

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: P637298

Luminaire Tested: **IFLD-S-SA6A-727-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637298
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-727-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (96) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21770 lumens
Efficiency: N/A
Efficacy: 114.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

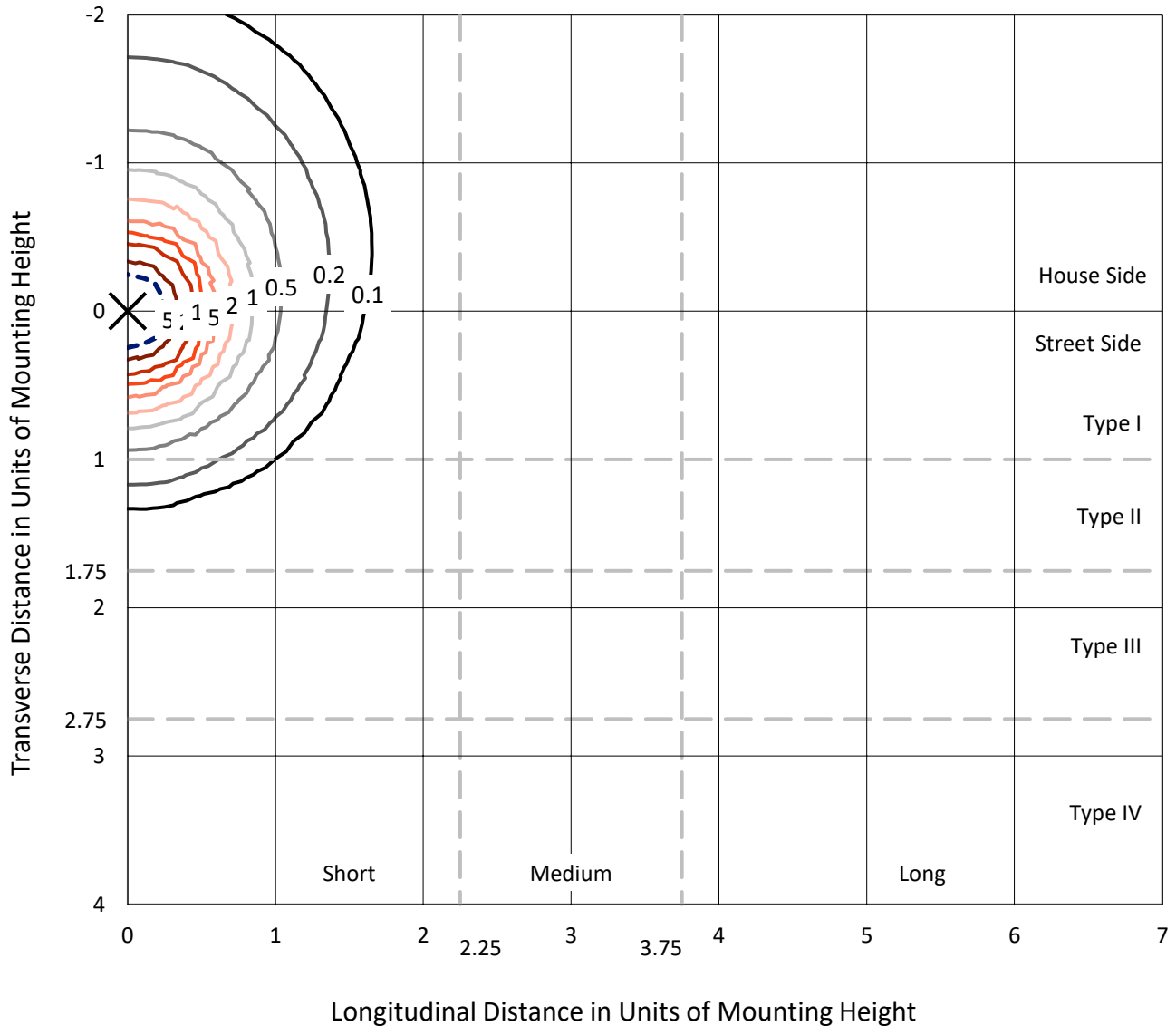
Input Watts (W): 189.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

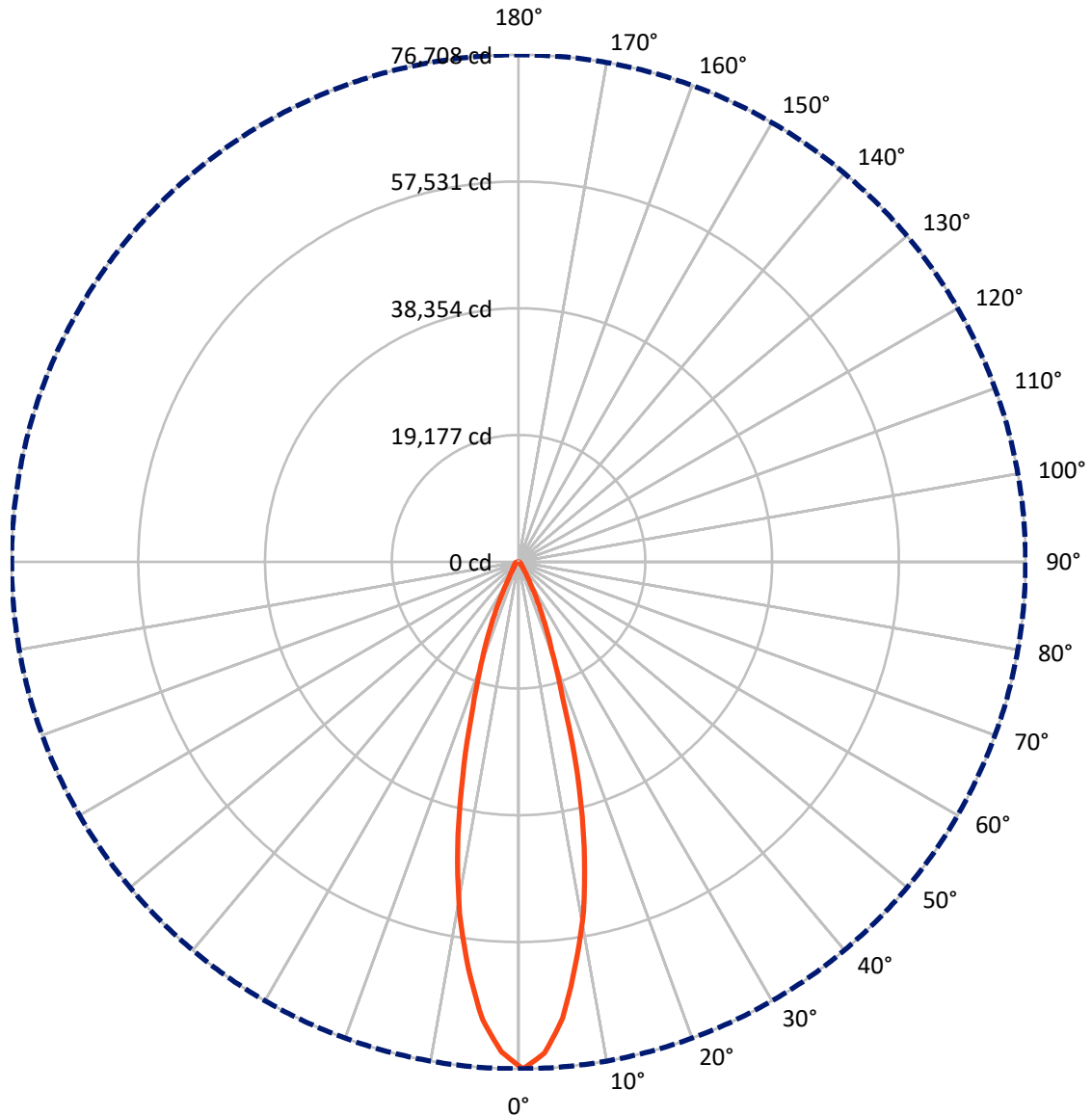
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 191.8 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
House Side	Lumens	11478.6	0.0	11478.6
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	10291.4	0.0	10291.4
	% Fixture	47.3	0.0	47.3
Total	Lumens	21770.0	0.0	21770.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6191.0	28.4
10°-20°	9376.3	43.1
20°-30°	3956.8	18.2
30°-40°	1032.0	4.7
40°-50°	522.0	2.4
50°-60°	341.2	1.6
60°-70°	204.4	0.9
70°-80°	107.5	0.5
80°-90°	38.8	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°	21770.0	100.0
0°-180°	21770.0	100.0

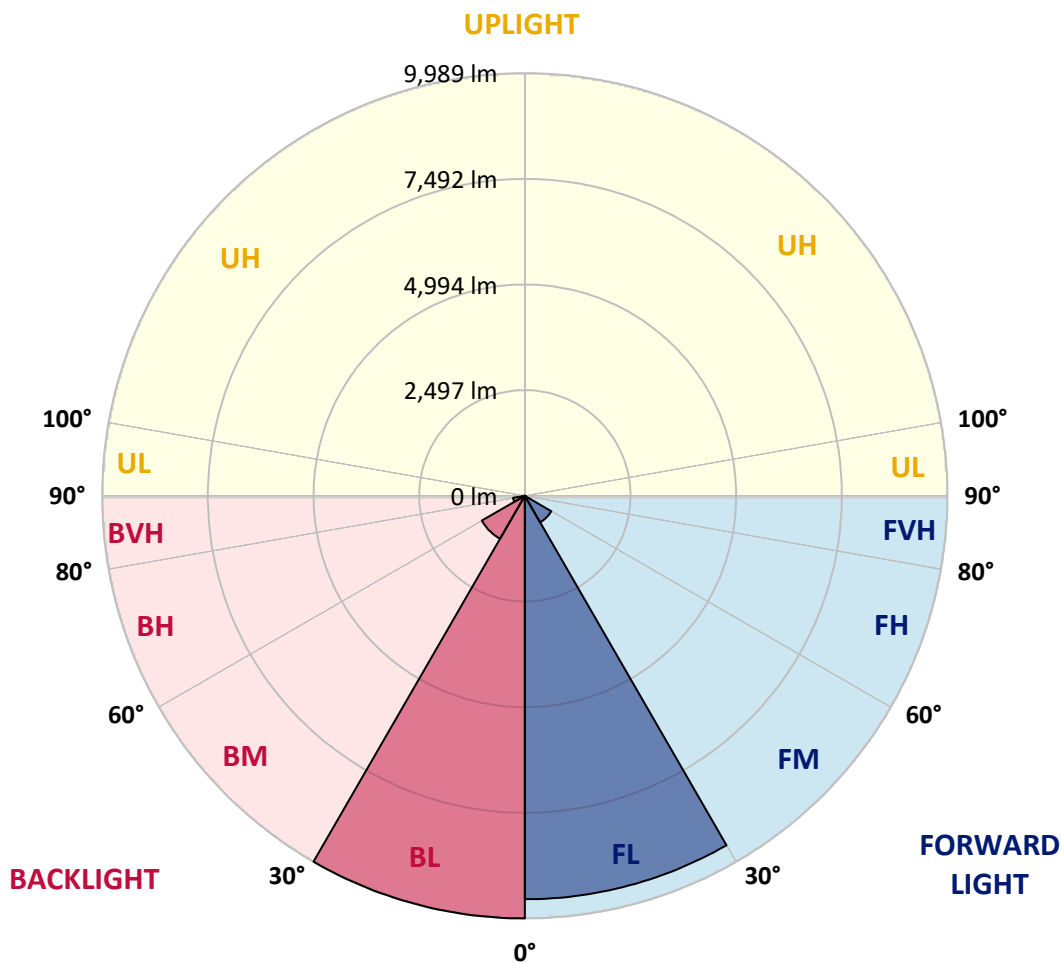


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	9535.1	43.8			
FM (30°-60°)	722.1	3.3			
FH (60°-80°)	29.4	0.1			G0/660
FVH (80°-90°)	4.7	0.0			G0/10
BL (0°-30°)	9989.0	45.9	B5		
BM (30°-60°)	1173.0	5.4	B2/2500		
BH (60°-80°)	282.5	1.3	B1/500		G0/660
BVH (80°-90°)	34.1	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°	76708.1	76708.1	76708.1	76708.1	76708.1	76708.1	76708.1	76708.1	76708.1	76708.1
2.5°	74473.5	74515.1	74361.1	74693.6	74434.4	75128.8	74784.0	75321.9	75141.0	75441.7
5°	69388.4	69319.9	69275.9	69791.8	69642.6	70388.3	69911.5	69755.1	70239.2	70151.1
7.5°	61709.2	61890.2	61787.5	61921.9	61997.7	62848.5	63117.4	62907.2	62914.5	63036.8
10°	53837.0	53570.5	53191.5	53443.4	53976.3	54347.9	54198.8	54506.9	54438.4	54729.3
12.5°	44150.7	44360.9	44148.2	43923.3	44854.8	44752.1	45011.2	45179.9	44757.0	45698.2
15°	33256.6	33366.7	33625.8	33608.7	34325.0	34469.3	34435.0	34613.5	34283.5	34439.9
17.5°	21365.1	21736.7	22433.5	23611.9	24937.0	25091.0	25051.9	24905.2	24746.3	24570.3
20°	14351.0	14311.9	14563.7	14908.4	17651.5	18377.6	18355.6	17895.9	17231.0	17103.8
22.5°	10053.0	10126.4	10092.1	10434.4	11001.6	13003.9	12757.0	12290.0	12072.4	11930.6
25°	6613.2	6586.3	6757.4	6860.1	7346.6	7591.1	8456.6	8283.0	7948.1	7984.7
27.5°	4031.5	4065.7	4129.3	4217.3	4562.0	4483.8	4977.6	5043.6	4936.1	4821.1
30°	2474.1	2498.6	2549.9	2613.5	2733.3	2647.7	2784.6	3021.8	2982.7	2902.0
32.5°	1679.6	1682.0	1718.7	1743.1	1728.5	1647.8	1691.8	1916.7	1921.6	1914.3
35°	1207.7	1207.7	1242.0	1261.5	1220.0	1153.9	1161.3	1300.6	1361.8	1374.0
37.5°	833.7	836.1	894.8	953.5	907.0	889.9	860.6	953.5	1051.3	1065.9
40°	633.2	630.8	660.1	704.1	709.0	677.2	687.0	745.7	845.9	858.1
42.5°	513.4	515.9	530.5	525.6	528.1	569.6	584.3	611.2	704.1	726.1
45°	432.7	435.2	442.5	418.1	408.3	471.8	491.4	506.1	584.3	611.2
47.5°	356.9	361.8	369.2	342.3	337.4	378.9	413.2	427.8	496.3	525.6
50°	256.7	261.6	288.5	273.8	288.5	298.3	344.7	366.7	413.2	452.3
52.5°	185.8	190.7	198.0	200.5	237.1	242.0	276.3	310.5	332.5	376.5
55°	146.7	151.6	146.7	141.8	173.6	200.5	212.7	249.4	266.5	317.8
57.5°	83.1	88.0	95.3	110.0	114.9	154.0	166.2	198.0	212.7	261.6
60°	14.7	17.1	26.9	66.0	80.7	97.8	124.7	151.6	171.1	205.4
62.5°	2.4	2.4	4.9	14.7	46.5	68.5	90.5	107.6	124.7	156.5
65°	0.0	0.0	2.4	4.9	12.2	39.1	48.9	63.6	85.6	112.5
67.5°	0.0	0.0	2.4	4.9	7.3	14.7	22.0	39.1	48.9	75.8
70°	0.0	0.0	2.4	4.9	7.3	9.8	12.2	17.1	29.3	46.5
72.5°	0.0	0.0	2.4	4.9	7.3	9.8	12.2	14.7	14.7	29.3
75°	0.0	0.0	2.4	4.9	7.3	12.2	14.7	14.7	12.2	12.2
77.5°	0.0	0.0	2.4	4.9	9.8	14.7	17.1	14.7	9.8	9.8
80°	0.0	0.0	4.9	7.3	12.2	17.1	22.0	17.1	9.8	4.9
82.5°	0.0	0.0	4.9	9.8	12.2	19.6	26.9	22.0	9.8	4.9
85°	0.0	0.0	2.4	7.3	14.7	19.6	26.9	19.6	9.8	2.4
87.5°	0.0	0.0	2.4	2.4	4.9	7.3	14.7	12.2	4.9	2.4
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°
76708.1	0°	76708.1	76708.1	76708.1	76708.1	76708.1	76708.1	76708.1	76708.1	76708.1
74872.1	2.5°	75302.3	75693.5	75774.2	75666.6	75823.1	75541.9	75326.8	74769.4	74434.4
70124.2	5°	70576.5	70517.9	70926.1	71060.6	71043.5	70828.3	70527.6	70190.3	69862.7
62799.6	7.5°	63190.8	63266.6	63638.2	63875.3	63755.5	63486.6	63278.8	63024.5	62804.5
54834.5	10°	55335.6	54814.9	55277.0	55277.0	55597.2	54836.9	54907.8	54267.3	54296.6
45681.1	12.5°	45837.6	46025.8	46101.6	46319.2	45945.2	45541.8	45047.9	44950.1	44644.5
34141.7	15°	34633.1	35170.9	34708.8	35498.5	35117.1	34696.6	34620.8	33862.9	34102.5
24763.4	17.5°	24641.2	25235.2	25421.0	25873.3	25526.2	25276.8	24961.4	24731.6	24714.5
17336.1	20°	17473.0	18069.5	18206.4	18749.2	18710.1	18631.8	18365.4	18074.4	17759.0
11801.1	22.5°	11979.5	12466.0	12920.8	13651.8	13639.5	13409.7	13382.8	12972.1	12979.5
7972.5	25°	8055.6	8410.1	8517.7	9265.8	9348.9	9324.5	9185.1	8803.7	8948.0
4870.0	27.5°	4874.9	5185.4	5549.7	5813.7	6063.1	6024.0	5884.6	5671.9	5579.0
2926.4	30°	3004.7	3144.0	3278.5	3596.3	3745.4	3823.7	3757.7	3559.6	3574.3
1926.5	32.5°	1968.1	2085.4	2183.2	2383.7	2461.9	2606.2	2579.3	2537.7	2488.8
1386.2	35°	1435.1	1520.7	1586.7	1679.6	1779.8	1902.1	1921.6	1904.5	1884.9
1070.8	37.5°	1095.3	1183.3	1259.1	1298.2	1376.4	1471.8	1525.6	1523.1	1508.4
872.8	40°	889.9	955.9	1024.4	1075.7	1129.5	1200.4	1266.4	1273.7	1273.7
733.4	42.5°	743.2	799.5	867.9	921.7	960.8	1026.8	1095.3	1100.2	1095.3
621.0	45°	635.6	684.5	750.6	814.1	845.9	894.8	960.8	975.5	965.7
533.0	47.5°	552.5	596.5	652.8	721.2	755.4	799.5	860.6	877.7	875.2
459.6	50°	474.3	525.6	581.9	638.1	682.1	723.7	782.3	801.9	794.6
391.2	52.5°	418.1	464.5	513.4	574.5	625.9	662.5	709.0	743.2	733.4
330.0	55°	349.6	405.8	457.2	508.5	572.1	611.2	655.2	696.8	687.0
278.7	57.5°	303.2	349.6	408.3	454.7	518.3	564.7	608.8	652.8	650.3
227.4	60°	254.3	303.2	359.4	408.3	467.0	518.3	562.3	611.2	616.1
171.1	62.5°	200.5	259.1	308.0	364.3	423.0	479.2	518.3	567.2	574.5
129.6	65°	151.6	212.7	266.5	320.3	378.9	440.1	474.3	515.9	523.2
95.3	67.5°	112.5	163.8	227.4	276.3	337.4	396.1	427.8	462.1	474.3
58.7	70°	85.6	124.7	190.7	237.1	300.7	347.2	381.4	410.7	420.5
39.1	72.5°	53.8	97.8	154.0	202.9	259.1	300.7	325.2	342.3	356.9
22.0	75°	36.7	75.8	124.7	173.6	215.1	246.9	268.9	283.6	295.8
9.8	77.5°	22.0	58.7	102.7	144.2	171.1	195.6	217.6	227.4	234.7
7.3	80°	12.2	44.0	85.6	117.4	134.5	151.6	168.7	180.9	185.8
4.9	82.5°	7.3	34.2	68.5	90.5	97.8	114.9	132.0	139.4	139.4
2.4	85°	4.9	24.4	46.5	66.0	70.9	83.1	88.0	92.9	97.8
2.4	87.5°	4.9	14.7	29.3	36.7	39.1	44.0	46.5	51.3	56.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
76708.1
74187.5
69495.9
62058.8
54010.6
44365.8
33862.9
24259.8
17622.1
12837.7
8720.6
5498.4
3510.7
2471.7
1877.6
1501.1
1259.1
1090.4
965.7
870.3
789.7
731.0
691.9
652.8
618.5
579.4
530.5
479.2
425.4
354.5
293.4
232.3
180.9
136.9
95.3
53.8
0.0

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