

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: P637160

Luminaire Tested: **IFLD-M-SA4C-750-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637160
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-750-U-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (64) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28922.4 lumens
Efficiency: N/A
Efficacy: 132.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

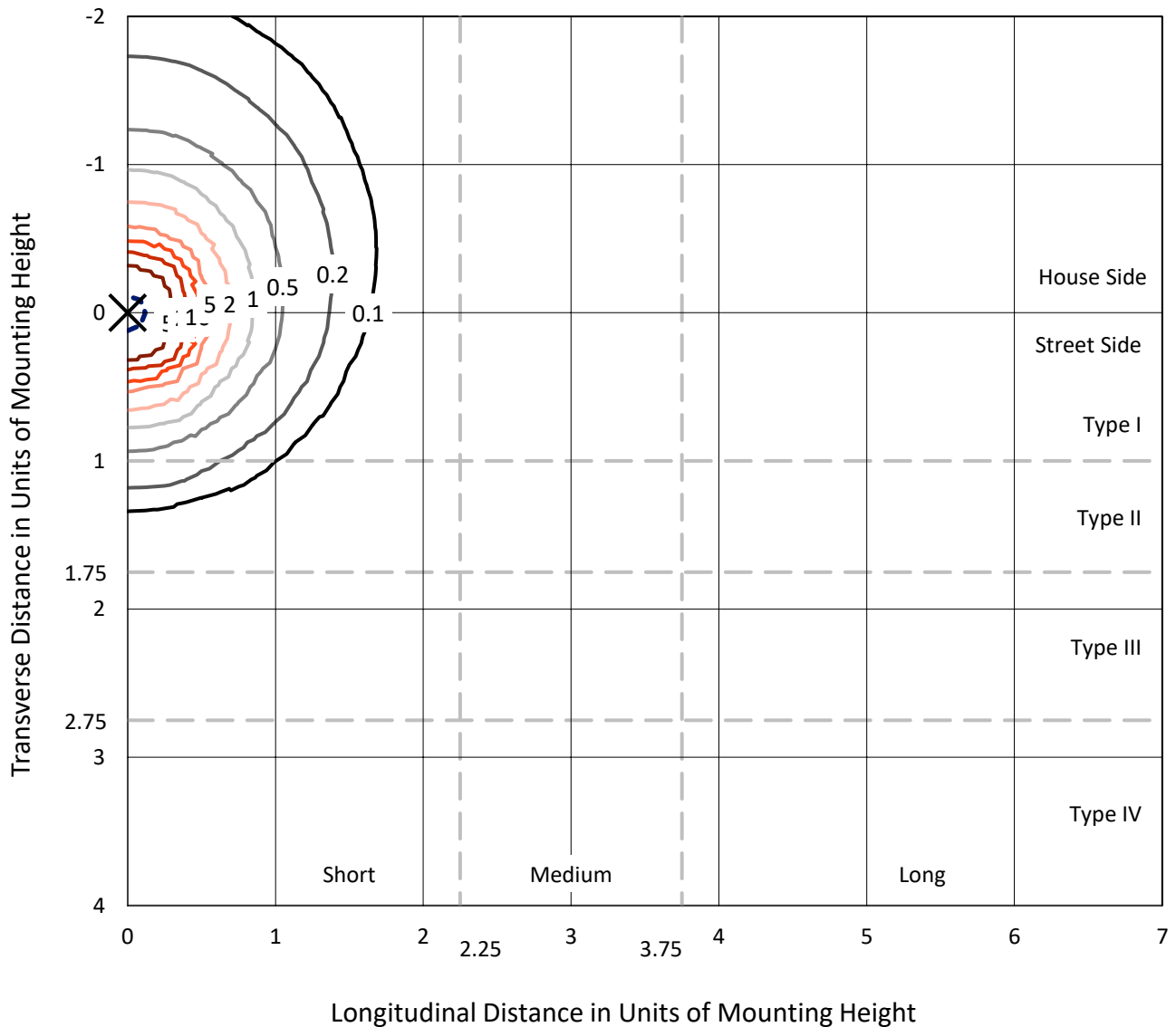
Input Watts (W): 218.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

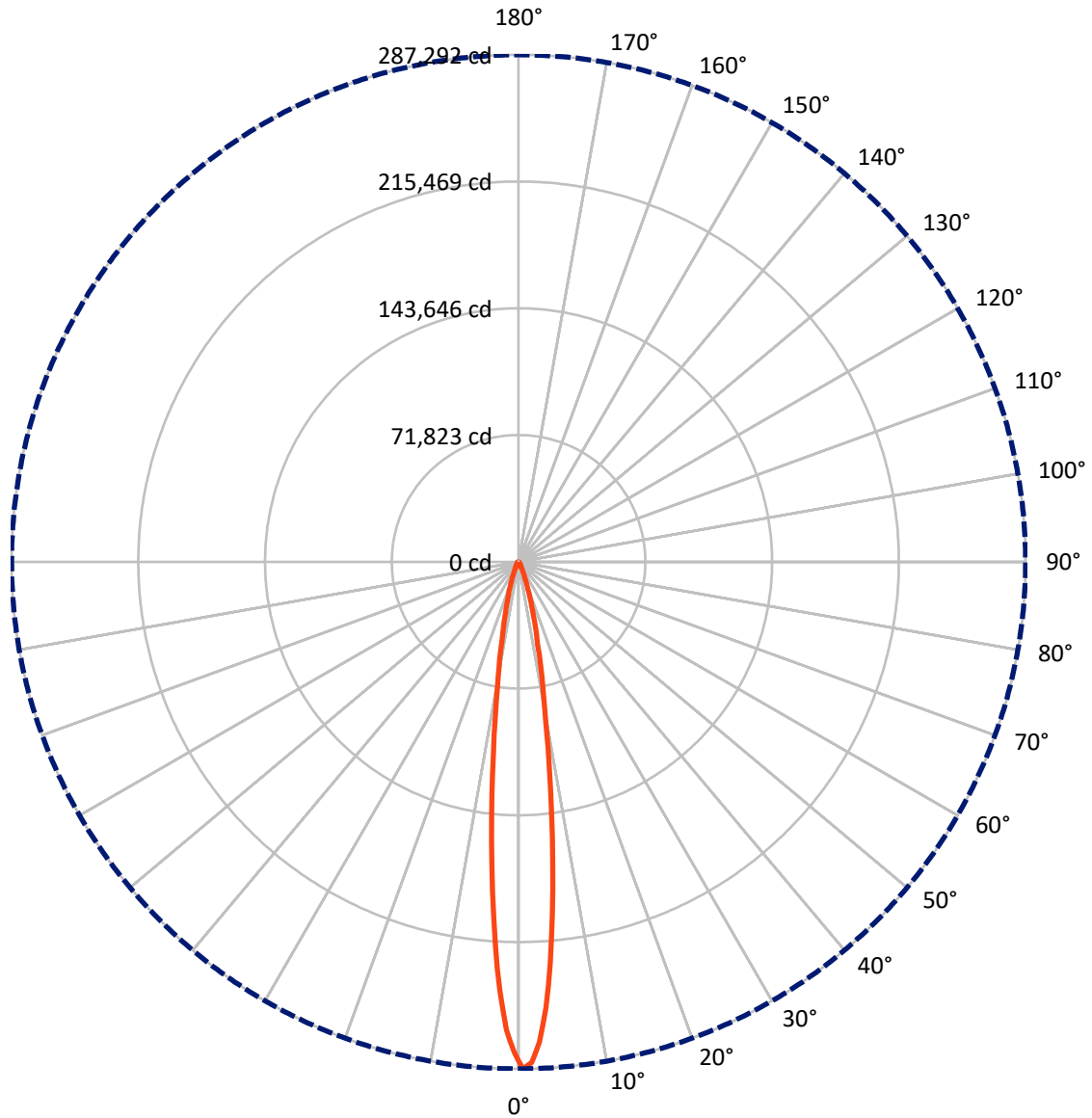
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 718.2 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	14813.5	0.0	14813.5
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	14108.9	0.0	14108.9
	% Fixture	48.8	0.0	48.8
Total	Lumens	28922.4	0.0	28922.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14600.8	50.5
10°-20°	9347.4	32.3
20°-30°	2809.6	9.7
30°-40°	914.8	3.2
40°-50°	532.3	1.8
50°-60°	353.6	1.2
60°-70°	212.8	0.7
70°-80°	109.4	0.4
80°-90°	41.6	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°	28922.4	100.0
0°-180°	28922.4	100.0

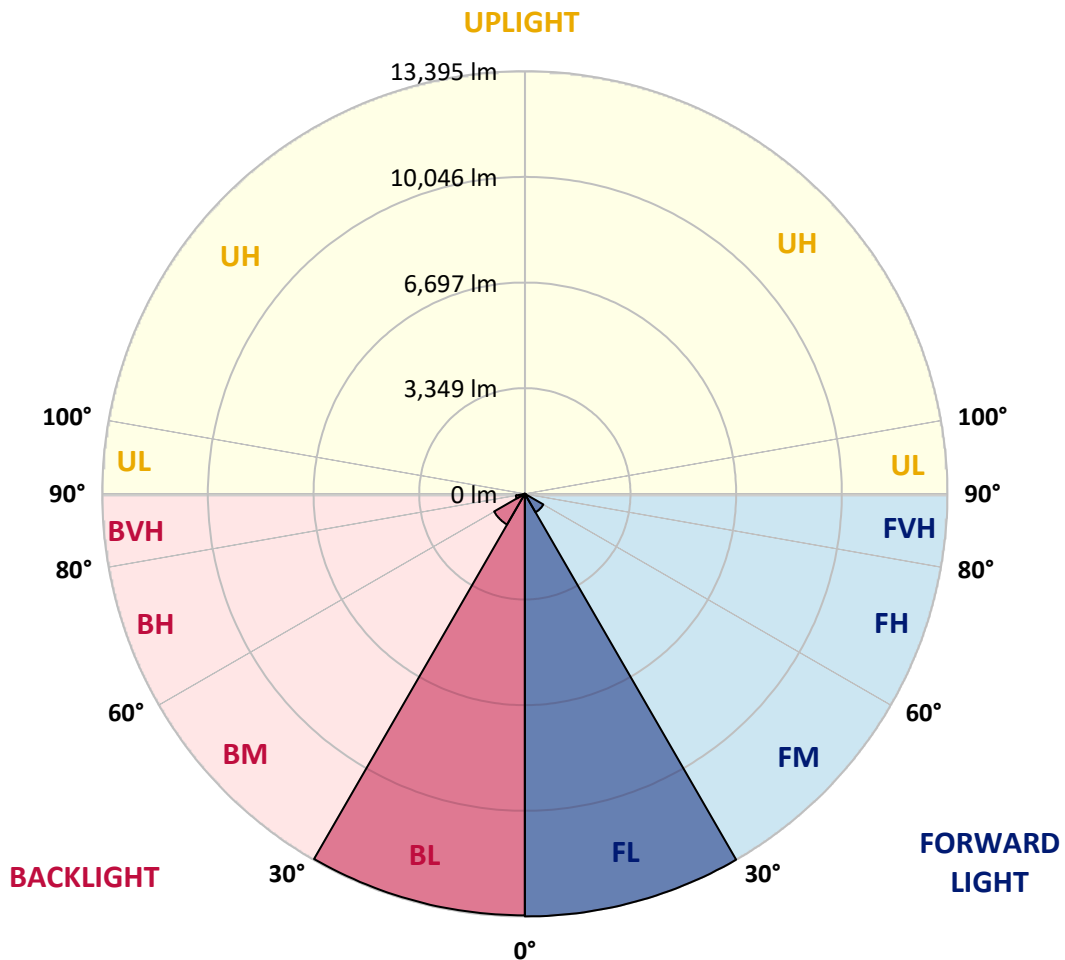


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	13394.8	46.3			
FM (30°-60°)	675.9	2.3			
FH (60°-80°)	31.8	0.1			G0/660
FVH (80°-90°)	6.3	0.0			G0/10
BL (0°-30°)	13363.1	46.2	B5		
BM (30°-60°)	1124.7	3.9	B2/2500		
BH (60°-80°)	290.4	1.0	B1/500		G0/660
BVH (80°-90°)	35.3	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°	287292.0	287292.0	287292.0	287292.0	287292.0	287292.0	287292.0	287292.0	287292.0	287292.0
1°	283852.1	282985.8	280749.3	282340.1	283738.7	283332.4	283304.0	283152.8	282941.7	284598.7
2°	272505.5	271944.8	268637.2	270001.1	271988.9	270539.8	271447.0	270650.1	270665.8	272644.1
3°	253378.1	253683.6	248407.2	250886.4	253649.0	250136.6	251226.6	253274.1	251128.9	250483.1
4°	228517.5	225865.1	222982.8	225502.9	226217.9	224173.5	226183.3	228690.8	225710.8	225843.1
5°	200135.1	198175.8	194764.2	196320.4	194546.9	195192.6	198204.1	199237.4	197158.3	194540.6
6°	170952.6	169560.3	165295.1	167537.9	166907.9	166542.5	170344.7	167194.6	168328.6	166744.1
7°	142198.5	139596.6	137501.7	139650.1	139788.7	138689.3	143625.5	143052.2	140988.9	140510.1
8°	117813.6	115218.0	113444.5	115044.7	116090.5	114364.3	116685.9	118210.6	116597.7	116742.6
9°	95022.7	94565.9	92099.4	94191.1	95328.2	93479.1	96049.6	96600.9	95092.0	95826.0
10°	78021.6	77489.2	75520.4	76367.8	78251.6	76046.5	78513.0	78692.6	77489.2	77832.6
12.5°	48215.4	48001.2	47947.6	48070.5	48045.3	48435.9	49065.9	48347.7	48253.2	47065.6
15°	31163.9	31482.1	31154.5	31784.5	31875.8	32244.4	31860.1	31280.5	30174.8	29626.7
17.5°	19448.7	19855.1	20415.8	21338.8	22261.7	22368.8	21858.5	21178.1	20642.6	20056.7
20°	11189.1	11387.6	11302.5	12408.2	14796.0	15444.9	14786.6	14071.5	13425.7	12833.5
22.5°	6952.3	6879.8	7012.1	7383.8	8161.9	10168.5	9629.8	8914.8	8445.4	7957.1
25°	4262.1	4340.8	4290.4	4495.2	4844.8	5695.4	5818.2	5509.5	5270.1	5018.1
27.5°	2743.7	2743.7	2765.8	2879.2	3118.6	3090.2	3745.5	3506.1	3376.9	3254.1
30°	1905.8	1912.1	1912.1	1978.3	2031.8	1937.3	2107.4	2416.1	2356.3	2261.8
32.5°	1414.4	1433.3	1449.0	1483.7	1439.6	1338.8	1379.7	1738.9	1704.2	1669.6
35°	1077.3	1093.1	1130.9	1149.8	1086.8	1023.8	986.0	1278.9	1294.7	1285.2
37.5°	784.4	793.8	863.1	935.6	863.1	806.4	784.4	982.8	1058.4	1049.0
40°	601.7	604.8	617.4	699.3	699.3	655.2	661.5	734.0	866.3	866.3
42.5°	516.6	516.6	529.2	516.6	519.8	567.0	582.8	592.2	734.0	734.0
45°	447.3	447.3	453.6	422.1	390.6	488.3	500.9	504.0	617.4	633.2
47.5°	374.9	374.9	387.5	346.5	330.8	387.5	422.1	431.6	532.4	545.0
50°	277.2	280.4	318.2	283.5	293.0	299.3	365.4	371.7	450.5	478.8
52.5°	185.9	185.9	192.2	220.5	255.2	245.7	296.1	318.2	359.1	396.9
55°	151.2	151.2	148.1	141.8	189.0	204.8	217.4	264.6	293.0	340.2
57.5°	104.0	110.3	100.8	116.6	122.9	154.4	163.8	207.9	223.7	286.7
60°	12.6	15.8	22.1	85.1	81.9	104.0	122.9	163.8	182.7	220.5
62.5°	3.2	3.2	6.3	15.8	56.7	69.3	97.7	113.4	132.3	170.1
65°	0.0	0.0	3.2	6.3	12.6	37.8	50.4	66.2	94.5	119.7
67.5°	0.0	0.0	3.2	6.3	6.3	15.8	25.2	41.0	50.4	88.2
70°	0.0	0.0	3.2	6.3	6.3	12.6	15.8	18.9	34.7	47.3
72.5°	0.0	0.0	3.2	6.3	9.5	12.6	15.8	15.8	15.8	31.5
75°	0.0	0.0	3.2	6.3	9.5	12.6	15.8	15.8	12.6	12.6
77.5°	0.0	0.0	3.2	6.3	12.6	15.8	18.9	15.8	9.5	9.5
80°	0.0	0.0	3.2	9.5	15.8	22.1	25.2	18.9	9.5	6.3
82.5°	0.0	0.0	6.3	12.6	18.9	25.2	34.7	28.4	12.6	6.3
85°	0.0	0.0	3.2	9.5	18.9	25.2	50.4	34.7	15.8	3.2
87.5°	0.0	0.0	0.0	3.2	3.2	6.3	18.9	12.6	6.3	3.2
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°
287292.0	0°	287292.0	287292.0	287292.0	287292.0	287292.0	287292.0	287292.0	287292.0
282686.6	1°	284661.7	284860.2	284211.2	285216.1	284863.3	282796.8	282113.3	281303.7
271481.7	2°	270650.1	271661.2	271711.6	272826.8	272811.0	270401.2	269654.6	271031.2
251793.6	3°	251031.3	252209.4	251147.8	253129.2	252533.9	249610.6	248851.4	250413.8
226888.9	4°	226211.6	225988.0	225622.6	224494.8	225884.0	223890.0	222387.4	224507.4
198012.0	5°	197615.1	197117.3	196405.4	196071.5	197104.7	195829.0	192738.7	195835.3
169610.7	6°	169818.6	167676.5	167572.6	167386.7	167490.7	163918.5	164132.7	166438.5
138862.6	7°	140330.5	140724.3	139921.0	141209.4	140226.6	137807.3	136874.9	139303.6
117378.9	8°	116559.9	116062.2	115447.9	117372.6	115668.4	114080.8	112994.0	114912.4
95945.7	9°	95766.1	94906.1	94282.4	94184.8	94449.4	91469.4	92074.2	93526.4
78021.6	10°	78050.0	76638.7	76982.1	77073.4	76783.6	74830.6	74849.5	75350.3
47853.1	12.5°	47683.0	46990.0	47163.3	47257.8	47846.8	47160.1	46189.9	45490.6
30171.6	15°	29970.0	29472.3	30489.8	31173.4	31034.8	30423.6	29966.9	29333.7
20056.7	17.5°	19870.8	20522.9	20526.0	21149.8	21212.8	20601.6	20248.8	19678.7
13044.6	20°	12997.3	13268.2	13832.1	14273.1	14528.2	14062.0	13639.9	13249.3
8133.6	22.5°	8133.6	8606.1	8958.9	9532.2	9765.3	9425.1	9125.8	8807.7
5078.0	25°	4992.9	5330.0	5622.9	6120.6	6438.8	6275.0	6000.9	5777.3
3279.3	27.5°	3329.7	3471.4	3616.3	3959.7	4290.4	4199.1	4088.8	3953.4
2312.2	30°	2346.8	2359.4	2513.8	2705.9	2926.4	2983.1	2932.7	2863.4
1697.9	32.5°	1729.4	1779.8	1852.3	1972.0	2120.0	2255.5	2230.3	2198.8
1297.8	35°	1335.6	1411.2	1471.1	1562.4	1641.2	1770.4	1792.4	1783.0
1067.9	37.5°	1089.9	1156.1	1215.9	1269.5	1335.6	1423.8	1493.1	1496.3
882.0	40°	904.1	963.9	1042.7	1083.6	1130.9	1197.0	1282.1	1288.4
746.6	42.5°	762.3	819.0	897.8	948.2	982.8	1045.8	1130.9	1143.5
639.5	45°	655.2	689.9	771.8	831.6	866.3	907.2	998.6	1011.2
551.3	47.5°	570.2	604.8	655.2	740.3	771.8	809.6	882.0	904.1
488.3	50°	500.9	535.5	579.6	655.2	702.5	734.0	793.8	825.3
425.3	52.5°	444.2	478.8	526.1	585.9	639.5	667.8	724.5	765.5
346.5	55°	371.7	431.6	466.2	519.8	592.2	617.4	661.5	715.1
302.4	57.5°	324.5	374.9	425.3	469.4	541.8	573.3	617.4	667.8
239.4	60°	274.1	321.3	381.2	419.0	488.3	529.2	576.5	623.7
182.7	62.5°	217.4	280.4	321.3	374.9	441.0	494.6	532.4	579.6
141.8	65°	160.7	230.0	277.2	333.9	396.9	453.6	485.1	535.5
100.8	67.5°	116.6	179.6	236.3	289.8	349.7	406.4	437.9	482.0
63.0	70°	91.4	132.3	195.3	242.6	305.6	352.8	387.5	415.8
41.0	72.5°	53.6	100.8	157.5	211.1	267.8	299.3	324.5	349.7
18.9	75°	34.7	78.8	129.2	176.4	217.4	245.7	267.8	289.8
9.5	77.5°	22.1	56.7	104.0	148.1	167.0	201.6	220.5	233.1
6.3	80°	12.6	44.1	91.4	119.7	135.5	157.5	176.4	192.2
6.3	82.5°	9.5	37.8	75.6	100.8	100.8	126.0	135.5	135.5
3.2	85°	6.3	31.5	59.9	94.5	75.6	94.5	88.2	88.2
3.2	87.5°	6.3	22.1	28.4	41.0	34.7	41.0	41.0	47.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
287292.0
278096.9
265200.4
243474.2
216833.8
187676.5
159754.0
132697.9
109434.4
88990.3
71941.9
45065.3
29009.2
19536.9
13113.9
8637.6
5648.1
3874.6
2816.2
2173.6
1751.5
1474.2
1278.9
1134.0
1008.0
907.2
828.5
765.5
718.2
671.0
636.3
601.7
545.0
485.1
425.3
356.0
289.8
226.8
173.3
126.0
85.1
47.3
0.0

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