

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: P636713

Luminaire Tested: **IFLD-S-SA3A-927-U-77-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P636713  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3A-927-U-77-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor  
Light Source: (48) 2700K CCT, 90 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6700 lumens  
Efficiency: N/A  
Efficacy: 70.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B3 - U0 - G1

Input Watts (W): 94.8  
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

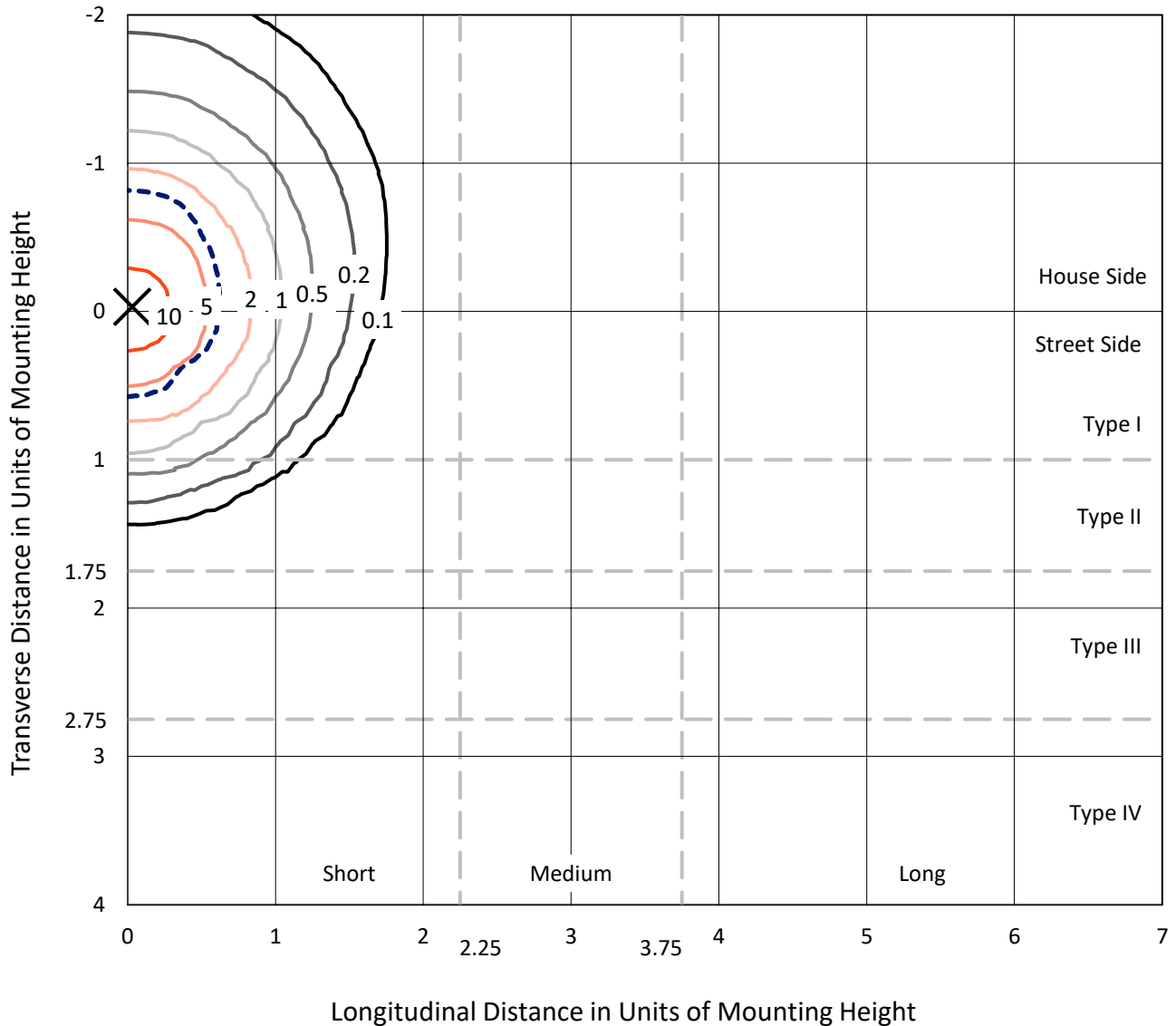




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### Iso-Footcandle Lines of Horizontal Illumination

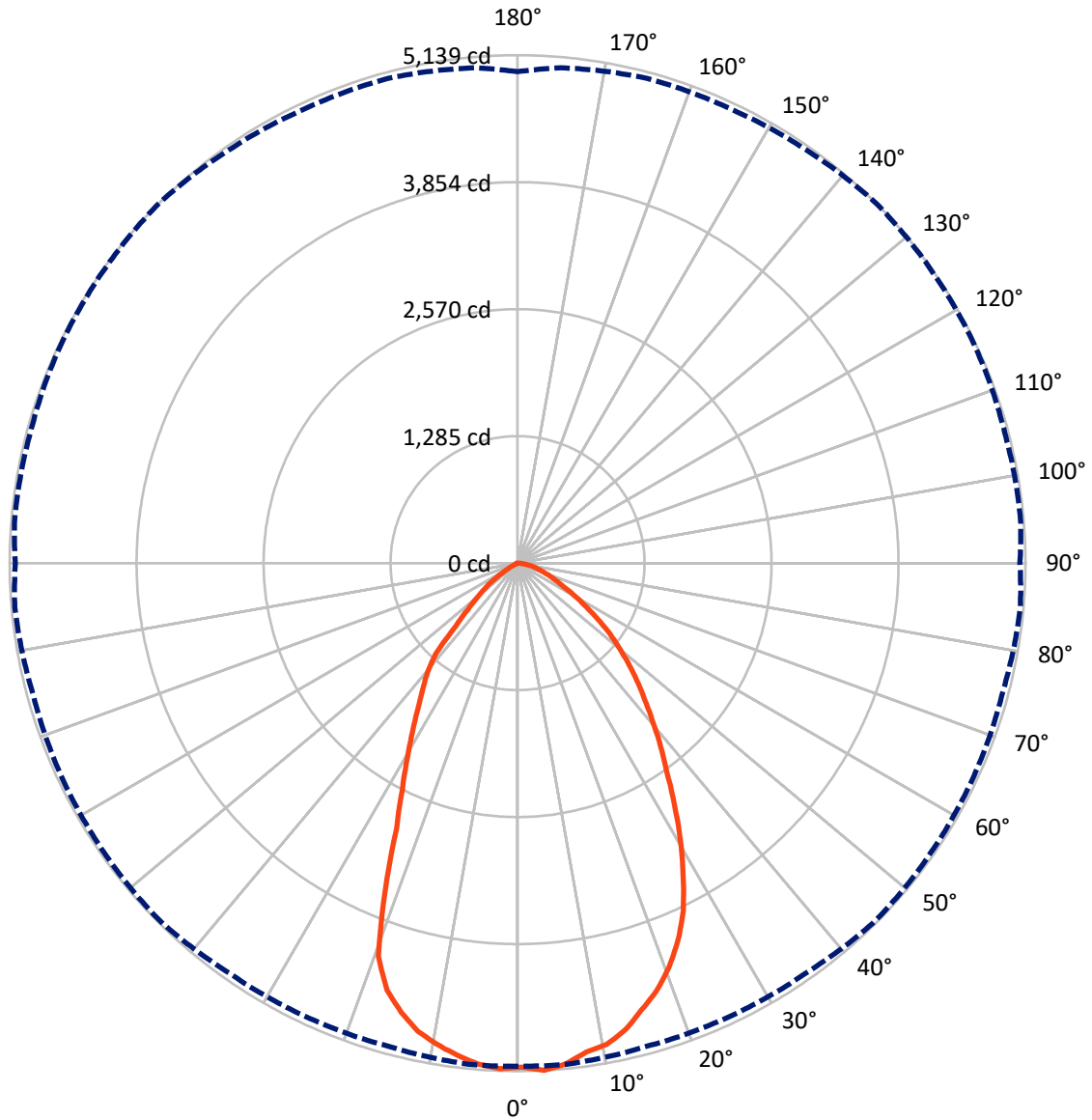
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 12.7 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	3968.1	0.0	3968.1
	% Fixture	59.2	0.0	59.2
<b>Street Side</b>	Lumens	2731.9	0.0	2731.9
	% Fixture	40.8	0.0	40.8
<b>Total</b>	Lumens	6700.0	0.0	6700.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	478.2	7.1
10°-20°	1282.3	19.1
20°-30°	1563.8	23.3
30°-40°	1427.7	21.3
40°-50°	1031.8	15.4
50°-60°	563.4	8.4
60°-70°	232.9	3.5
70°-80°	94.3	1.4
80°-90°	25.7	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°	6700.0	100.0
0°-180°	6700.0	100.0



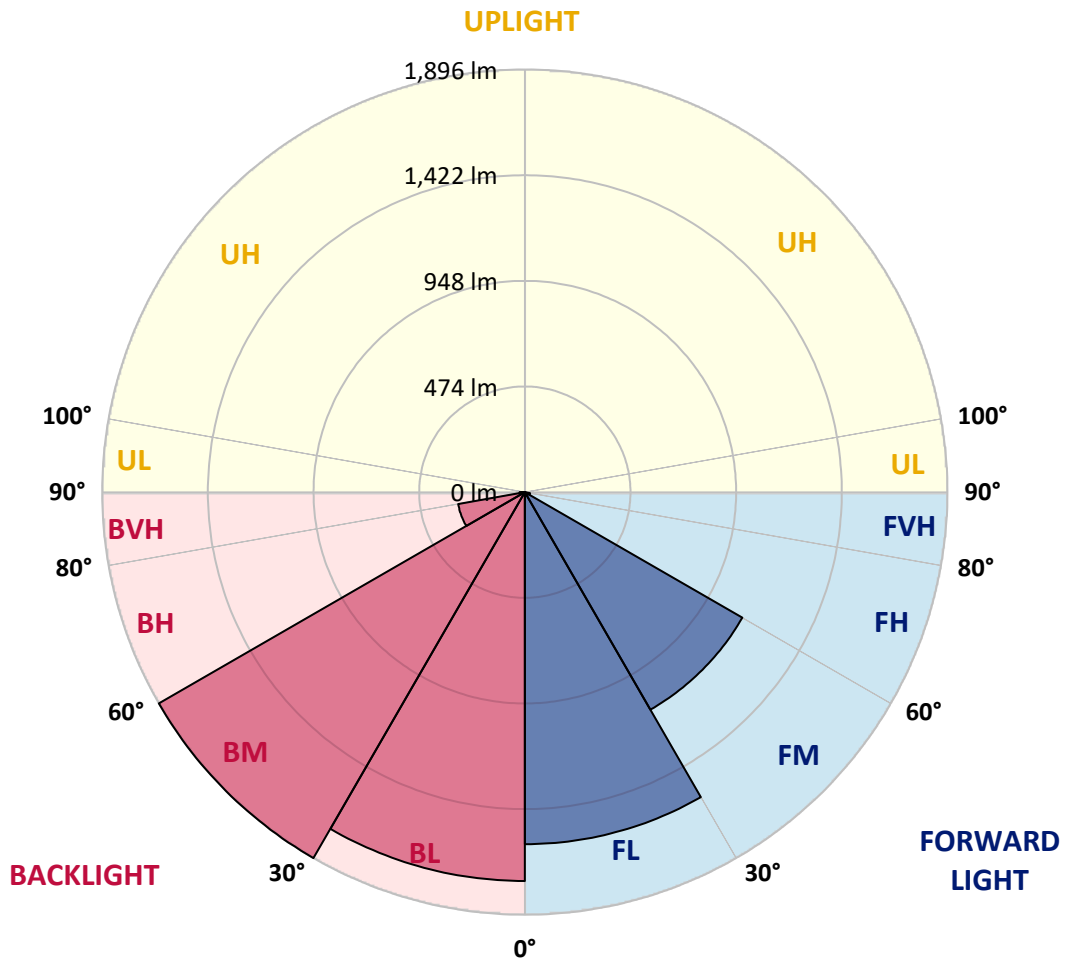
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1579.4	23.6			
FM (30°-60°)	1126.8	16.8			
FH (60°-80°)	23.6	0.4			G0/660
FVH (80°-90°)	2.1	0.0			G0/10
BL (0°-30°)	1744.8	26.0	B3/2500		
BM (30°-60°)	1896.0	28.3	B2/2500		
BH (60°-80°)	303.7	4.5	B1/500		G1/500
BVH (80°-90°)	23.6	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5098.7	5098.7	5098.7	5098.7	5098.7	5098.7	5098.7	5098.7	5098.7	5098.7
2.5°	5089.2	5095.8	5060.0	5063.8	5070.4	5118.5	5106.2	5094.9	5078.9	5106.2
5°	5082.6	5086.4	5048.7	5035.5	5041.1	5084.5	5044.9	5044.9	5041.1	5036.4
7.5°	5031.7	5033.6	5004.3	4980.7	4995.8	5015.6	4986.4	5000.6	4979.8	4995.8
10°	4955.3	4943.0	4908.1	4901.5	4918.5	4937.3	4917.5	4930.7	4911.9	4924.1
12.5°	4843.0	4824.1	4795.8	4787.3	4816.6	4842.0	4826.0	4818.5	4793.9	4824.1
15°	4409.9	4395.8	4459.9	4572.2	4673.2	4694.9	4677.9	4685.4	4634.5	4643.0
17.5°	3629.6	3603.2	3672.1	3938.2	4317.5	4517.5	4502.4	4453.3	4377.8	4394.8
20°	3298.5	3290.9	3283.4	3346.6	3611.7	4218.4	4239.1	4114.6	4007.0	3983.5
22.5°	3111.7	3108.8	3101.3	3115.4	3185.3	3574.9	3812.7	3697.6	3625.9	3619.3
25°	2940.9	2936.2	2913.5	2931.5	2931.5	2954.1	3258.9	3328.7	3265.5	3257.9
27.5°	2767.3	2758.8	2755.0	2763.5	2720.1	2567.3	2644.6	2985.2	2952.2	2954.1
30°	2579.5	2576.7	2566.3	2584.2	2450.3	2260.6	2211.6	2673.9	2680.5	2678.6
32.5°	2300.3	2312.5	2359.7	2379.5	2158.7	2002.1	1920.0	2313.5	2448.4	2445.6
35°	1670.9	1670.9	1824.7	2110.6	1891.7	1773.8	1729.4	1961.5	2219.1	2228.5
37.5°	1373.7	1378.5	1408.6	1538.8	1632.3	1590.7	1577.5	1651.1	1924.7	1939.8
40°	1236.0	1236.0	1236.0	1182.2	1179.4	1433.2	1425.6	1402.0	1662.4	1695.5
42.5°	1110.5	1113.3	1115.2	979.4	903.9	1238.8	1221.8	1186.0	1427.5	1466.2
45°	981.2	986.0	991.6	819.0	785.9	891.6	1034.1	994.4	1195.4	1245.4
47.5°	599.1	606.7	735.0	694.4	698.2	687.8	843.5	836.9	980.3	1051.1
50°	404.8	407.6	419.9	440.6	599.1	540.6	597.2	692.5	744.4	852.0
52.5°	339.7	344.4	314.2	285.9	393.4	422.7	417.0	514.2	535.0	668.0
55°	238.7	253.8	239.6	236.8	223.6	328.3	316.1	395.3	408.5	507.6
57.5°	24.5	28.3	49.1	176.4	146.2	185.9	225.5	289.7	302.9	374.6
60°	1.9	1.9	4.7	24.5	106.6	111.3	155.7	178.3	203.8	261.3
62.5°	0.0	0.9	1.9	3.8	17.0	59.4	78.3	93.4	122.7	168.9
65°	0.0	0.0	0.9	2.8	3.8	22.6	30.2	49.1	67.0	104.7
67.5°	0.0	0.0	0.9	1.9	2.8	5.7	10.4	17.9	35.9	59.4
70°	0.0	0.0	0.9	1.9	2.8	4.7	7.5	11.3	16.0	32.1
72.5°	0.0	0.0	0.9	0.9	1.9	4.7	5.7	7.5	11.3	16.0
75°	0.0	0.0	0.9	0.9	2.8	5.7	4.7	5.7	7.5	10.4
77.5°	0.0	0.0	0.9	1.9	2.8	5.7	4.7	5.7	5.7	6.6
80°	0.0	0.0	0.9	1.9	3.8	6.6	5.7	5.7	4.7	4.7
82.5°	0.0	0.0	0.9	2.8	3.8	8.5	8.5	7.5	3.8	2.8
85°	0.0	0.0	1.9	3.8	5.7	9.4	9.4	7.5	2.8	1.9
87.5°	0.0	0.0	1.9	2.8	4.7	6.6	9.4	7.5	2.8	0.9
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°
5098.7	0°	5098.7	5098.7	5098.7	5098.7	5098.7	5098.7	5098.7	5098.7	5098.7
5082.6	2.5°	5108.1	5102.5	5121.3	5128.9	5139.2	5099.6	5075.1	5076.0	5030.7
5025.1	5°	5055.3	5056.2	5080.8	5078.9	5089.2	5067.5	5058.1	5042.1	5002.4
4952.4	7.5°	4988.3	4979.8	5003.4	5021.3	4994.9	5010.0	4988.3	4995.8	4972.2
4888.3	10°	4936.4	4916.6	4938.3	4950.5	4951.5	4936.4	4915.6	4895.8	4887.3
4788.3	12.5°	4821.3	4795.8	4832.6	4849.6	4846.8	4817.5	4793.9	4798.6	4771.3
4612.8	15°	4662.8	4663.7	4690.1	4706.2	4691.1	4684.5	4686.4	4675.0	4651.5
4370.3	17.5°	4420.3	4434.5	4504.3	4543.0	4551.4	4538.2	4531.6	4518.4	4494.8
3983.5	20°	4016.5	4101.4	4225.9	4345.8	4369.4	4365.6	4342.0	4336.3	4323.1
3600.4	22.5°	3661.7	3724.9	3869.3	4056.1	4152.3	4161.8	4133.5	4125.0	4110.8
3257.9	25°	3294.7	3362.6	3492.8	3695.7	3894.8	3935.3	3930.6	3905.1	3890.1
2954.1	27.5°	2985.2	3053.2	3171.1	3354.1	3567.4	3697.6	3709.8	3669.3	3668.3
2683.3	30°	2706.0	2799.4	2889.0	3038.1	3244.7	3440.0	3460.8	3432.5	3435.3
2435.2	32.5°	2487.1	2564.4	2640.9	2740.9	2912.6	3140.0	3221.1	3194.7	3184.3
2228.5	35°	2263.5	2316.3	2394.6	2486.1	2603.1	2828.6	2969.2	2949.4	2939.0
1949.3	37.5°	2008.7	2099.3	2155.9	2258.7	2350.3	2529.5	2727.7	2724.8	2703.1
1711.5	40°	1747.4	1842.7	1928.5	2032.3	2103.1	2245.5	2465.4	2464.4	2467.3
1465.3	42.5°	1510.5	1598.3	1702.1	1815.3	1883.2	1987.0	2222.9	2236.1	2252.1
1262.4	45°	1296.4	1375.6	1471.9	1609.6	1691.7	1751.1	1960.6	2021.0	2020.0
1081.3	47.5°	1103.9	1178.4	1259.6	1393.6	1498.3	1552.1	1725.7	1811.5	1805.9
886.9	50°	926.5	992.6	1077.5	1174.7	1315.2	1362.4	1491.7	1604.9	1596.4
706.7	52.5°	745.4	836.9	908.6	997.3	1145.4	1191.6	1291.7	1402.0	1395.4
530.2	55°	581.2	669.9	756.7	833.1	957.7	1026.5	1098.2	1211.5	1209.6
415.1	57.5°	439.7	536.9	618.9	691.6	790.7	875.6	933.1	1036.0	1049.2
284.0	60°	325.5	400.0	488.7	569.9	648.2	735.9	774.6	875.6	881.2
194.4	62.5°	221.7	303.8	390.6	464.2	522.7	613.3	648.2	731.2	741.6
124.5	65°	153.8	206.6	305.7	358.5	430.2	507.6	542.5	608.6	629.3
71.7	67.5°	101.9	147.2	238.7	286.8	357.6	410.4	454.8	508.5	531.2
45.3	70°	55.7	108.5	170.8	226.4	287.8	338.7	382.1	425.5	445.3
20.8	72.5°	37.7	72.6	118.9	179.3	232.1	282.1	320.8	352.9	353.8
12.3	75°	18.9	49.1	90.6	138.7	181.2	230.2	265.1	284.0	261.3
7.5	77.5°	11.3	35.9	73.6	111.3	147.2	185.9	205.7	216.1	179.3
5.7	80°	6.6	25.5	57.6	88.7	101.9	136.8	155.7	158.5	119.8
3.8	82.5°	4.7	18.9	45.3	65.1	62.3	96.2	117.0	113.2	76.4
2.8	85°	2.8	13.2	28.3	40.6	37.7	63.2	67.9	69.8	44.3
1.9	87.5°	1.9	7.5	15.1	21.7	17.9	27.4	27.4	33.0	21.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
5098.7
4972.2
4993.0
4932.6
4849.6
4747.7
4627.9
4484.5
4292.9
4107.1
3874.0
3666.4
3421.1
3185.3
2924.9
2721.1
2467.3
2243.6
2021.9
1807.7
1604.0
1409.6
1214.3
1043.5
889.7
743.5
624.6
528.4
437.8
345.3
244.4
172.7
112.3
70.8
40.6
18.9
0.0

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