

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: P637023

Luminaire Tested: **IFLD-L-SA8A-722-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637023
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-722-U-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (128) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25093.9 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

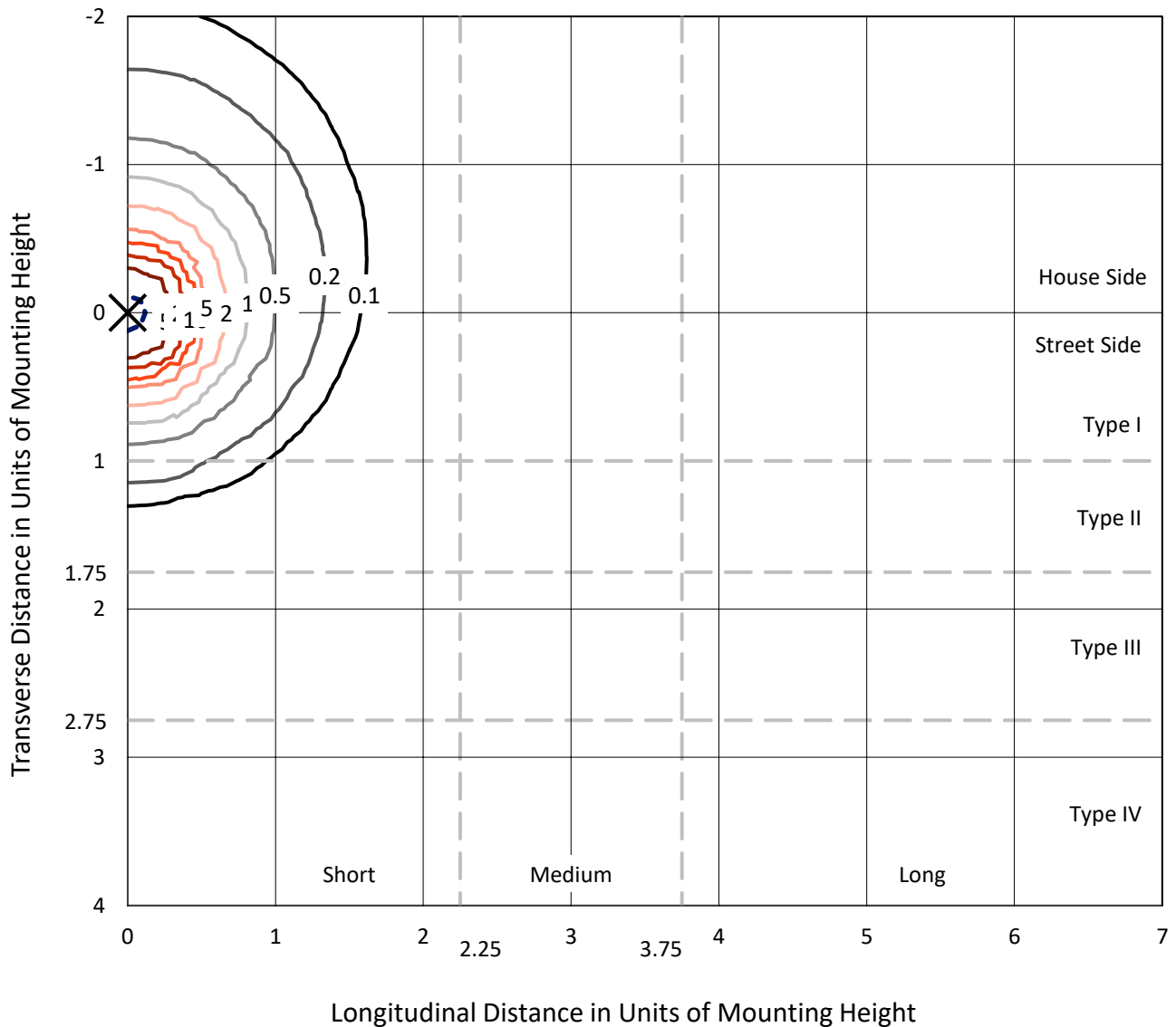
Input Watts (W): 247.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

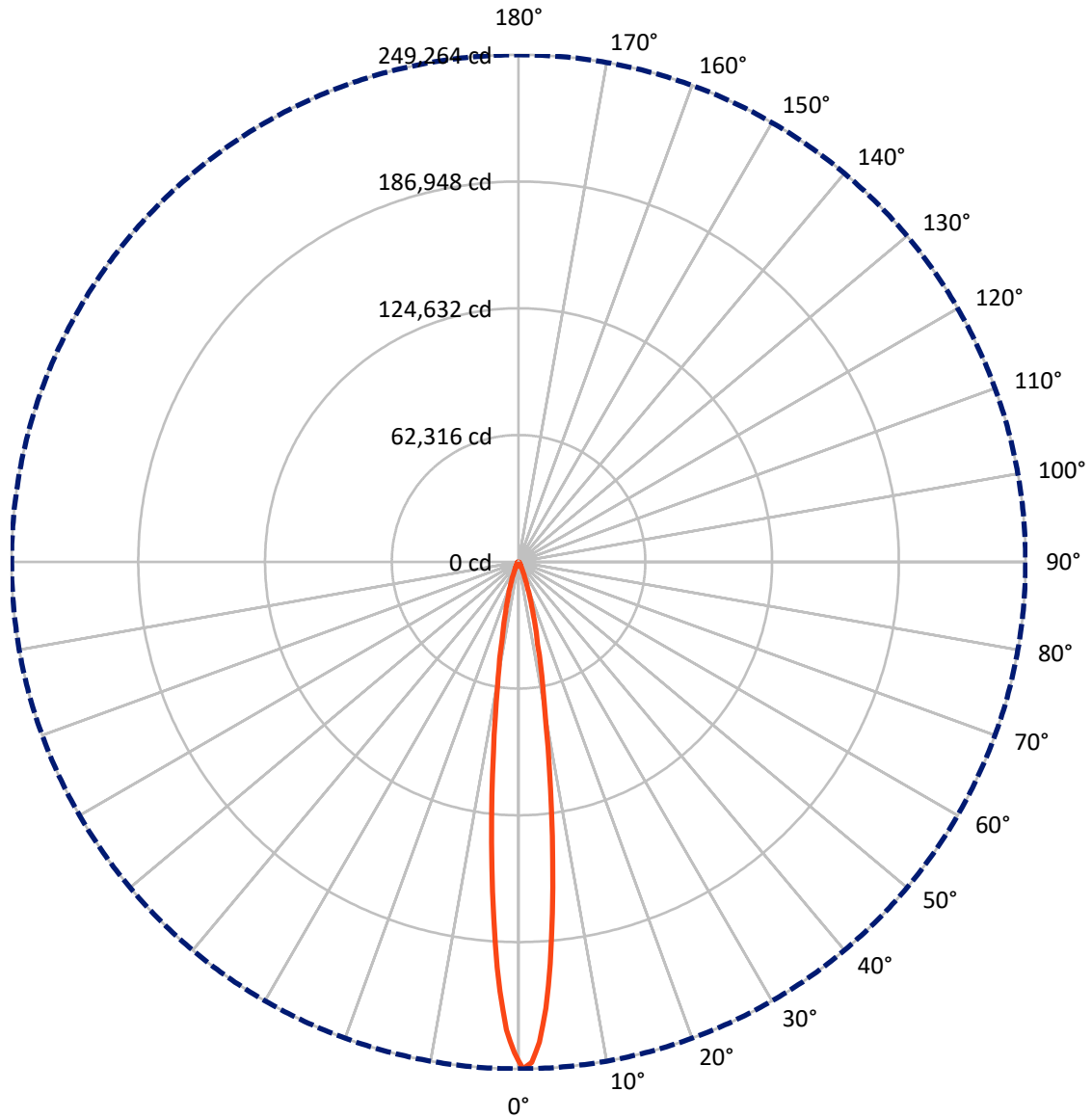
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 623.2 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	12852.6	0.0	12852.6
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	12241.3	0.0	12241.3
	% Fixture	48.8	0.0	48.8
Total	Lumens	25093.9	0.0	25093.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12668.2	50.5
10°-20°	8110.1	32.3
20°-30°	2437.7	9.7
30°-40°	793.7	3.2
40°-50°	461.8	1.8
50°-60°	306.8	1.2
60°-70°	184.6	0.7
70°-80°	94.9	0.4
80°-90°	36.1	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°	25093.9	100.0
0°-180°	25093.9	100.0

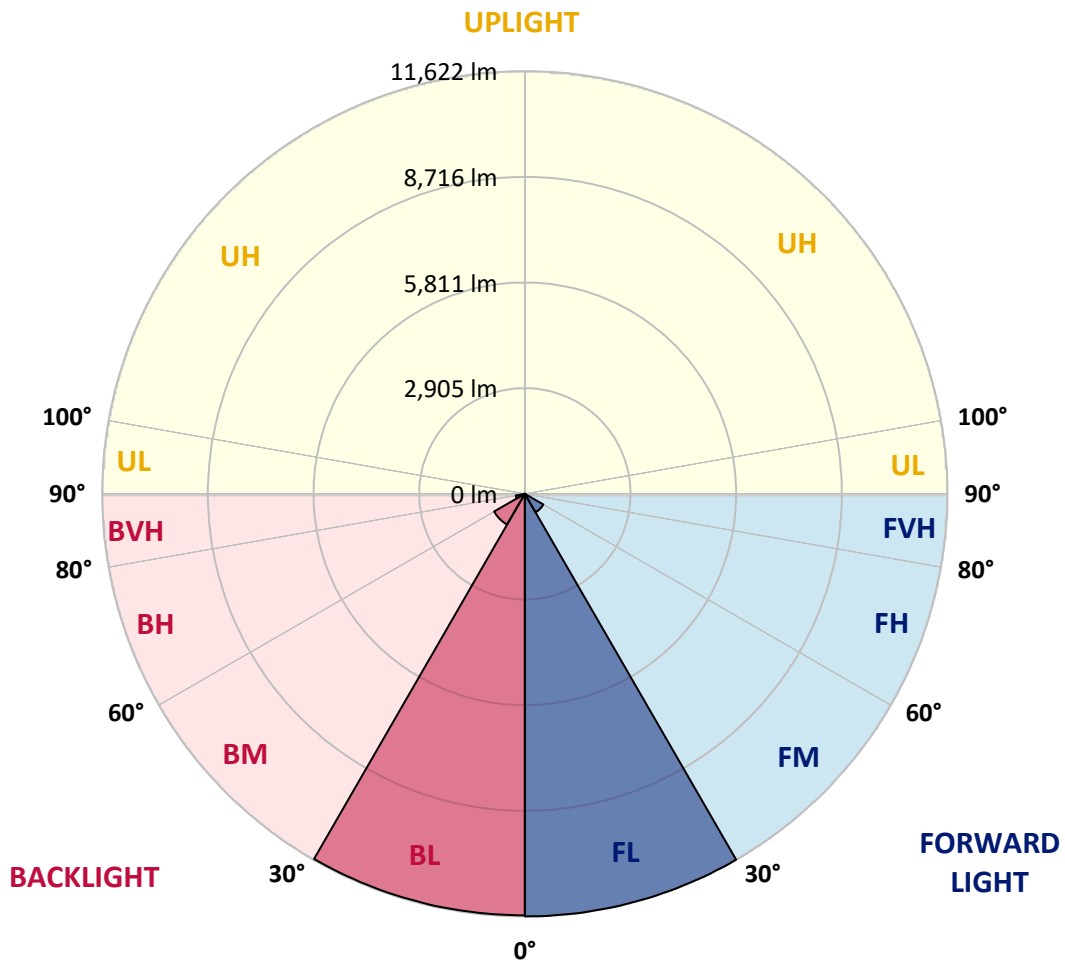


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	11621.8	46.3			
FM (30°-60°)	586.5	2.3			
FH (60°-80°)	27.6	0.1			G0/660
FVH (80°-90°)	5.4	0.0			G0/10
BL (0°-30°)	11594.2	46.2	B5		
BM (30°-60°)	975.8	3.9	B1/1000		
BH (60°-80°)	252.0	1.0	B1/500		G0/660
BVH (80°-90°)	30.6	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°	249263.8	249263.8	249263.8	249263.8	249263.8	249263.8	249263.8	249263.8	249263.8	249263.8
1°	246279.2	245527.6	243587.1	244967.3	246180.8	245828.3	245803.7	245672.5	245489.4	246927.0
2°	236434.5	235948.0	233078.2	234261.7	235986.3	234729.0	235516.2	234824.7	234838.4	236554.8
3°	219839.0	220104.1	215526.1	217677.1	220074.0	217026.6	217972.3	219748.8	217887.5	217327.2
4°	198269.1	195967.9	193467.0	195653.5	196274.0	194500.2	196243.9	198419.5	195833.9	195948.7
5°	173643.7	171943.7	168983.7	170333.9	168795.1	169355.4	171968.3	172864.7	171060.9	168789.7
6°	148324.0	147116.0	143415.3	145361.3	144814.7	144497.6	147796.5	145063.4	146047.3	144672.6
7°	123376.0	121118.5	119300.9	121164.9	121285.2	120331.3	124614.1	124116.7	122326.5	121911.1
8°	102218.9	99966.8	98428.1	99816.5	100723.9	99226.1	101240.4	102563.3	101163.9	101289.6
9°	82444.7	82048.4	79908.4	81723.2	82709.9	81105.5	83335.7	83814.0	82504.9	83141.7
10°	67694.1	67232.2	65524.0	66259.2	67893.6	65980.4	68120.4	68276.2	67232.2	67530.1
12.5°	41833.2	41647.4	41600.9	41707.5	41685.6	42024.5	42571.2	41948.0	41866.0	40835.6
15°	27038.8	27314.9	27030.6	27577.2	27656.5	27976.3	27642.8	27139.9	26180.6	25705.0
17.5°	16874.3	17226.9	17713.4	18514.2	19315.0	19407.9	18965.2	18374.8	17910.2	17401.8
20°	9708.1	9880.2	9806.5	10765.8	12837.5	13400.5	12829.3	12208.9	11648.6	11134.8
22.5°	6032.0	5969.1	6083.9	6406.4	7081.5	8822.5	8355.2	7734.7	7327.5	6903.9
25°	3697.9	3766.2	3722.5	3900.2	4203.5	4941.5	5048.1	4780.2	4572.5	4353.9
27.5°	2380.6	2380.6	2399.7	2498.1	2705.8	2681.2	3249.7	3042.0	2929.9	2823.3
30°	1653.5	1659.0	1659.0	1716.4	1762.9	1680.9	1828.5	2096.3	2044.4	1962.4
32.5°	1227.2	1243.6	1257.2	1287.3	1249.0	1161.6	1197.1	1508.7	1478.6	1448.6
35°	934.7	948.4	981.2	997.6	942.9	888.3	855.5	1109.6	1123.3	1115.1
37.5°	680.5	688.7	748.9	811.7	748.9	699.7	680.5	852.7	918.3	910.1
40°	522.0	524.8	535.7	606.8	606.8	568.5	574.0	636.8	751.6	751.6
42.5°	448.2	448.2	459.2	448.2	451.0	492.0	505.6	513.8	636.8	636.8
45°	388.1	388.1	393.6	366.2	338.9	423.6	434.6	437.3	535.7	549.4
47.5°	325.2	325.2	336.2	300.6	287.0	336.2	366.2	374.4	461.9	472.8
50°	240.5	243.2	276.0	246.0	254.2	259.6	317.0	322.5	390.8	415.4
52.5°	161.3	161.3	166.7	191.3	221.4	213.2	256.9	276.0	311.6	344.4
55°	131.2	131.2	128.5	123.0	164.0	177.7	188.6	229.6	254.2	295.2
57.5°	90.2	95.7	87.5	101.1	106.6	133.9	142.1	180.4	194.1	248.7
60°	10.9	13.7	19.1	73.8	71.1	90.2	106.6	142.1	158.5	191.3
62.5°	2.7	2.7	5.5	13.7	49.2	60.1	84.7	98.4	114.8	147.6
65°	0.0	0.0	2.7	5.5	10.9	32.8	43.7	57.4	82.0	103.9
67.5°	0.0	0.0	2.7	5.5	5.5	13.7	21.9	35.5	43.7	76.5
70°	0.0	0.0	2.7	5.5	5.5	10.9	13.7	16.4	30.1	41.0
72.5°	0.0	0.0	2.7	5.5	8.2	10.9	13.7	13.7	13.7	27.3
75°	0.0	0.0	2.7	5.5	8.2	10.9	13.7	13.7	10.9	10.9
77.5°	0.0	0.0	2.7	5.5	10.9	13.7	16.4	13.7	8.2	8.2
80°	0.0	0.0	2.7	8.2	13.7	19.1	21.9	16.4	8.2	5.5
82.5°	0.0	0.0	5.5	10.9	16.4	21.9	30.1	24.6	10.9	5.5
85°	0.0	0.0	2.7	8.2	16.4	21.9	43.7	30.1	13.7	2.7
87.5°	0.0	0.0	0.0	2.7	2.7	5.5	16.4	10.9	5.5	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°
249263.8	0°	249263.8	249263.8	249263.8	249263.8	249263.8	249263.8	249263.8	249263.8
245268.0	1°	246981.6	247153.8	246590.8	247462.7	247156.6	245363.6	244770.6	244068.1
235546.3	2°	234824.7	235702.0	235745.8	236713.3	236699.6	234608.8	233961.0	235155.4
218464.2	3°	217802.8	218825.0	217903.9	219623.1	219106.5	216570.2	215911.5	217267.1
196856.1	4°	196268.5	196074.4	195757.4	194778.9	195984.3	194254.2	192950.5	194789.9
171801.6	5°	171457.2	171025.3	170407.7	170118.0	171014.4	169907.5	167226.3	169913.0
147159.7	6°	147340.1	145481.6	145391.4	145230.1	145320.3	142220.9	142406.8	144407.4
120481.7	7°	121755.3	122096.9	121400.0	122517.8	121665.1	119566.1	118757.1	120864.3
101841.7	8°	101131.1	100699.3	100166.3	101836.3	100357.6	98980.2	98037.2	99701.7
83245.5	9°	83089.8	82343.6	81802.5	81717.7	81947.3	79361.8	79886.5	81146.5
67694.1	10°	67718.7	66494.2	66792.1	66871.4	66619.9	64925.4	64941.8	65376.4
41518.9	12.5°	41371.3	40770.0	40920.4	41002.4	41513.4	40917.6	40075.8	39469.1
26177.9	15°	26003.0	25571.1	26453.9	27047.0	26926.8	26396.5	26000.2	25450.9
17401.8	17.5°	17240.6	17806.3	17809.0	18350.2	18404.9	17874.6	17568.5	17073.8
11317.9	20°	11276.9	11511.9	12001.2	12383.8	12605.2	12200.7	11834.4	11495.5
7056.9	22.5°	7056.9	7466.9	7773.0	8270.4	8472.7	8177.5	7917.9	7641.8
4405.8	25°	4332.0	4624.4	4878.6	5310.5	5586.5	5444.4	5206.6	5012.6
2845.2	27.5°	2888.9	3011.9	3137.6	3435.5	3722.5	3643.3	3547.6	3430.1
2006.1	30°	2036.2	2047.1	2181.0	2347.8	2539.1	2588.3	2544.5	2484.4
1473.2	32.5°	1500.5	1544.2	1607.1	1710.9	1839.4	1956.9	1935.1	1907.7
1126.0	35°	1158.8	1224.4	1276.4	1355.6	1424.0	1536.0	1555.1	1546.9
926.5	37.5°	945.7	1003.1	1055.0	1101.4	1158.8	1235.4	1295.5	1298.2
765.3	40°	784.4	836.3	904.7	940.2	981.2	1038.6	1112.4	1117.8
647.8	42.5°	661.4	710.6	778.9	822.7	852.7	907.4	981.2	992.1
554.8	45°	568.5	598.6	669.6	721.5	751.6	787.1	866.4	877.3
478.3	47.5°	494.7	524.8	568.5	642.3	669.6	702.4	765.3	784.4
423.6	50°	434.6	464.6	502.9	568.5	609.5	636.8	688.7	716.1
369.0	52.5°	385.4	415.4	456.4	508.4	554.8	579.4	628.6	664.1
300.6	55°	322.5	374.4	404.5	451.0	513.8	535.7	574.0	620.4
262.4	57.5°	281.5	325.2	369.0	407.2	470.1	497.4	535.7	579.4
207.7	60°	237.8	278.8	330.7	363.5	423.6	459.2	500.2	541.2
158.5	62.5°	188.6	243.2	278.8	325.2	382.6	429.1	461.9	502.9
123.0	65°	139.4	199.5	240.5	289.7	344.4	393.6	420.9	464.6
87.5	67.5°	101.1	155.8	205.0	251.4	303.4	352.6	379.9	418.2
54.7	70°	79.3	114.8	169.5	210.5	265.1	306.1	336.2	360.8
35.5	72.5°	46.5	87.5	136.7	183.1	232.3	259.6	281.5	303.4
16.4	75°	30.1	68.3	112.1	153.1	188.6	213.2	232.3	251.4
8.2	77.5°	19.1	49.2	90.2	128.5	144.9	174.9	191.3	202.3
5.5	80°	10.9	38.3	79.3	103.9	117.5	136.7	153.1	166.7
5.5	82.5°	8.2	32.8	65.6	87.5	87.5	109.3	117.5	117.5
2.7	85°	5.5	27.3	51.9	82.0	65.6	82.0	76.5	76.5
2.7	87.5°	5.5	19.1	24.6	35.5	30.1	35.5	35.5	41.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
249263.8
241285.8
230096.4
211246.0
188132.0
162834.2
138607.7
115132.9
94948.8
77210.8
62419.1
39100.1
25169.4
16950.8
11378.0
7494.2
4900.5
3361.7
2443.4
1885.9
1519.6
1279.1
1109.6
983.9
874.6
787.1
718.8
664.1
623.2
582.2
552.1
522.0
472.8
420.9
369.0
308.8
251.4
196.8
150.3
109.3
73.8
41.0
0.0

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