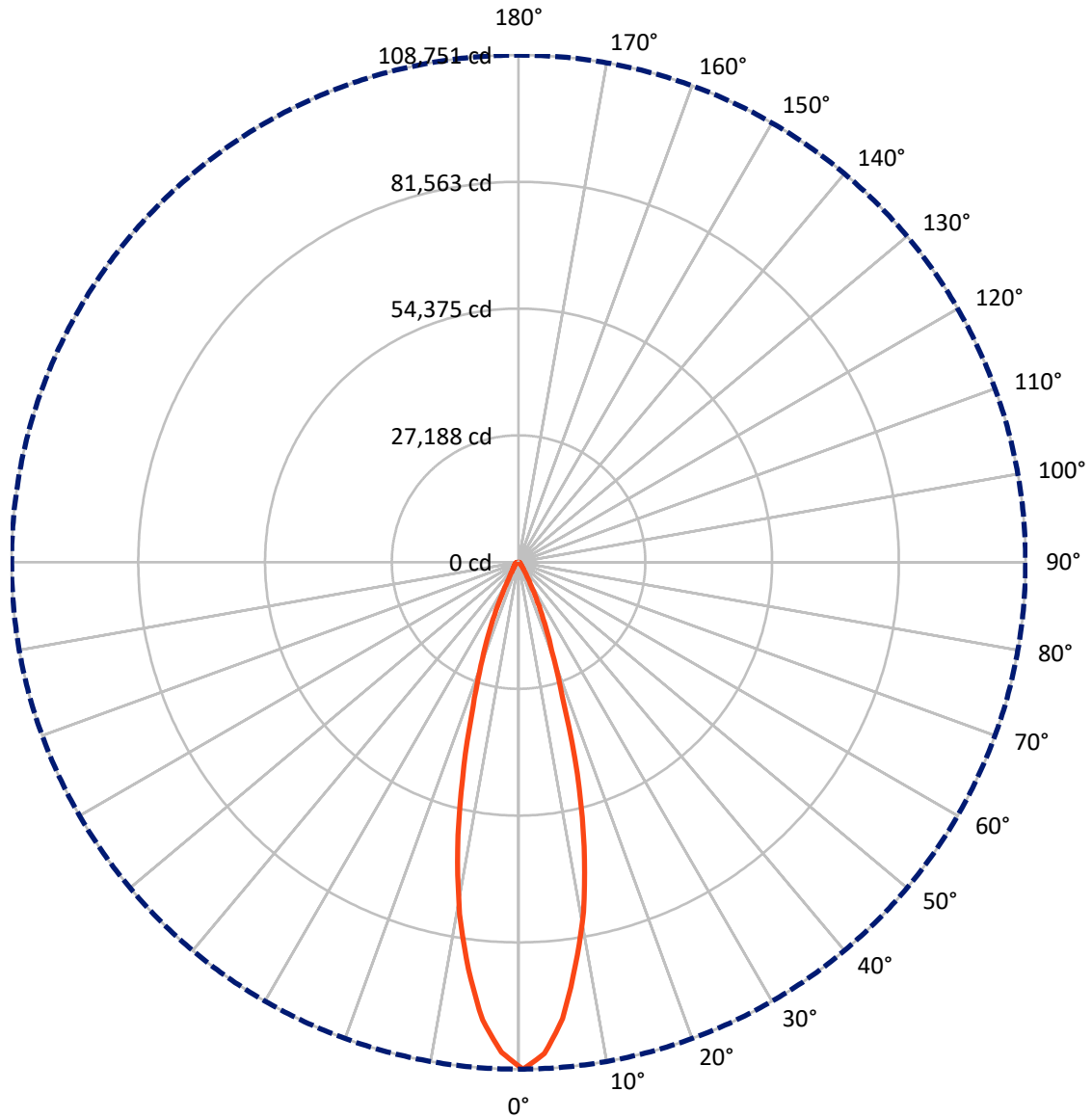
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 271.9 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	16273.5	0.0	16273.5
	% Fixture	52.7	0.0	52.7
<b>Street Side</b>	Lumens	14590.3	0.0	14590.3
	% Fixture	47.3	0.0	47.3
<b>Total</b>	Lumens	30863.8	0.0	30863.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	8777.1	28.4
10°-20°	13292.9	43.1
20°-30°	5609.7	18.2
30°-40°	1463.1	4.7
40°-50°	740.0	2.4
50°-60°	483.7	1.6
60°-70°	289.8	0.9
70°-80°	152.4	0.5
80°-90°	55.1	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°	30863.8	100.0
0°-180°	30863.8	100.0



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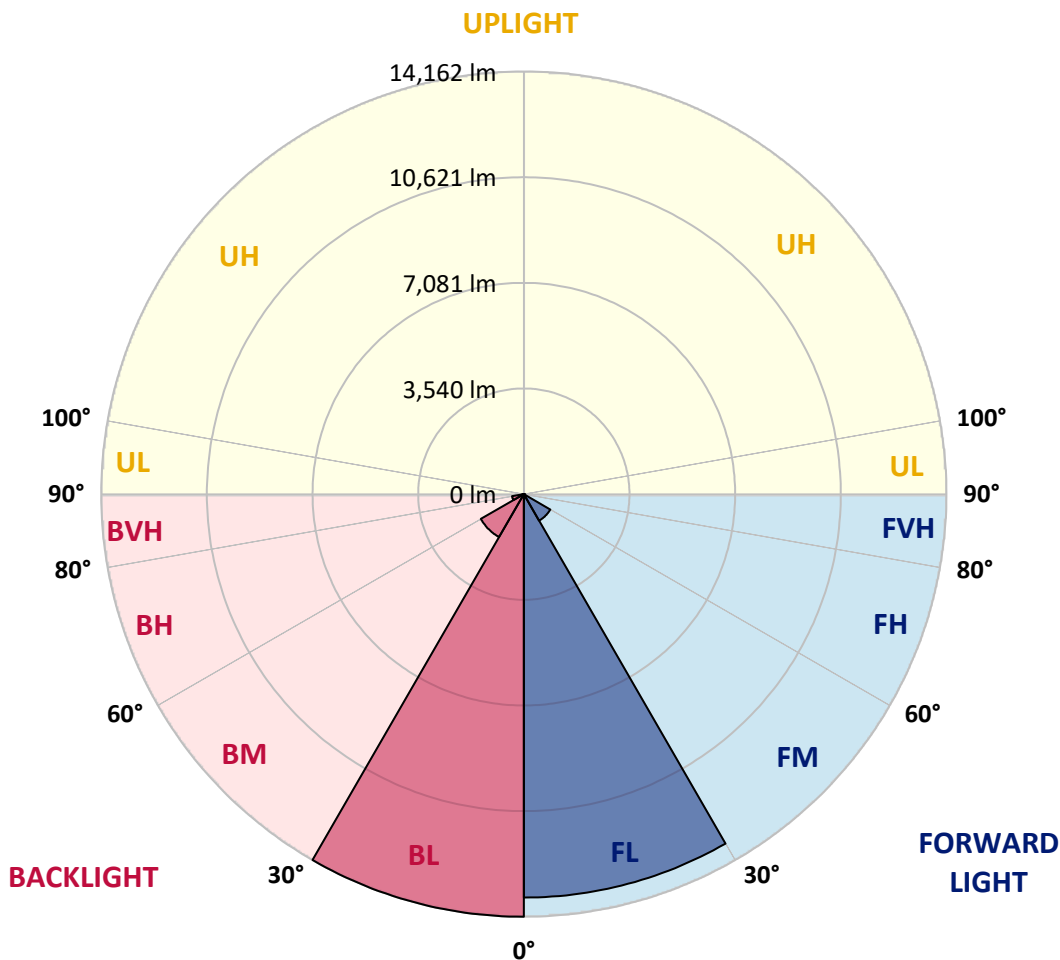
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	13518.1	43.8			
FM (30°-60°)	1023.8	3.3			
FH (60°-80°)	41.7	0.1			G0/660
FVH (80°-90°)	6.7	0.0			G0/10
BL (0°-30°)	14161.6	45.9	B5		
BM (30°-60°)	1663.0	5.4	B2/2500		
BH (60°-80°)	400.5	1.3	B1/500		G0/660
BVH (80°-90°)	48.4	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°	108750.6	108750.6	108750.6	108750.6	108750.6	108750.6	108750.6	108750.6	108750.6	108750.6
2.5°	105582.6	105641.6	105423.2	105894.6	105527.2	106511.5	106022.8	106785.3	106528.9	106955.2
5°	98373.3	98276.2	98213.8	98945.2	98733.7	99790.9	99115.0	98893.2	99579.4	99454.7
7.5°	87486.4	87742.9	87597.3	87788.0	87895.4	89101.6	89482.9	89184.8	89195.2	89368.5
10°	76325.8	75948.0	75410.7	75767.7	76523.3	77050.2	76838.7	77275.4	77178.4	77590.9
12.5°	62593.3	62891.4	62589.8	62270.9	63591.5	63445.9	63813.3	64052.5	63452.9	64787.3
15°	47148.6	47304.6	47672.0	47647.7	48663.3	48867.8	48819.2	49072.2	48604.3	48826.2
17.5°	30289.8	30816.6	31804.4	33475.1	35353.6	35572.0	35516.6	35308.6	35083.3	34833.7
20°	20345.7	20290.2	20647.2	21135.9	25024.8	26054.3	26023.1	25371.4	24428.7	24248.4
22.5°	14252.4	14356.4	14307.8	14793.1	15597.2	18435.9	18085.8	17423.8	17115.3	16914.3
25°	9375.6	9337.5	9580.1	9725.7	10415.5	10762.1	11989.0	11743.0	11268.1	11320.1
27.5°	5715.5	5764.0	5854.1	5978.9	6467.6	6356.7	7056.9	7150.4	6997.9	6835.0
30°	3507.6	3542.3	3615.1	3705.2	3875.0	3753.7	3947.8	4284.0	4228.6	4114.2
32.5°	2381.2	2384.6	2436.6	2471.3	2450.5	2336.1	2398.5	2717.4	2724.3	2713.9
35°	1712.2	1712.2	1760.8	1788.5	1729.6	1636.0	1646.4	1843.9	1930.6	1947.9
37.5°	1181.9	1185.4	1268.6	1351.8	1285.9	1261.6	1220.0	1351.8	1490.4	1511.2
40°	897.7	894.2	935.8	998.2	1005.2	960.1	974.0	1057.1	1199.3	1216.6
42.5°	727.9	731.3	752.1	745.2	748.7	807.6	828.4	866.5	998.2	1029.4
45°	613.5	617.0	627.4	592.7	578.8	668.9	696.7	717.5	828.4	866.5
47.5°	506.0	513.0	523.4	485.2	478.3	537.2	585.8	606.6	703.6	745.2
50°	363.9	370.9	409.0	388.2	409.0	422.9	488.7	519.9	585.8	641.2
52.5°	263.4	270.4	280.7	284.2	336.2	343.1	391.7	440.2	471.4	533.8
55°	208.0	214.9	208.0	201.0	246.1	284.2	301.5	353.5	377.8	450.6
57.5°	117.8	124.8	135.2	156.0	162.9	218.4	235.7	280.7	301.5	370.9
60°	20.8	24.3	38.1	93.6	114.4	138.6	176.8	214.9	242.6	291.1
62.5°	3.5	3.5	6.9	20.8	65.9	97.0	128.2	152.5	176.8	221.8
65°	0.0	0.0	3.5	6.9	17.3	55.5	69.3	90.1	121.3	159.4
67.5°	0.0	0.0	3.5	6.9	10.4	20.8	31.2	55.5	69.3	107.4
70°	0.0	0.0	3.5	6.9	10.4	13.9	17.3	24.3	41.6	65.9
72.5°	0.0	0.0	3.5	6.9	10.4	13.9	17.3	20.8	20.8	41.6
75°	0.0	0.0	3.5	6.9	10.4	17.3	20.8	20.8	17.3	17.3
77.5°	0.0	0.0	3.5	6.9	13.9	20.8	24.3	20.8	13.9	13.9
80°	0.0	0.0	6.9	10.4	17.3	24.3	31.2	24.3	13.9	6.9
82.5°	0.0	0.0	6.9	13.9	17.3	27.7	38.1	31.2	13.9	6.9
85°	0.0	0.0	3.5	10.4	20.8	27.7	38.1	27.7	13.9	3.5
87.5°	0.0	0.0	3.5	3.5	6.9	10.4	20.8	17.3	6.9	3.5
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°
<b>108750.6</b>	0°	<b>108750.6</b>	<b>108750.6</b>	<b>108750.6</b>	<b>108750.6</b>	<b>108750.6</b>	<b>108750.6</b>	<b>108750.6</b>	<b>108750.6</b>	<b>108750.6</b>
106147.6	2.5°	106757.6	107312.2	107426.6	107274.1	107495.9	107097.3	106792.3	106002.0	105527.2
99416.5	5°	100057.8	99974.6	100553.4	100744.0	100719.8	100414.8	99988.4	99510.1	99045.7
89032.3	7.5°	89586.8	89694.3	90221.1	90557.3	90387.5	90006.2	89711.6	89351.1	89039.2
77739.9	10°	78450.4	77712.2	78367.3	78367.3	78821.3	77743.4	77843.9	76935.8	76977.4
64763.0	12.5°	64984.9	65251.7	65359.2	65667.7	65137.4	64565.5	63865.3	63726.7	63293.4
48403.3	15°	49100.0	49862.5	49207.4	50327.0	49786.3	49190.1	49082.6	48008.2	48347.8
35107.6	17.5°	34934.3	35776.5	36039.9	36681.1	36189.0	35835.4	35388.3	35062.5	35038.2
24577.7	20°	24771.8	25617.5	25811.6	26581.1	26525.6	26414.7	26036.9	25624.5	25177.3
16730.6	22.5°	16983.6	17673.4	18318.0	19354.4	19337.1	19011.3	18973.1	18390.8	18401.2
11302.8	25°	11420.6	11923.2	12075.7	13136.3	13254.2	13219.5	13021.9	12481.2	12685.7
6904.4	27.5°	6911.3	7351.5	7867.9	8242.3	8595.8	8540.3	8342.8	8041.2	7909.5
4148.9	30°	4259.8	4457.3	4648.0	5098.6	5310.0	5420.9	5327.3	5046.6	5067.4
2731.2	32.5°	2790.2	2956.5	3095.2	3379.4	3490.3	3694.8	3656.7	3597.8	3528.4
1965.2	35°	2034.6	2155.9	2249.5	2381.2	2523.3	2696.6	2724.3	2700.0	2672.3
1518.1	37.5°	1552.8	1677.6	1785.0	1840.5	1951.4	2086.6	2162.8	2159.3	2138.5
1237.4	40°	1261.6	1355.2	1452.3	1525.1	1601.3	1701.8	1795.4	1805.8	1805.8
1039.8	42.5°	1053.7	1133.4	1230.4	1306.7	1362.2	1455.7	1552.8	1559.7	1552.8
880.4	45°	901.2	970.5	1064.1	1154.2	1199.3	1268.6	1362.2	1383.0	1369.1
755.6	47.5°	783.3	845.7	925.4	1022.5	1071.0	1133.4	1220.0	1244.3	1240.8
651.6	50°	672.4	745.2	824.9	904.6	967.0	1025.9	1109.1	1136.9	1126.5
554.6	52.5°	592.7	658.5	727.9	814.5	887.3	939.3	1005.2	1053.7	1039.8
467.9	55°	495.6	575.4	648.2	720.9	811.1	866.5	928.9	987.8	974.0
395.1	57.5°	429.8	495.6	578.8	644.7	734.8	800.7	863.0	925.4	922.0
322.3	60°	360.5	429.8	509.5	578.8	662.0	734.8	797.2	866.5	873.4
242.6	62.5°	284.2	367.4	436.7	516.4	599.6	679.3	734.8	804.1	814.5
183.7	65°	214.9	301.5	377.8	454.1	537.2	623.9	672.4	731.3	741.7
135.2	67.5°	159.4	232.2	322.3	391.7	478.3	561.5	606.6	655.1	672.4
83.2	70°	121.3	176.8	270.4	336.2	426.3	492.2	540.7	582.3	596.2
55.5	72.5°	76.3	138.6	218.4	287.7	367.4	426.3	461.0	485.2	506.0
31.2	75°	52.0	107.4	176.8	246.1	305.0	350.1	381.3	402.1	419.4
13.9	77.5°	31.2	83.2	145.6	204.5	242.6	277.3	308.5	322.3	332.7
10.4	80°	17.3	62.4	121.3	166.4	190.6	214.9	239.2	256.5	263.4
6.9	82.5°	10.4	48.5	97.0	128.2	138.6	162.9	187.2	197.6	197.6
3.5	85°	6.9	34.7	65.9	93.6	100.5	117.8	124.8	131.7	138.6
3.5	87.5°	6.9	20.8	41.6	52.0	55.5	62.4	65.9	72.8	79.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
108750.6  
105177.1  
98525.8  
87982.1  
76571.8  
62898.3  
48008.2  
34393.6  
24983.2  
18200.2  
12363.4  
7795.1  
4977.2  
3504.2  
2661.9  
2128.2  
1785.0  
1545.9  
1369.1  
1233.9  
1119.5  
1036.3  
980.9  
925.4  
876.9  
821.5  
752.1  
679.3  
603.1  
502.6  
415.9  
329.3  
256.5  
194.1  
135.2  
76.3  
0.0

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