

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: P638024

Luminaire Tested: **IFLD-S-SA6B-830-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638024
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-830-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (96) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22364.9 lumens
Efficiency: N/A
Efficacy: 91.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

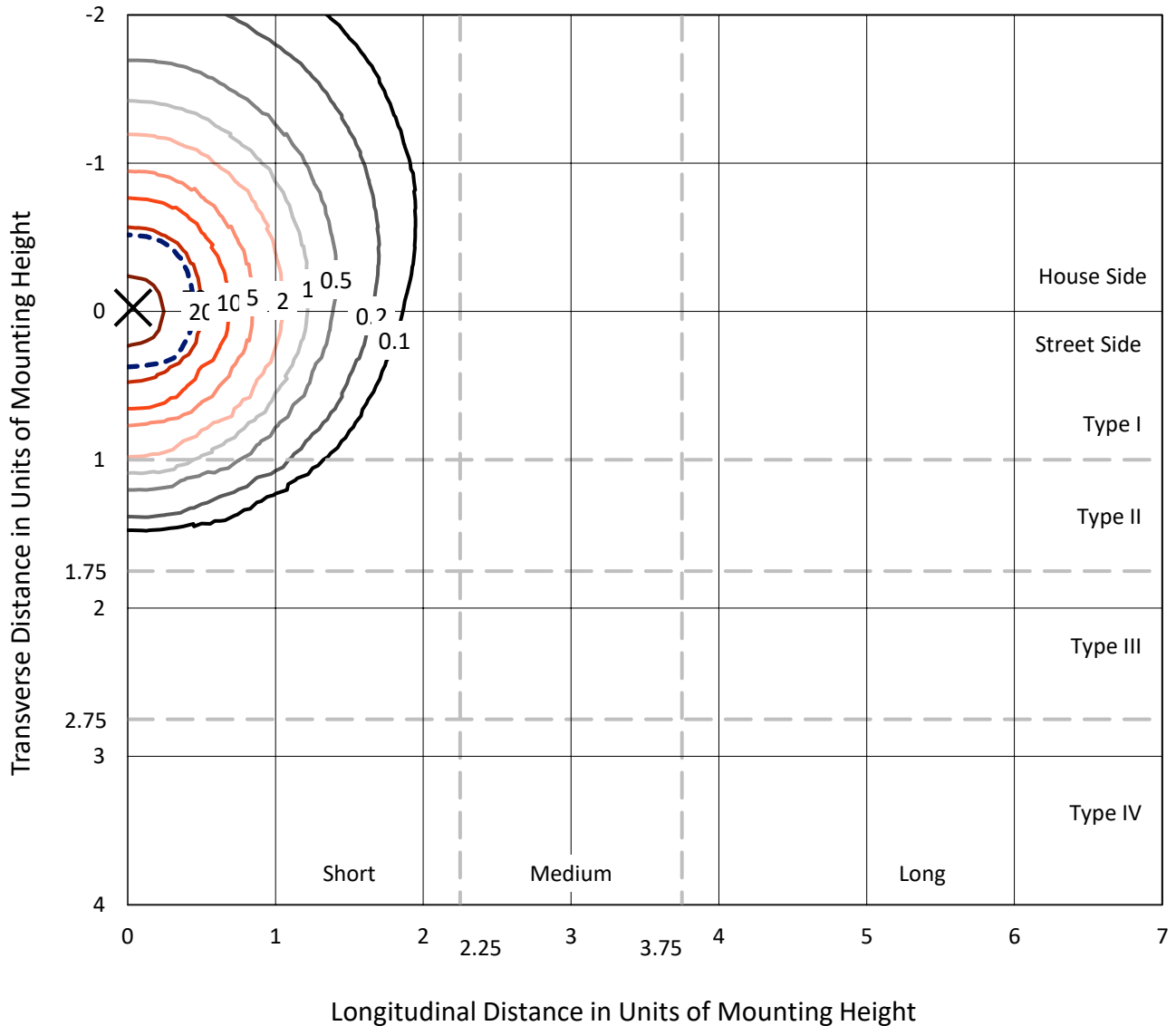
Input Watts (W): 244.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

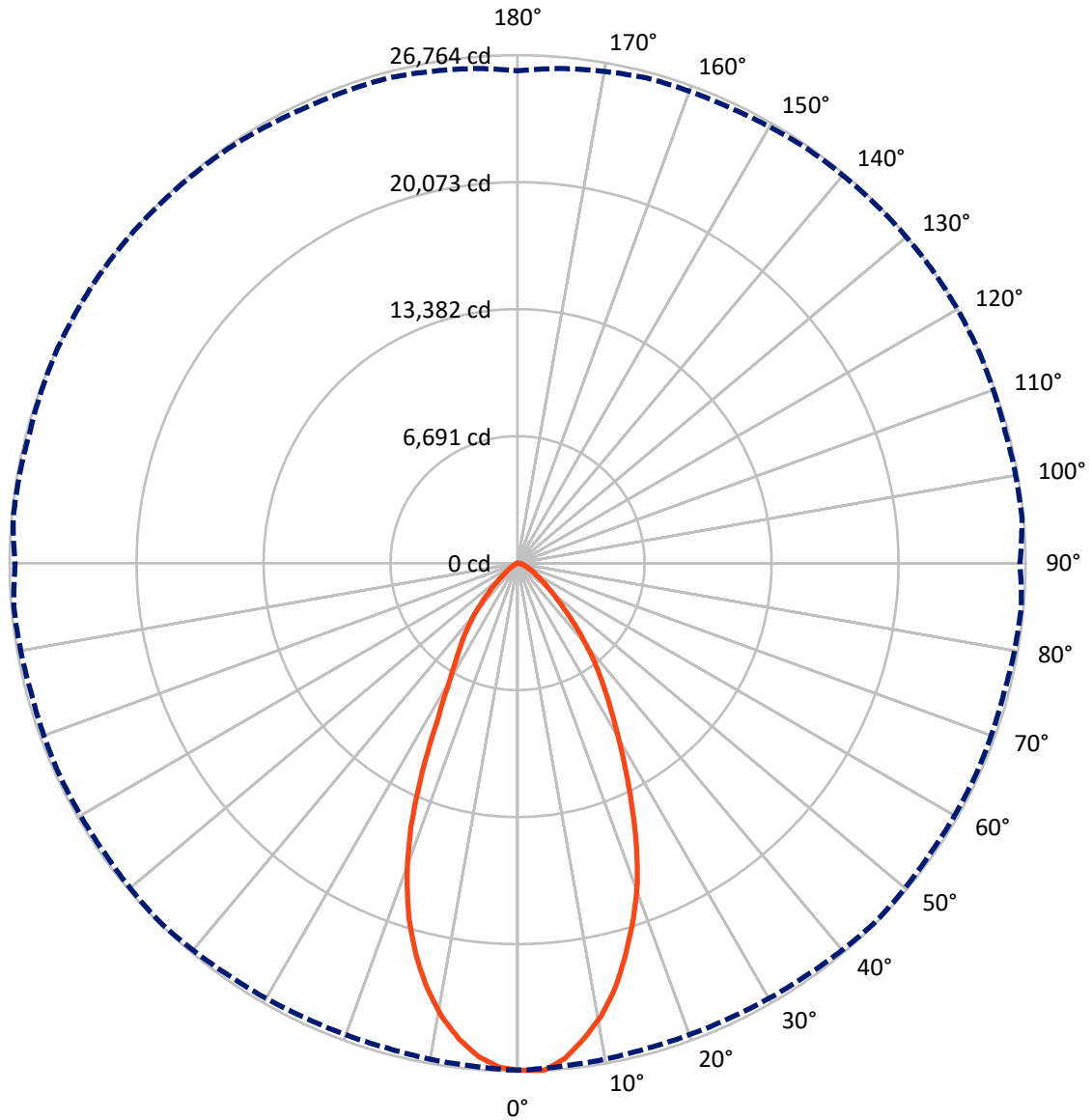
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 66.8 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 125-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12690.7	0.0	12690.7
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	9674.2	0.0	9674.2
	% Fixture	43.3	0.0	43.3
Total	Lumens	22364.9	0.0	22364.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2426.3	10.8
10°-20°	5783.8	25.9
20°-30°	5890.7	26.3
30°-40°	4392.7	19.6
40°-50°	2294.9	10.3
50°-60°	965.2	4.3
60°-70°	394.2	1.8
70°-80°	165.9	0.7
80°-90°	51.1	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°	22364.9	100.0
0°-180°	22364.9	100.0

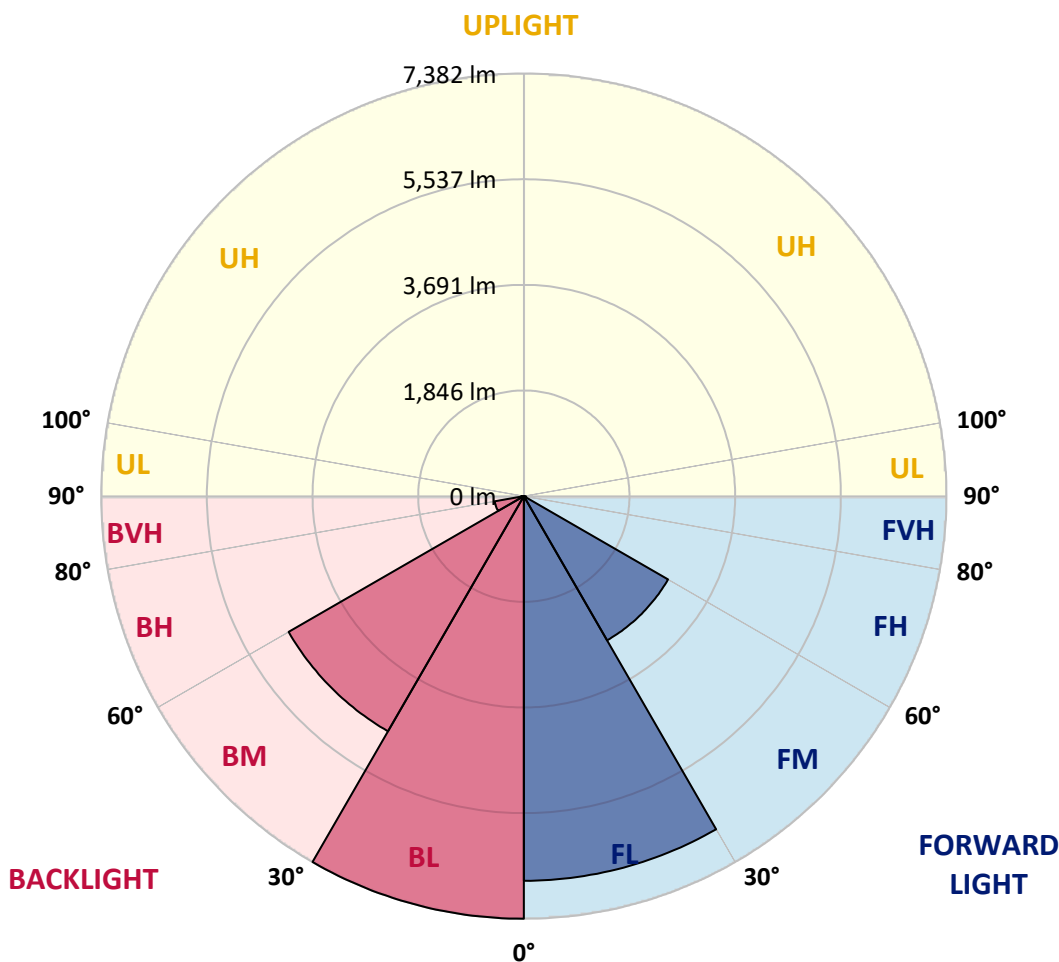


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6718.7	30.0			
FM (30°-60°)	2908.6	13.0			
FH (60°-80°)	42.1	0.2			G0/660
FVH (80°-90°)	4.7	0.0			G0/10
BL (0°-30°)	7382.2	33.0	B5		
BM (30°-60°)	4744.2	21.2	B3/5000		
BH (60°-80°)	518.0	2.3	B2/1000		G2/1000
BVH (80°-90°)	46.4	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-G2
 Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	26720.7	26720.7	26720.7	26720.7	26720.7	26720.7	26720.7	26720.7	26720.7	26720.7
2.5°	26723.6	26614.4	26459.2	26444.9	26525.3	26700.6	26588.5	26594.3	26525.3	26643.1
5°	26304.1	26200.7	26094.4	25953.6	26071.4	26146.1	26088.6	26025.4	25936.4	26051.3
7.5°	25511.2	25453.7	25295.7	25232.5	25304.3	25387.7	25264.1	25246.9	25123.4	25272.7
10°	24298.8	24275.9	24120.7	24083.4	24146.6	24273.0	24218.4	24206.9	24129.3	24115.0
12.5°	23040.5	22951.5	22759.0	22747.5	22842.3	23031.9	22885.4	22744.6	22787.7	22825.1
15°	19799.9	19705.1	20182.0	20931.8	21325.4	21311.0	21354.1	21184.6	21132.9	21150.2
17.5°	15740.5	15579.6	15752.0	16912.7	18782.9	19868.9	19570.1	19205.2	19009.9	18880.6
20°	13585.9	13594.5	13562.9	13861.7	15028.0	17504.5	17432.7	16728.8	16473.1	16366.8
22.5°	12275.8	12227.0	12158.0	12252.8	12566.0	14019.7	14993.6	14347.2	14258.1	14140.3
25°	10991.6	10991.6	10908.3	11003.1	11092.2	11112.3	12089.1	12353.4	12181.0	12181.0
27.5°	9879.8	9822.4	9785.0	9828.1	9710.3	9144.4	9267.9	10621.0	10503.3	10431.4
30°	8776.7	8759.4	8696.2	8753.7	8317.0	7679.2	7420.7	8963.4	9086.9	9061.1
32.5°	7245.4	7314.4	7595.9	7685.0	6938.0	6423.8	6176.7	7440.8	7934.9	7914.8
35°	4924.1	4981.6	5303.3	6366.3	5751.5	5383.8	5312.0	5918.1	6731.2	6808.7
37.5°	3921.5	3912.9	4004.8	4194.4	4622.5	4533.4	4513.3	4671.3	5490.1	5524.6
40°	3232.0	3220.5	3217.6	3062.5	2956.2	3769.2	3714.6	3619.8	4329.4	4398.4
42.5°	2605.7	2617.2	2625.8	2286.8	2131.7	2907.4	2875.8	2778.1	3395.7	3476.2
45°	2045.5	2042.6	2059.9	1703.6	1660.5	1858.8	2148.9	2071.3	2562.6	2648.8
47.5°	1060.1	1097.4	1330.1	1318.7	1338.8	1318.7	1626.1	1605.9	1927.7	2065.6
50°	712.5	724.0	744.1	746.9	1054.3	971.0	1103.2	1249.7	1350.3	1562.8
52.5°	551.6	560.2	508.5	476.9	646.4	718.2	724.0	864.7	942.3	1157.8
55°	307.4	344.7	370.6	373.5	356.2	531.5	528.6	640.7	701.0	844.6
57.5°	40.2	48.8	74.7	241.3	238.4	295.9	370.6	465.4	499.9	617.7
60°	2.9	5.7	8.6	37.3	158.0	172.4	252.8	290.2	347.6	433.8
62.5°	0.0	0.0	2.9	8.6	31.6	100.6	132.2	152.3	204.0	284.4
65°	0.0	0.0	2.9	5.7	11.5	37.3	51.7	83.3	120.7	175.2
67.5°	0.0	0.0	2.9	5.7	8.6	14.4	23.0	37.3	63.2	106.3
70°	0.0	0.0	2.9	5.7	8.6	11.5	17.2	23.0	34.5	57.5
72.5°	0.0	0.0	2.9	2.9	5.7	14.4	14.4	17.2	23.0	31.6
75°	0.0	0.0	2.9	5.7	8.6	14.4	14.4	14.4	17.2	20.1
77.5°	0.0	0.0	2.9	5.7	8.6	14.4	11.5	14.4	14.4	14.4
80°	0.0	0.0	2.9	5.7	8.6	14.4	17.2	14.4	11.5	11.5
82.5°	0.0	0.0	2.9	8.6	8.6	20.1	20.1	20.1	8.6	8.6
85°	0.0	0.0	5.7	8.6	14.4	23.0	23.0	17.2	8.6	5.7
87.5°	0.0	0.0	2.9	5.7	5.7	11.5	17.2	14.4	5.7	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°
26720.7	0°	26720.7	26720.7	26720.7	26720.7	26720.7	26720.7	26720.7	26720.7	26720.7
26470.7	2.5°	26683.3	26611.5	26746.5	26763.8	26706.3	26634.5	26467.9	26453.5	26163.3
25884.7	5°	26177.7	26059.9	26146.1	26203.6	26183.5	26105.9	26036.9	25973.7	25712.3
24933.7	7.5°	25235.4	25192.3	25232.5	25275.6	25358.9	25275.6	25246.9	25180.8	24922.3
23997.2	10°	24189.7	24109.2	24261.5	24241.4	24218.4	24195.4	24074.8	24086.2	23781.7
22721.6	12.5°	22905.5	22770.5	22917.0	22934.2	22917.0	22836.5	22701.5	22759.0	22480.3
20997.9	15°	21178.9	21164.5	21270.8	21339.8	21388.6	21302.4	21256.5	21285.2	21118.6
18780.0	17.5°	19058.7	19245.4	19593.1	19710.8	19713.7	19802.8	19776.9	19742.4	19618.9
16323.7	20°	16565.0	16924.2	17458.5	18007.2	18165.2	18090.5	18056.1	18119.3	17935.4
14016.8	22.5°	14263.9	14571.3	15191.8	15993.3	16455.9	16501.8	16493.2	16438.6	16366.8
12169.5	25°	12310.3	12583.2	13177.9	13910.5	14798.2	14930.4	14936.1	14918.9	14855.7
10494.6	27.5°	10661.3	10991.6	11319.2	11974.2	12919.4	13465.2	13396.3	13376.1	13353.2
9081.2	30°	9167.4	9583.9	9891.3	10299.3	11146.8	11885.1	11956.9	11922.5	11867.9
7911.9	32.5°	7983.7	8230.8	8621.5	8897.3	9506.4	10342.4	10618.2	10592.3	10543.5
6857.6	35°	6955.2	7052.9	7360.3	7667.7	8072.8	8883.0	9290.9	9233.4	9224.8
5587.8	37.5°	5728.5	6056.0	6225.5	6535.8	6820.2	7449.4	8012.5	7986.6	7989.5
4493.2	40°	4625.3	4815.0	5151.1	5412.5	5673.9	6133.6	6759.9	6777.1	6771.4
3479.1	42.5°	3550.9	3734.7	4088.1	4372.5	4605.2	4889.6	5487.2	5507.3	5533.2
2709.1	45°	2772.3	2890.1	3148.7	3444.6	3691.7	3864.0	4317.9	4447.2	4450.1
2100.1	47.5°	2151.8	2286.8	2470.7	2755.1	2996.4	3120.0	3450.3	3625.6	3617.0
1611.7	50°	1689.3	1812.8	1962.2	2186.3	2447.7	2545.4	2789.6	2961.9	2953.3
1215.2	52.5°	1292.8	1450.8	1583.0	1755.3	2011.0	2094.3	2269.6	2467.8	2439.1
890.6	55°	979.7	1140.5	1264.1	1407.7	1640.4	1746.7	1867.4	2025.4	2031.1
689.5	57.5°	738.3	905.0	1017.0	1163.5	1338.8	1456.6	1548.5	1718.0	1715.1
471.2	60°	528.6	672.3	807.3	959.5	1094.6	1229.6	1292.8	1453.7	1459.4
333.3	62.5°	382.1	517.1	646.4	778.6	899.2	1031.4	1088.8	1215.2	1232.5
218.3	65°	267.2	362.0	511.4	611.9	746.9	844.6	919.3	1028.5	1048.6
129.3	67.5°	172.4	261.4	405.1	494.1	617.7	701.0	778.6	864.7	890.6
83.3	70°	103.4	198.2	301.7	396.5	508.5	583.2	657.9	732.6	746.9
40.2	72.5°	66.1	137.9	218.3	321.8	407.9	488.4	554.5	609.1	566.0
25.9	75°	37.3	94.8	172.4	252.8	330.4	407.9	462.5	491.3	393.6
17.2	77.5°	23.0	68.9	140.8	204.0	255.7	327.5	362.0	379.2	281.5
11.5	80°	14.4	51.7	117.8	166.6	166.6	241.3	281.5	295.9	204.0
8.6	82.5°	11.5	37.3	91.9	126.4	112.0	181.0	221.2	224.1	143.6
5.7	85°	8.6	28.7	57.5	83.3	77.6	126.4	129.3	143.6	94.8
5.7	87.5°	5.7	17.2	34.5	48.8	43.1	60.3	68.9	77.6	51.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
26720.7
25936.4
25502.6
24867.7
23678.3
22399.9
20917.5
19435.0
17803.3
16228.9
14643.1
13218.1
11798.9
10414.2
9130.0
7897.6
6670.8
5447.0
4375.4
3585.4
2953.3
2442.0
2031.1
1709.4
1445.1
1226.7
1042.9
887.7
735.5
525.7
373.5
264.3
189.6
132.2
86.2
46.0
0.0

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