

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: P637230

Luminaire Tested: **IFLD-S-SA2A-830-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637230
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-830-U-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (32) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7295.5 lumens
Efficiency: N/A
Efficacy: 114.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G0

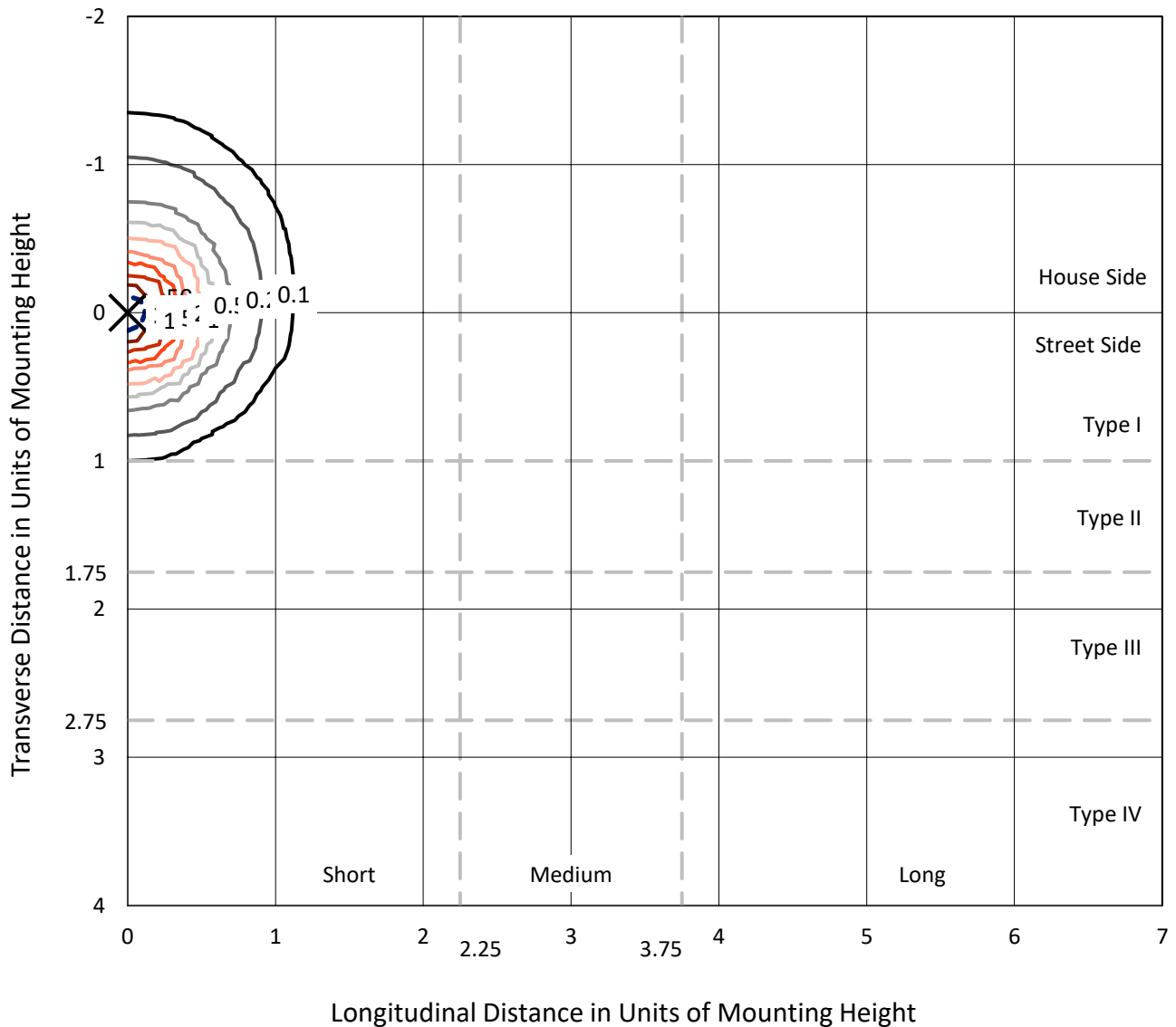
Input Watts (W): 63.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

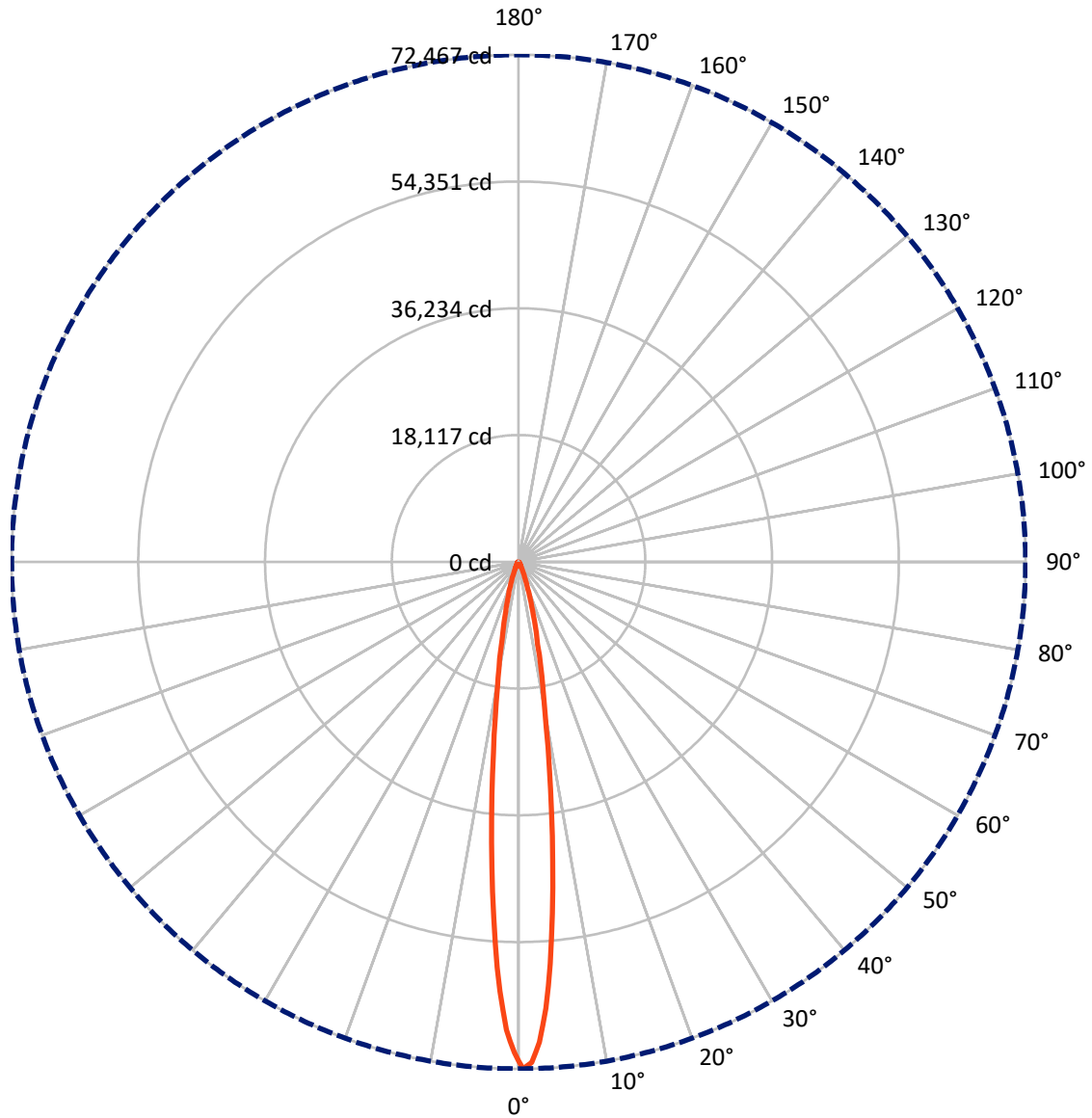
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 181.2 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	3736.6	0.0	3736.6
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	3558.9	0.0	3558.9
	% Fixture	48.8	0.0	48.8
Total	Lumens	7295.5	0.0	7295.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3683.0	50.5
10°-20°	2357.8	32.3
20°-30°	708.7	9.7
30°-40°	230.8	3.2
40°-50°	134.3	1.8
50°-60°	89.2	1.2
60°-70°	53.7	0.7
70°-80°	27.6	0.4
80°-90°	10.5	0.1
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°	7295.5	100.0
0°-180°	7295.5	100.0

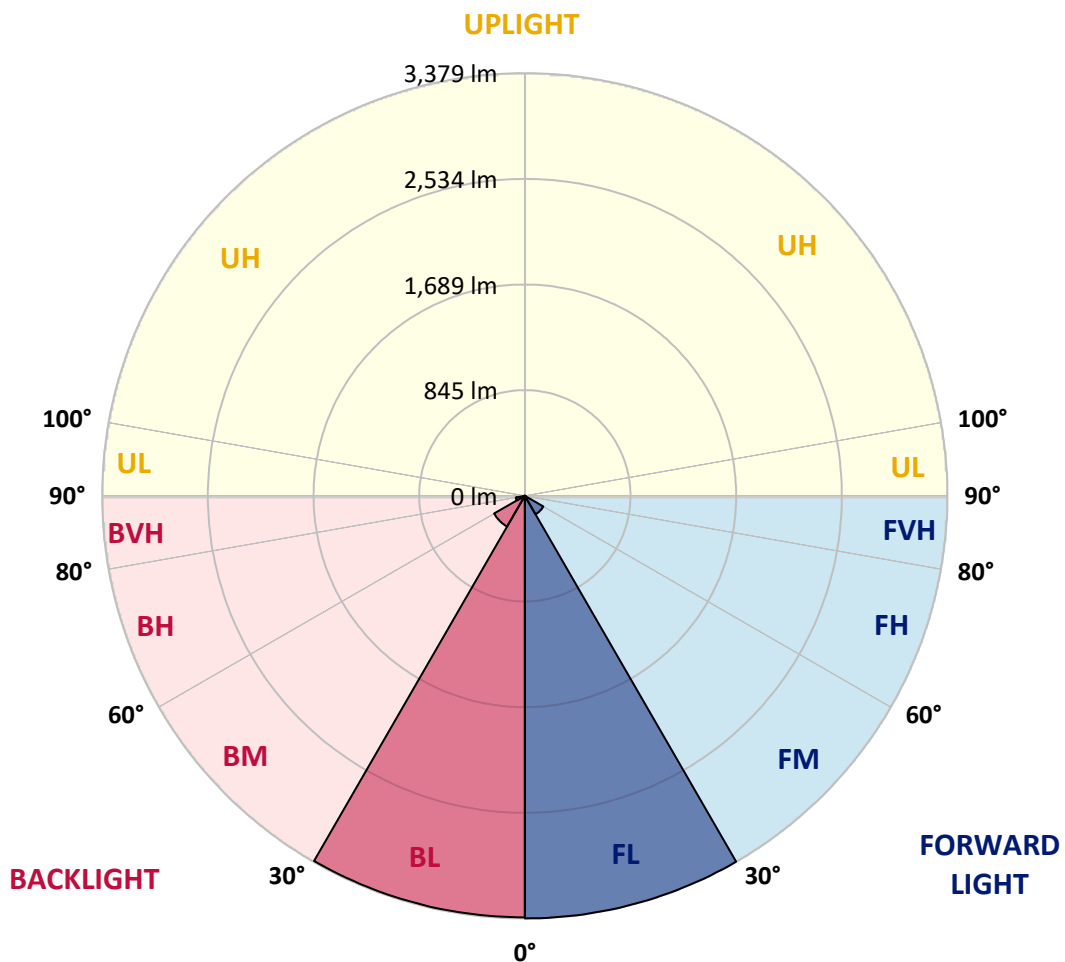


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3378.7	46.3			
FM (30°-60°)	170.5	2.3			
FH (60°-80°)	8.0	0.1			G0/660
FVH (80°-90°)	1.6	0.0			G0/10
BL (0°-30°)	3370.7	46.2	B4/5000		
BM (30°-60°)	283.7	3.9	B1/1000		
BH (60°-80°)	73.2	1.0	B0/110		G0/660
BVH (80°-90°)	8.9	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G0
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	72467.4	72467.4	72467.4	72467.4	72467.4	72467.4	72467.4	72467.4	72467.4	72467.4
1°	71599.7	71381.2	70817.0	71218.3	71571.1	71468.6	71461.4	71423.3	71370.0	71788.0
2°	68737.6	68596.1	67761.8	68105.9	68607.3	68241.7	68470.6	68269.6	68273.5	68772.5
3°	63912.8	63989.9	62659.0	63284.3	63981.2	63095.2	63370.1	63886.6	63345.5	63182.6
4°	57641.9	56972.9	56245.8	56881.5	57061.9	56546.2	57053.1	57685.6	56933.9	56967.3
5°	50482.7	49988.4	49127.9	49520.4	49073.1	49236.0	49995.6	50256.2	49731.8	49071.5
6°	43121.6	42770.4	41694.5	42260.3	42101.3	42009.2	42968.2	42173.6	42459.7	42060.0
7°	35868.6	35212.2	34683.8	35225.7	35260.7	34983.4	36228.5	36083.9	35563.4	35442.7
8°	29717.7	29062.9	28615.6	29019.2	29283.0	28847.6	29433.2	29817.8	29410.9	29447.5
9°	23968.8	23853.6	23231.4	23759.0	24045.9	23579.4	24227.8	24366.9	23986.3	24171.4
10°	19680.4	19546.1	19049.5	19263.2	19738.4	19182.2	19804.4	19849.6	19546.1	19632.7
12.5°	12162.0	12108.0	12094.4	12125.4	12119.1	12217.6	12376.5	12195.4	12171.5	11872.0
15°	7860.9	7941.1	7858.5	8017.4	8040.5	8133.4	8036.5	7890.3	7611.4	7473.1
17.5°	4905.8	5008.3	5149.7	5382.6	5615.4	5642.4	5513.7	5342.0	5206.9	5059.2
20°	2822.4	2872.4	2851.0	3129.9	3732.2	3895.9	3729.8	3549.4	3386.5	3237.2
22.5°	1753.7	1735.4	1768.8	1862.5	2058.8	2564.9	2429.1	2248.7	2130.3	2007.1
25°	1075.1	1094.9	1082.2	1133.9	1222.1	1436.6	1467.6	1389.7	1329.3	1265.8
27.5°	692.1	692.1	697.6	726.3	786.6	779.5	944.8	884.4	851.8	820.8
30°	480.7	482.3	482.3	499.0	512.5	488.7	531.6	609.5	594.4	570.5
32.5°	356.8	361.5	365.5	374.3	363.1	337.7	348.0	438.6	429.9	421.1
35°	271.7	275.7	285.3	290.0	274.1	258.2	248.7	322.6	326.6	324.2
37.5°	197.9	200.2	217.7	236.0	217.7	203.4	197.9	247.9	267.0	264.6
40°	151.8	152.6	155.7	176.4	176.4	165.3	166.9	185.1	218.5	218.5
42.5°	130.3	130.3	133.5	130.3	131.1	143.0	147.0	149.4	185.1	185.1
45°	112.8	112.8	114.4	106.5	98.5	123.2	126.3	127.1	155.7	159.7
47.5°	94.6	94.6	97.7	87.4	83.4	97.7	106.5	108.9	134.3	137.5
50°	69.9	70.7	80.3	71.5	73.9	75.5	92.2	93.8	113.6	120.8
52.5°	46.9	46.9	48.5	55.6	64.4	62.0	74.7	80.3	90.6	100.1
55°	38.1	38.1	37.3	35.8	47.7	51.6	54.8	66.7	73.9	85.8
57.5°	26.2	27.8	25.4	29.4	31.0	38.9	41.3	52.4	56.4	72.3
60°	3.2	4.0	5.6	21.5	20.7	26.2	31.0	41.3	46.1	55.6
62.5°	0.8	0.8	1.6	4.0	14.3	17.5	24.6	28.6	33.4	42.9
65°	0.0	0.0	0.8	1.6	3.2	9.5	12.7	16.7	23.8	30.2
67.5°	0.0	0.0	0.8	1.6	1.6	4.0	6.4	10.3	12.7	22.2
70°	0.0	0.0	0.8	1.6	1.6	3.2	4.0	4.8	8.7	11.9
72.5°	0.0	0.0	0.8	1.6	2.4	3.2	4.0	4.0	4.0	7.9
75°	0.0	0.0	0.8	1.6	2.4	3.2	4.0	4.0	3.2	3.2
77.5°	0.0	0.0	0.8	1.6	3.2	4.0	4.8	4.0	2.4	2.4
80°	0.0	0.0	0.8	2.4	4.0	5.6	6.4	4.8	2.4	1.6
82.5°	0.0	0.0	1.6	3.2	4.8	6.4	8.7	7.2	3.2	1.6
85°	0.0	0.0	0.8	2.4	4.8	6.4	12.7	8.7	4.0	0.8
87.5°	0.0	0.0	0.0	0.8	0.8	1.6	4.8	3.2	1.6	0.8
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°
72467.4	0°	72467.4	72467.4	72467.4	72467.4	72467.4	72467.4	72467.4	72467.4	72467.4
71305.7	1°	71803.9	71853.9	71690.3	71943.7	71854.7	71333.5	71161.1	70956.9	70662.9
68479.3	2°	68269.6	68524.6	68537.3	68818.6	68814.6	68206.8	68018.5	68365.7	67687.9
63513.1	3°	63320.9	63618.0	63350.3	63850.0	63699.9	62962.5	62771.0	63165.1	62672.5
57231.1	4°	57060.3	57003.9	56911.7	56627.2	56977.6	56474.7	56095.6	56630.4	55576.8
49947.1	5°	49847.0	49721.4	49541.9	49457.6	49718.3	49396.5	48617.0	49398.1	47518.8
42783.1	6°	42835.5	42295.2	42269.0	42222.1	42248.3	41347.3	41401.3	41982.9	40419.2
35027.1	7°	35397.4	35496.7	35294.1	35619.1	35371.2	34760.9	34525.7	35138.3	34033.1
29608.0	8°	29401.4	29275.9	29120.9	29606.4	29176.5	28776.1	28501.9	28985.8	28165.0
24201.6	9°	24156.3	23939.4	23782.1	23757.4	23824.2	23072.5	23225.1	23591.4	23097.1
19680.4	10°	19687.5	19331.6	19418.2	19441.2	19368.1	18875.5	18880.2	19006.6	18412.2
12070.6	12.5°	12027.7	11852.9	11896.6	11920.4	12069.0	11895.8	11651.1	11474.7	11385.7
7610.6	15°	7559.7	7434.2	7690.8	7863.3	7828.3	7674.1	7558.9	7399.2	7270.5
5059.2	17.5°	5012.3	5176.8	5177.5	5334.9	5350.8	5196.6	5107.6	4963.8	4970.2
3290.4	20°	3278.5	3346.8	3489.0	3600.3	3664.6	3547.0	3440.6	3342.0	3300.7
2051.6	22.5°	2051.6	2170.8	2259.8	2404.4	2463.2	2377.4	2301.9	2221.7	2172.4
1280.9	25°	1259.4	1344.4	1418.3	1543.9	1624.1	1582.8	1513.7	1457.3	1431.1
827.2	27.5°	839.9	875.6	912.2	998.8	1082.2	1059.2	1031.4	997.2	985.3
583.2	30°	592.0	595.1	634.1	682.6	738.2	752.5	739.8	722.3	708.8
428.3	32.5°	436.2	448.9	467.2	497.4	534.8	568.9	562.6	554.6	548.3
327.4	35°	336.9	356.0	371.1	394.1	414.0	446.6	452.1	449.7	445.0
269.4	37.5°	274.9	291.6	306.7	320.2	336.9	359.2	376.6	377.4	372.7
222.5	40°	228.0	243.1	263.0	273.3	285.3	301.9	323.4	325.0	323.4
188.3	42.5°	192.3	206.6	226.5	239.2	247.9	263.8	285.3	288.4	285.3
161.3	45°	165.3	174.0	194.7	209.8	218.5	228.8	251.9	255.1	254.3
139.1	47.5°	143.8	152.6	165.3	186.7	194.7	204.2	222.5	228.0	228.0
123.2	50°	126.3	135.1	146.2	165.3	177.2	185.1	200.2	208.2	208.2
107.3	52.5°	112.0	120.8	132.7	147.8	161.3	168.5	182.8	193.1	193.1
87.4	55°	93.8	108.9	117.6	131.1	149.4	155.7	166.9	180.4	180.4
76.3	57.5°	81.8	94.6	107.3	118.4	136.7	144.6	155.7	168.5	170.0
60.4	60°	69.1	81.0	96.1	105.7	123.2	133.5	145.4	157.3	160.5
46.1	62.5°	54.8	70.7	81.0	94.6	111.2	124.8	134.3	146.2	151.0
35.8	65°	40.5	58.0	69.9	84.2	100.1	114.4	122.4	135.1	138.3
25.4	67.5°	29.4	45.3	59.6	73.1	88.2	102.5	110.4	121.6	124.0
15.9	70°	23.0	33.4	49.3	61.2	77.1	89.0	97.7	104.9	107.3
10.3	72.5°	13.5	25.4	39.7	53.2	67.5	75.5	81.8	88.2	89.8
4.8	75°	8.7	19.9	32.6	44.5	54.8	62.0	67.5	73.1	73.9
2.4	77.5°	5.6	14.3	26.2	37.3	42.1	50.9	55.6	58.8	57.2
1.6	80°	3.2	11.1	23.0	30.2	34.2	39.7	44.5	48.5	44.5
1.6	82.5°	2.4	9.5	19.1	25.4	25.4	31.8	34.2	34.2	32.6
0.8	85°	1.6	7.9	15.1	23.8	19.1	23.8	22.2	22.2	22.2
0.8	87.5°	1.6	5.6	7.2	10.3	8.7	10.3	10.3	11.9	11.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
72467.4
70148.0
66894.9
61414.6
54694.8
47340.1
40296.8
33472.1
27604.0
22447.2
18146.8
11367.4
7317.4
4928.0
3307.9
2178.8
1424.7
977.3
710.4
548.3
441.8
371.9
322.6
286.1
254.3
228.8
209.0
193.1
181.2
169.2
160.5
151.8
137.5
122.4
107.3
89.8
73.1
57.2
43.7
31.8
21.5
11.9
0.0

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