

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: P637071

Luminaire Tested: **IFLD-M-SA4A-730-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637071
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-730-U-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (64) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16723.6 lumens
Efficiency: N/A
Efficacy: 130.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

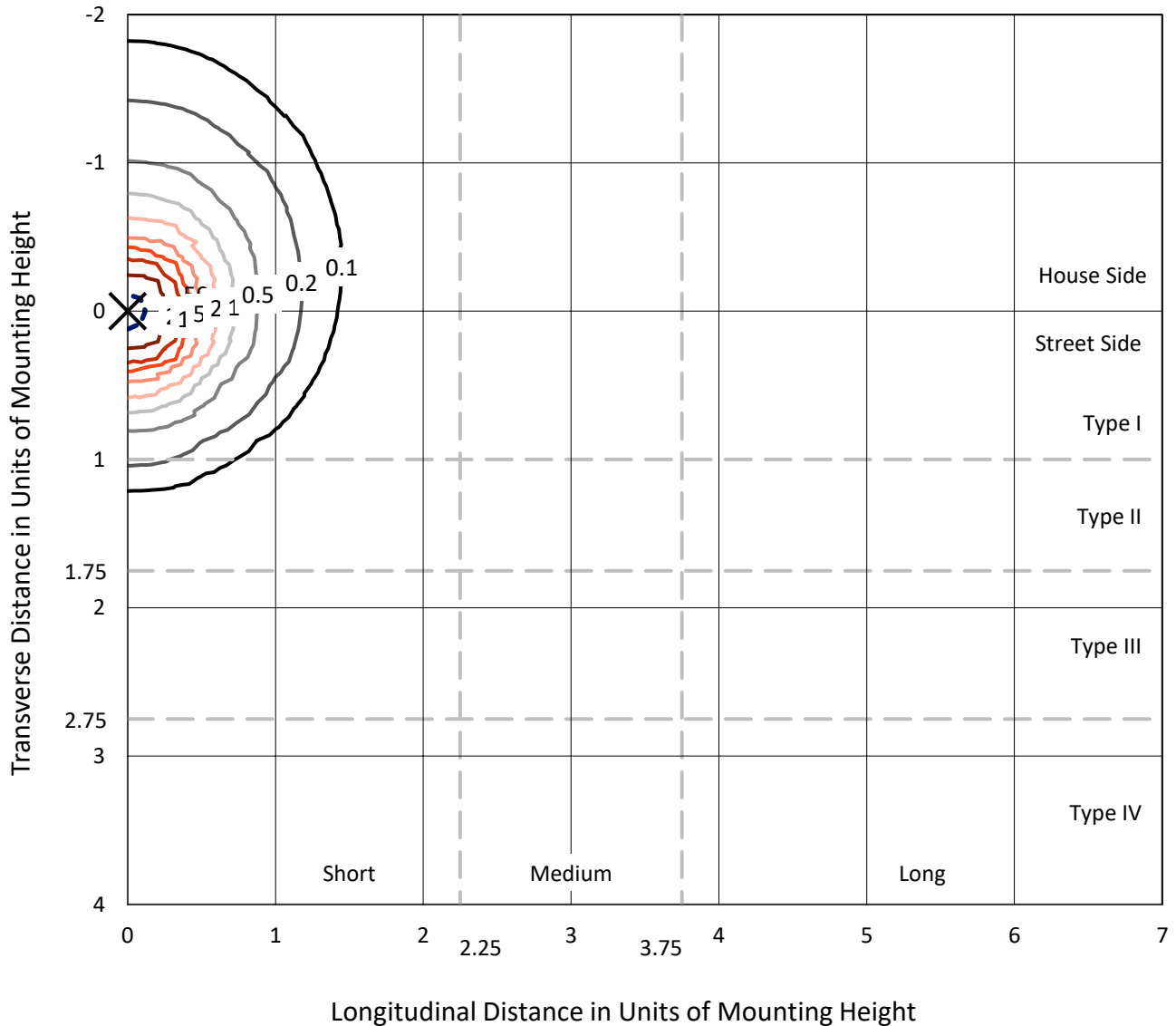
Input Watts (W): 128.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

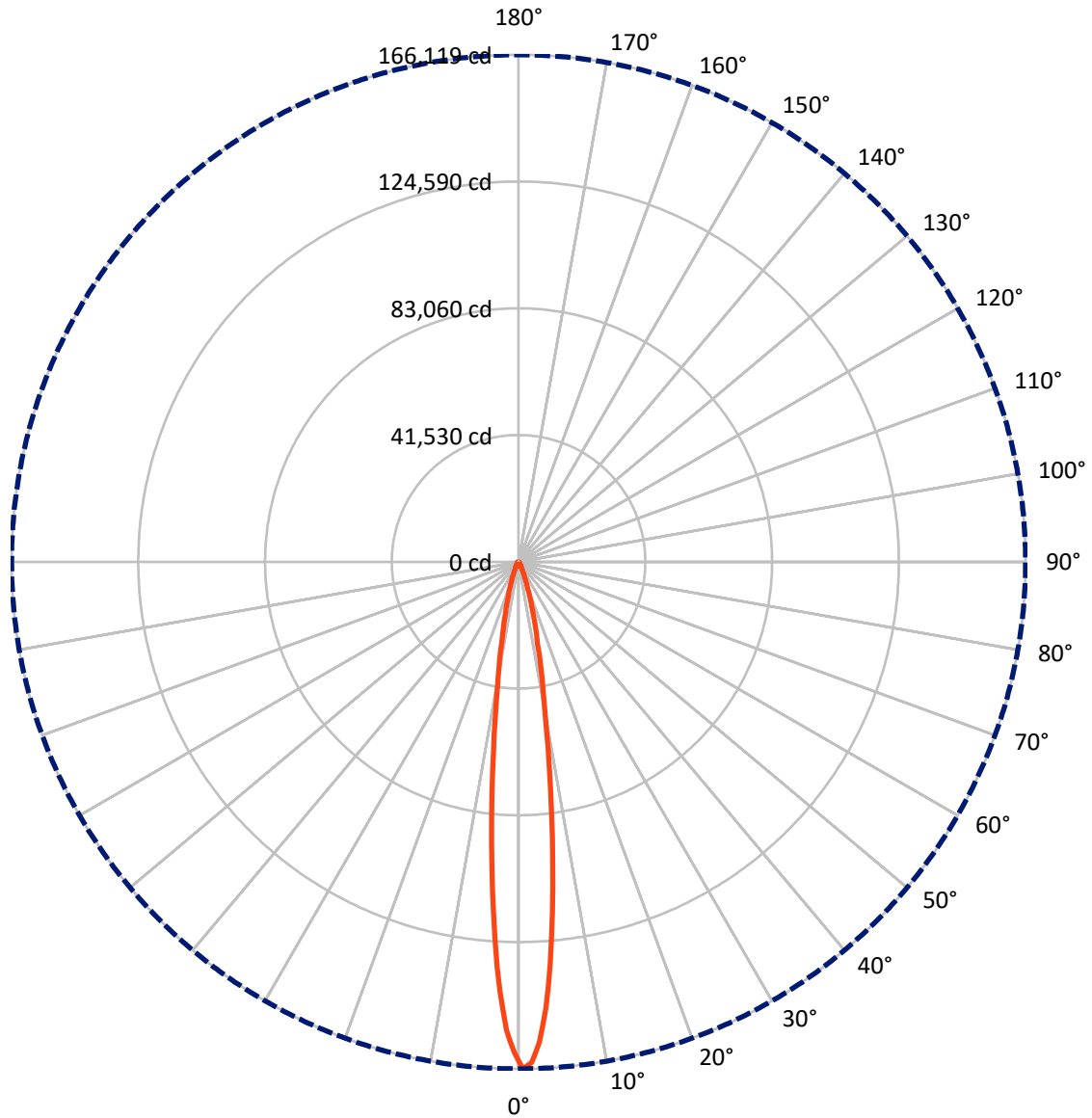
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 415.3 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	8565.5	0.0	8565.5
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	8158.1	0.0	8158.1
	% Fixture	48.8	0.0	48.8
Total	Lumens	16723.6	0.0	16723.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8442.6	50.5
10°-20°	5404.9	32.3
20°-30°	1624.6	9.7
30°-40°	529.0	3.2
40°-50°	307.8	1.8
50°-60°	204.4	1.2
60°-70°	123.1	0.7
70°-80°	63.2	0.4
80°-90°	24.0	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°	16723.6	100.0
0°-180°	16723.6	100.0

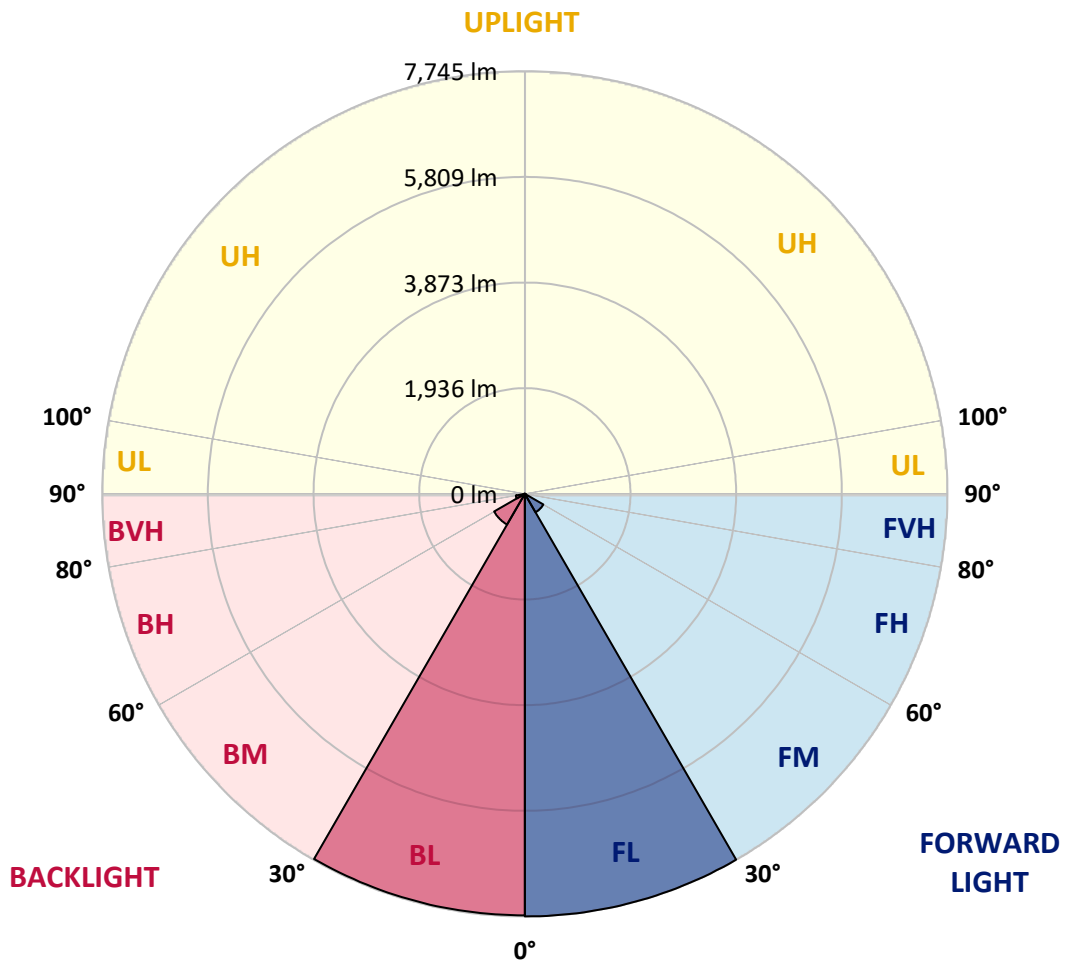


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7745.2	46.3			
FM (30°-60°)	390.8	2.3			
FH (60°-80°)	18.4	0.1			G0/660
FVH (80°-90°)	3.6	0.0			G0/10
BL (0°-30°)	7726.9	46.2	B5		
BM (30°-60°)	650.3	3.9	B1/1000		
BH (60°-80°)	167.9	1.0	B1/500		G0/660
BVH (80°-90°)	20.4	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°	166119.4	166119.4	166119.4	166119.4	166119.4	166119.4	166119.4	166119.4	166119.4	166119.4
1°	164130.4	163629.5	162336.3	163256.1	164064.8	163829.9	163813.5	163726.0	163604.0	164562.1
2°	157569.5	157245.3	155332.7	156121.4	157270.8	156432.9	156957.5	156496.6	156505.7	157649.6
3°	146509.5	146686.2	143635.3	145068.8	146666.2	144635.3	145265.5	146449.4	145209.0	144835.6
4°	132134.5	130600.9	128934.2	130391.4	130804.9	129622.7	130784.8	132234.7	130511.6	130588.1
5°	115723.1	114590.2	112617.5	113517.4	112491.9	112865.3	114606.6	115204.0	114001.9	112488.2
6°	98849.1	98044.0	95577.7	96874.6	96510.3	96299.0	98497.5	96676.1	97331.8	96415.6
7°	82222.8	80718.2	79507.0	80749.2	80829.3	80193.6	83047.9	82716.4	81523.3	81246.5
8°	68122.8	66621.9	65596.4	66521.7	67126.5	66128.3	67470.7	68352.3	67419.7	67503.5
9°	54944.5	54680.4	53254.2	54463.6	55121.2	54052.0	55538.3	55857.1	54984.6	55409.0
10°	45114.0	44806.2	43667.8	44157.8	45247.0	43972.0	45398.2	45502.0	44806.2	45004.8
12.5°	27879.3	27755.5	27724.5	27795.6	27781.0	28006.8	28371.1	27955.8	27901.2	27214.5
15°	18019.8	18203.7	18014.3	18378.6	18431.4	18644.5	18422.3	18087.1	17447.8	17130.9
17.5°	11245.7	11480.7	11804.9	12338.6	12872.3	12934.2	12639.1	12245.7	11936.1	11597.3
20°	6469.8	6584.6	6535.4	7174.8	8555.4	8930.6	8550.0	8136.5	7763.1	7420.6
22.5°	4020.0	3978.1	4054.6	4269.5	4719.4	5879.7	5568.2	5154.7	4883.3	4601.0
25°	2464.4	2510.0	2480.8	2599.2	2801.4	3293.2	3364.2	3185.7	3047.3	2901.6
27.5°	1586.5	1586.5	1599.2	1664.8	1803.3	1786.9	2165.7	2027.3	1952.6	1881.6
30°	1102.0	1105.6	1105.6	1143.9	1174.8	1120.2	1218.6	1397.1	1362.5	1307.8
32.5°	817.8	828.8	837.9	857.9	832.4	774.1	797.8	1005.4	985.4	965.4
35°	622.9	632.0	653.9	664.8	628.4	592.0	570.1	739.5	748.6	743.2
37.5°	453.5	459.0	499.1	541.0	499.1	466.3	453.5	568.3	612.0	606.5
40°	347.9	349.7	357.0	404.4	404.4	378.9	382.5	424.4	500.9	500.9
42.5°	298.7	298.7	306.0	298.7	300.5	327.9	337.0	342.4	424.4	424.4
45°	258.6	258.6	262.3	244.1	225.9	282.3	289.6	291.4	357.0	366.1
47.5°	216.8	216.8	224.0	200.4	191.3	224.0	244.1	249.5	307.8	315.1
50°	160.3	162.1	184.0	163.9	169.4	173.0	211.3	214.9	260.5	276.9
52.5°	107.5	107.5	111.1	127.5	147.5	142.1	171.2	184.0	207.6	229.5
55°	87.4	87.4	85.6	82.0	109.3	118.4	125.7	153.0	169.4	196.7
57.5°	60.1	63.8	58.3	67.4	71.0	89.3	94.7	120.2	129.3	165.8
60°	7.3	9.1	12.8	49.2	47.4	60.1	71.0	94.7	105.6	127.5
62.5°	1.8	1.8	3.6	9.1	32.8	40.1	56.5	65.6	76.5	98.4
65°	0.0	0.0	1.8	3.6	7.3	21.9	29.1	38.3	54.6	69.2
67.5°	0.0	0.0	1.8	3.6	3.6	9.1	14.6	23.7	29.1	51.0
70°	0.0	0.0	1.8	3.6	3.6	7.3	9.1	10.9	20.0	27.3
72.5°	0.0	0.0	1.8	3.6	5.5	7.3	9.1	9.1	9.1	18.2
75°	0.0	0.0	1.8	3.6	5.5	7.3	9.1	9.1	7.3	7.3
77.5°	0.0	0.0	1.8	3.6	7.3	9.1	10.9	9.1	5.5	5.5
80°	0.0	0.0	1.8	5.5	9.1	12.8	14.6	10.9	5.5	3.6
82.5°	0.0	0.0	3.6	7.3	10.9	14.6	20.0	16.4	7.3	3.6
85°	0.0	0.0	1.8	5.5	10.9	14.6	29.1	20.0	9.1	1.8
87.5°	0.0	0.0	0.0	1.8	1.8	3.6	10.9	7.3	3.6	1.8
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°
166119.4	0°	166119.4	166119.4	166119.4	166119.4	166119.4	166119.4	166119.4	166119.4
163456.5	1°	164598.5	164713.3	164338.0	164919.1	164715.1	163520.2	163125.0	162656.8
156977.5	2°	156496.6	157081.3	157110.5	157755.3	157746.2	156352.7	155921.1	156717.0
145593.4	3°	145152.6	145833.8	145220.0	146365.7	146021.4	144331.1	143892.1	144795.6
131192.8	4°	130801.2	130671.9	130460.6	129808.5	130611.8	129458.8	128590.0	129815.8
114495.5	5°	114266.0	113978.2	113566.5	113373.5	113970.9	113233.2	111446.3	113236.8
98073.1	6°	98193.4	96954.8	96894.7	96787.2	96847.3	94781.8	94905.6	96238.9
80293.8	7°	81142.6	81370.3	80905.8	81650.8	81082.5	79683.6	79144.5	80548.8
67871.4	8°	67397.9	67110.1	66754.9	67867.8	66882.4	65964.4	65336.0	66445.2
55478.2	9°	55374.4	54877.1	54516.5	54460.0	54613.0	52889.9	53239.6	54079.3
45114.0	10°	45130.4	44314.4	44513.0	44565.8	44398.2	43268.9	43279.8	43569.4
27669.9	12.5°	27571.5	27170.8	27271.0	27325.6	27666.2	27269.2	26708.1	26303.8
17446.0	15°	17329.4	17041.6	17630.0	18025.2	17945.1	17591.7	17327.6	16961.5
11597.3	17.5°	11489.8	11866.8	11868.7	12229.3	12265.7	11912.4	11708.4	11378.7
7542.7	20°	7515.4	7672.0	7998.1	8253.1	8400.6	8131.0	7886.9	7661.1
4703.0	22.5°	4703.0	4976.2	5180.2	5511.8	5646.5	5449.8	5276.8	5092.8
2936.2	25°	2887.0	3081.9	3251.3	3539.1	3723.1	3628.4	3469.9	3340.6
1896.1	27.5°	1925.3	2007.3	2091.0	2289.6	2480.8	2428.0	2364.3	2285.9
1337.0	30°	1357.0	1364.3	1453.5	1564.6	1692.1	1724.9	1695.8	1655.7
981.8	32.5°	1000.0	1029.1	1071.0	1140.2	1225.8	1304.2	1289.6	1271.4
750.4	35°	772.3	816.0	850.6	903.4	949.0	1023.7	1036.4	1030.9
617.5	37.5°	630.2	668.5	703.1	734.1	772.3	823.3	863.4	865.2
510.0	40°	522.8	557.4	602.9	626.6	653.9	692.2	741.3	745.0
431.7	42.5°	440.8	473.6	519.1	548.3	568.3	604.7	653.9	661.2
369.8	45°	378.9	398.9	446.3	480.9	500.9	524.6	577.4	584.7
318.8	47.5°	329.7	349.7	378.9	428.0	446.3	468.1	510.0	522.8
282.3	50°	289.6	309.6	335.1	378.9	406.2	424.4	459.0	477.2
245.9	52.5°	256.8	276.9	304.2	338.8	369.8	386.2	418.9	442.6
200.4	55°	214.9	249.5	269.6	300.5	342.4	357.0	382.5	413.5
174.9	57.5°	187.6	216.8	245.9	271.4	313.3	331.5	357.0	386.2
138.4	60°	158.5	185.8	220.4	242.3	282.3	306.0	333.3	360.7
105.6	62.5°	125.7	162.1	185.8	216.8	255.0	286.0	307.8	335.1
82.0	65°	92.9	133.0	160.3	193.1	229.5	262.3	280.5	309.6
58.3	67.5°	67.4	103.8	136.6	167.6	202.2	235.0	253.2	278.7
36.4	70°	52.8	76.5	112.9	140.3	176.7	204.0	224.0	240.4
23.7	72.5°	31.0	58.3	91.1	122.0	154.8	173.0	187.6	202.2
10.9	75°	20.0	45.5	74.7	102.0	125.7	142.1	154.8	167.6
5.5	77.5°	12.8	32.8	60.1	85.6	96.5	116.6	127.5	134.8
3.6	80°	7.3	25.5	52.8	69.2	78.3	91.1	102.0	111.1
3.6	82.5°	5.5	21.9	43.7	58.3	58.3	72.9	78.3	78.3
1.8	85°	3.6	18.2	34.6	54.6	43.7	54.6	51.0	51.0
1.8	87.5°	3.6	12.8	16.4	23.7	20.0	23.7	23.7	27.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
166119.4
160802.6
153345.5
140782.9
125378.7
108519.3
92373.8
76729.2
63277.7
51456.4
41598.6
26057.9
16773.9
11296.7
7582.8
4994.5
3265.9
2240.4
1628.4
1256.8
1012.7
852.4
739.5
655.7
582.9
524.6
479.0
442.6
415.3
388.0
367.9
347.9
315.1
280.5
245.9
205.8
167.6
131.1
100.2
72.9
49.2
27.3
0.0

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