

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: P637250

Luminaire Tested: **IFLD-L-SA7A-830-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637250
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-830-U-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (112) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24734.2 lumens
Efficiency: N/A
Efficacy: 113.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

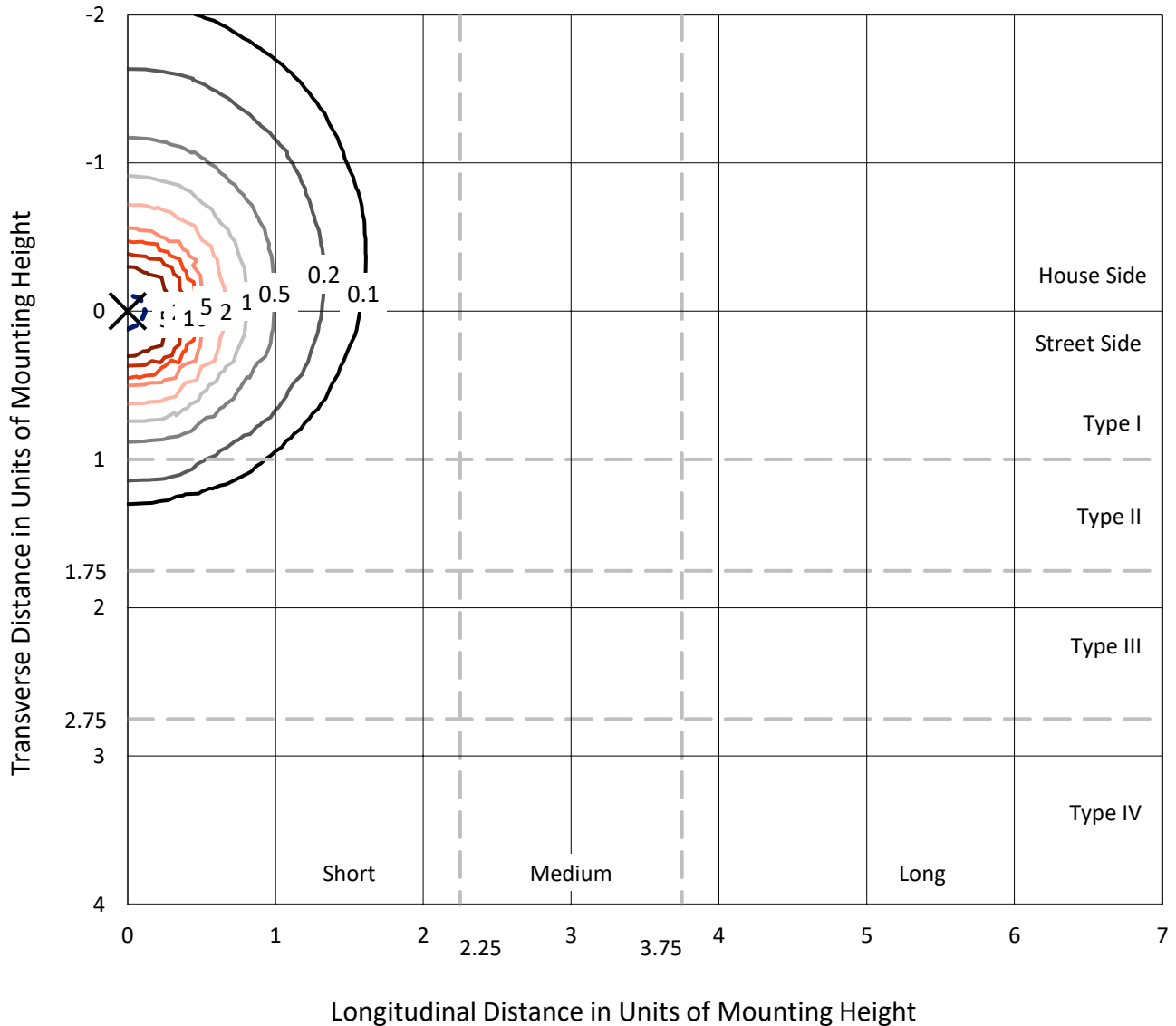
Input Watts (W): 217.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

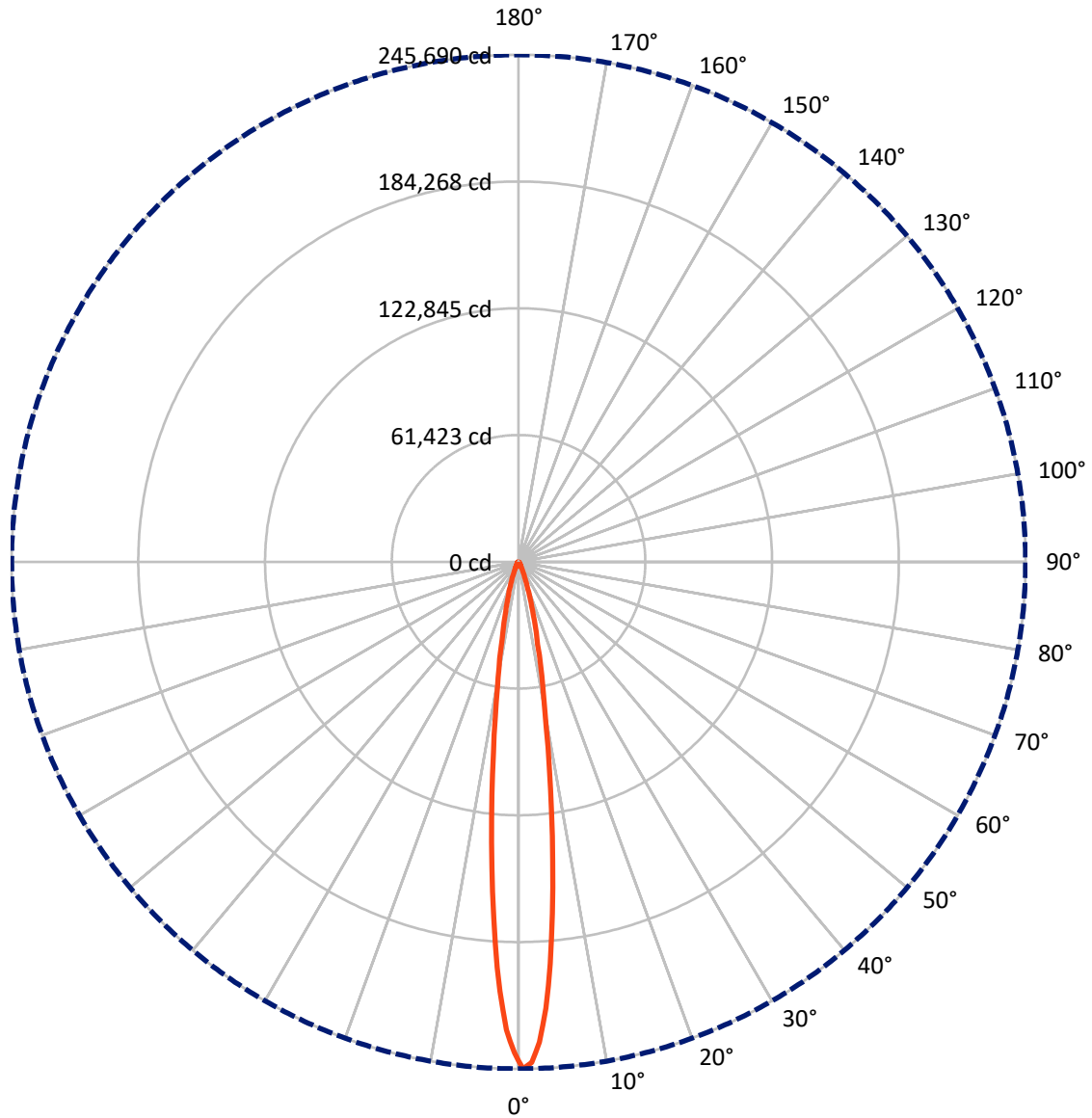
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 614.2 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	12668.4	0.0	12668.4
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	12065.8	0.0	12065.8
	% Fixture	48.8	0.0	48.8
Total	Lumens	24734.2	0.0	24734.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12486.5	50.5
10°-20°	7993.8	32.3
20°-30°	2402.8	9.7
30°-40°	782.4	3.2
40°-50°	455.2	1.8
50°-60°	302.4	1.2
60°-70°	182.0	0.7
70°-80°	93.6	0.4
80°-90°	35.5	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°	24734.2	100.0
0°-180°	24734.2	100.0

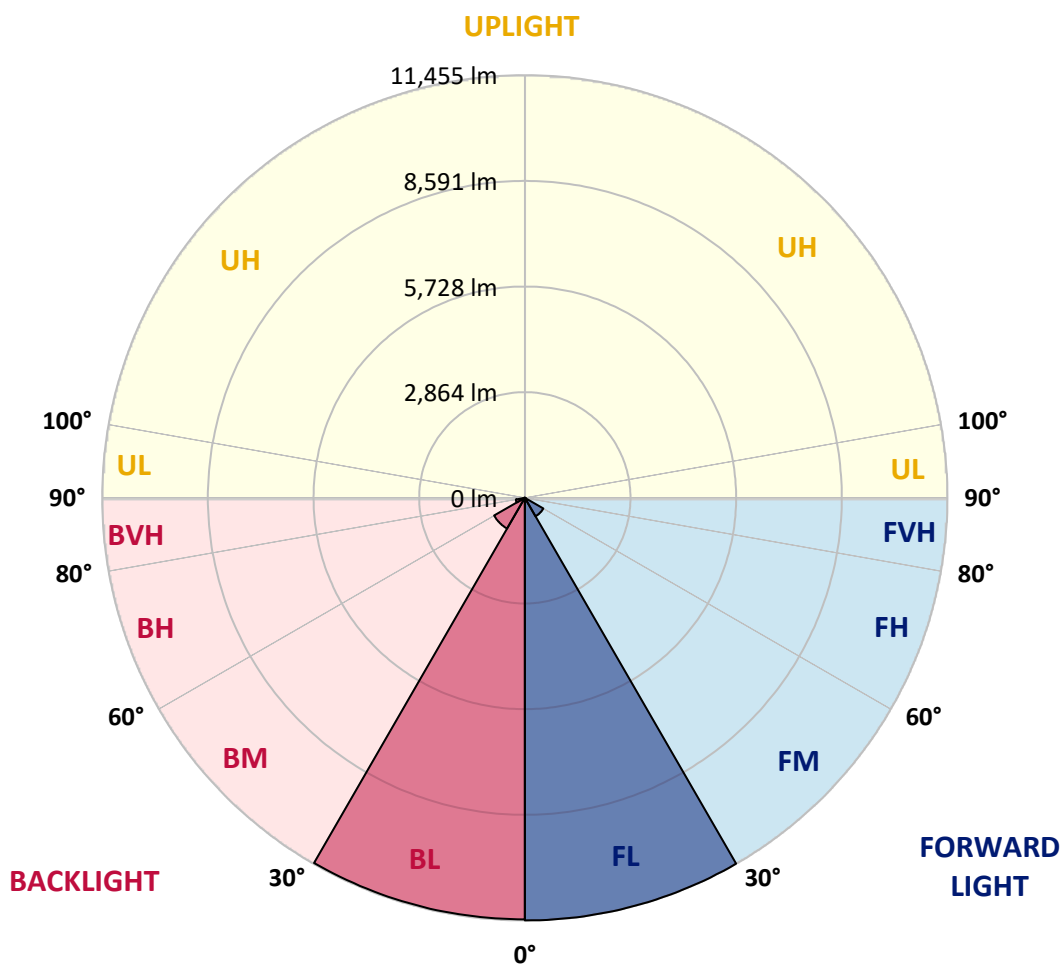


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	11455.2	46.3			
FM (30°-60°)	578.0	2.3			
FH (60°-80°)	27.2	0.1			G0/660
FVH (80°-90°)	5.4	0.0			G0/10
BL (0°-30°)	11428.0	46.2	B5		
BM (30°-60°)	961.9	3.9	B1/1000		
BH (60°-80°)	248.3	1.0	B1/500		G0/660
BVH (80°-90°)	30.2	0.1			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°	245690.3	245690.3	245690.3	245690.3	245690.3	245690.3	245690.3	245690.3	245690.3	245690.3
1°	242748.5	242007.7	240095.0	241455.4	242651.5	242304.0	242279.8	242150.4	241970.0	243387.0
2°	233044.9	232565.4	229736.8	230903.2	232603.1	231363.9	232139.8	231458.2	231471.7	233163.5
3°	216687.3	216948.6	212436.3	214556.4	216919.0	213915.2	214847.3	216598.4	214763.8	214211.6
4°	195426.7	193158.4	190693.4	192848.6	193460.1	191711.8	193430.5	195574.9	193026.4	193139.5
5°	171154.3	169478.6	166561.1	167891.9	166375.2	166927.5	169502.9	170386.5	168608.5	166369.8
6°	146197.6	145006.9	141359.3	143277.4	142738.6	142426.1	145677.7	142983.7	143953.5	142598.5
7°	121607.3	119382.1	117590.6	119427.9	119546.4	118606.2	122827.6	122337.3	120572.8	120163.3
8°	100753.5	98533.7	97017.0	98385.5	99279.9	97803.6	99789.0	101092.9	99713.6	99837.5
9°	81262.8	80872.2	78762.8	80551.6	81524.1	79942.8	82141.0	82612.5	81322.1	81949.7
10°	66723.6	66268.3	64584.6	65309.3	66920.2	65034.5	67143.8	67297.4	66268.3	66561.9
12.5°	41233.5	41050.3	41004.5	41109.6	41088.0	41422.1	41960.9	41346.6	41265.8	40250.2
15°	26651.2	26923.3	26643.1	27181.9	27260.0	27575.2	27246.5	26750.9	25805.3	25336.5
17.5°	16632.4	16979.9	17459.4	18248.8	19038.1	19129.7	18693.3	18111.4	17653.4	17152.3
20°	9568.9	9738.6	9665.9	10611.4	12653.4	13208.4	12645.4	12033.8	11481.6	10975.1
22.5°	5945.5	5883.6	5996.7	6314.6	6980.0	8696.0	8235.4	7623.9	7222.5	6804.9
25°	3644.9	3712.3	3669.2	3844.3	4143.3	4870.6	4975.7	4711.7	4507.0	4291.5
27.5°	2346.4	2346.4	2365.3	2462.3	2667.0	2642.8	3203.1	2998.4	2887.9	2782.8
30°	1629.8	1635.2	1635.2	1691.8	1737.6	1656.8	1802.2	2066.3	2015.1	1934.3
32.5°	1209.6	1225.7	1239.2	1268.8	1231.1	1144.9	1179.9	1487.1	1457.4	1427.8
35°	921.3	934.8	967.1	983.3	929.4	875.5	843.2	1093.7	1107.2	1099.1
37.5°	670.8	678.9	738.1	800.1	738.1	689.6	670.8	840.5	905.2	897.1
40°	514.5	517.2	528.0	598.1	598.1	560.3	565.7	627.7	740.8	740.8
42.5°	441.8	441.8	452.6	441.8	444.5	484.9	498.4	506.5	627.7	627.7
45°	382.5	382.5	387.9	361.0	334.0	417.6	428.3	431.0	528.0	541.5
47.5°	320.6	320.6	331.4	296.3	282.9	331.4	361.0	369.1	455.3	466.1
50°	237.1	239.8	272.1	242.5	250.5	255.9	312.5	317.9	385.2	409.5
52.5°	158.9	158.9	164.3	188.6	218.2	210.1	253.2	272.1	307.1	339.4
55°	129.3	129.3	126.6	121.2	161.6	175.1	185.9	226.3	250.5	290.9
57.5°	88.9	94.3	86.2	99.7	105.1	132.0	140.1	177.8	191.3	245.1
60°	10.8	13.5	18.9	72.7	70.0	88.9	105.1	140.1	156.2	188.6
62.5°	2.7	2.7	5.4	13.5	48.5	59.3	83.5	97.0	113.1	145.5
65°	0.0	0.0	2.7	5.4	10.8	32.3	43.1	56.6	80.8	102.4
67.5°	0.0	0.0	2.7	5.4	5.4	13.5	21.6	35.0	43.1	75.4
70°	0.0	0.0	2.7	5.4	5.4	10.8	13.5	16.2	29.6	40.4
72.5°	0.0	0.0	2.7	5.4	8.1	10.8	13.5	13.5	13.5	26.9
75°	0.0	0.0	2.7	5.4	8.1	10.8	13.5	13.5	10.8	10.8
77.5°	0.0	0.0	2.7	5.4	10.8	13.5	16.2	13.5	8.1	8.1
80°	0.0	0.0	2.7	8.1	13.5	18.9	21.6	16.2	8.1	5.4
82.5°	0.0	0.0	5.4	10.8	16.2	21.6	29.6	24.2	10.8	5.4
85°	0.0	0.0	2.7	8.1	16.2	21.6	43.1	29.6	13.5	2.7
87.5°	0.0	0.0	0.0	2.7	2.7	5.4	16.2	10.8	5.4	2.7
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°
245690.3	0°	245690.3	245690.3	245690.3	245690.3	245690.3	245690.3	245690.3	245690.3
241751.7	1°	243440.8	243610.6	243055.6	243915.0	243613.3	241846.0	241261.4	240569.1
232169.4	2°	231458.2	232322.9	232366.0	233319.7	233306.2	231245.4	230606.9	231784.2
215332.2	3°	214680.3	215687.8	214780.0	216474.5	215965.3	213465.3	212816.1	214152.3
194033.9	4°	193454.7	193263.5	192951.0	191986.5	193174.6	191469.3	190184.3	191997.3
169338.6	5°	168999.1	168573.5	167964.6	167679.1	168562.7	167471.7	164828.9	167477.0
145050.0	6°	145227.8	143395.9	143307.0	143148.0	143236.9	140182.0	140365.2	142337.2
118754.4	7°	120009.8	120346.5	119659.6	120761.4	119920.9	117851.9	117054.5	119131.5
100381.7	8°	99681.3	99255.6	98730.3	100376.3	98918.9	97561.1	96631.7	98272.3
82052.1	9°	81898.6	81163.1	80629.7	80546.2	80772.5	78224.0	78741.3	79983.2
66723.6	10°	66747.8	65540.9	65834.6	65912.7	65664.9	63994.6	64010.8	64439.1
40923.7	12.5°	40778.2	40185.5	40333.7	40414.5	40918.3	40331.0	39501.3	38903.2
25802.6	15°	25630.2	25204.5	26074.7	26659.3	26540.7	26018.1	25627.5	25086.0
17152.3	17.5°	16993.4	17551.0	17553.7	18087.1	18141.0	17618.4	17316.7	16829.1
11155.6	20°	11115.2	11346.9	11829.1	12206.3	12424.5	12025.8	11664.8	11330.7
6955.8	22.5°	6955.8	7359.9	7661.6	8151.9	8351.2	8060.3	7804.4	7532.3
4342.6	25°	4269.9	4558.2	4808.7	5234.3	5506.4	5366.3	5132.0	4940.7
2804.4	27.5°	2847.5	2968.7	3092.6	3386.3	3669.2	3591.0	3496.7	3380.9
1977.4	30°	2007.0	2017.8	2149.8	2314.1	2502.7	2551.2	2508.1	2448.8
1452.0	32.5°	1479.0	1522.1	1584.0	1686.4	1813.0	1928.9	1907.3	1880.4
1109.9	35°	1142.2	1206.9	1258.1	1336.2	1403.5	1514.0	1532.9	1524.8
913.2	37.5°	932.1	988.7	1039.9	1085.7	1142.2	1217.7	1276.9	1279.6
754.3	40°	773.2	824.3	891.7	926.7	967.1	1023.7	1096.4	1101.8
638.5	42.5°	651.9	700.4	767.8	810.9	840.5	894.4	967.1	977.9
546.9	45°	560.3	590.0	660.0	711.2	740.8	775.9	854.0	864.8
471.4	47.5°	487.6	517.2	560.3	633.1	660.0	692.3	754.3	773.2
417.6	50°	428.3	458.0	495.7	560.3	600.7	627.7	678.9	705.8
363.7	52.5°	379.8	409.5	449.9	501.1	546.9	571.1	619.6	654.6
296.3	55°	317.9	369.1	398.7	444.5	506.5	528.0	565.7	611.5
258.6	57.5°	277.5	320.6	363.7	401.4	463.4	490.3	528.0	571.1
204.7	60°	234.4	274.8	326.0	358.3	417.6	452.6	493.0	533.4
156.2	62.5°	185.9	239.8	274.8	320.6	377.2	422.9	455.3	495.7
121.2	65°	137.4	196.7	237.1	285.6	339.4	387.9	414.9	458.0
86.2	67.5°	99.7	153.6	202.0	247.8	299.0	347.5	374.5	412.2
53.9	70°	78.1	113.1	167.0	207.4	261.3	301.7	331.4	355.6
35.0	72.5°	45.8	86.2	134.7	180.5	229.0	255.9	277.5	299.0
16.2	75°	29.6	67.3	110.5	150.9	185.9	210.1	229.0	247.8
8.1	77.5°	18.9	48.5	88.9	126.6	142.8	172.4	188.6	199.4
5.4	80°	10.8	37.7	78.1	102.4	115.8	134.7	150.9	164.3
5.4	82.5°	8.1	32.3	64.7	86.2	86.2	107.8	115.8	115.8
2.7	85°	5.4	26.9	51.2	80.8	64.7	80.8	75.4	75.4
2.7	87.5°	5.4	18.9	24.2	35.0	29.6	35.0	35.0	40.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
245690.3
237826.7
226797.7
208217.5
185434.9
160499.7
136620.6
113482.3
93587.6
76103.9
61524.3
38539.5
24808.5
16707.8
11214.9
7386.8
4830.2
3313.5
2408.4
1858.8
1497.8
1260.8
1093.7
969.8
862.1
775.9
708.5
654.6
614.2
573.8
544.2
514.5
466.1
414.9
363.7
304.4
247.8
194.0
148.2
107.8
72.7
40.4
0.0

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