

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: P637141

Luminaire Tested: **IFLD-L-SA8C-740-U-33-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637141  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8C-740-U-33-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor  
Light Source: (128) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 50384.4 lumens  
Efficiency: N/A  
Efficacy: 119.9 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

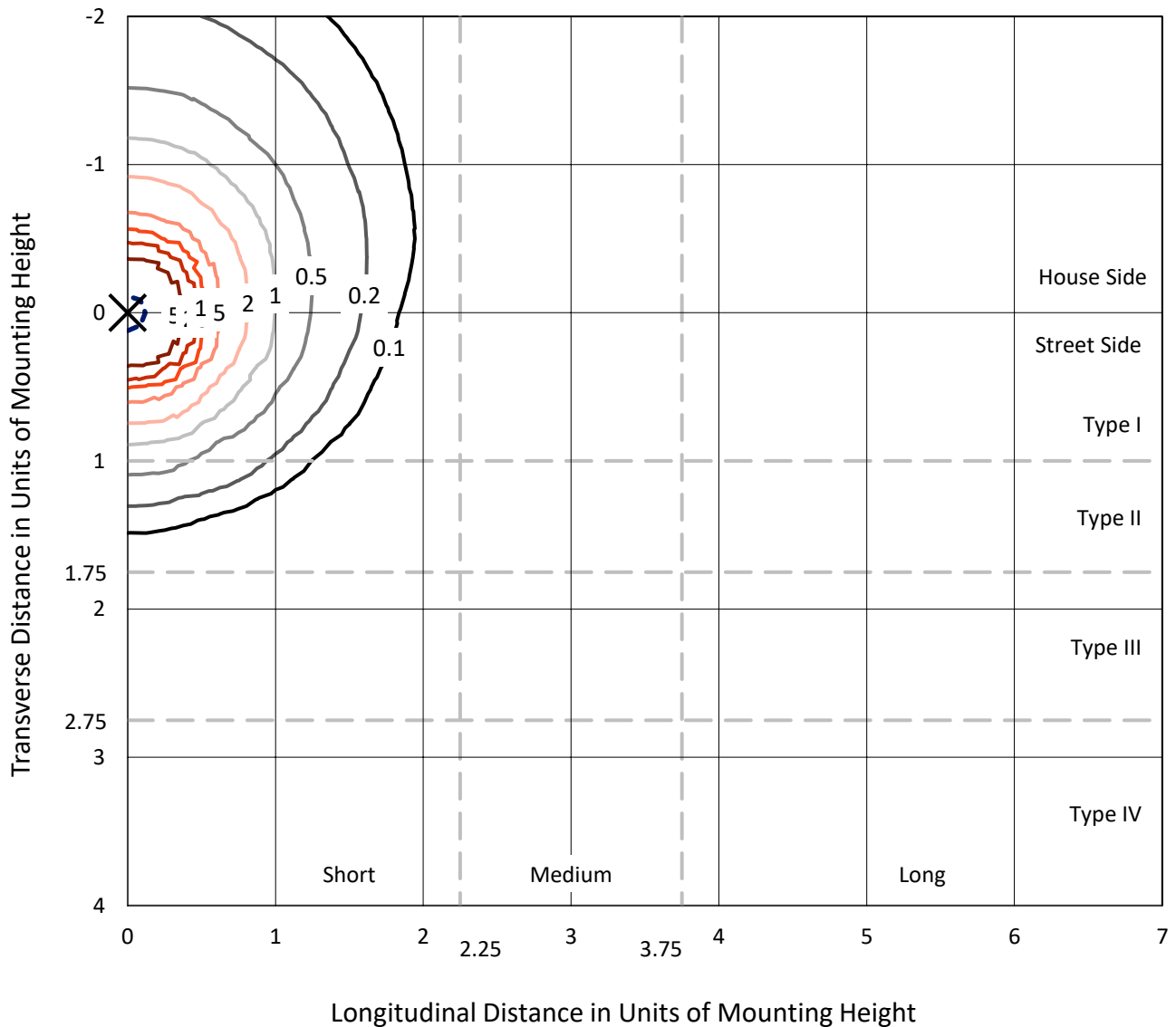
Input Watts (W): 420.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

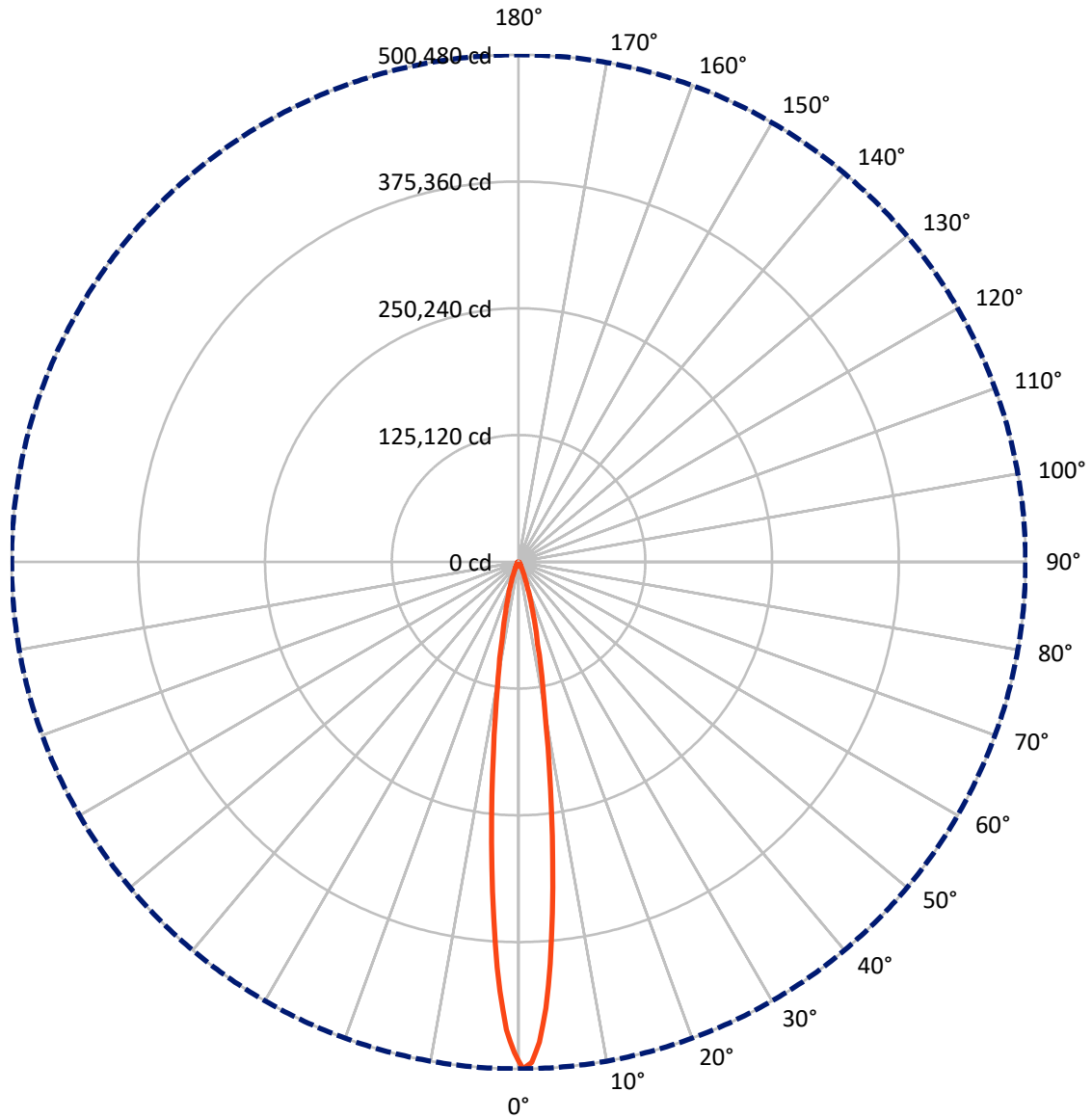
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 1251.2 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	25806.0	0.0	25806.0
	% Fixture	51.2	0.0	51.2
<b>Street Side</b>	Lumens	24578.4	0.0	24578.4
	% Fixture	48.8	0.0	48.8
<b>Total</b>	Lumens	50384.4	0.0	50384.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	25435.6	50.5
10°-20°	16283.7	32.3
20°-30°	4894.6	9.7
30°-40°	1593.7	3.2
40°-50°	927.3	1.8
50°-60°	615.9	1.2
60°-70°	370.7	0.7
70°-80°	190.6	0.4
80°-90°	72.4	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°	50384.4	100.0
0°-180°	50384.4	100.0

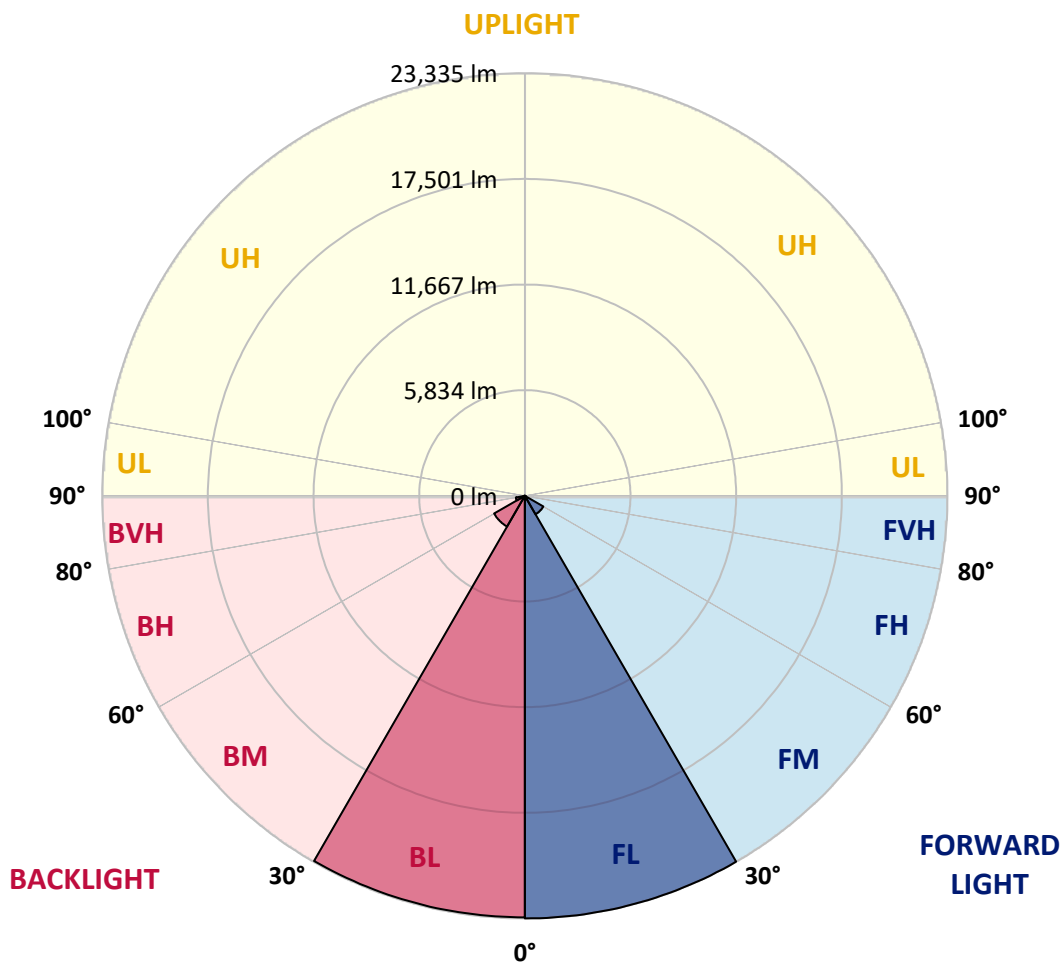


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	23334.6	46.3			
FM (30°-60°)	1177.5	2.3			
FH (60°-80°)	55.4	0.1			G0/660
FVH (80°-90°)	10.9	0.0			G1/100
BL (0°-30°)	23279.3	46.2	B5		
BM (30°-60°)	1959.3	3.9	B2/2500		
BH (60°-80°)	505.9	1.0	B2/1000		G0/660
BVH (80°-90°)	61.5	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°	500480.4	500480.4	500480.4	500480.4	500480.4	500480.4	500480.4	500480.4	500480.4	500480.4
1°	494487.9	492978.8	489082.6	491853.8	494290.3	493582.4	493533.1	493269.6	492902.0	495788.5
2°	474721.3	473744.5	467982.5	470358.6	473821.4	471297.0	472877.5	471489.1	471516.5	474962.8
3°	441400.2	441932.5	432740.7	437059.5	441872.2	435753.4	437652.2	441219.2	437482.1	436357.1
4°	398091.6	393471.0	388449.8	392839.9	394085.6	390524.1	394025.2	398393.4	393202.1	393432.6
5°	348647.7	345234.4	339291.3	342002.2	338912.6	340037.6	345283.8	347083.8	343461.9	338901.7
6°	297810.0	295384.5	287954.2	291861.4	290763.9	290127.3	296750.9	291263.2	293238.8	290478.5
7°	247718.6	243185.8	239536.5	243279.1	243520.6	241605.4	250204.5	249205.8	245611.4	244777.2
8°	205238.6	200716.8	197627.2	200415.0	202236.9	199229.6	203274.0	205930.1	203120.4	203372.8
9°	165535.4	164739.7	160442.8	164086.6	166067.7	162846.4	167324.4	168284.7	165656.1	166934.7
10°	135918.5	134991.0	131561.3	133037.4	136319.1	132477.7	136774.5	137087.3	134991.0	135589.2
12.5°	83994.2	83621.0	83527.7	83741.8	83697.8	84378.3	85475.9	84224.7	84060.0	81991.2
15°	54289.5	54843.7	54273.0	55370.5	55529.7	56171.7	55502.2	54492.5	52566.3	51611.5
17.5°	33880.8	34588.7	35565.5	37173.4	38781.3	38967.9	38078.9	36893.6	35960.7	34940.0
20°	19492.2	19837.9	19689.7	21615.9	25775.6	26906.0	25759.1	24513.4	23388.4	22356.7
22.5°	12111.3	11985.1	12215.5	12863.1	14218.5	17714.2	16775.8	15530.1	14712.4	13861.8
25°	7424.8	7562.0	7474.2	7830.9	8440.0	9921.7	10135.7	9597.9	9180.9	8741.8
27.5°	4779.8	4779.8	4818.2	5015.7	5432.8	5383.4	6524.8	6107.8	5882.8	5668.8
30°	3320.0	3331.0	3331.0	3446.3	3539.5	3374.9	3671.2	4209.0	4104.8	3940.1
32.5°	2464.0	2496.9	2524.3	2584.7	2507.9	2332.3	2403.6	3029.2	2968.8	2908.5
35°	1876.8	1904.2	1970.1	2003.0	1893.2	1783.5	1717.6	2228.0	2255.4	2239.0
37.5°	1366.4	1382.9	1503.6	1629.8	1503.6	1404.8	1366.4	1712.2	1843.9	1827.4
40°	1048.1	1053.6	1075.6	1218.3	1218.3	1141.4	1152.4	1278.6	1509.1	1509.1
42.5°	900.0	900.0	921.9	900.0	905.5	987.8	1015.2	1031.7	1278.6	1278.6
45°	779.2	779.2	790.2	735.3	680.5	850.6	872.5	878.0	1075.6	1103.0
47.5°	653.0	653.0	675.0	603.6	576.2	675.0	735.3	751.8	927.4	949.4
50°	482.9	488.4	554.3	493.9	510.4	521.3	636.6	647.5	784.7	834.1
52.5°	323.8	323.8	334.7	384.1	444.5	428.0	515.8	554.3	625.6	691.4
55°	263.4	263.4	257.9	246.9	329.3	356.7	378.6	461.0	510.4	592.7
57.5°	181.1	192.1	175.6	203.0	214.0	268.9	285.4	362.2	389.6	499.4
60°	22.0	27.4	38.4	148.2	142.7	181.1	214.0	285.4	318.3	384.1
62.5°	5.5	5.5	11.0	27.4	98.8	120.7	170.1	197.6	230.5	296.3
65°	0.0	0.0	5.5	11.0	22.0	65.9	87.8	115.2	164.6	208.5
67.5°	0.0	0.0	5.5	11.0	11.0	27.4	43.9	71.3	87.8	153.7
70°	0.0	0.0	5.5	11.0	11.0	22.0	27.4	32.9	60.4	82.3
72.5°	0.0	0.0	5.5	11.0	16.5	22.0	27.4	27.4	27.4	54.9
75°	0.0	0.0	5.5	11.0	16.5	22.0	27.4	27.4	22.0	22.0
77.5°	0.0	0.0	5.5	11.0	22.0	27.4	32.9	27.4	16.5	16.5
80°	0.0	0.0	5.5	16.5	27.4	38.4	43.9	32.9	16.5	11.0
82.5°	0.0	0.0	11.0	22.0	32.9	43.9	60.4	49.4	22.0	11.0
85°	0.0	0.0	5.5	16.5	32.9	43.9	87.8	60.4	27.4	5.5
87.5°	0.0	0.0	0.0	5.5	5.5	11.0	32.9	22.0	11.0	5.5
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°
500480.4	0°	500480.4	500480.4	500480.4	500480.4	500480.4	500480.4	500480.4	500480.4
492457.5	1°	495898.2	496244.0	495113.5	496864.1	496249.4	492649.5	491458.7	490048.4
472937.8	2°	471489.1	473250.6	473338.4	475281.1	475253.6	471055.6	469755.0	472153.1
438639.9	3°	437311.9	439364.3	437515.0	440966.7	439929.6	434837.0	433514.5	436236.4
395254.5	4°	394074.6	393685.0	393048.4	391083.9	393503.9	390030.2	387412.6	391105.8
344949.1	5°	344257.6	343390.6	342150.4	341568.7	343368.6	341146.1	335762.7	341157.1
295472.3	6°	295834.5	292102.9	291921.8	291598.0	291779.1	285556.1	285929.2	289946.2
241907.2	7°	244464.5	245150.4	243751.1	245995.5	244283.4	240068.8	238444.5	242675.5
204481.3	8°	203054.5	202187.5	201117.4	204470.4	201501.5	198735.7	196842.5	200184.5
167143.3	9°	166830.5	165332.3	164245.8	164075.7	164536.6	159345.3	160398.9	162928.7
135918.5	10°	135967.8	133509.4	134107.5	134266.7	133761.8	130359.5	130392.4	131264.9
83363.1	12.5°	83066.8	81859.5	82161.3	82325.9	83352.1	82155.8	80465.6	79247.4
52560.8	15°	52209.6	51342.6	53115.1	54305.9	54064.5	52999.9	52204.1	51101.1
34940.0	17.5°	34616.2	35752.1	35757.6	36844.2	36953.9	35889.3	35274.7	34281.4
22724.4	20°	22642.1	23114.0	24096.3	24864.6	25309.1	24496.9	23761.6	23081.1
14169.1	22.5°	14169.1	14992.3	15606.9	16605.7	17011.8	16419.1	15897.8	15343.5
8846.1	25°	8697.9	9285.1	9795.5	10662.5	11216.8	10931.4	10454.0	10064.4
5712.7	27.5°	5800.5	6047.4	6299.8	6898.0	7474.2	7315.1	7123.0	6887.0
4027.9	30°	4088.3	4110.3	4379.2	4713.9	5098.0	5196.8	5109.0	4988.3
2957.9	32.5°	3012.7	3100.5	3226.7	3435.3	3693.2	3929.2	3885.3	3830.4
2260.9	35°	2326.8	2458.5	2562.7	2721.9	2859.1	3084.1	3122.5	3106.0
1860.3	37.5°	1898.7	2014.0	2118.2	2211.5	2326.8	2480.4	2601.2	2606.6
1536.5	40°	1575.0	1679.2	1816.4	1887.8	1970.1	2085.3	2233.5	2244.5
1300.6	42.5°	1328.0	1426.8	1564.0	1651.8	1712.2	1821.9	1970.1	1992.0
1114.0	45°	1141.4	1201.8	1344.5	1448.7	1509.1	1580.4	1739.6	1761.5
960.3	47.5°	993.3	1053.6	1141.4	1289.6	1344.5	1410.3	1536.5	1575.0
850.6	50°	872.5	932.9	1009.7	1141.4	1223.7	1278.6	1382.9	1437.8
740.8	52.5°	773.8	834.1	916.4	1020.7	1114.0	1163.4	1262.2	1333.5
603.6	55°	647.5	751.8	812.2	905.5	1031.7	1075.6	1152.4	1245.7
526.8	57.5°	565.2	653.0	740.8	817.7	943.9	998.8	1075.6	1163.4
417.1	60°	477.4	559.7	664.0	729.9	850.6	921.9	1004.2	1086.6
318.3	62.5°	378.6	488.4	559.7	653.0	768.3	861.6	927.4	1009.7
246.9	65°	279.9	400.6	482.9	581.7	691.4	790.2	845.1	932.9
175.6	67.5°	203.0	312.8	411.6	504.9	609.1	707.9	762.8	839.6
109.8	70°	159.1	230.5	340.2	422.6	532.3	614.6	675.0	724.4
71.3	72.5°	93.3	175.6	274.4	367.7	466.5	521.3	565.2	609.1
32.9	75°	60.4	137.2	225.0	307.3	378.6	428.0	466.5	504.9
16.5	77.5°	38.4	98.8	181.1	257.9	290.8	351.2	384.1	406.1
11.0	80°	22.0	76.8	159.1	208.5	236.0	274.4	307.3	334.7
11.0	82.5°	16.5	65.9	131.7	175.6	175.6	219.5	236.0	236.0
5.5	85°	11.0	54.9	104.3	164.6	131.7	164.6	153.7	153.7
5.5	87.5°	11.0	38.4	49.4	71.3	60.4	71.3	71.3	82.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
500480.4  
484461.9  
461995.4  
424147.0  
377737.9  
326944.0  
278301.4  
231167.8  
190641.4  
155026.5  
125327.3  
78506.5  
50535.9  
34034.5  
22845.1  
15047.2  
9839.4  
6749.8  
4906.0  
3786.5  
3051.1  
2568.2  
2228.0  
1975.6  
1756.1  
1580.4  
1443.3  
1333.5  
1251.2  
1168.9  
1108.5  
1048.1  
949.4  
845.1  
740.8  
620.1  
504.9  
395.1  
301.8  
219.5  
148.2  
82.3  
0.0

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