

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: P637055

Luminaire Tested: **IFLD-L-SA8D-727-U-33-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637055  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8D-727-U-33-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor  
Light Source: (128) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 46364.4 lumens  
Efficiency: N/A  
Efficacy: 95.0 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

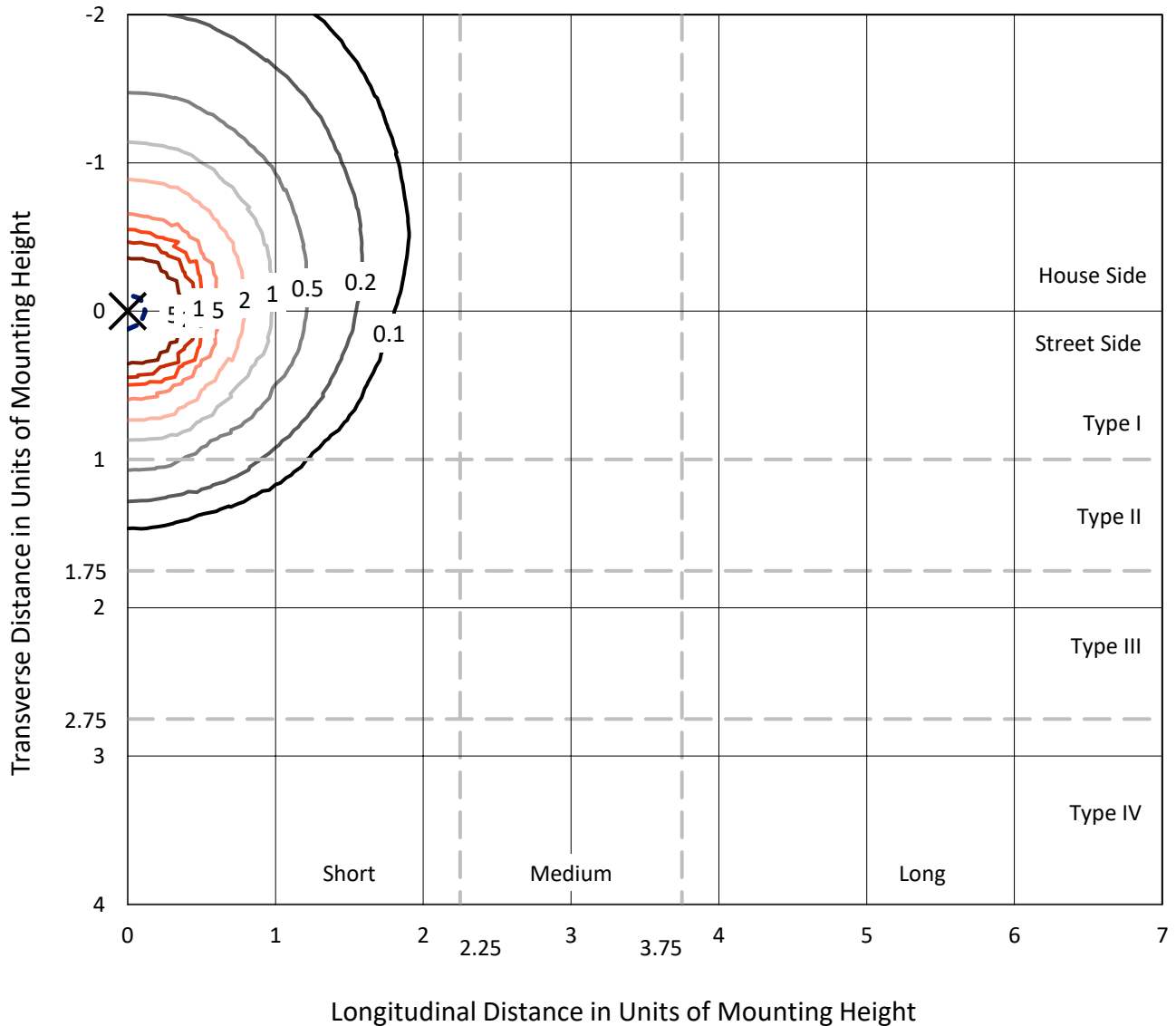
Input Watts (W): 488.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

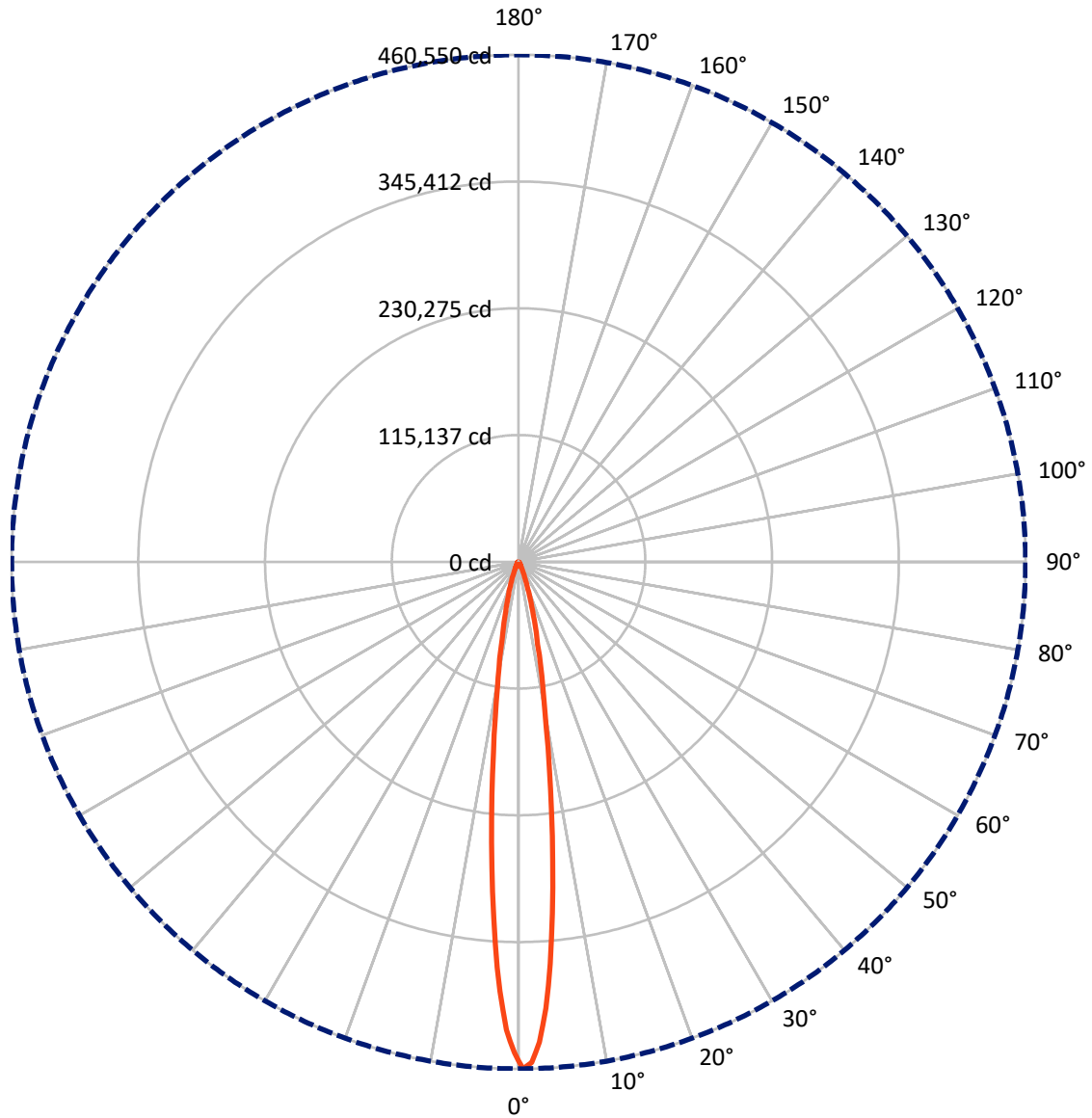
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 1151.4 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	23747.0	0.0	23747.0
	% Fixture	51.2	0.0	51.2
<b>Street Side</b>	Lumens	22617.4	0.0	22617.4
	% Fixture	48.8	0.0	48.8
<b>Total</b>	Lumens	46364.4	0.0	46364.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	23406.2	50.5
10°-20°	14984.5	32.3
20°-30°	4504.1	9.7
30°-40°	1466.5	3.2
40°-50°	853.3	1.8
50°-60°	566.8	1.2
60°-70°	341.1	0.7
70°-80°	175.3	0.4
80°-90°	66.6	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°	46364.4	100.0
0°-180°	46364.4	100.0

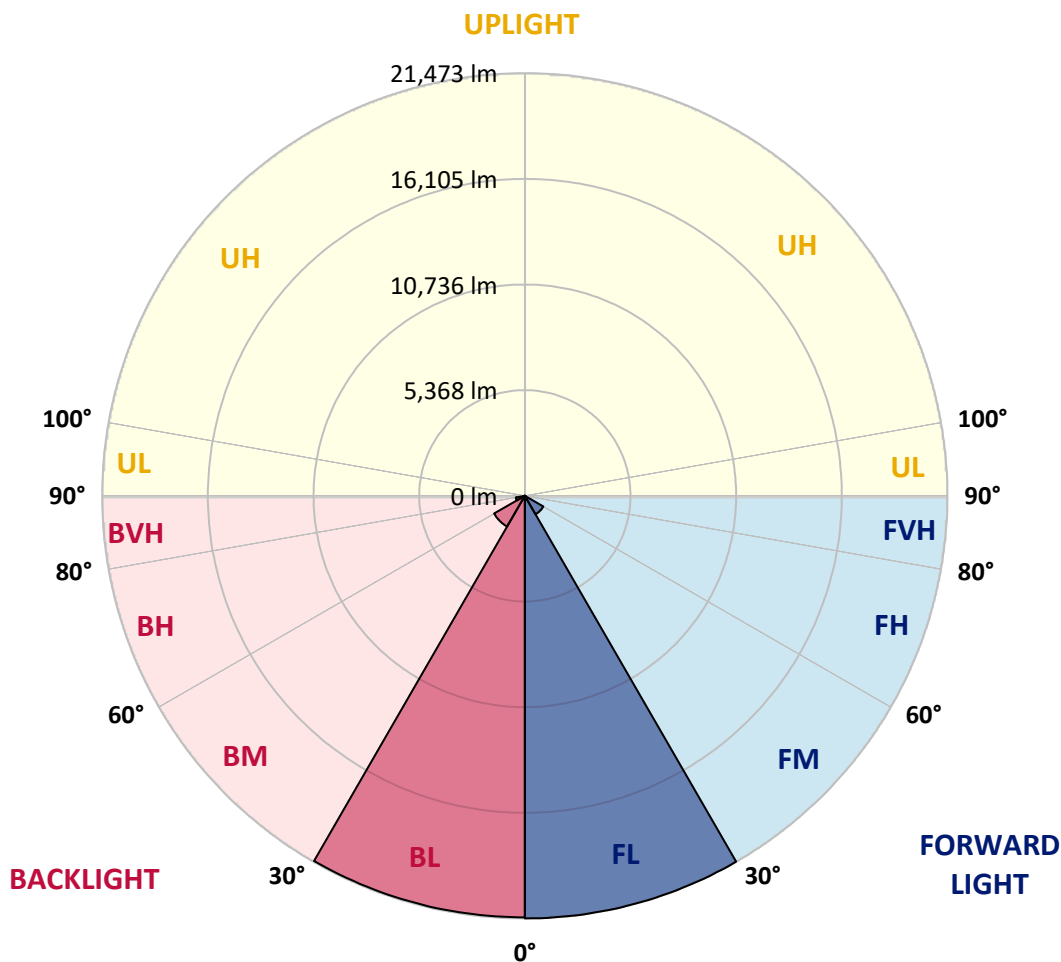


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	21472.8	46.3			
FM (30°-60°)	1083.6	2.3			
FH (60°-80°)	51.0	0.1			G0/660
FVH (80°-90°)	10.0	0.0			G1/100
BL (0°-30°)	21421.9	46.2	B5		
BM (30°-60°)	1803.0	3.9	B2/2500		
BH (60°-80°)	465.5	1.0	B1/500		G0/660
BVH (80°-90°)	56.6	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°	460549.7	460549.7	460549.7	460549.7	460549.7	460549.7	460549.7	460549.7	460549.7	460549.7
1°	455035.3	453646.6	450061.2	452611.4	454853.5	454202.1	454156.6	453914.2	453575.9	456232.1
2°	436845.8	435946.9	430644.6	432831.2	436017.6	433694.7	435149.0	433871.4	433896.7	437068.0
3°	406183.2	406673.0	398214.6	402188.8	406617.5	400986.9	402734.2	406016.6	402577.6	401542.4
4°	366329.9	362078.0	357457.4	361497.3	362643.6	359366.2	362588.0	366607.7	361830.5	362042.6
5°	320831.0	317690.0	312221.0	314715.6	311872.6	312907.8	317735.4	319391.8	316058.9	311862.5
6°	274049.3	271817.3	264979.8	268575.3	267565.3	266979.6	273074.7	268024.9	269842.8	267302.7
7°	227954.5	223783.3	220425.2	223869.1	224091.3	222328.9	230242.0	229323.0	226015.3	225247.7
8°	188863.7	184702.6	181859.6	184424.9	186101.4	183334.1	187055.9	189500.0	186914.5	187146.8
9°	152328.2	151595.9	147641.9	150995.0	152818.0	149853.8	153974.4	154858.1	152439.3	153615.9
10°	125074.2	124220.8	121064.7	122423.1	125442.9	121908.0	125862.0	126149.8	124220.8	124771.2
12.5°	77292.7	76949.3	76863.5	77060.4	77020.0	77646.2	78656.2	77504.8	77353.3	75449.5
15°	49958.0	50468.0	49942.8	50952.8	51099.2	51690.1	51074.0	50144.8	48372.3	47493.7
17.5°	31177.7	31829.1	32728.0	34207.6	35687.2	35858.9	35040.8	33950.0	33091.5	32152.3
20°	17937.0	18255.1	18118.8	19891.3	23719.1	24759.3	23703.9	22557.6	21522.4	20573.0
22.5°	11145.0	11028.8	11240.9	11836.8	13084.1	16300.9	15437.3	14291.0	13538.6	12755.9
25°	6832.4	6958.7	6877.9	7206.1	7766.6	9130.1	9327.0	8832.2	8448.4	8044.4
27.5°	4398.4	4398.4	4433.8	4615.5	4999.3	4953.9	6004.2	5620.5	5413.4	5216.5
30°	3055.1	3065.2	3065.2	3171.3	3257.1	3105.6	3378.3	3873.2	3777.3	3625.8
32.5°	2267.4	2297.7	2322.9	2378.5	2307.8	2146.2	2211.8	2787.5	2732.0	2676.4
35°	1727.0	1752.3	1812.9	1843.2	1742.2	1641.2	1580.6	2050.2	2075.5	2060.3
37.5°	1257.4	1272.6	1383.7	1499.8	1383.7	1292.8	1257.4	1575.5	1696.7	1681.6
40°	964.5	969.6	989.8	1121.1	1121.1	1050.4	1060.5	1176.6	1388.7	1388.7
42.5°	828.2	828.2	848.4	828.2	833.2	909.0	934.2	949.4	1176.6	1176.6
45°	717.1	717.1	727.2	676.7	626.2	782.7	802.9	808.0	989.8	1015.0
47.5°	600.9	600.9	621.1	555.5	530.2	621.1	676.7	691.8	853.4	873.6
50°	444.4	449.4	510.0	454.5	469.6	479.7	585.8	595.9	722.1	767.6
52.5°	297.9	297.9	308.0	353.5	409.0	393.9	474.7	510.0	575.7	636.3
55°	242.4	242.4	237.3	227.2	303.0	328.2	348.4	424.2	469.6	545.4
57.5°	166.6	176.7	161.6	186.8	196.9	247.4	262.6	333.3	358.5	459.5
60°	20.2	25.2	35.3	136.3	131.3	166.6	196.9	262.6	292.9	353.5
62.5°	5.0	5.0	10.1	25.2	90.9	111.1	156.5	181.8	212.1	272.7
65°	0.0	0.0	5.0	10.1	20.2	60.6	80.8	106.0	151.5	191.9
67.5°	0.0	0.0	5.0	10.1	10.1	25.2	40.4	65.6	80.8	141.4
70°	0.0	0.0	5.0	10.1	10.1	20.2	25.2	30.3	55.5	75.7
72.5°	0.0	0.0	5.0	10.1	15.1	20.2	25.2	25.2	25.2	50.5
75°	0.0	0.0	5.0	10.1	15.1	20.2	25.2	25.2	20.2	20.2
77.5°	0.0	0.0	5.0	10.1	20.2	25.2	30.3	25.2	15.1	15.1
80°	0.0	0.0	5.0	15.1	25.2	35.3	40.4	30.3	15.1	10.1
82.5°	0.0	0.0	10.1	20.2	30.3	40.4	55.5	45.4	20.2	10.1
85°	0.0	0.0	5.0	15.1	30.3	40.4	80.8	55.5	25.2	5.0
87.5°	0.0	0.0	0.0	5.0	5.0	10.1	30.3	20.2	10.1	5.0
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°
460549.7	0°	460549.7	460549.7	460549.7	460549.7	460549.7	460549.7	460549.7	460549.7
453166.8	1°	456333.1	456651.2	455611.0	457221.9	456656.3	453343.6	452247.8	450950.0
435204.6	2°	433871.4	435492.4	435573.2	437360.9	437335.6	433472.5	432275.7	434482.5
403643.1	3°	402421.1	404309.7	402607.9	405784.3	404829.9	400143.6	398926.6	401431.3
363719.2	4°	362633.5	362274.9	361689.1	359881.3	362108.3	358911.7	356503.0	359901.5
317427.4	5°	316791.1	315993.2	314852.0	314316.7	315973.0	313927.8	308974.0	313937.9
271898.1	6°	272231.4	268797.5	268630.8	268332.9	268499.6	262773.0	263116.4	266812.9
222606.7	7°	224959.9	225591.1	224303.4	226368.8	224793.3	220915.0	219420.2	223313.7
188166.8	8°	186853.9	186056.0	185071.3	188156.7	185424.8	182879.7	181137.5	184212.8
153807.8	9°	153519.9	152141.3	151141.5	150984.9	151409.1	146632.0	147601.5	149929.5
125074.2	10°	125119.7	122857.4	123407.8	123554.2	123089.6	119958.8	119989.1	120792.0
76712.0	12.5°	76439.3	75328.3	75606.1	75757.6	76701.9	75601.0	74045.7	72924.6
48367.3	15°	48044.1	47246.2	48877.3	49973.1	49750.9	48771.3	48039.0	47024.0
32152.3	17.5°	31854.3	32899.7	32904.7	33904.6	34005.6	33025.9	32460.3	31546.3
20911.4	20°	20835.6	21269.9	22173.8	22880.8	23289.8	22542.4	21865.8	21239.6
13038.7	22.5°	13038.7	13796.1	14361.7	15280.8	15654.5	15109.1	14629.4	14119.3
8140.3	25°	8004.0	8544.3	9013.9	9811.8	10321.9	10059.3	9619.9	9261.4
5256.9	27.5°	5337.7	5564.9	5797.2	6347.6	6877.9	6731.4	6554.7	6337.5
3706.6	30°	3762.1	3782.3	4029.8	4337.8	4691.3	4782.2	4701.4	4590.3
2721.9	32.5°	2772.4	2853.2	2969.3	3161.2	3398.5	3615.7	3575.3	3524.8
2080.5	35°	2141.1	2262.3	2358.3	2504.7	2631.0	2838.0	2873.4	2858.2
1711.9	37.5°	1747.2	1853.3	1949.2	2035.1	2141.1	2282.5	2393.6	2398.7
1414.0	40°	1449.3	1545.2	1671.5	1737.1	1812.9	1918.9	2055.3	2065.4
1196.8	42.5°	1222.1	1313.0	1439.2	1520.0	1575.5	1676.5	1812.9	1833.1
1025.1	45°	1050.4	1105.9	1237.2	1333.2	1388.7	1454.4	1600.8	1621.0
883.7	47.5°	914.0	969.6	1050.4	1186.7	1237.2	1297.8	1414.0	1449.3
782.7	50°	802.9	858.5	929.2	1050.4	1126.1	1176.6	1272.6	1323.1
681.7	52.5°	712.0	767.6	843.3	939.3	1025.1	1070.6	1161.5	1227.1
555.5	55°	595.9	691.8	747.4	833.2	949.4	989.8	1060.5	1146.3
484.8	57.5°	520.1	600.9	681.7	752.4	868.6	919.1	989.8	1070.6
383.8	60°	439.3	515.1	611.0	671.6	782.7	848.4	924.1	999.9
292.9	62.5°	348.4	449.4	515.1	600.9	707.0	792.8	853.4	929.2
227.2	65°	257.5	368.6	444.4	535.3	636.3	727.2	777.7	858.5
161.6	67.5°	186.8	287.8	378.7	464.6	560.5	651.4	701.9	772.6
101.0	70°	146.4	212.1	313.1	388.8	489.8	565.6	621.1	666.6
65.6	72.5°	85.8	161.6	252.5	338.3	429.2	479.7	520.1	560.5
30.3	75°	55.5	126.2	207.0	282.8	348.4	393.9	429.2	464.6
15.1	77.5°	35.3	90.9	166.6	237.3	267.6	323.2	353.5	373.7
10.1	80°	20.2	70.7	146.4	191.9	217.1	252.5	282.8	308.0
10.1	82.5°	15.1	60.6	121.2	161.6	161.6	202.0	217.1	217.1
5.0	85°	10.1	50.5	95.9	151.5	121.2	151.5	141.4	141.4
5.0	87.5°	10.1	35.3	45.4	65.6	55.5	65.6	65.6	75.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
460549.7  
445809.2  
425135.2  
390306.5  
347600.1  
300858.9  
256097.2  
212724.2  
175431.2  
142657.7  
115328.1  
72242.9  
46503.9  
31319.1  
21022.4  
13846.6  
9054.3  
6211.3  
4514.5  
3484.4  
2807.7  
2363.3  
2050.2  
1817.9  
1615.9  
1454.4  
1328.1  
1227.1  
1151.4  
1075.6  
1020.1  
964.5  
873.6  
777.7  
681.7  
570.6  
464.6  
363.6  
277.7  
202.0  
136.3  
75.7  
0.0

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