

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: P638213

Luminaire Tested: **IFLD-L-SA8B-750-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638213
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-750-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (128) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32021.7 lumens
Efficiency: N/A
Efficacy: 100.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

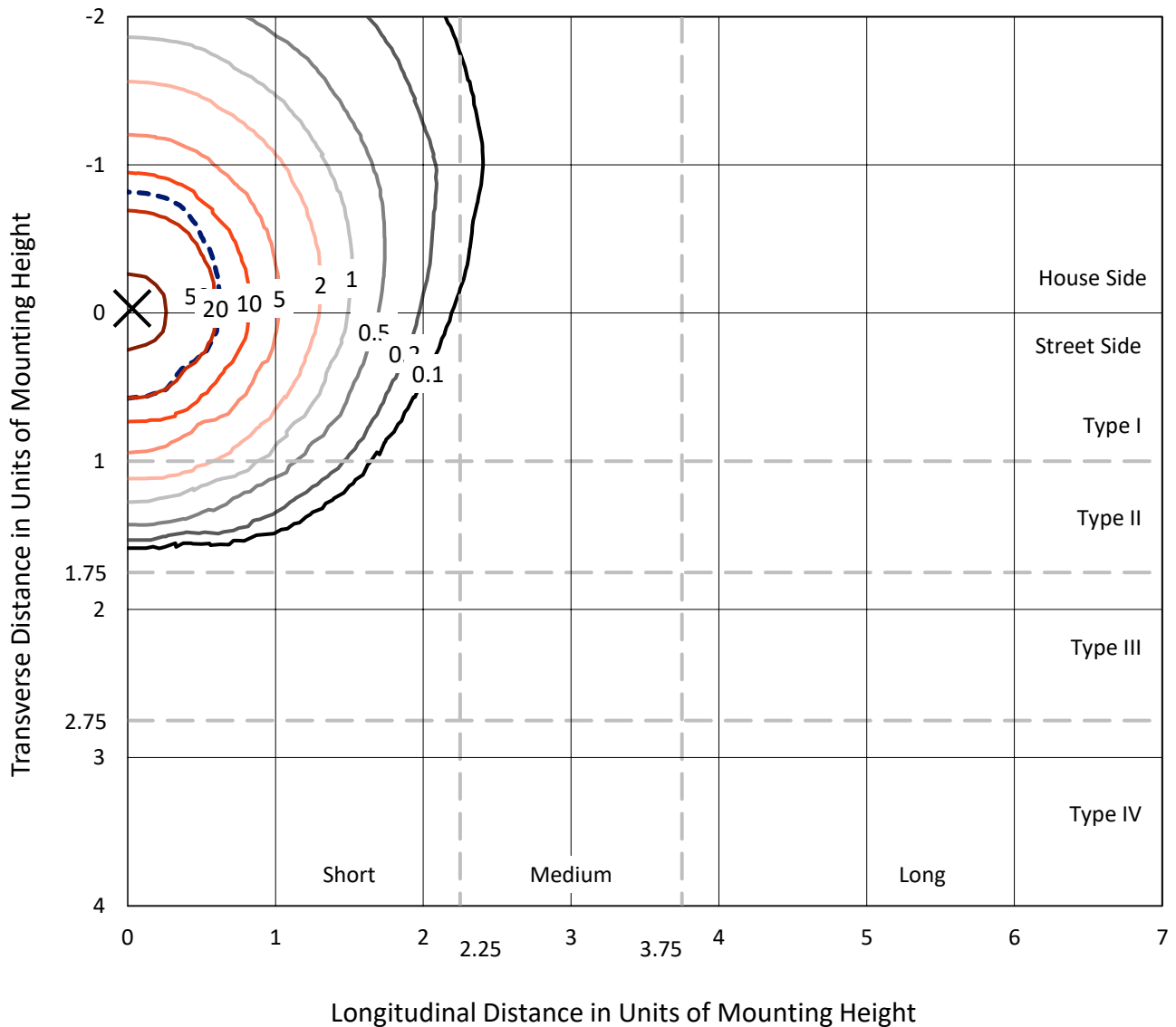
Input Watts (W): 320
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

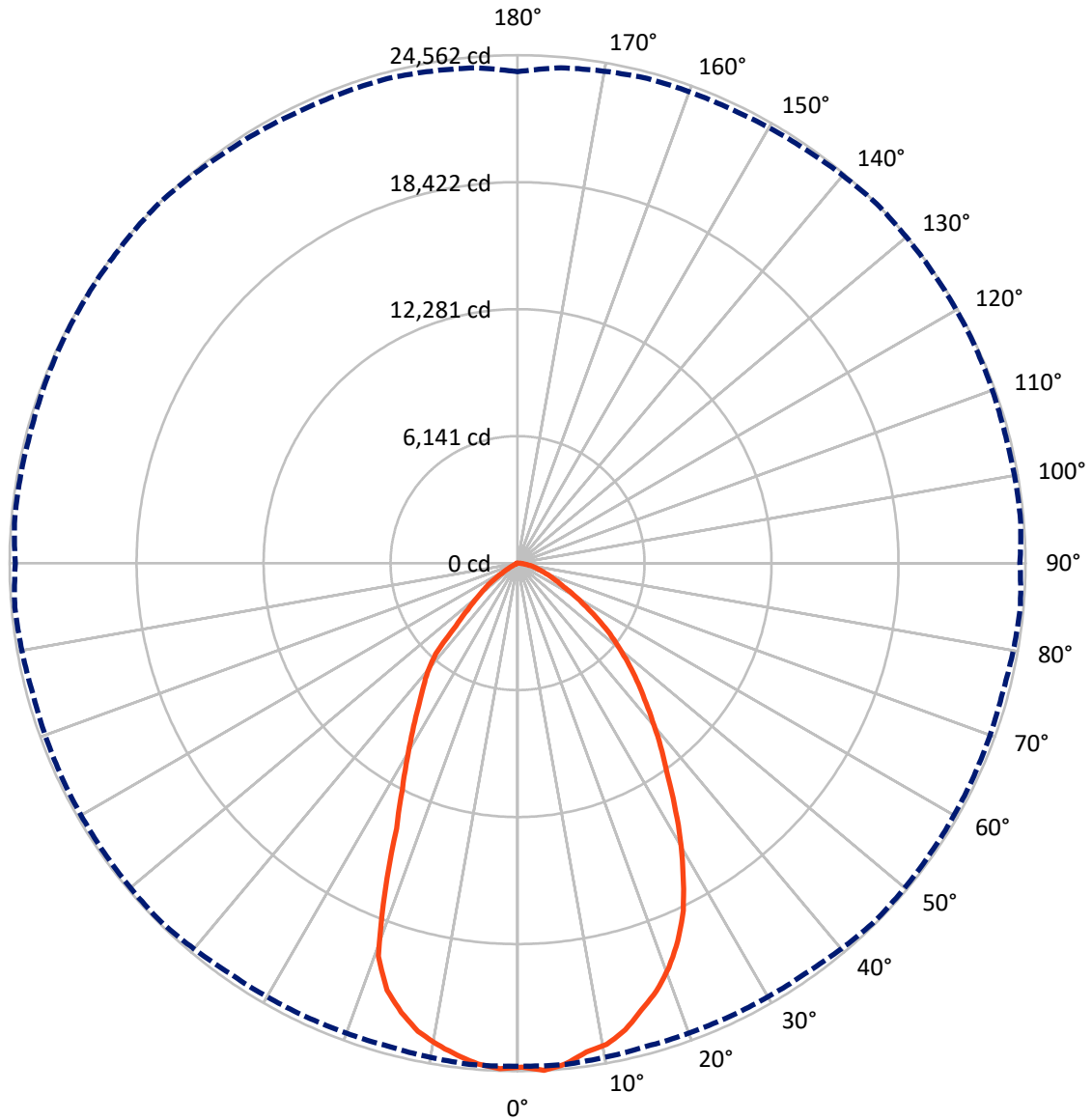
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 60.9 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	18964.9	0.0	18964.9
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	13056.8	0.0	13056.8
	% Fixture	40.8	0.0	40.8
Total	Lumens	32021.7	0.0	32021.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2285.4	7.1
10°-20°	6128.4	19.1
20°-30°	7473.9	23.3
30°-40°	6823.6	21.3
40°-50°	4931.2	15.4
50°-60°	2692.5	8.4
60°-70°	1113.3	3.5
70°-80°	450.9	1.4
80°-90°	122.6	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°	32021.7	100.0
0°-180°	32021.7	100.0



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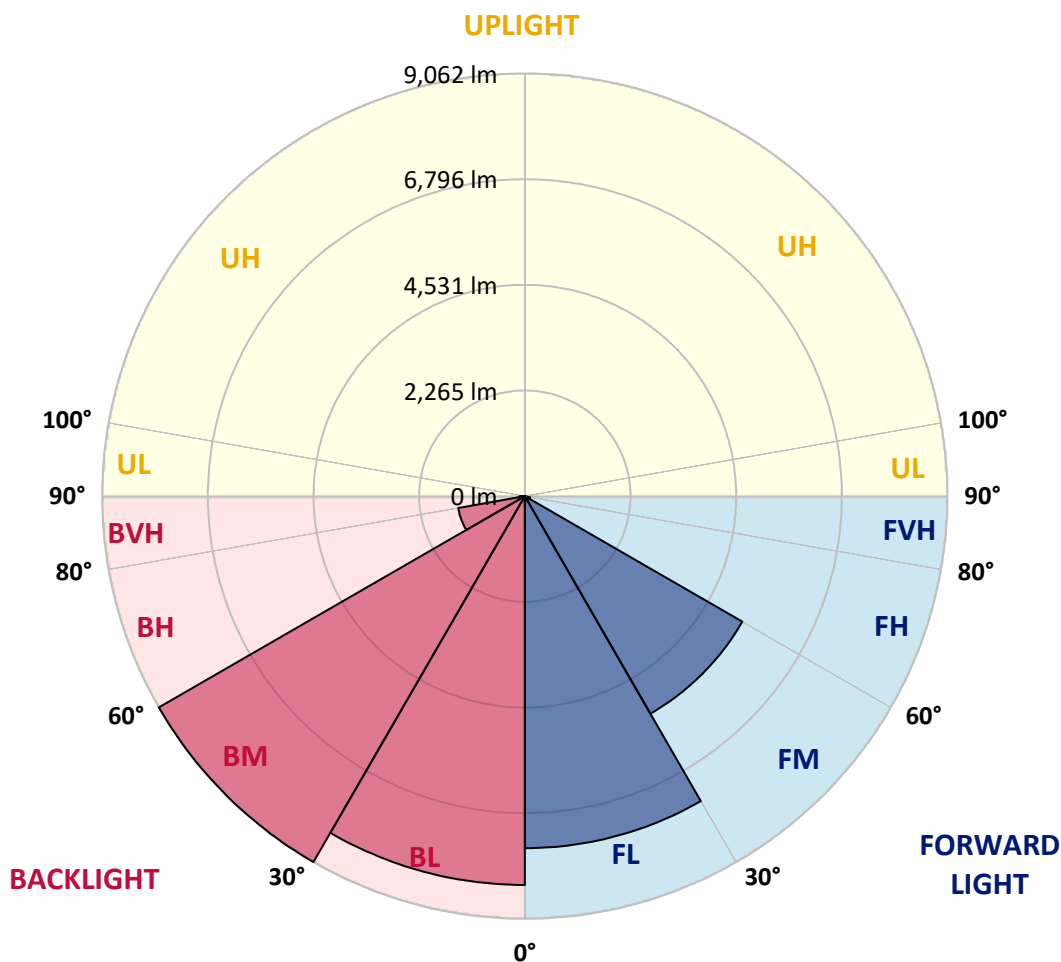
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7548.7	23.6			
FM (30°-60°)	5385.4	16.8			
FH (60°-80°)	112.8	0.4			G0/660
FVH (80°-90°)	9.8	0.0			G0/10
BL (0°-30°)	8338.9	26.0	B5		
BM (30°-60°)	9061.9	28.3	B5		
BH (60°-80°)	1451.3	4.5	B3/2500		G3/2500
BVH (80°-90°)	112.8	0.4			G2/225
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°	24368.4	24368.4	24368.4	24368.4	24368.4	24368.4	24368.4	24368.4	24368.4	24368.4
2.5°	24323.3	24354.9	24183.5	24201.5	24233.1	24463.1	24404.5	24350.4	24273.7	24404.5
5°	24291.7	24309.8	24129.4	24066.3	24093.3	24300.7	24111.4	24111.4	24093.3	24070.8
7.5°	24048.2	24057.2	23917.5	23804.7	23876.9	23971.6	23831.8	23899.4	23800.2	23876.9
10°	23683.0	23624.4	23457.5	23425.9	23507.1	23597.3	23502.6	23565.7	23475.5	23534.2
12.5°	23146.4	23056.2	22920.9	22880.3	23020.1	23141.9	23065.2	23029.1	22911.9	23056.2
15°	21076.6	21008.9	21315.6	21852.2	22334.7	22438.4	22357.2	22393.3	22149.8	22190.4
17.5°	17347.4	17221.1	17550.3	18821.9	20634.7	21590.6	21518.5	21284.0	20923.3	21004.4
20°	15764.6	15728.5	15692.4	15994.6	17261.7	20161.2	20260.4	19665.2	19151.1	19038.4
22.5°	14871.8	14858.2	14822.1	14889.8	15223.5	17085.8	18222.2	17672.0	17329.3	17297.8
25°	14055.6	14033.0	13924.8	14010.5	14010.5	14118.7	15575.2	15908.9	15606.8	15570.7
27.5°	13225.8	13185.3	13167.2	13207.8	13000.4	12269.9	12639.6	14267.5	14109.7	14118.7
30°	12328.5	12315.0	12265.4	12351.0	11710.7	10804.3	10569.9	12779.4	12811.0	12802.0
32.5°	10993.7	11052.4	11277.8	11372.5	10317.3	9568.8	9176.5	11056.9	11701.7	11688.2
35°	7986.0	7986.0	8721.0	10087.4	9041.2	8477.5	8265.6	9374.9	10605.9	10651.0
37.5°	6565.6	6588.1	6732.4	7354.7	7801.1	7602.7	7539.6	7891.3	9199.0	9271.2
40°	5907.2	5907.2	5907.2	5650.2	5636.7	6849.7	6813.6	6700.9	7945.4	8103.3
42.5°	5307.5	5321.0	5330.0	4680.7	4319.9	5920.7	5839.6	5668.2	6822.6	7007.5
45°	4689.7	4712.2	4739.3	3914.1	3756.3	4261.3	4942.2	4752.8	5713.3	5952.3
47.5°	2863.4	2899.5	3512.8	3318.9	3336.9	3287.3	4031.3	3999.8	4685.2	5023.4
50°	1934.5	1948.0	2006.6	2105.9	2863.4	2583.8	2854.4	3309.8	3557.9	4071.9
52.5°	1623.4	1645.9	1501.6	1366.3	1880.4	2020.2	1993.1	2457.6	2556.8	3192.6
55°	1140.9	1213.0	1145.4	1131.8	1068.7	1569.2	1510.6	1889.4	1952.5	2426.0
57.5°	117.2	135.3	234.5	843.2	698.9	888.3	1077.7	1384.4	1447.5	1790.2
60°	9.0	9.0	22.5	117.2	509.6	532.1	744.0	852.3	974.0	1249.1
62.5°	0.0	4.5	9.0	18.0	81.2	284.1	374.3	446.4	586.2	807.2
65°	0.0	0.0	4.5	13.5	18.0	108.2	144.3	234.5	320.2	500.5
67.5°	0.0	0.0	4.5	9.0	13.5	27.1	49.6	85.7	171.4	284.1
70°	0.0	0.0	4.5	9.0	13.5	22.5	36.1	54.1	76.7	153.3
72.5°	0.0	0.0	4.5	4.5	9.0	22.5	27.1	36.1	54.1	76.7
75°	0.0	0.0	4.5	4.5	13.5	27.1	22.5	27.1	36.1	49.6
77.5°	0.0	0.0	4.5	9.0	13.5	27.1	22.5	27.1	27.1	31.6
80°	0.0	0.0	4.5	9.0	18.0	31.6	27.1	27.1	22.5	22.5
82.5°	0.0	0.0	4.5	13.5	18.0	40.6	40.6	36.1	18.0	13.5
85°	0.0	0.0	9.0	18.0	27.1	45.1	45.1	36.1	13.5	9.0
87.5°	0.0	0.0	9.0	13.5	22.5	31.6	45.1	36.1	13.5	4.5
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°
24368.4	0°	24368.4	24368.4	24368.4	24368.4	24368.4	24368.4	24368.4	24368.4	24368.4
24291.7	2.5°	24413.5	24386.4	24476.6	24512.7	24562.3	24372.9	24255.7	24260.2	24043.7
24016.7	5°	24161.0	24165.5	24282.7	24273.7	24323.3	24219.6	24174.5	24097.8	23908.4
23669.4	7.5°	23840.8	23800.2	23912.9	23998.6	23872.4	23944.5	23840.8	23876.9	23764.1
23362.8	10°	23592.8	23498.1	23601.8	23660.4	23664.9	23592.8	23493.6	23398.9	23358.3
22884.8	12.5°	23042.6	22920.9	23096.8	23177.9	23164.4	23024.6	22911.9	22934.4	22803.7
22046.1	15°	22285.1	22289.6	22415.9	22492.5	22420.4	22388.8	22397.8	22343.7	22231.0
20887.2	17.5°	21126.2	21193.8	21527.5	21712.4	21753.0	21689.9	21658.3	21595.2	21482.4
19038.4	20°	19196.2	19602.0	20197.3	20769.9	20882.7	20864.6	20751.9	20724.9	20661.7
17207.6	22.5°	17500.7	17802.8	18492.7	19385.6	19845.5	19890.6	19755.4	19714.8	19647.1
15570.7	25°	15746.6	16071.2	16693.5	17663.0	18614.5	18808.4	18785.8	18664.1	18591.9
14118.7	27.5°	14267.5	14592.2	15155.8	16030.6	17049.8	17672.0	17730.7	17536.8	17532.3
12824.5	30°	12932.7	13379.2	13807.6	14520.0	15507.6	16441.0	16540.2	16404.9	16418.5
11638.6	32.5°	11886.6	12256.3	12621.6	13099.6	13920.3	15007.0	15394.8	15268.6	15219.0
10651.0	35°	10817.9	11070.4	11444.7	11882.1	12441.2	13519.0	14190.8	14096.1	14046.5
9316.3	37.5°	9600.4	10033.2	10303.8	10795.3	11232.7	12089.5	13036.5	13022.9	12919.2
8179.9	40°	8351.3	8806.7	9217.1	9713.1	10051.3	10732.2	11782.9	11778.4	11791.9
7003.0	42.5°	7219.4	7638.8	8134.8	8675.9	9000.6	9496.6	10624.0	10687.1	10763.8
6033.5	45°	6195.8	6574.6	7034.5	7692.9	8085.2	8369.3	9370.4	9659.0	9654.5
5167.7	47.5°	5275.9	5632.1	6019.9	6660.3	7160.8	7417.8	8247.6	8657.9	8630.8
4238.8	50°	4428.2	4743.8	5149.6	5614.1	6286.0	6511.5	7129.2	7670.4	7629.8
3377.5	52.5°	3562.4	3999.8	4342.5	4766.4	5474.3	5695.3	6173.3	6700.9	6669.3
2534.2	55°	2777.7	3201.6	3616.5	3981.7	4577.0	4906.1	5248.9	5790.0	5781.0
1984.1	57.5°	2101.3	2565.8	2958.1	3305.3	3778.8	4184.7	4459.7	4951.2	5014.4
1357.3	60°	1555.7	1912.0	2335.8	2723.6	3097.9	3517.3	3702.2	4184.7	4211.7
928.9	62.5°	1059.7	1452.0	1866.9	2218.6	2498.2	2931.1	3097.9	3494.7	3544.3
595.2	65°	735.0	987.5	1461.0	1713.5	2056.3	2426.0	2592.9	2908.5	3007.7
342.7	67.5°	487.0	703.5	1140.9	1370.8	1709.0	1961.6	2173.5	2430.5	2538.7
216.4	70°	266.1	518.6	816.2	1082.2	1375.3	1618.8	1826.3	2033.7	2128.4
99.2	72.5°	180.4	347.2	568.2	856.8	1109.3	1348.3	1533.2	1686.5	1691.0
58.6	75°	90.2	234.5	432.9	662.9	865.8	1100.3	1267.1	1357.3	1249.1
36.1	77.5°	54.1	171.4	351.7	532.1	703.5	888.3	983.0	1032.6	856.8
27.1	80°	31.6	121.8	275.1	423.9	487.0	653.9	744.0	757.6	572.7
18.0	82.5°	22.5	90.2	216.4	311.1	297.6	460.0	559.2	541.1	365.3
13.5	85°	13.5	63.1	135.3	193.9	180.4	302.1	324.7	333.7	211.9
9.0	87.5°	9.0	36.1	72.1	103.7	85.7	130.8	130.8	157.8	103.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
24368.4
23764.1
23863.3
23574.7
23177.9
22690.9
22118.2
21432.8
20517.4
19629.1
18515.3
17523.2
16350.8
15223.5
13978.9
13004.9
11791.9
10723.2
9663.5
8639.9
7665.9
6736.9
5803.5
4987.3
4252.3
3553.3
2985.2
2525.2
2092.3
1650.4
1167.9
825.2
536.6
338.2
193.9
90.2
0.0

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