

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: P637324

Luminaire Tested: **IFLD-S-SA3C-730-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637324
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-730-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (48) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18603.2 lumens
Efficiency: N/A
Efficacy: 115.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

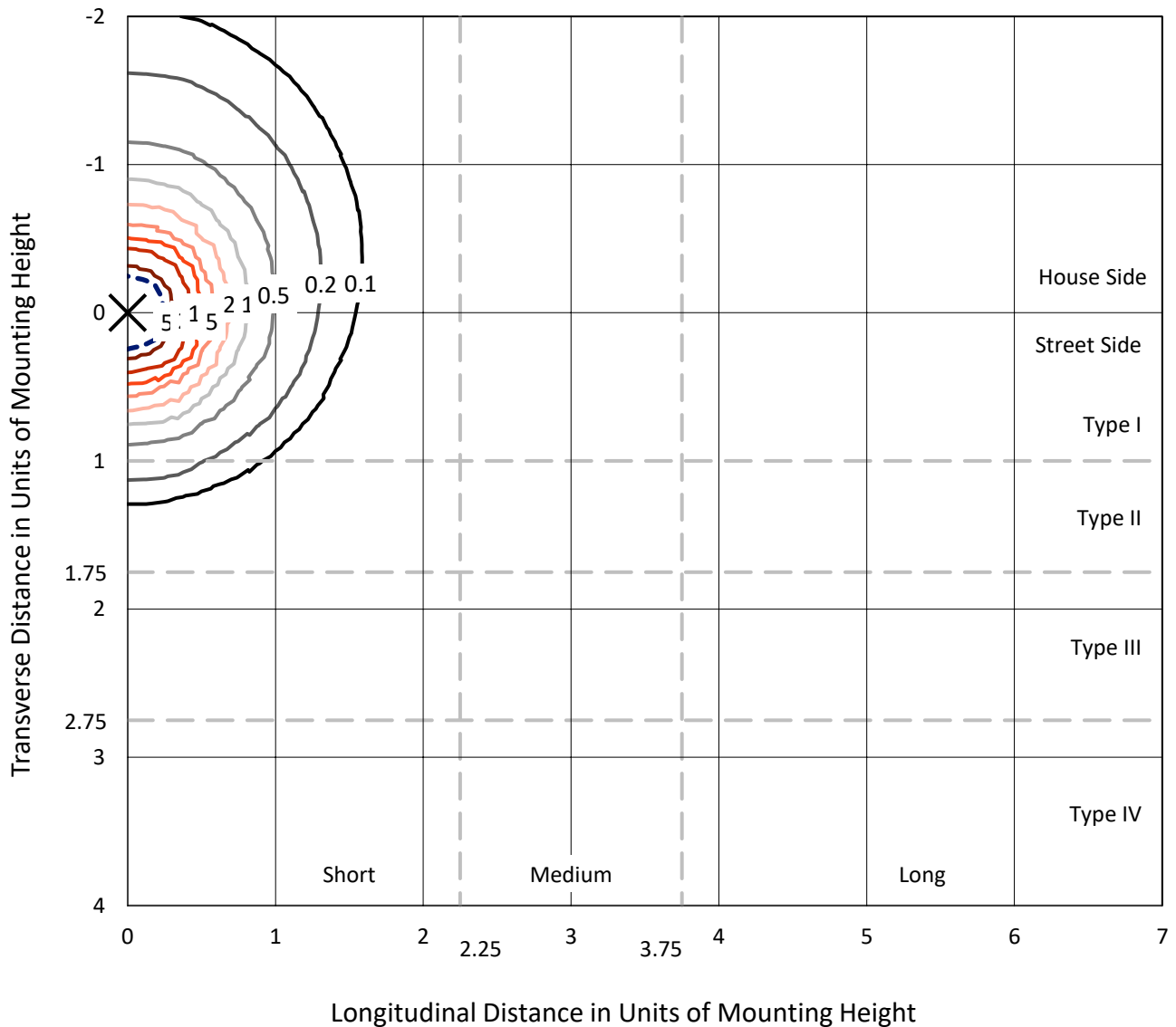
Input Watts (W): 160.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

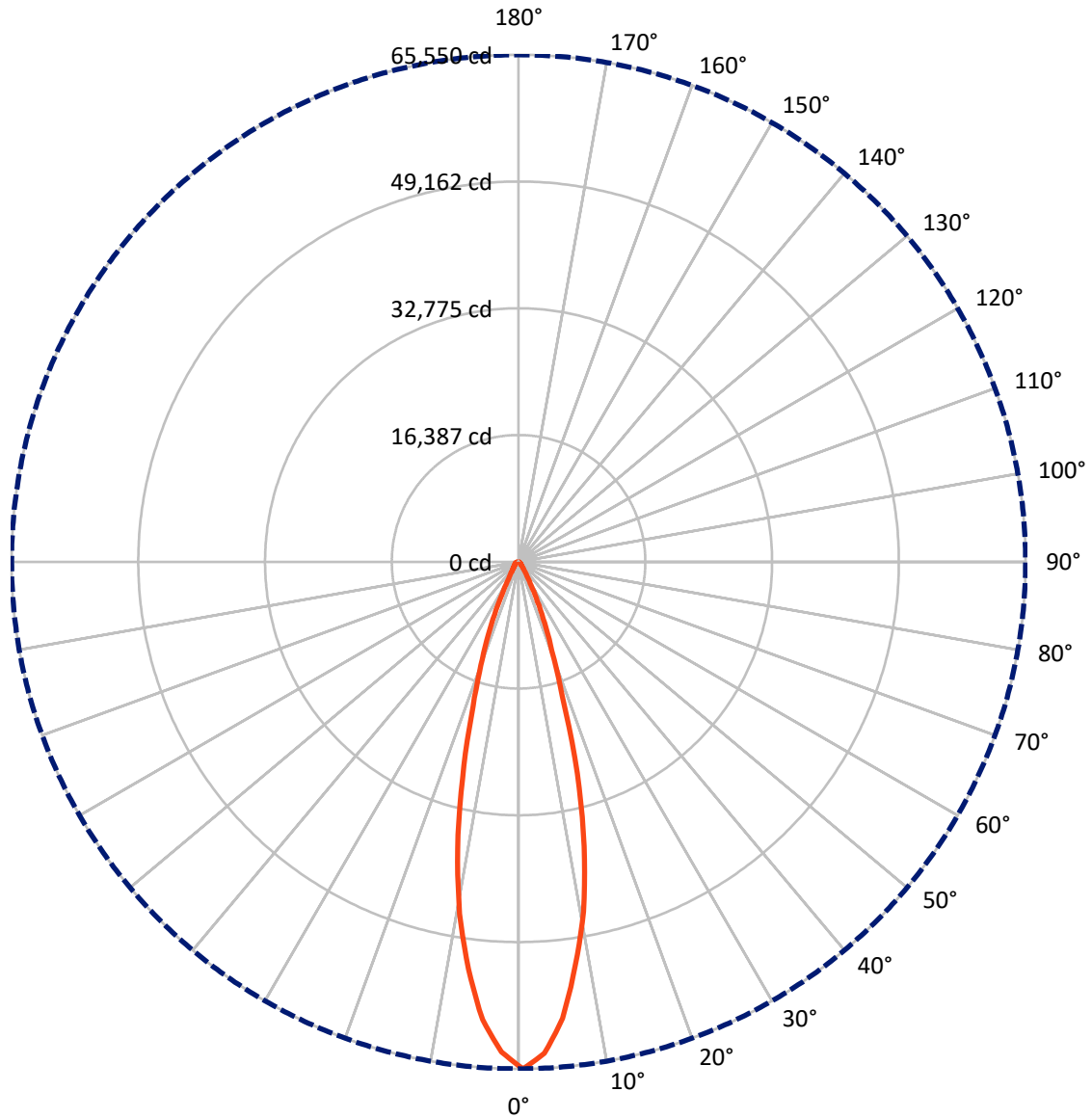
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 163.9 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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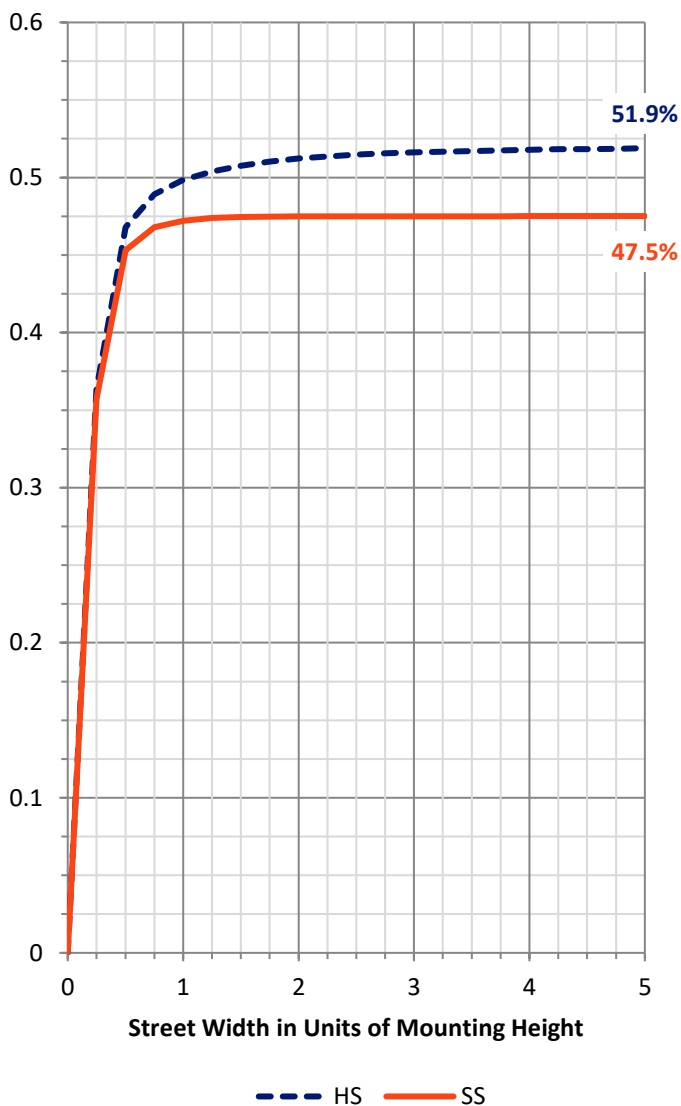
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9808.9	0.0	9808.9
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	8794.4	0.0	8794.4
	% Fixture	47.3	0.0	47.3
Total	Lumens	18603.2	0.0	18603.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5290.5	28.4
10°-20°	8012.3	43.1
20°-30°	3381.3	18.2
30°-40°	881.9	4.7
40°-50°	446.0	2.4
50°-60°	291.5	1.6
60°-70°	174.7	0.9
70°-80°	91.9	0.5
80°-90°	33.2	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°	18603.2	100.0
0°-180°	18603.2	100.0



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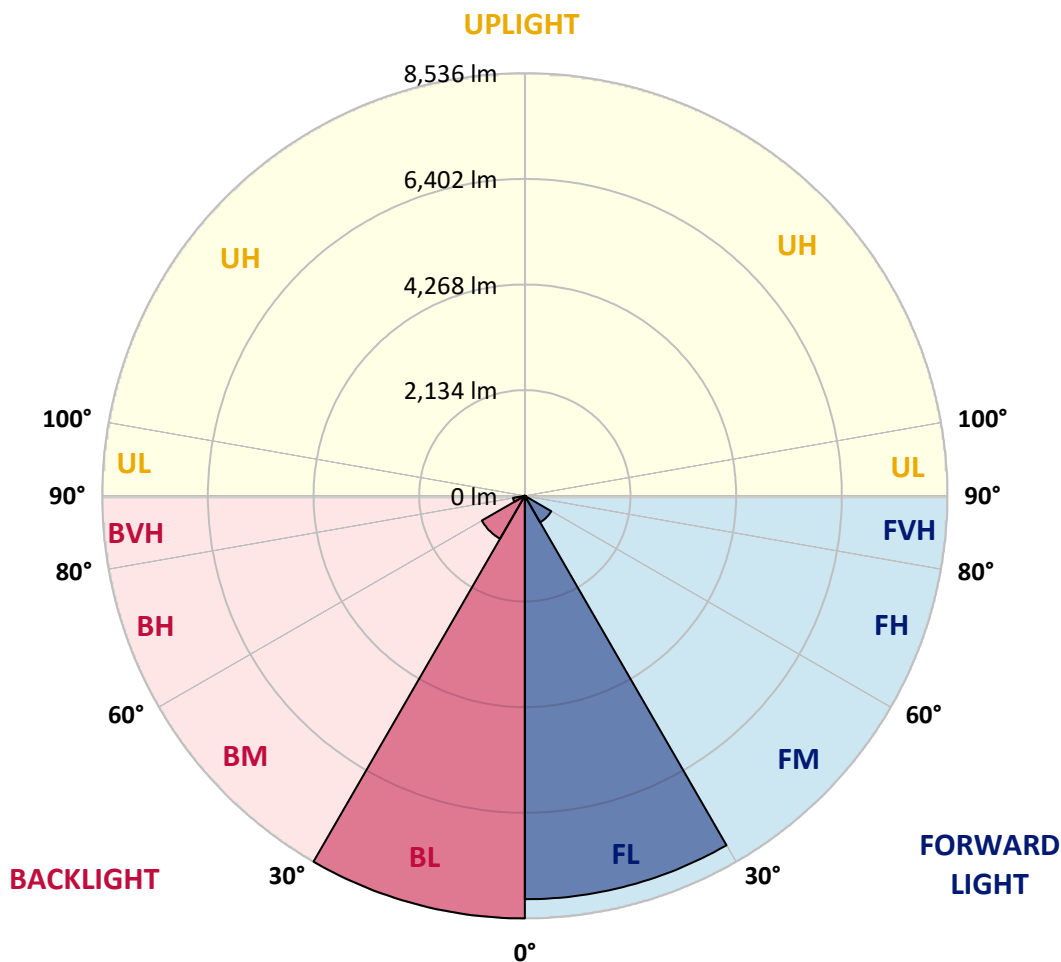
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	8148.1	43.8			
FM (30°-60°)	617.1	3.3			
FH (60°-80°)	25.1	0.1			G0/660
FVH (80°-90°)	4.0	0.0			G0/10
BL (0°-30°)	8536.0	45.9	B5		
BM (30°-60°)	1002.4	5.4	B2/2500		
BH (60°-80°)	241.4	1.3	B1/500		G0/660
BVH (80°-90°)	29.2	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°	65549.8	65549.8	65549.8	65549.8	65549.8	65549.8	65549.8	65549.8	65549.8	65549.8
2.5°	63640.3	63675.8	63544.2	63828.3	63606.9	64200.2	63905.6	64365.2	64210.6	64467.6
5°	59294.8	59236.3	59198.7	59639.5	59512.1	60149.3	59741.9	59608.2	60021.9	59946.6
7.5°	52732.7	52887.3	52799.6	52914.5	52979.3	53706.3	53936.1	53756.4	53762.7	53867.2
10°	46005.6	45777.9	45454.1	45669.3	46124.7	46442.2	46314.8	46578.0	46519.5	46768.2
12.5°	37728.3	37908.0	37726.2	37534.0	38330.0	38242.3	38463.7	38607.9	38246.4	39050.8
15°	28419.0	28513.0	28734.4	28719.8	29331.9	29455.2	29426.0	29578.5	29296.4	29430.1
17.5°	18257.3	18574.8	19170.2	20177.2	21309.5	21441.2	21407.7	21282.4	21146.6	20996.2
20°	12263.4	12230.0	12445.2	12739.8	15083.8	15704.3	15685.5	15292.7	14724.5	14615.8
22.5°	8590.7	8653.3	8624.1	8916.6	9401.3	11112.3	10901.3	10502.3	10316.3	10195.1
25°	5651.2	5628.2	5774.5	5862.2	6278.0	6486.9	7226.4	7078.1	6791.9	6823.2
27.5°	3445.0	3474.3	3528.6	3603.8	3898.4	3831.5	4253.6	4310.0	4218.0	4119.8
30°	2114.2	2135.1	2179.0	2233.3	2335.7	2262.6	2379.6	2582.2	2548.8	2479.8
32.5°	1435.3	1437.3	1468.7	1489.6	1477.0	1408.1	1445.7	1637.9	1642.1	1635.8
35°	1032.0	1032.0	1061.3	1078.0	1042.5	986.1	992.4	1111.4	1163.7	1174.1
37.5°	712.4	714.5	764.6	814.8	775.1	760.5	735.4	814.8	898.3	910.9
40°	541.1	539.0	564.1	601.7	605.9	578.7	587.1	637.2	722.9	733.3
42.5°	438.7	440.8	453.3	449.2	451.3	486.8	499.3	522.3	601.7	620.5
45°	369.8	371.9	378.1	357.2	348.9	403.2	419.9	432.5	499.3	522.3
47.5°	305.0	309.2	315.5	292.5	288.3	323.8	353.1	365.6	424.1	449.2
50°	219.4	223.5	246.5	234.0	246.5	254.9	294.6	313.4	353.1	386.5
52.5°	158.8	163.0	169.2	171.3	202.6	206.8	236.1	265.3	284.1	321.7
55°	125.4	129.5	125.4	121.2	148.3	171.3	181.8	213.1	227.7	271.6
57.5°	71.0	75.2	81.5	94.0	98.2	131.6	142.1	169.2	181.8	223.5
60°	12.5	14.6	23.0	56.4	68.9	83.6	106.5	129.5	146.2	175.5
62.5°	2.1	2.1	4.2	12.5	39.7	58.5	77.3	91.9	106.5	133.7
65°	0.0	0.0	2.1	4.2	10.4	33.4	41.8	54.3	73.1	96.1
67.5°	0.0	0.0	2.1	4.2	6.3	12.5	18.8	33.4	41.8	64.8
70°	0.0	0.0	2.1	4.2	6.3	8.4	10.4	14.6	25.1	39.7
72.5°	0.0	0.0	2.1	4.2	6.3	8.4	10.4	12.5	12.5	25.1
75°	0.0	0.0	2.1	4.2	6.3	10.4	12.5	12.5	10.4	10.4
77.5°	0.0	0.0	2.1	4.2	8.4	12.5	14.6	12.5	8.4	8.4
80°	0.0	0.0	4.2	6.3	10.4	14.6	18.8	14.6	8.4	4.2
82.5°	0.0	0.0	4.2	8.4	10.4	16.7	23.0	18.8	8.4	4.2
85°	0.0	0.0	2.1	6.3	12.5	16.7	23.0	16.7	8.4	2.1
87.5°	0.0	0.0	2.1	2.1	4.2	6.3	12.5	10.4	4.2	2.1
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°
65549.8	0°	65549.8	65549.8	65549.8	65549.8	65549.8	65549.8	65549.8	65549.8	65549.8
63980.8	2.5°	64348.5	64682.8	64751.7	64659.8	64793.5	64553.3	64369.4	63893.1	63606.9
59923.7	5°	60310.2	60260.0	60608.9	60723.8	60709.2	60525.3	60268.4	59980.1	59700.1
53664.5	7.5°	53998.8	54063.5	54381.1	54583.7	54481.4	54251.6	54074.0	53856.7	53668.7
46858.0	10°	47286.3	46841.3	47236.1	47236.1	47509.8	46860.1	46920.7	46373.3	46398.4
39036.1	12.5°	39169.8	39330.7	39395.5	39581.4	39261.8	38917.1	38495.0	38411.5	38150.3
29175.3	15°	29595.2	30054.8	29659.9	30334.7	30008.8	29649.5	29584.7	28937.1	29141.8
21161.2	17.5°	21056.7	21564.4	21723.2	22109.7	21813.0	21599.9	21330.4	21134.0	21119.4
14814.3	20°	14931.3	15441.1	15558.0	16021.8	15988.4	15921.6	15693.8	15445.2	15175.7
10084.4	22.5°	10236.9	10652.7	11041.3	11665.9	11655.5	11459.1	11436.1	11085.1	11091.4
6812.8	25°	6883.8	7186.7	7278.7	7918.0	7989.0	7968.1	7849.0	7523.1	7646.4
4161.6	27.5°	4165.8	4431.1	4742.4	4968.0	5181.1	5147.7	5028.6	4846.9	4767.5
2500.7	30°	2567.6	2686.7	2801.6	3073.2	3200.6	3267.5	3211.1	3041.8	3054.4
1646.3	32.5°	1681.8	1782.1	1865.6	2036.9	2103.8	2227.1	2204.1	2168.6	2126.8
1184.6	35°	1226.3	1299.5	1355.9	1435.3	1520.9	1625.4	1642.1	1627.5	1610.8
915.1	37.5°	935.9	1011.2	1075.9	1109.3	1176.2	1257.7	1303.6	1301.6	1289.0
745.8	40°	760.5	816.9	875.4	919.2	965.2	1025.8	1082.2	1088.5	1088.5
626.8	42.5°	635.1	683.2	741.7	787.6	821.0	877.5	935.9	940.1	935.9
530.6	45°	543.2	585.0	641.4	695.7	722.9	764.6	821.0	833.6	825.2
455.4	47.5°	472.2	509.8	557.8	616.3	645.6	683.2	735.4	750.0	747.9
392.8	50°	405.3	449.2	497.2	545.3	582.9	618.4	668.5	685.2	679.0
334.3	52.5°	357.2	396.9	438.7	491.0	534.8	566.2	605.9	635.1	626.8
282.0	55°	298.8	346.8	390.7	434.5	488.9	522.3	559.9	595.4	587.1
238.2	57.5°	259.1	298.8	348.9	388.6	442.9	482.6	520.2	557.8	555.7
194.3	60°	217.3	259.1	307.1	348.9	399.0	442.9	480.5	522.3	526.5
146.2	62.5°	171.3	221.5	263.2	311.3	361.4	409.5	442.9	484.7	491.0
110.7	65°	129.5	181.8	227.7	273.7	323.8	376.1	405.3	440.8	447.1
81.5	67.5°	96.1	140.0	194.3	236.1	288.3	338.4	365.6	394.9	405.3
50.1	70°	73.1	106.5	163.0	202.6	257.0	296.7	325.9	351.0	359.3
33.4	72.5°	46.0	83.6	131.6	173.4	221.5	257.0	277.9	292.5	305.0
18.8	75°	31.3	64.8	106.5	148.3	183.8	211.0	229.8	242.3	252.8
8.4	77.5°	18.8	50.1	87.7	123.3	146.2	167.1	185.9	194.3	200.6
6.3	80°	10.4	37.6	73.1	100.3	114.9	129.5	144.2	154.6	158.8
4.2	82.5°	6.3	29.2	58.5	77.3	83.6	98.2	112.8	119.1	119.1
2.1	85°	4.2	20.9	39.7	56.4	60.6	71.0	75.2	79.4	83.6
2.1	87.5°	4.2	12.5	25.1	31.3	33.4	37.6	39.7	43.9	48.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
65549.8
63395.9
59386.7
53031.5
46153.9
37912.2
28937.1
20730.8
15058.7
10970.2
7452.1
4698.5
3000.0
2112.2
1604.5
1282.8
1075.9
931.8
825.2
743.7
674.8
624.7
591.2
557.8
528.6
495.1
453.3
409.5
363.5
302.9
250.7
198.5
154.6
117.0
81.5
46.0
0.0

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