

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: P637392

Luminaire Tested: **IFLD-M-SA4C-740-U-44-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637392  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4C-740-U-44-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor  
Light Source: (64) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27421.9 lumens  
Efficiency: N/A  
Efficacy: 125.7 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

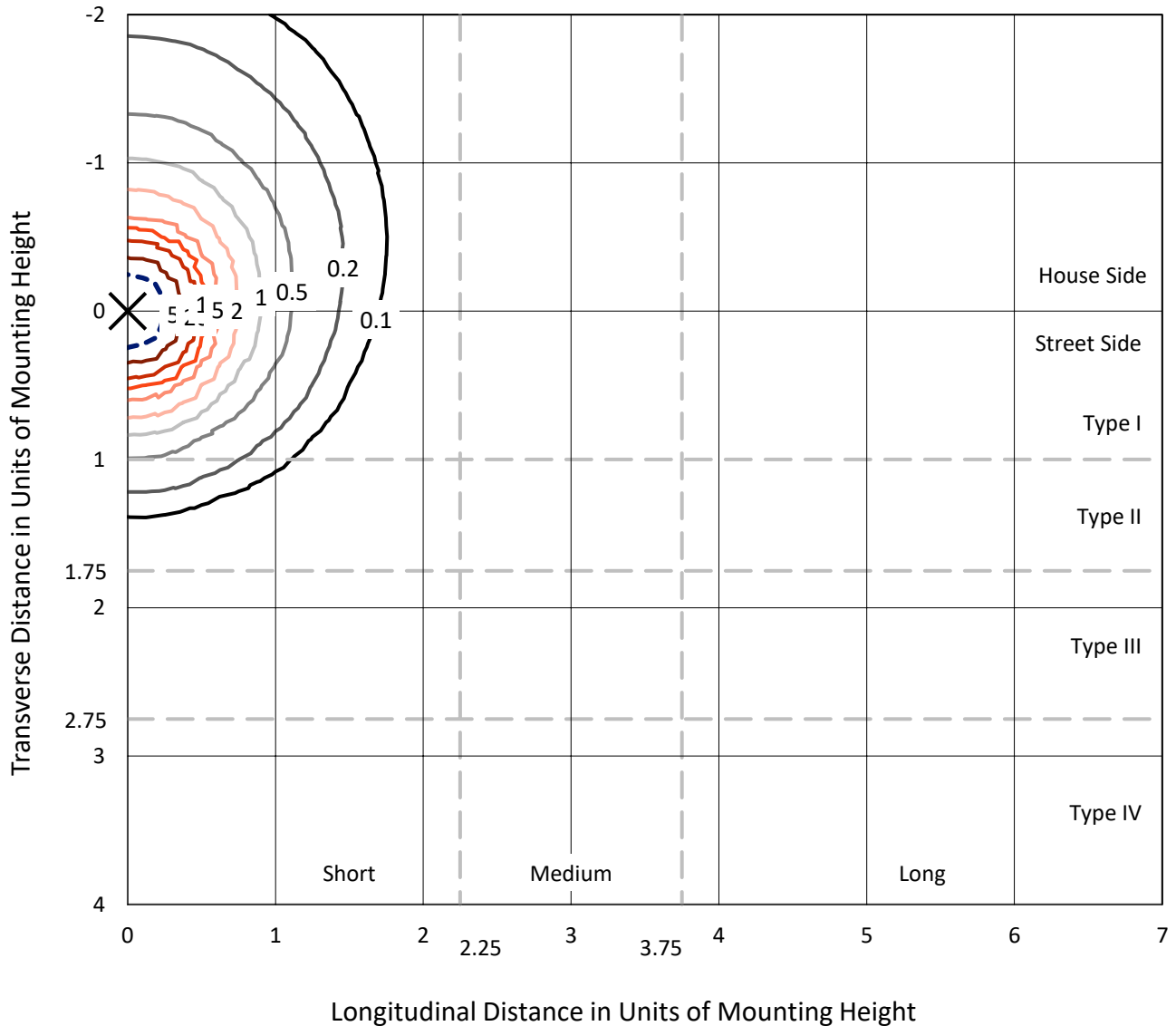
Input Watts (W): 218.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

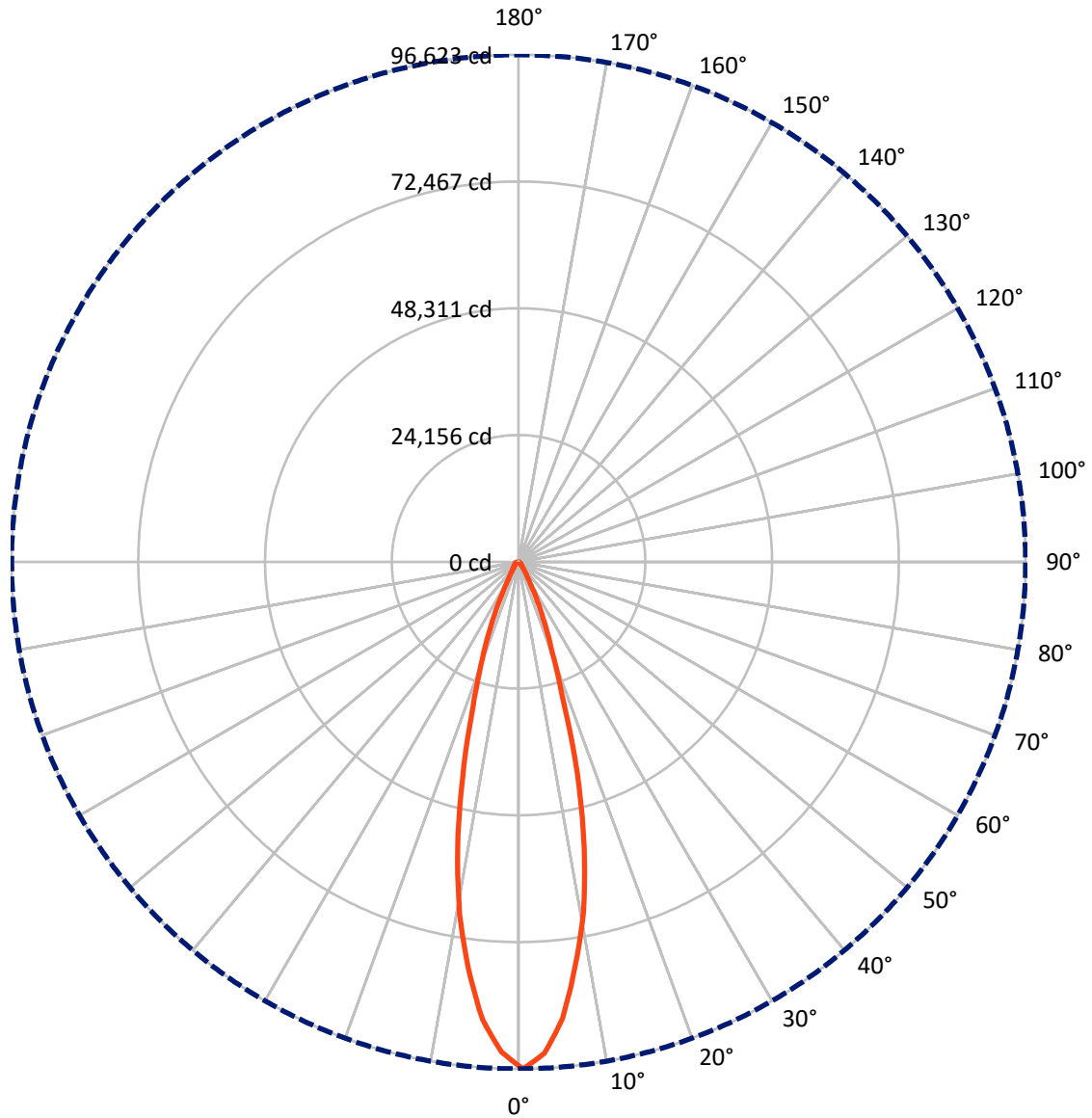
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 241.6 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	14458.7	0.0	14458.7
	% Fixture	52.7	0.0	52.7
<b>Street Side</b>	Lumens	12963.2	0.0	12963.2
	% Fixture	47.3	0.0	47.3
<b>Total</b>	Lumens	27421.9	0.0	27421.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	7798.3	28.4
10°-20°	11810.5	43.1
20°-30°	4984.1	18.2
30°-40°	1299.9	4.7
40°-50°	657.5	2.4
50°-60°	429.7	1.6
60°-70°	257.5	0.9
70°-80°	135.4	0.5
80°-90°	48.9	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°	27421.9	100.0
0°-180°	27421.9	100.0

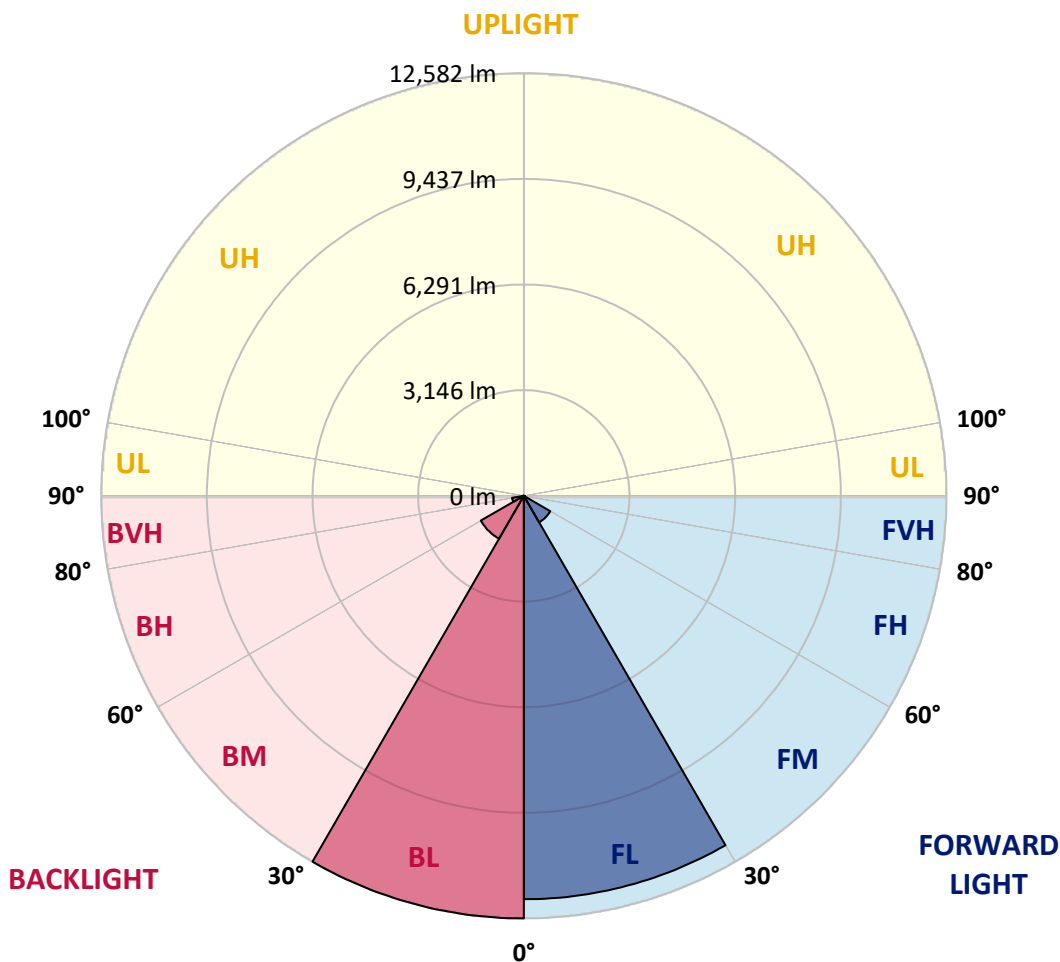


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	12010.6	43.8			
FM (30°-60°)	909.6	3.3			
FH (60°-80°)	37.1	0.1			G0/660
FVH (80°-90°)	5.9	0.0			G0/10
BL (0°-30°)	12582.3	45.9	B5		
BM (30°-60°)	1477.5	5.4	B2/2500		
BH (60°-80°)	355.8	1.3	B1/500		G0/660
BVH (80°-90°)	43.0	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°	96622.8	96622.8	96622.8	96622.8	96622.8	96622.8	96622.8	96622.8	96622.8	96622.8
2.5°	93808.1	93860.5	93666.5	94085.3	93758.9	94633.5	94199.2	94876.7	94648.9	95027.6
5°	87402.8	87316.5	87261.1	87910.9	87723.0	88662.3	88061.8	87864.7	88474.4	88363.6
7.5°	77730.0	77957.9	77828.6	77997.9	78093.4	79165.1	79503.8	79239.0	79248.2	79402.2
10°	67814.0	67478.3	67001.0	67318.2	67989.5	68457.6	68269.7	68657.8	68571.5	68938.0
12.5°	55612.9	55877.8	55609.9	55326.5	56499.8	56370.5	56696.9	56909.4	56376.7	57562.3
15°	41890.6	42029.2	42355.6	42334.1	43236.4	43418.1	43375.0	43599.8	43184.0	43381.1
17.5°	26911.9	27380.0	28257.6	29741.9	31411.0	31605.1	31555.8	31371.0	31170.8	30949.1
20°	18076.7	18027.5	18344.7	18778.9	22234.1	23148.7	23121.0	22542.0	21704.4	21544.3
22.5°	12663.0	12755.3	12712.2	13143.4	13857.8	16379.9	16068.9	15480.7	15206.6	15028.0
25°	8330.1	8296.2	8511.8	8641.1	9253.9	9561.9	10652.0	10433.4	10011.5	10057.7
27.5°	5078.1	5121.2	5201.3	5312.2	5746.4	5647.8	6269.9	6353.0	6217.5	6072.8
30°	3116.5	3147.3	3211.9	3292.0	3442.9	3335.1	3507.6	3806.3	3757.0	3655.4
32.5°	2115.6	2118.7	2164.9	2195.7	2177.2	2075.6	2131.0	2414.3	2420.5	2411.3
35°	1521.3	1521.3	1564.4	1589.0	1536.7	1453.5	1462.8	1638.3	1715.3	1730.7
37.5°	1050.1	1053.2	1127.1	1201.0	1142.5	1120.9	1084.0	1201.0	1324.2	1342.7
40°	797.6	794.5	831.5	886.9	893.1	853.0	865.3	939.3	1065.5	1080.9
42.5°	646.7	649.8	668.3	662.1	665.2	717.5	736.0	769.9	886.9	914.6
45°	545.1	548.2	557.4	526.6	514.3	594.3	619.0	637.5	736.0	769.9
47.5°	449.6	455.8	465.0	431.1	425.0	477.3	520.4	538.9	625.1	662.1
50°	323.3	329.5	363.4	344.9	363.4	375.7	434.2	461.9	520.4	569.7
52.5°	234.0	240.2	249.4	252.5	298.7	304.9	348.0	391.1	418.8	474.2
55°	184.8	190.9	184.8	178.6	218.6	252.5	267.9	314.1	335.7	400.3
57.5°	104.7	110.9	120.1	138.6	144.7	194.0	209.4	249.4	267.9	329.5
60°	18.5	21.6	33.9	83.1	101.6	123.2	157.1	190.9	215.6	258.7
62.5°	3.1	3.1	6.2	18.5	58.5	86.2	113.9	135.5	157.1	197.1
65°	0.0	0.0	3.1	6.2	15.4	49.3	61.6	80.1	107.8	141.7
67.5°	0.0	0.0	3.1	6.2	9.2	18.5	27.7	49.3	61.6	95.5
70°	0.0	0.0	3.1	6.2	9.2	12.3	15.4	21.6	37.0	58.5
72.5°	0.0	0.0	3.1	6.2	9.2	12.3	15.4	18.5	18.5	37.0
75°	0.0	0.0	3.1	6.2	9.2	15.4	18.5	18.5	15.4	15.4
77.5°	0.0	0.0	3.1	6.2	12.3	18.5	21.6	18.5	12.3	12.3
80°	0.0	0.0	6.2	9.2	15.4	21.6	27.7	21.6	12.3	6.2
82.5°	0.0	0.0	6.2	12.3	15.4	24.6	33.9	27.7	12.3	6.2
85°	0.0	0.0	3.1	9.2	18.5	24.6	33.9	24.6	12.3	3.1
87.5°	0.0	0.0	3.1	3.1	6.2	9.2	18.5	15.4	6.2	3.1
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°
96622.8	0°	96622.8	96622.8	96622.8	96622.8	96622.8	96622.8	96622.8	96622.8	96622.8
94310.1	2.5°	94852.1	95344.8	95446.5	95311.0	95508.0	95153.9	94882.9	94180.8	93758.9
88329.7	5°	88899.4	88825.5	89339.8	89509.1	89487.6	89216.6	88837.8	88412.8	88000.2
79103.5	7.5°	79596.2	79691.7	80159.7	80458.5	80307.6	79968.8	79707.1	79386.8	79109.6
69070.4	10°	69701.7	69045.8	69627.8	69627.8	70031.2	69073.5	69162.8	68356.0	68392.9
57540.7	12.5°	57737.8	57974.9	58070.4	58344.5	57873.3	57365.2	56743.1	56619.9	56235.0
43005.4	15°	43624.4	44301.9	43719.9	44714.5	44234.1	43704.5	43609.0	42654.3	42956.1
31192.4	17.5°	31038.4	31786.7	32020.8	32590.5	32153.2	31839.1	31441.8	31152.4	31130.8
21836.8	20°	22009.3	22760.7	22933.1	23616.8	23567.5	23469.0	23133.3	22766.8	22369.6
14864.8	22.5°	15089.6	15702.4	16275.2	17196.0	17180.6	16891.1	16857.3	16339.9	16349.1
10042.3	25°	10147.0	10593.5	10729.0	11671.4	11776.1	11745.3	11569.7	11089.3	11271.0
6134.4	27.5°	6140.6	6531.6	6990.5	7323.1	7637.2	7587.9	7412.4	7144.5	7027.5
3686.2	30°	3784.7	3960.3	4129.6	4530.0	4717.8	4816.4	4733.2	4483.8	4502.2
2426.7	32.5°	2479.0	2626.8	2750.0	3002.5	3101.1	3282.8	3248.9	3196.5	3134.9
1746.1	35°	1807.7	1915.5	1998.6	2115.6	2241.9	2395.9	2420.5	2398.9	2374.3
1348.8	37.5°	1379.6	1490.5	1585.9	1635.2	1733.8	1853.9	1921.6	1918.5	1900.1
1099.4	40°	1120.9	1204.1	1290.3	1355.0	1422.7	1512.0	1595.2	1604.4	1604.4
923.9	42.5°	936.2	1007.0	1093.2	1161.0	1210.2	1293.4	1379.6	1385.8	1379.6
782.2	45°	800.7	862.3	945.4	1025.5	1065.5	1127.1	1210.2	1228.7	1216.4
671.3	47.5°	696.0	751.4	822.2	908.5	951.6	1007.0	1084.0	1105.5	1102.5
578.9	50°	597.4	662.1	732.9	803.8	859.2	911.5	985.4	1010.1	1000.8
492.7	52.5°	526.6	585.1	646.7	723.7	788.4	834.5	893.1	936.2	923.9
415.7	55°	440.4	511.2	575.9	640.5	720.6	769.9	825.3	877.7	865.3
351.1	57.5°	381.9	440.4	514.3	572.8	652.9	711.4	766.8	822.2	819.2
286.4	60°	320.3	381.9	452.7	514.3	588.2	652.9	708.3	769.9	776.0
215.6	62.5°	252.5	326.4	388.0	458.8	532.8	603.6	652.9	714.4	723.7
163.2	65°	190.9	267.9	335.7	403.4	477.3	554.3	597.4	649.8	659.0
120.1	67.5°	141.7	206.3	286.4	348.0	425.0	498.9	538.9	582.0	597.4
73.9	70°	107.8	157.1	240.2	298.7	378.8	437.3	480.4	517.4	529.7
49.3	72.5°	67.7	123.2	194.0	255.6	326.4	378.8	409.6	431.1	449.6
27.7	75°	46.2	95.5	157.1	218.6	271.0	311.0	338.7	357.2	372.6
12.3	77.5°	27.7	73.9	129.3	181.7	215.6	246.4	274.1	286.4	295.6
9.2	80°	15.4	55.4	107.8	147.8	169.4	190.9	212.5	227.9	234.0
6.2	82.5°	9.2	43.1	86.2	113.9	123.2	144.7	166.3	175.5	175.5
3.1	85°	6.2	30.8	58.5	83.1	89.3	104.7	110.9	117.0	123.2
3.1	87.5°	6.2	18.5	37.0	46.2	49.3	55.4	58.5	64.7	70.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
96622.8  
93447.8  
87538.3  
78170.4  
68032.6  
55883.9  
42654.3  
30558.0  
22197.1  
16170.5  
10984.6  
6925.8  
4422.2  
3113.4  
2365.1  
1890.8  
1585.9  
1373.5  
1216.4  
1096.3  
994.7  
920.8  
871.5  
822.2  
779.1  
729.8  
668.3  
603.6  
535.8  
446.5  
369.5  
292.6  
227.9  
172.5  
120.1  
67.7  
0.0

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