

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: P638168

Luminaire Tested: **IFLD-S-SA6A-740-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638168
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-740-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (96) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20760.2 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

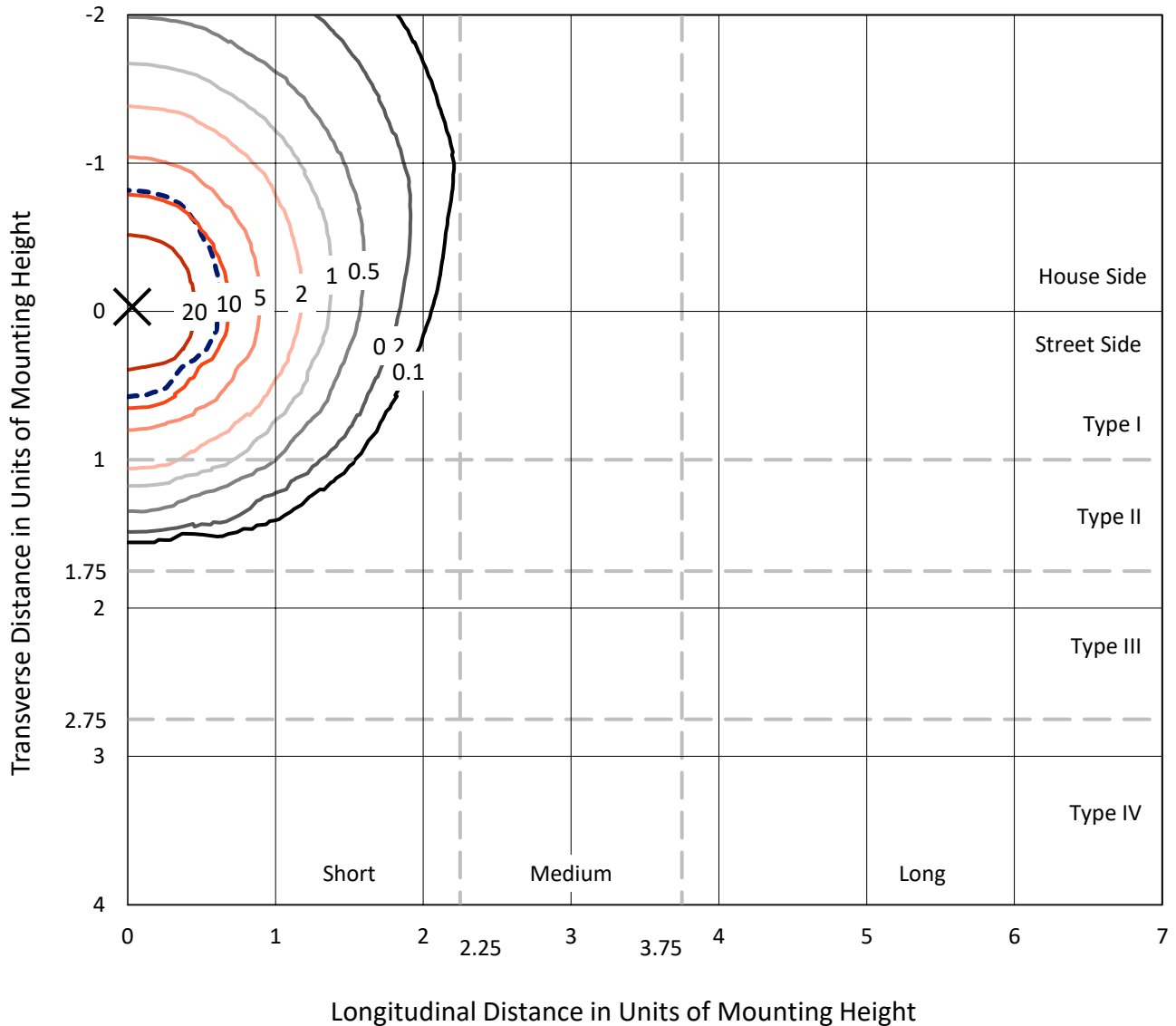
Input Watts (W): 189.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

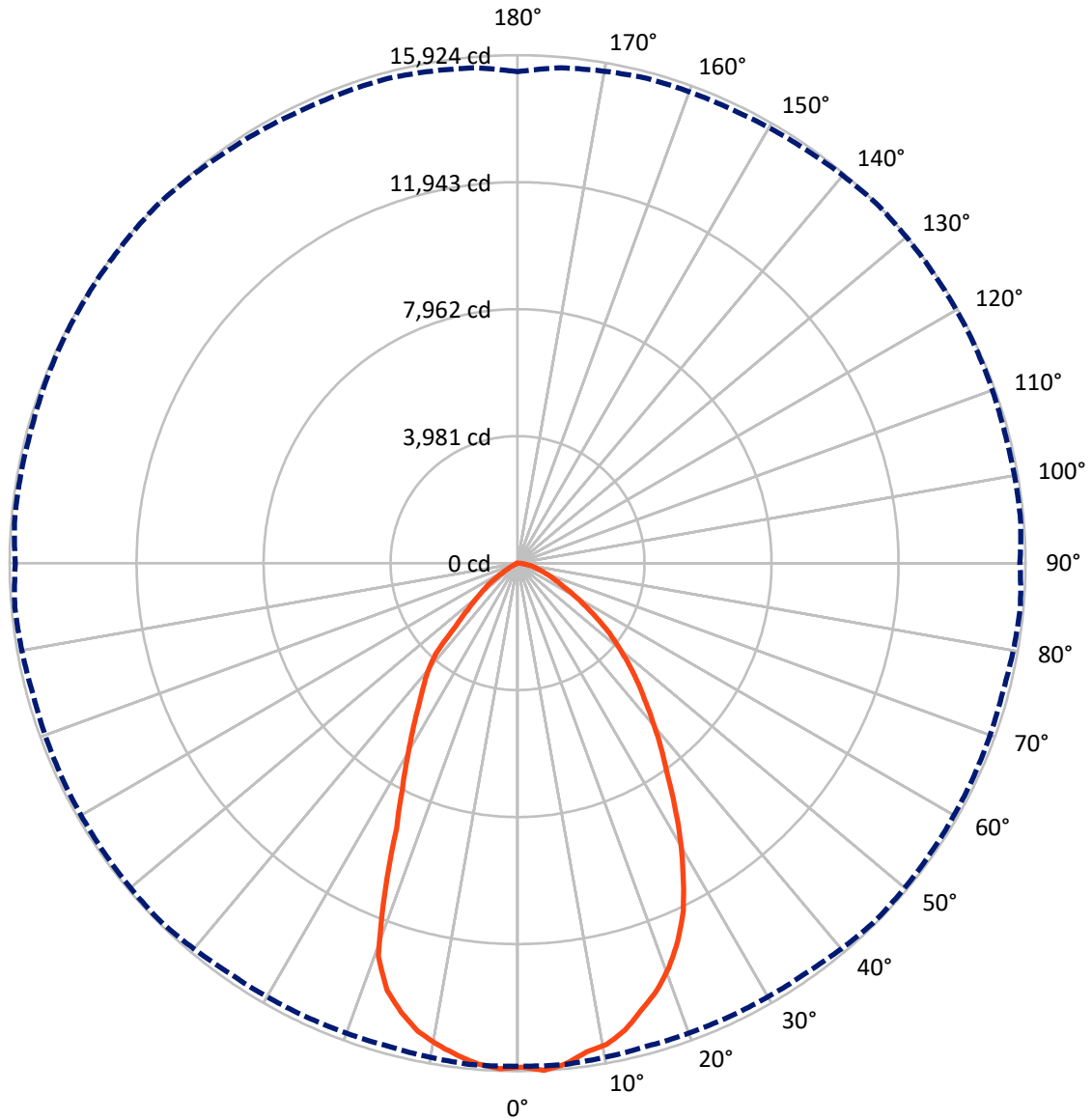
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 39.5 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
House Side	Lumens	12295.3	0.0	12295.3
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	8465.0	0.0	8465.0
	% Fixture	40.8	0.0	40.8
Total	Lumens	20760.2	0.0	20760.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1481.6	7.1
10°-20°	3973.1	19.1
20°-30°	4845.5	23.3
30°-40°	4423.8	21.3
40°-50°	3197.0	15.4
50°-60°	1745.6	8.4
60°-70°	721.7	3.5
70°-80°	292.3	1.4
80°-90°	79.5	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°	20760.2	100.0
0°-180°	20760.2	100.0

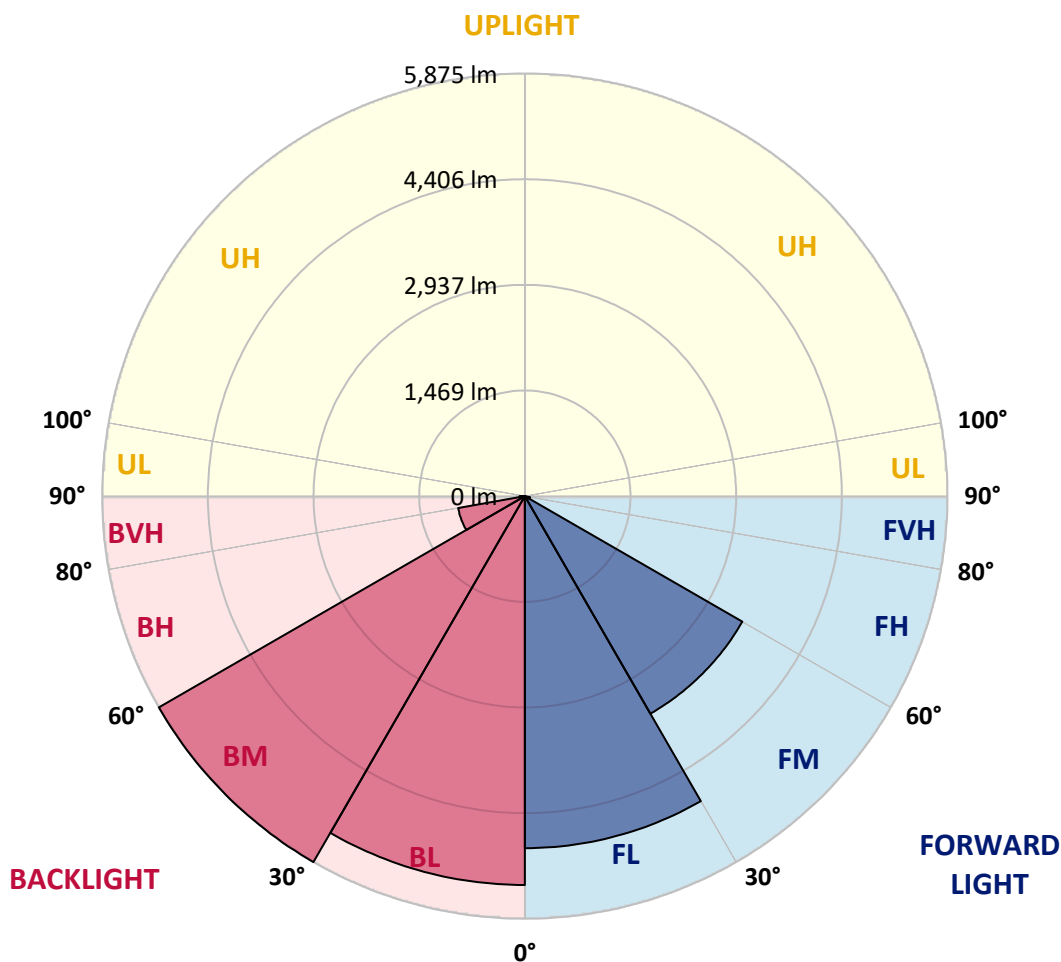


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4894.0	23.6			
FM (30°-60°)	3491.5	16.8			
FH (60°-80°)	73.1	0.4			G0/660
FVH (80°-90°)	6.4	0.0			G0/10
BL (0°-30°)	5406.3	26.0	B5		
BM (30°-60°)	5875.0	28.3	B4/8500		
BH (60°-80°)	940.9	4.5	B2/1000		G2/1000
BVH (80°-90°)	73.1	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-G2
 Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	15798.5	15798.5	15798.5	15798.5	15798.5	15798.5	15798.5	15798.5	15798.5	15798.5
2.5°	15769.2	15789.7	15678.6	15690.3	15710.8	15859.9	15821.9	15786.8	15737.1	15821.9
5°	15748.8	15760.5	15643.5	15602.6	15620.1	15754.6	15631.8	15631.8	15620.1	15605.5
7.5°	15590.9	15596.8	15506.1	15433.0	15479.8	15541.2	15450.6	15494.4	15430.1	15479.8
10°	15354.1	15316.1	15207.9	15187.5	15240.1	15298.6	15237.2	15278.1	15219.6	15257.6
12.5°	15006.2	14947.7	14860.0	14833.7	14924.4	15003.3	14953.6	14930.2	14854.2	14947.7
15°	13664.3	13620.5	13819.3	14167.2	14480.0	14547.2	14494.6	14518.0	14360.1	14386.4
17.5°	11246.6	11164.8	11378.2	12202.6	13377.8	13997.6	13950.8	13798.8	13564.9	13617.6
20°	10220.5	10197.1	10173.7	10369.6	11191.1	13070.9	13135.2	12749.3	12416.0	12342.9
22.5°	9641.6	9632.9	9609.5	9653.3	9869.7	11077.1	11813.8	11457.1	11234.9	11214.5
25°	9112.5	9097.9	9027.7	9083.2	9083.2	9153.4	10097.7	10314.0	10118.2	10094.8
27.5°	8574.6	8548.3	8536.6	8562.9	8428.4	7954.8	8194.5	9249.9	9147.6	9153.4
30°	7992.8	7984.0	7951.9	8007.4	7592.3	7004.7	6852.6	8285.1	8305.6	8299.8
32.5°	7127.4	7165.4	7311.6	7373.0	6688.9	6203.6	5949.3	7168.4	7586.4	7577.7
35°	5177.5	5177.5	5654.0	6539.8	5861.6	5496.1	5358.7	6077.9	6876.0	6905.3
37.5°	4256.6	4271.2	4364.8	4768.2	5057.6	4929.0	4888.1	5116.1	5963.9	6010.7
40°	3829.8	3829.8	3829.8	3663.1	3654.3	4440.8	4417.4	4344.3	5151.2	5253.5
42.5°	3440.9	3449.7	3455.6	3034.6	2800.7	3838.5	3785.9	3674.8	4423.2	4543.1
45°	3040.4	3055.0	3072.6	2537.6	2435.3	2762.7	3204.1	3081.3	3704.0	3859.0
47.5°	1856.4	1879.8	2277.4	2151.7	2163.4	2131.2	2613.6	2593.1	3037.5	3256.8
50°	1254.2	1262.9	1300.9	1365.3	1856.4	1675.2	1850.6	2145.8	2306.6	2639.9
52.5°	1052.5	1067.1	973.5	885.8	1219.1	1309.7	1292.2	1593.3	1657.6	2069.8
55°	739.6	786.4	742.6	733.8	692.9	1017.4	979.4	1224.9	1265.9	1572.8
57.5°	76.0	87.7	152.0	546.7	453.1	575.9	698.7	897.5	938.4	1160.6
60°	5.8	5.8	14.6	76.0	330.4	345.0	482.4	552.5	631.5	809.8
62.5°	0.0	2.9	5.8	11.7	52.6	184.2	242.6	289.4	380.1	523.3
65°	0.0	0.0	2.9	8.8	11.7	70.2	93.6	152.0	207.6	324.5
67.5°	0.0	0.0	2.9	5.8	8.8	17.5	32.2	55.5	111.1	184.2
70°	0.0	0.0	2.9	5.8	8.8	14.6	23.4	35.1	49.7	99.4
72.5°	0.0	0.0	2.9	2.9	5.8	14.6	17.5	23.4	35.1	49.7
75°	0.0	0.0	2.9	2.9	8.8	17.5	14.6	17.5	23.4	32.2
77.5°	0.0	0.0	2.9	5.8	8.8	17.5	14.6	17.5	17.5	20.5
80°	0.0	0.0	2.9	5.8	11.7	20.5	17.5	17.5	14.6	14.6
82.5°	0.0	0.0	2.9	8.8	11.7	26.3	26.3	23.4	11.7	8.8
85°	0.0	0.0	5.8	11.7	17.5	29.2	29.2	23.4	8.8	5.8
87.5°	0.0	0.0	5.8	8.8	14.6	20.5	29.2	23.4	8.8	2.9
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°
15798.5	0°	15798.5	15798.5	15798.5	15798.5	15798.5	15798.5	15798.5	15798.5	15798.5
15748.8	2.5°	15827.7	15810.2	15868.6	15892.0	15924.2	15801.4	15725.4	15728.3	15588.0
15570.4	5°	15664.0	15666.9	15742.9	15737.1	15769.2	15702.0	15672.8	15623.1	15500.3
15345.3	7.5°	15456.4	15430.1	15503.2	15558.8	15476.9	15523.7	15456.4	15479.8	15406.7
15146.5	10°	15295.6	15234.2	15301.5	15339.5	15342.4	15295.6	15231.3	15169.9	15143.6
14836.7	12.5°	14939.0	14860.0	14974.1	15026.7	15017.9	14927.3	14854.2	14868.8	14784.0
14292.9	15°	14447.8	14450.8	14532.6	14582.3	14535.5	14515.1	14520.9	14485.8	14412.7
13541.6	17.5°	13696.5	13740.3	13956.7	14076.5	14102.9	14061.9	14041.5	14000.5	13927.5
12342.9	20°	12445.2	12708.4	13094.3	13465.5	13538.6	13526.9	13453.8	13436.3	13395.4
11156.0	22.5°	11346.0	11541.9	11989.2	12568.0	12866.2	12895.5	12807.8	12781.4	12737.6
10094.8	25°	10208.8	10419.3	10822.7	11451.3	12068.1	12193.8	12179.2	12100.3	12053.5
9153.4	27.5°	9249.9	9460.4	9825.8	10393.0	11053.7	11457.1	11495.1	11369.4	11366.5
8314.4	30°	8384.5	8674.0	8951.7	9413.6	10053.8	10659.0	10723.3	10635.6	10644.4
7545.5	32.5°	7706.3	7946.0	8182.8	8492.7	9024.8	9729.3	9980.8	9898.9	9866.7
6905.3	35°	7013.4	7177.1	7419.8	7703.4	8065.9	8764.6	9200.2	9138.8	9106.6
6039.9	37.5°	6224.1	6504.7	6680.1	6998.8	7282.4	7837.8	8451.8	8443.0	8375.8
5303.2	40°	5414.3	5709.6	5975.6	6297.2	6516.4	6957.9	7639.0	7636.1	7644.9
4540.2	42.5°	4680.5	4952.4	5274.0	5624.8	5835.3	6156.8	6887.7	6928.6	6978.3
3911.6	45°	4016.9	4262.4	4560.6	4987.5	5241.8	5426.0	6075.0	6262.1	6259.2
3350.3	47.5°	3420.5	3651.4	3902.8	4318.0	4642.5	4809.1	5347.0	5613.1	5595.5
2748.1	50°	2870.9	3075.5	3338.6	3639.7	4075.3	4221.5	4622.0	4972.8	4946.5
2189.7	52.5°	2309.5	2593.1	2815.3	3090.1	3549.1	3692.4	4002.2	4344.3	4323.8
1643.0	55°	1800.9	2075.7	2344.6	2581.4	2967.3	3180.7	3402.9	3753.7	3747.9
1286.3	57.5°	1362.3	1663.5	1917.8	2142.9	2449.9	2713.0	2891.3	3210.0	3250.9
880.0	60°	1008.6	1239.6	1514.4	1765.8	2008.4	2280.3	2400.2	2713.0	2730.5
602.2	62.5°	687.0	941.4	1210.3	1438.4	1619.6	1900.3	2008.4	2265.7	2297.9
385.9	65°	476.5	640.2	947.2	1110.9	1333.1	1572.8	1681.0	1885.6	1950.0
222.2	67.5°	315.7	456.1	739.6	888.7	1108.0	1271.7	1409.1	1575.8	1645.9
140.3	70°	172.5	336.2	529.1	701.6	891.7	1049.5	1184.0	1318.5	1379.9
64.3	72.5°	116.9	225.1	368.4	555.5	719.2	874.1	994.0	1093.4	1096.3
38.0	75°	58.5	152.0	280.7	429.8	561.3	713.3	821.5	880.0	809.8
23.4	77.5°	35.1	111.1	228.0	345.0	456.1	575.9	637.3	669.5	555.5
17.5	80°	20.5	78.9	178.3	274.8	315.7	423.9	482.4	491.1	371.3
11.7	82.5°	14.6	58.5	140.3	201.7	192.9	298.2	362.5	350.8	236.8
8.8	85°	8.8	40.9	87.7	125.7	116.9	195.9	210.5	216.3	137.4
5.8	87.5°	5.8	23.4	46.8	67.2	55.5	84.8	84.8	102.3	67.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
15798.5
15406.7
15471.0
15283.9
15026.7
14710.9
14339.7
13895.3
13301.8
12725.9
12003.8
11360.6
10600.5
9869.7
9062.8
8431.3
7644.9
6952.0
6265.0
5601.4
4969.9
4367.7
3762.5
3233.4
2756.8
2303.7
1935.3
1637.1
1356.5
1070.0
757.2
535.0
347.9
219.3
125.7
58.5
0.0

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