

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: P638148

Luminaire Tested: **IFLD-M-SA4E-735-U-77-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638148  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4E-735-U-77-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor  
Light Source: (64) 3500K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27466.5 lumens  
Efficiency: N/A  
Efficacy: 87.3 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G3

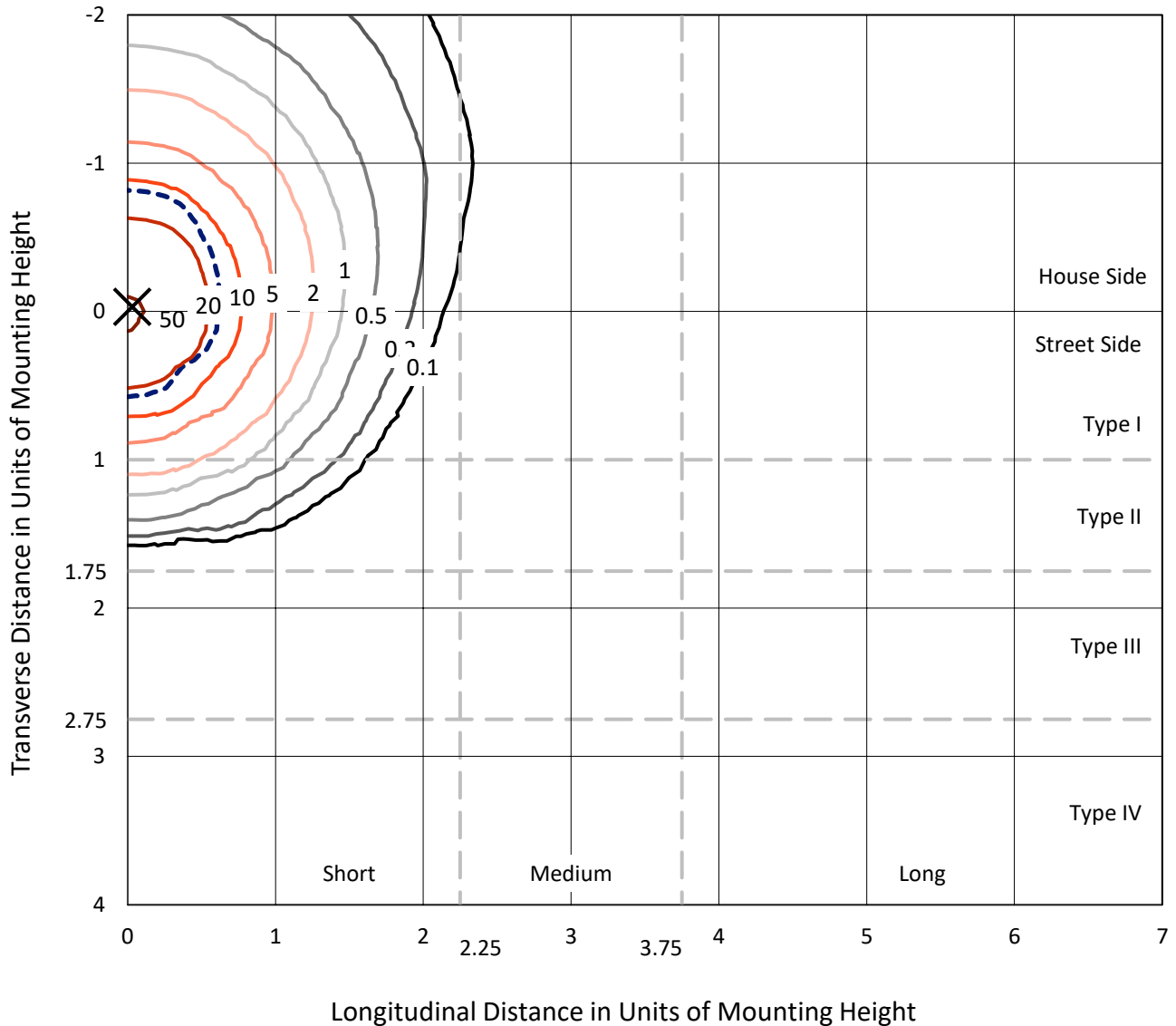
Input Watts (W): 314.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

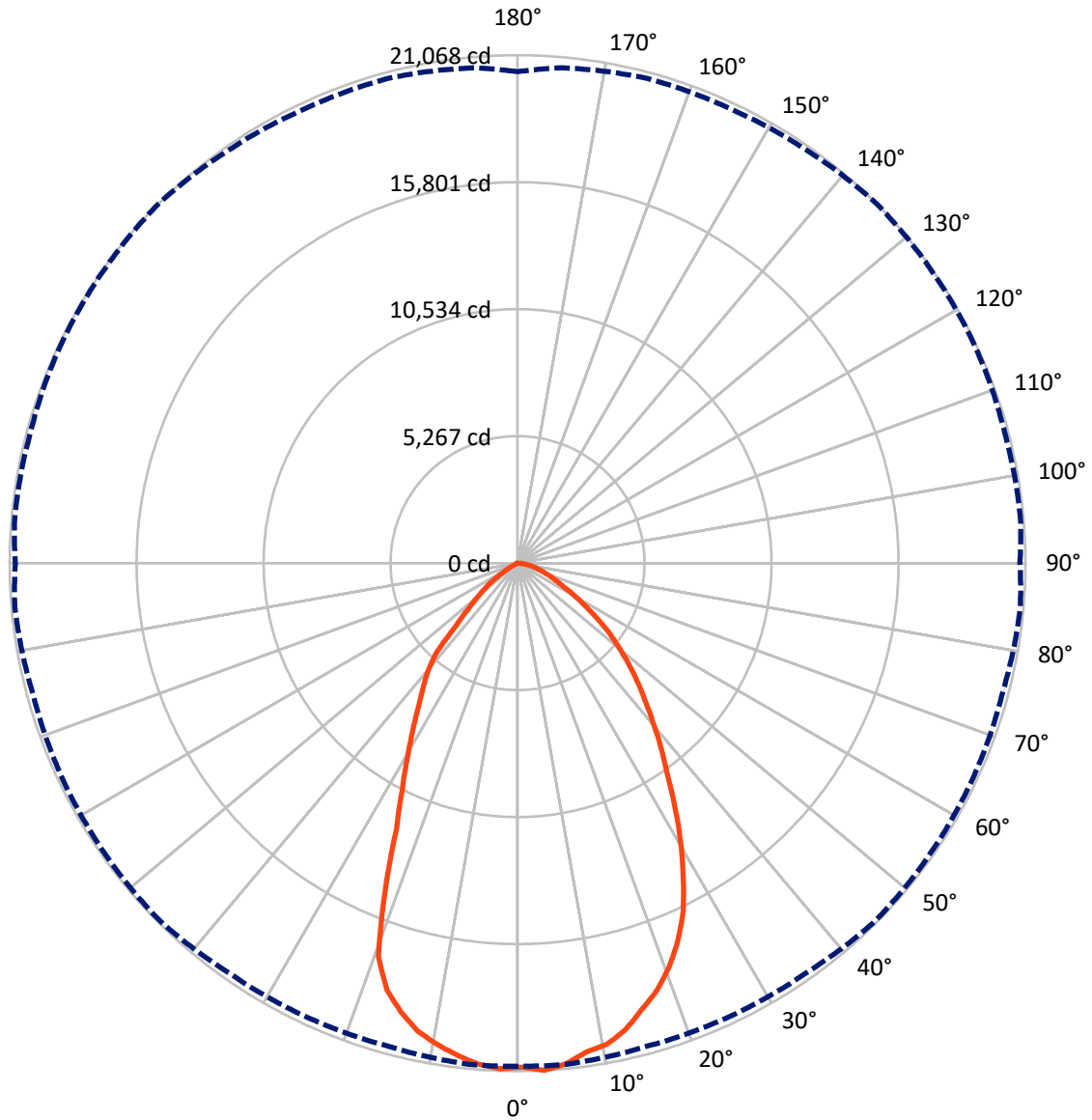
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 52.3 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 135-Deg Lateral    - - - Horizontal Cone Through 2.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	16267.1	0.0	16267.1
	% Fixture	59.2	0.0	59.2
<b>Street Side</b>	Lumens	11199.4	0.0	11199.4
	% Fixture	40.8	0.0	40.8
<b>Total</b>	Lumens	27466.5	0.0	27466.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1960.3	7.1
10°-20°	5256.6	19.1
20°-30°	6410.7	23.3
30°-40°	5852.9	21.3
40°-50°	4229.7	15.4
50°-60°	2309.5	8.4
60°-70°	954.9	3.5
70°-80°	386.7	1.4
80°-90°	105.2	0.4
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°	27466.5	100.0
0°-180°	27466.5	100.0



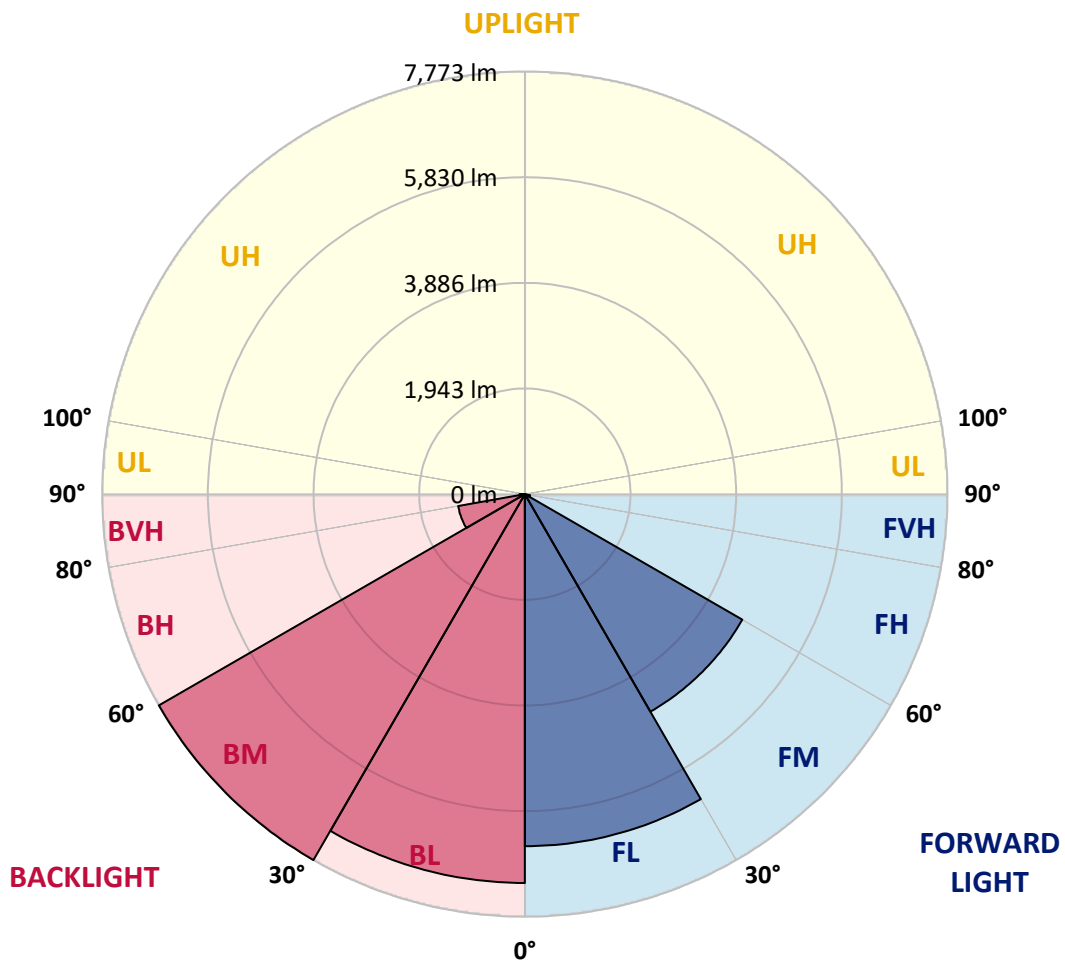
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6474.9	23.6			
FM (30°-60°)	4619.4	16.8			
FH (60°-80°)	96.8	0.4			G0/660
FVH (80°-90°)	8.4	0.0			G0/10
BL (0°-30°)	7152.7	26.0	B5		
BM (30°-60°)	7772.8	28.3	B4/8500		
BH (60°-80°)	1244.8	4.5	B3/2500		G3/2500
BVH (80°-90°)	96.8	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G3**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	20901.9	20901.9	20901.9	20901.9	20901.9	20901.9	20901.9	20901.9	20901.9	20901.9
2.5°	20863.2	20890.3	20743.3	20758.8	20785.9	20983.1	20932.9	20886.4	20820.7	20932.9
5°	20836.2	20851.6	20696.9	20642.8	20666.0	20843.9	20681.4	20681.4	20666.0	20646.6
7.5°	20627.3	20635.0	20515.1	20418.4	20480.3	20561.5	20441.6	20499.7	20414.6	20480.3
10°	20314.0	20263.7	20120.6	20093.5	20163.1	20240.5	20159.3	20213.4	20136.1	20186.4
12.5°	19853.7	19776.4	19660.3	19625.5	19745.4	19849.9	19784.1	19753.2	19652.6	19776.4
15°	18078.4	18020.4	18283.4	18743.6	19157.5	19246.5	19176.8	19207.8	18998.9	19033.7
17.5°	14879.7	14771.4	15053.7	16144.4	17699.3	18519.3	18457.4	18256.3	17946.9	18016.5
20°	13522.0	13491.1	13460.1	13719.3	14806.2	17293.2	17378.3	16867.7	16426.8	16330.1
22.5°	12756.2	12744.6	12713.7	12771.7	13057.9	14655.3	15630.0	15158.1	14864.2	14837.1
25°	12056.1	12036.8	11943.9	12017.4	12017.4	12110.3	13359.6	13645.8	13386.7	13355.7
27.5°	11344.4	11309.6	11294.1	11329.0	11151.0	10524.4	10841.6	12237.9	12102.5	12110.3
30°	10574.7	10563.1	10520.6	10594.1	10044.8	9267.4	9066.3	10961.5	10988.6	10980.9
32.5°	9429.8	9480.1	9673.5	9754.7	8849.7	8207.6	7871.1	9484.0	10037.1	10025.5
35°	6850.0	6850.0	7480.4	8652.4	7755.1	7271.6	7089.8	8041.3	9097.2	9135.9
37.5°	5631.6	5650.9	5774.7	6308.5	6691.4	6521.2	6467.1	6768.8	7890.4	7952.3
40°	5066.9	5066.9	5066.9	4846.4	4834.8	5875.3	5844.3	5747.6	6815.2	6950.5
42.5°	4552.5	4564.1	4571.8	4014.8	3705.4	5078.5	5008.9	4861.9	5852.1	6010.7
45°	4022.6	4041.9	4065.1	3357.3	3221.9	3655.1	4239.2	4076.7	4900.6	5105.6
47.5°	2456.1	2487.0	3013.1	2846.7	2862.2	2819.7	3457.9	3430.8	4018.7	4308.8
50°	1659.3	1670.9	1721.2	1806.3	2456.1	2216.3	2448.4	2839.0	3051.7	3492.7
52.5°	1392.4	1411.8	1288.0	1172.0	1612.9	1732.8	1709.6	2108.0	2193.1	2738.4
55°	978.6	1040.5	982.4	970.8	916.7	1346.0	1295.7	1620.6	1674.8	2080.9
57.5°	100.6	116.0	201.1	723.3	599.5	762.0	924.4	1187.4	1241.6	1535.5
60°	7.7	7.7	19.3	100.6	437.1	456.4	638.2	731.0	835.5	1071.4
62.5°	0.0	3.9	7.7	15.5	69.6	243.7	321.0	382.9	502.8	692.3
65°	0.0	0.0	3.9	11.6	15.5	92.8	123.8	201.1	274.6	429.3
67.5°	0.0	0.0	3.9	7.7	11.6	23.2	42.5	73.5	147.0	243.7
70°	0.0	0.0	3.9	7.7	11.6	19.3	30.9	46.4	65.8	131.5
72.5°	0.0	0.0	3.9	3.9	7.7	19.3	23.2	30.9	46.4	65.8
75°	0.0	0.0	3.9	3.9	11.6	23.2	19.3	23.2	30.9	42.5
77.5°	0.0	0.0	3.9	7.7	11.6	23.2	19.3	23.2	23.2	27.1
80°	0.0	0.0	3.9	7.7	15.5	27.1	23.2	23.2	19.3	19.3
82.5°	0.0	0.0	3.9	11.6	15.5	34.8	34.8	30.9	15.5	11.6
85°	0.0	0.0	7.7	15.5	23.2	38.7	38.7	30.9	11.6	7.7
87.5°	0.0	0.0	7.7	11.6	19.3	27.1	38.7	30.9	11.6	3.9
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°
20901.9	0°	20901.9	20901.9	20901.9	20901.9	20901.9	20901.9	20901.9	20901.9	20901.9
20836.2	2.5°	20940.6	20917.4	20994.7	21025.7	21068.2	20905.8	20805.2	20809.1	20623.4
20600.2	5°	20724.0	20727.9	20828.4	20820.7	20863.2	20774.3	20735.6	20669.8	20507.4
20302.4	7.5°	20449.4	20414.6	20511.3	20584.7	20476.4	20538.3	20449.4	20480.3	20383.6
20039.4	10°	20236.6	20155.4	20244.4	20294.7	20298.5	20236.6	20151.5	20070.3	20035.5
19629.4	12.5°	19764.8	19660.3	19811.2	19880.8	19869.2	19749.3	19652.6	19671.9	19559.8
18910.0	15°	19115.0	19118.8	19227.1	19292.9	19231.0	19203.9	19211.7	19165.2	19068.5
17915.9	17.5°	18120.9	18178.9	18465.2	18623.7	18658.6	18604.4	18577.3	18523.2	18426.5
16330.1	20°	16465.5	16813.6	17324.1	17815.4	17912.1	17896.6	17799.9	17776.7	17722.5
14759.7	22.5°	15011.2	15270.3	15862.1	16627.9	17022.4	17061.1	16945.1	16910.3	16852.3
13355.7	25°	13506.6	13785.0	14318.8	15150.4	15966.5	16132.8	16113.5	16009.1	15947.2
12110.3	27.5°	12237.9	12516.4	12999.9	13750.2	14624.4	15158.1	15208.4	15042.1	15038.2
11000.2	30°	11093.0	11475.9	11843.4	12454.5	13301.6	14102.2	14187.3	14071.3	14082.9
9982.9	32.5°	10195.7	10512.8	10826.1	11236.1	11940.1	12872.2	13204.9	13096.6	13054.0
9135.9	35°	9279.0	9495.6	9816.6	10191.8	10671.4	11595.8	12172.2	12090.9	12048.4
7991.0	37.5°	8234.7	8606.0	8838.1	9259.7	9634.8	10369.7	11182.0	11170.4	11081.4
7016.3	40°	7163.3	7553.9	7905.9	8331.4	8621.5	9205.5	10106.7	10102.8	10114.5
6006.8	42.5°	6192.4	6552.2	6977.6	7441.8	7720.2	8145.7	9112.7	9166.8	9232.6
5175.2	45°	5314.4	5639.3	6033.9	6598.6	6935.1	7178.7	8037.4	8285.0	8281.1
4432.6	47.5°	4525.4	4831.0	5163.6	5712.8	6142.2	6362.6	7074.3	7426.3	7403.1
3635.8	50°	3798.2	4069.0	4417.1	4815.5	5391.8	5585.2	6115.1	6579.2	6544.4
2897.0	52.5°	3055.6	3430.8	3724.7	4088.3	4695.6	4885.1	5295.1	5747.6	5720.6
2173.7	55°	2382.6	2746.2	3102.0	3415.3	3925.9	4208.2	4502.2	4966.3	4958.6
1701.9	57.5°	1802.4	2200.8	2537.3	2835.1	3241.3	3589.4	3825.3	4246.9	4301.1
1164.2	60°	1334.4	1640.0	2003.6	2336.2	2657.2	3016.9	3175.5	3589.4	3612.6
796.8	62.5°	908.9	1245.5	1601.3	1903.0	2142.8	2514.1	2657.2	2997.6	3040.1
510.6	65°	630.5	847.1	1253.2	1469.8	1763.7	2080.9	2224.0	2494.8	2579.9
294.0	67.5°	417.7	603.4	978.6	1175.8	1465.9	1682.5	1864.3	2084.8	2177.6
185.7	70°	228.2	444.8	700.1	928.3	1179.7	1388.6	1566.5	1744.4	1825.6
85.1	72.5°	154.7	297.8	487.4	734.9	951.5	1156.5	1315.1	1446.6	1450.4
50.3	75°	77.4	201.1	371.3	568.6	742.6	943.8	1086.9	1164.2	1071.4
30.9	77.5°	46.4	147.0	301.7	456.4	603.4	762.0	843.2	885.7	734.9
23.2	80°	27.1	104.4	235.9	363.6	417.7	560.8	638.2	649.8	491.2
15.5	82.5°	19.3	77.4	185.7	266.9	255.3	394.5	479.6	464.1	313.3
11.6	85°	11.6	54.2	116.0	166.3	154.7	259.1	278.5	286.2	181.8
7.7	87.5°	7.7	30.9	61.9	89.0	73.5	112.2	112.2	135.4	89.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
20901.9
20383.6
20468.7
20221.2
19880.8
19463.1
18971.8
18383.9
17598.8
16836.8
15881.4
15030.5
14024.9
13057.9
11990.4
11154.9
10114.5
9197.8
8288.8
7410.8
6575.4
5778.6
4977.9
4277.9
3647.4
3047.9
2560.5
2166.0
1794.7
1415.6
1001.8
707.8
460.3
290.1
166.3
77.4
0.0

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