

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: P638116

Luminaire Tested: **IFLD-M-SA4B-730-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638116
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-730-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (64) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15997.2 lumens
Efficiency: N/A
Efficacy: 96.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

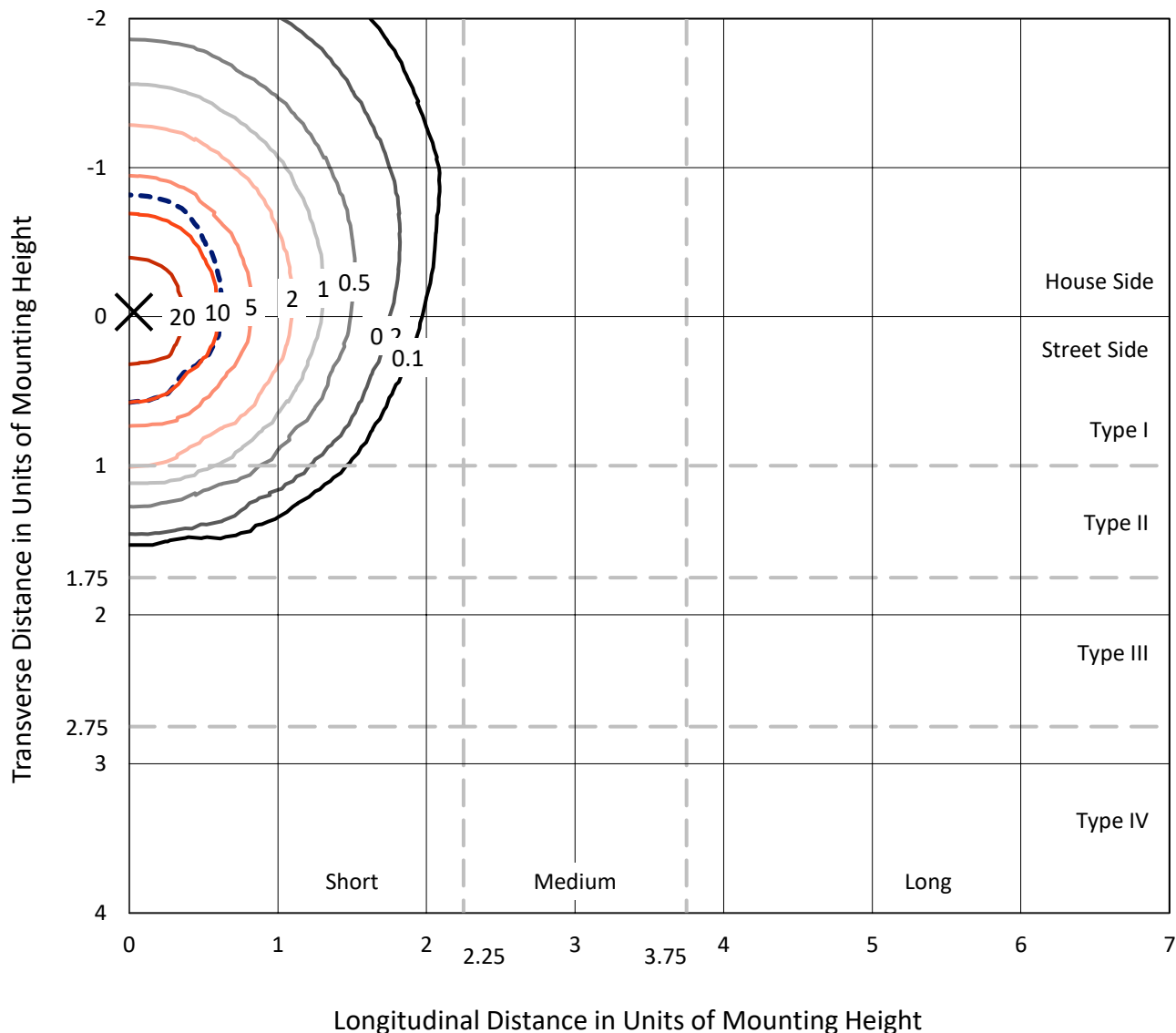
Input Watts (W): 166.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

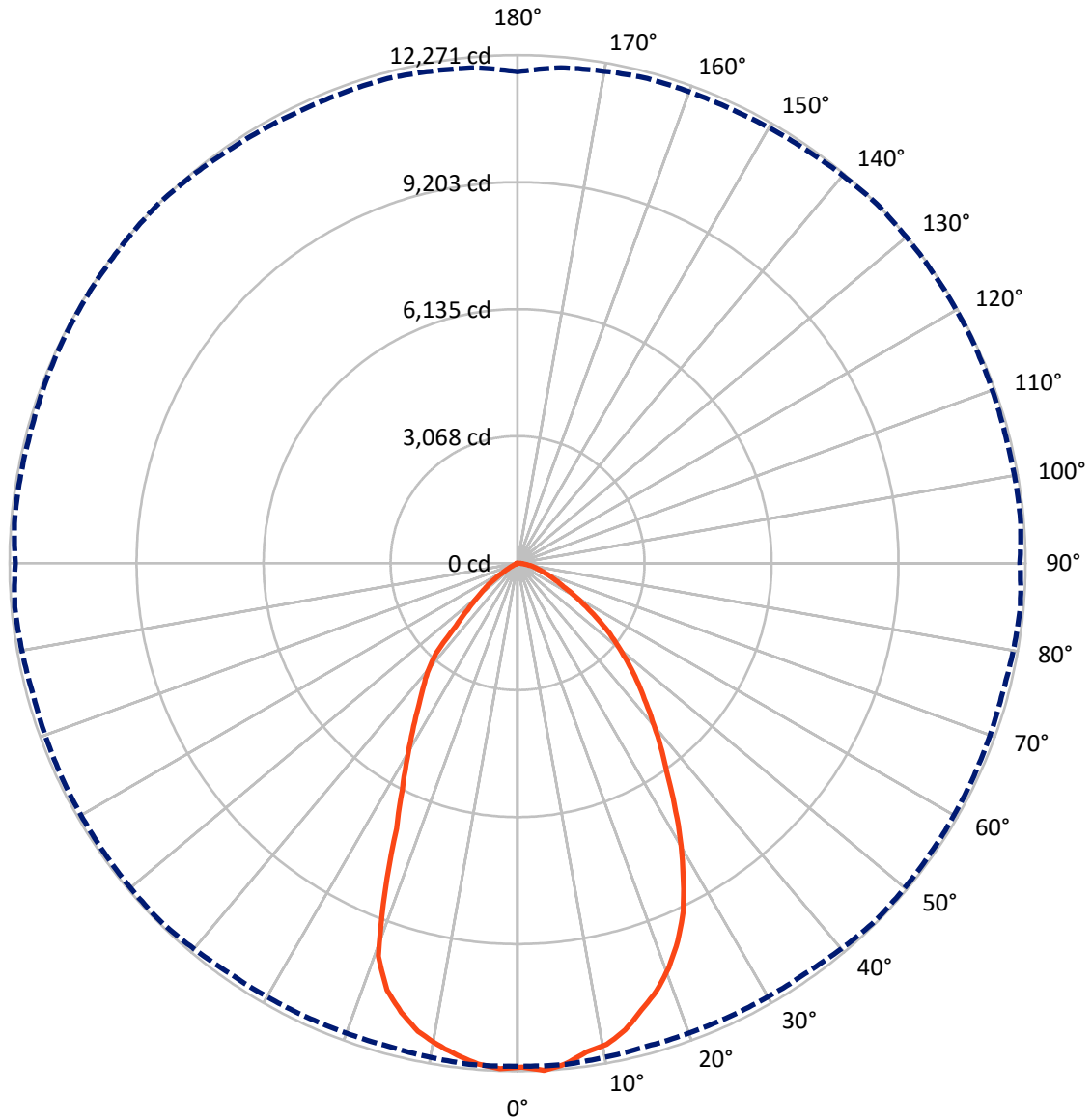
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 30.4 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	9474.4	0.0	9474.4
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	6522.8	0.0	6522.8
	% Fixture	40.8	0.0	40.8
Total	Lumens	15997.2	0.0	15997.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1141.7	7.1
10°-20°	3061.6	19.1
20°-30°	3733.8	23.3
30°-40°	3408.9	21.3
40°-50°	2463.5	15.4
50°-60°	1345.1	8.4
60°-70°	556.2	3.5
70°-80°	225.2	1.4
80°-90°	61.3	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°	15997.2	100.0
0°-180°	15997.2	100.0



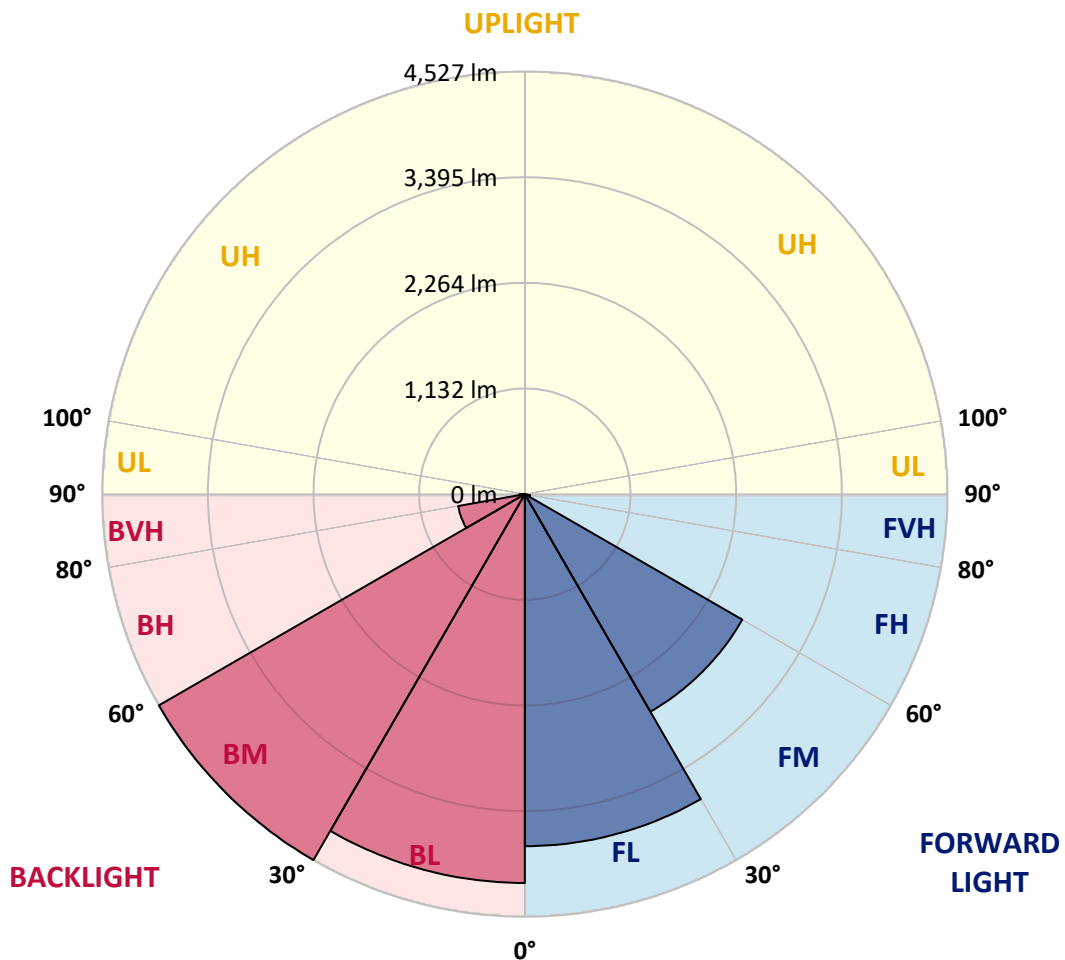
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3771.1	23.6			
FM (30°-60°)	2690.4	16.8			
FH (60°-80°)	56.4	0.4			G0/660
FVH (80°-90°)	4.9	0.0			G0/10
BL (0°-30°)	4165.9	26.0	B4/5000		
BM (30°-60°)	4527.1	28.3	B3/5000		
BH (60°-80°)	725.0	4.5	B2/1000		G2/1000
BVH (80°-90°)	56.4	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	12173.8	12173.8	12173.8	12173.8	12173.8	12173.8	12173.8	12173.8	12173.8	12173.8
2.5°	12151.3	12167.1	12081.4	12090.5	12106.2	12221.1	12191.8	12164.8	12126.5	12191.8
5°	12135.5	12144.5	12054.4	12022.9	12036.4	12140.0	12045.4	12045.4	12036.4	12025.1
7.5°	12013.9	12018.4	11948.5	11892.2	11928.3	11975.6	11905.7	11939.5	11890.0	11928.3
10°	11831.4	11802.1	11718.8	11703.0	11743.5	11788.6	11741.3	11772.8	11727.8	11757.1
12.5°	11563.3	11518.3	11450.7	11430.4	11500.2	11561.1	11522.8	11504.7	11446.2	11518.3
15°	10529.3	10495.5	10648.7	10916.8	11157.8	11209.6	11169.1	11187.1	11065.5	11085.7
17.5°	8666.3	8603.2	8767.7	9402.9	10308.5	10786.1	10750.1	10632.9	10452.7	10493.3
20°	7875.6	7857.6	7839.5	7990.5	8623.5	10072.0	10121.6	9824.2	9567.4	9511.1
22.5°	7429.5	7422.8	7404.8	7438.5	7605.3	8535.6	9103.3	8828.5	8657.3	8641.5
25°	7021.8	7010.5	6956.5	6999.3	6999.3	7053.3	7781.0	7947.7	7796.7	7778.7
27.5°	6607.3	6587.0	6578.0	6598.3	6494.7	6129.7	6314.4	7127.7	7048.8	7053.3
30°	6159.0	6152.2	6127.5	6170.3	5850.4	5397.6	5280.4	6384.3	6400.0	6395.5
32.5°	5492.2	5521.5	5634.1	5681.4	5154.3	4780.3	4584.3	5523.7	5845.9	5839.1
35°	3989.6	3989.6	4356.8	5039.4	4516.7	4235.2	4129.3	4683.4	5298.4	5321.0
37.5°	3280.0	3291.3	3363.3	3674.2	3897.2	3798.1	3766.6	3942.3	4595.6	4631.6
40°	2951.1	2951.1	2951.1	2822.7	2815.9	3421.9	3403.9	3347.6	3969.3	4048.2
42.5°	2651.5	2658.2	2662.7	2338.3	2158.1	2957.8	2917.3	2831.7	3408.4	3500.8
45°	2342.8	2354.1	2367.6	1955.4	1876.5	2128.8	2469.0	2374.4	2854.2	2973.6
47.5°	1430.5	1448.5	1754.9	1658.0	1667.0	1642.2	2013.9	1998.2	2340.6	2509.6
50°	966.4	973.2	1002.5	1052.0	1430.5	1290.8	1426.0	1653.5	1777.4	2034.2
52.5°	811.0	822.3	750.2	682.6	939.4	1009.2	995.7	1227.7	1277.3	1594.9
55°	569.9	606.0	572.2	565.4	533.9	784.0	754.7	943.9	975.4	1212.0
57.5°	58.6	67.6	117.1	421.3	349.2	443.8	538.4	691.6	723.1	894.3
60°	4.5	4.5	11.3	58.6	254.6	265.8	371.7	425.8	486.6	624.0
62.5°	0.0	2.3	4.5	9.0	40.5	141.9	187.0	223.0	292.9	403.2
65°	0.0	0.0	2.3	6.8	9.0	54.1	72.1	117.1	159.9	250.1
67.5°	0.0	0.0	2.3	4.5	6.8	13.5	24.8	42.8	85.6	141.9
70°	0.0	0.0	2.3	4.5	6.8	11.3	18.0	27.0	38.3	76.6
72.5°	0.0	0.0	2.3	2.3	4.5	11.3	13.5	18.0	27.0	38.3
75°	0.0	0.0	2.3	2.3	6.8	13.5	11.3	13.5	18.0	24.8
77.5°	0.0	0.0	2.3	4.5	6.8	13.5	11.3	13.5	13.5	15.8
80°	0.0	0.0	2.3	4.5	9.0	15.8	13.5	13.5	11.3	11.3
82.5°	0.0	0.0	2.3	6.8	9.0	20.3	20.3	18.0	9.0	6.8
85°	0.0	0.0	4.5	9.0	13.5	22.5	22.5	18.0	6.8	4.5
87.5°	0.0	0.0	4.5	6.8	11.3	15.8	22.5	18.0	6.8	2.3
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°
12173.8	0°	12173.8	12173.8	12173.8	12173.8	12173.8	12173.8	12173.8	12173.8	12173.8
12135.5	2.5°	12196.3	12182.8	12227.9	12245.9	12270.7	12176.1	12117.5	12119.7	12011.6
11998.1	5°	12070.2	12072.4	12131.0	12126.5	12151.3	12099.5	12076.9	12038.6	11944.0
11824.6	7.5°	11910.2	11890.0	11946.3	11989.1	11926.0	11962.1	11910.2	11928.3	11871.9
11671.4	10°	11786.3	11739.0	11790.8	11820.1	11822.4	11786.3	11736.8	11689.5	11669.2
11432.7	12.5°	11511.5	11450.7	11538.5	11579.1	11572.3	11502.5	11446.2	11457.4	11392.1
11013.6	15°	11133.0	11135.3	11198.4	11236.7	11200.6	11184.9	11189.4	11162.3	11106.0
10434.7	17.5°	10554.1	10587.9	10754.6	10846.9	10867.2	10835.7	10819.9	10788.4	10732.1
9511.1	20°	9589.9	9792.7	10090.0	10376.1	10432.4	10423.4	10367.1	10353.6	10322.1
8596.5	22.5°	8742.9	8893.8	9238.5	9684.5	9914.3	9936.8	9869.3	9849.0	9815.2
7778.7	25°	7866.6	8028.8	8339.6	8824.0	9299.3	9396.2	9384.9	9324.1	9288.0
7053.3	27.5°	7127.7	7289.9	7571.5	8008.5	8517.6	8828.5	8857.8	8760.9	8758.7
6406.8	30°	6460.9	6683.9	6897.9	7253.8	7747.2	8213.5	8263.1	8195.5	8202.2
5814.3	32.5°	5938.2	6122.9	6305.4	6544.2	6954.2	7497.1	7690.9	7627.8	7603.0
5321.0	35°	5404.3	5530.5	5717.5	5936.0	6215.3	6753.7	7089.4	7042.1	7017.3
4654.2	37.5°	4796.1	5012.3	5147.5	5393.1	5611.6	6039.6	6512.7	6505.9	6454.1
4086.5	40°	4172.1	4399.6	4604.6	4852.4	5021.4	5361.5	5886.4	5884.2	5890.9
3498.5	42.5°	3606.6	3816.1	4063.9	4334.3	4496.5	4744.3	5307.5	5339.0	5377.3
3014.2	45°	3095.3	3284.5	3514.3	3843.2	4039.2	4181.1	4681.2	4825.4	4823.1
2581.6	47.5°	2635.7	2813.7	3007.4	3327.3	3577.4	3705.8	4120.3	4325.3	4311.7
2117.6	50°	2212.2	2369.9	2572.6	2804.7	3140.3	3253.0	3561.6	3831.9	3811.6
1687.3	52.5°	1779.7	1998.2	2169.4	2381.1	2734.8	2845.2	3084.0	3347.6	3331.8
1266.0	55°	1387.7	1599.4	1806.7	1989.2	2286.5	2451.0	2622.2	2892.5	2888.0
991.2	57.5°	1049.8	1281.8	1477.8	1651.3	1887.8	2090.5	2228.0	2473.5	2505.0
678.1	60°	777.2	955.2	1166.9	1360.7	1547.6	1757.1	1849.5	2090.5	2104.1
464.1	62.5°	529.4	725.4	932.6	1108.3	1248.0	1464.3	1547.6	1745.9	1770.7
297.4	65°	367.2	493.4	729.9	856.0	1027.2	1212.0	1295.3	1453.0	1502.6
171.2	67.5°	243.3	351.4	569.9	684.8	853.8	979.9	1085.8	1214.2	1268.3
108.1	70°	132.9	259.1	407.7	540.7	687.1	808.7	912.4	1016.0	1063.3
49.6	72.5°	90.1	173.5	283.8	428.0	554.2	673.6	765.9	842.5	844.8
29.3	75°	45.1	117.1	216.3	331.2	432.5	549.7	633.0	678.1	624.0
18.0	77.5°	27.0	85.6	175.7	265.8	351.4	443.8	491.1	515.9	428.0
13.5	80°	15.8	60.8	137.4	211.8	243.3	326.6	371.7	378.5	286.1
9.0	82.5°	11.3	45.1	108.1	155.4	148.7	229.8	279.3	270.3	182.5
6.8	85°	6.8	31.5	67.6	96.9	90.1	150.9	162.2	166.7	105.9
4.5	87.5°	4.5	18.0	36.0	51.8	42.8	65.3	65.3	78.8	51.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
12173.8
11871.9
11921.5
11777.3
11579.1
11335.8
11049.7
10707.3
10250.0
9806.2
9249.8
8754.1
8168.4
7605.3
6983.5
6496.9
5890.9
5357.0
4827.6
4316.3
3829.7
3365.6
2899.3
2491.5
2124.3
1775.2
1491.3
1261.5
1045.3
824.5
583.5
412.3
268.1
169.0
96.9
45.1
0.0

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