

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: P637105

Luminaire Tested: **IFLD-L-SA7A-735-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637105
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-735-U-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (112) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30701.3 lumens
Efficiency: N/A
Efficacy: 141.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

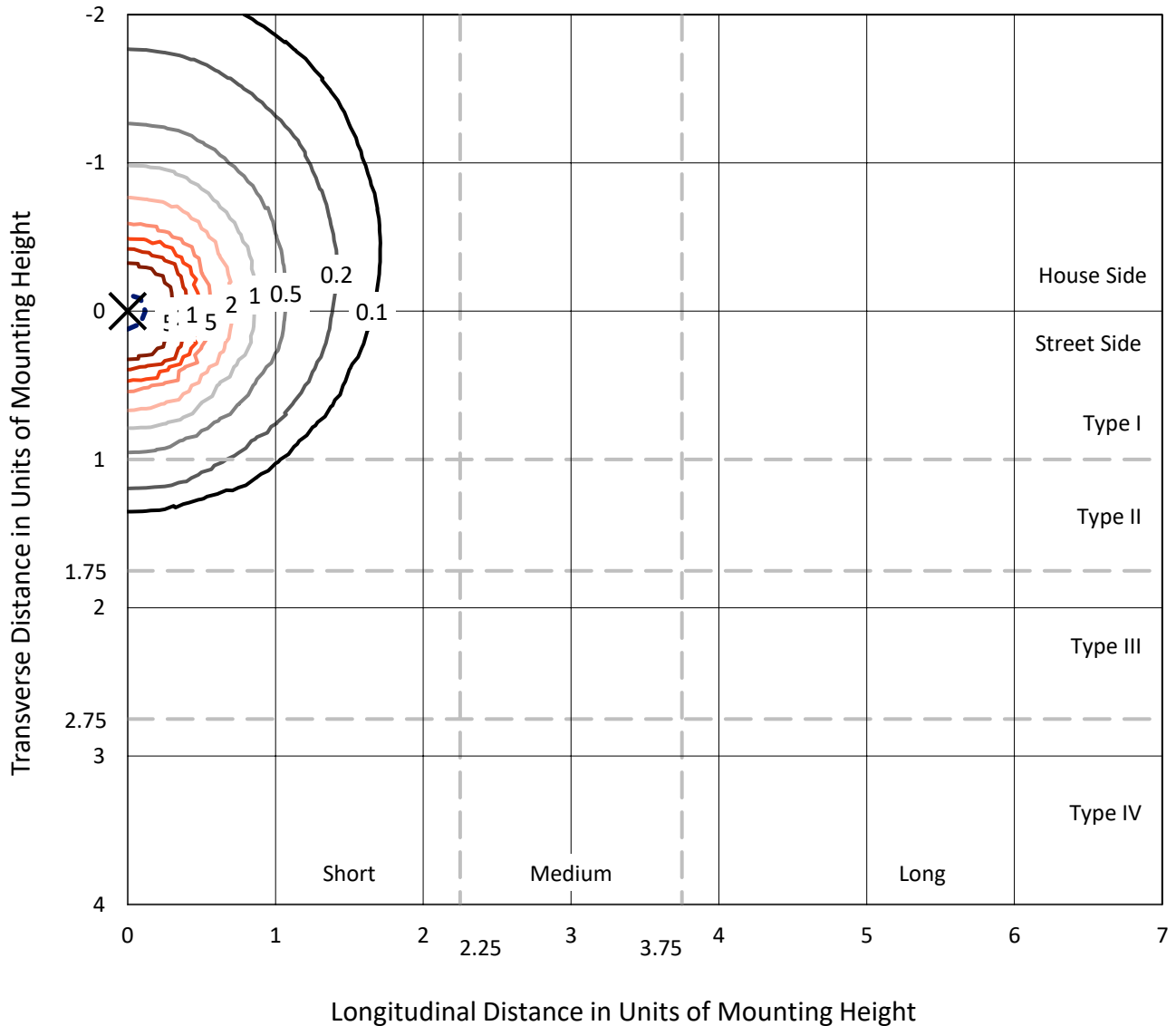
Input Watts (W): 217.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

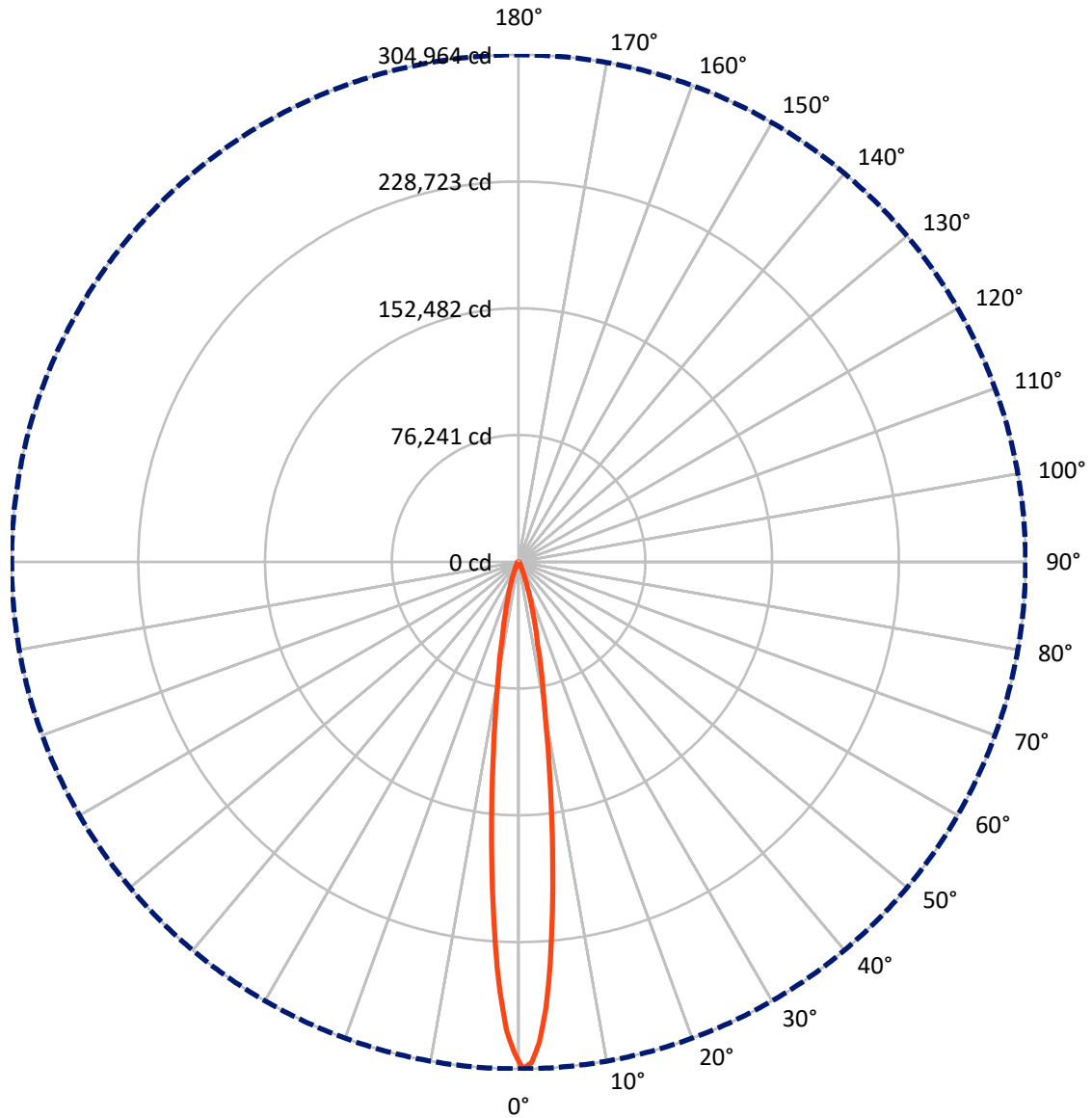
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 762.4 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	15724.7	0.0	15724.7
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	14976.7	0.0	14976.7
	% Fixture	48.8	0.0	48.8
Total	Lumens	30701.3	0.0	30701.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	15499.0	50.5
10°-20°	9922.4	32.3
20°-30°	2982.5	9.7
30°-40°	971.1	3.2
40°-50°	565.0	1.8
50°-60°	375.3	1.2
60°-70°	225.9	0.7
70°-80°	116.1	0.4
80°-90°	44.1	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°	30701.3	100.0
0°-180°	30701.3	100.0

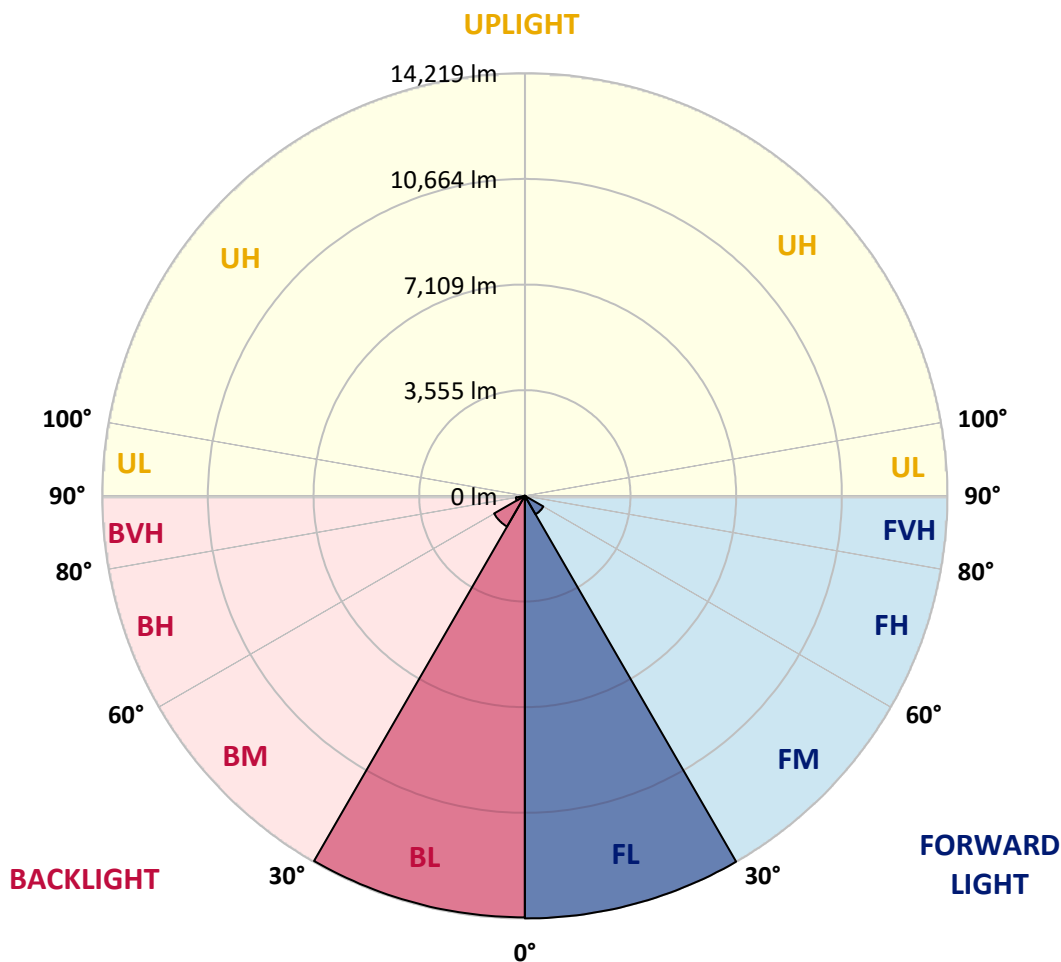


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	14218.7	46.3			
FM (30°-60°)	717.5	2.3			
FH (60°-80°)	33.8	0.1			G0/660
FVH (80°-90°)	6.7	0.0			G0/10
BL (0°-30°)	14185.0	46.2	B5		
BM (30°-60°)	1193.9	3.9	B2/2500		
BH (60°-80°)	308.3	1.0	B1/500		G0/660
BVH (80°-90°)	37.5	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°	304963.9	304963.9	304963.9	304963.9	304963.9	304963.9	304963.9	304963.9	304963.9	304963.9
1°	301312.4	300392.9	298018.7	299707.4	301192.0	300760.7	300730.6	300570.1	300346.0	302104.9
2°	289267.8	288672.6	285161.5	286609.4	288719.4	287181.2	288144.3	287298.3	287315.0	289414.9
3°	268963.9	269288.2	263687.2	266318.9	269251.4	265523.0	266680.0	268853.5	266576.3	265890.8
4°	242574.1	239758.5	236698.9	239374.0	240133.0	237962.9	240096.3	242758.0	239594.7	239735.1
5°	212445.8	210366.0	206744.5	208396.4	206513.8	207199.3	210396.0	211492.8	209285.9	206507.1
6°	181468.3	179990.3	175462.7	177843.5	177174.7	176786.9	180822.9	177479.0	178682.8	177000.9
7°	150945.5	148183.4	145959.8	148240.3	148387.4	147220.4	152460.2	151851.6	149661.4	149153.1
8°	125060.6	122305.2	120422.6	122121.3	123231.5	121399.1	123863.5	125481.9	123769.9	123923.7
9°	100867.7	100382.9	97764.6	99984.9	101192.1	99229.2	101957.8	102543.0	100941.3	101720.4
10°	82820.9	82255.8	80165.8	81065.3	83065.0	80724.3	83342.5	83533.1	82255.8	82620.2
12.5°	51181.2	50953.8	50897.0	51027.4	51000.6	51415.3	52084.1	51321.7	51221.3	49960.7
15°	33080.9	33418.6	33070.8	33739.6	33836.6	34227.8	33819.9	33204.6	32030.9	31449.1
17.5°	20645.0	21076.4	21671.6	22651.3	23631.1	23744.8	23203.1	22480.8	21912.4	21290.4
20°	11877.4	12088.1	11997.8	13171.5	15706.1	16395.0	15696.1	14937.0	14251.6	13622.9
22.5°	7379.9	7303.0	7443.4	7838.0	8664.0	10794.0	10222.2	9463.1	8964.9	8446.6
25°	4524.3	4607.8	4554.3	4771.7	5142.9	6045.7	6176.1	5848.4	5594.3	5326.8
27.5°	2912.5	2912.5	2935.9	3056.3	3310.4	3280.3	3975.9	3721.7	3584.6	3454.2
30°	2023.0	2029.7	2029.7	2099.9	2156.8	2056.5	2237.0	2564.7	2501.2	2400.9
32.5°	1501.4	1521.5	1538.2	1575.0	1528.1	1421.1	1464.6	1845.8	1809.0	1772.2
35°	1143.6	1160.3	1200.4	1220.5	1153.6	1086.8	1046.6	1357.6	1374.3	1364.3
37.5°	832.6	842.7	916.2	993.1	916.2	856.0	832.6	1043.3	1123.5	1113.5
40°	638.7	642.0	655.4	742.3	742.3	695.5	702.2	779.1	919.6	919.6
42.5°	548.4	548.4	561.8	548.4	551.7	601.9	618.6	628.6	779.1	779.1
45°	474.8	474.8	481.5	448.1	414.6	518.3	531.7	535.0	655.4	672.1
47.5°	397.9	397.9	411.3	367.8	351.1	411.3	448.1	458.1	565.1	578.5
50°	294.3	297.6	337.7	300.9	311.0	317.7	387.9	394.6	478.2	508.3
52.5°	197.3	197.3	204.0	234.1	270.9	260.8	314.3	337.7	381.2	421.3
55°	160.5	160.5	157.2	150.5	200.6	217.4	230.7	280.9	311.0	361.1
57.5°	110.3	117.0	107.0	123.7	130.4	163.8	173.9	220.7	237.4	304.3
60°	13.4	16.7	23.4	90.3	86.9	110.3	130.4	173.9	193.9	234.1
62.5°	3.3	3.3	6.7	16.7	60.2	73.6	103.7	120.4	140.4	180.6
65°	0.0	0.0	3.3	6.7	13.4	40.1	53.5	70.2	100.3	127.1
67.5°	0.0	0.0	3.3	6.7	6.7	16.7	26.8	43.5	53.5	93.6
70°	0.0	0.0	3.3	6.7	6.7	13.4	16.7	20.1	36.8	50.2
72.5°	0.0	0.0	3.3	6.7	10.0	13.4	16.7	16.7	16.7	33.4
75°	0.0	0.0	3.3	6.7	10.0	13.4	16.7	16.7	13.4	13.4
77.5°	0.0	0.0	3.3	6.7	13.4	16.7	20.1	16.7	10.0	10.0
80°	0.0	0.0	3.3	10.0	16.7	23.4	26.8	20.1	10.0	6.7
82.5°	0.0	0.0	6.7	13.4	20.1	26.8	36.8	30.1	13.4	6.7
85°	0.0	0.0	3.3	10.0	20.1	26.8	53.5	36.8	16.7	3.3
87.5°	0.0	0.0	0.0	3.3	3.3	6.7	20.1	13.4	6.7	3.3
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°
304963.9	0°	304963.9	304963.9	304963.9	304963.9	304963.9	304963.9	304963.9	304963.9
300075.2	1°	302171.8	302382.5	301693.6	302760.3	302385.8	300192.2	299466.6	298607.2
288181.1	2°	287298.3	288371.7	288425.2	289608.9	289592.2	287034.1	286241.6	287702.9
267281.9	3°	266472.7	267723.3	266596.4	268699.7	268067.7	264964.6	264158.7	265817.3
240845.3	4°	240126.4	239888.9	239501.1	238304.0	239778.6	237661.9	236066.9	238317.3
210192.1	5°	209770.7	209242.4	208486.7	208132.3	209229.0	207874.8	204594.4	207881.5
180043.8	6°	180264.5	177990.6	177880.3	177683.0	177793.4	174001.4	174228.8	176676.5
147404.3	7°	148962.5	149380.5	148527.8	149895.5	148852.2	146284.1	145294.3	147872.4
124599.1	8°	123729.7	123201.4	122549.3	124592.4	122783.4	121098.1	119944.5	121980.9
101847.5	9°	101656.9	100744.0	100081.9	99978.2	100259.1	97095.8	97737.9	99279.4
82820.9	10°	82851.0	81352.9	81717.4	81814.4	81506.7	79433.5	79453.6	79985.3
50796.7	12.5°	50616.1	49880.4	50064.4	50164.7	50790.0	50061.0	49031.1	48288.8
32027.5	15°	31813.5	31285.2	32365.3	33090.9	32943.8	32295.1	31810.2	31138.1
21290.4	17.5°	21093.1	21785.3	21788.6	22450.7	22517.6	21868.9	21494.4	20889.1
13846.9	20°	13796.8	14084.4	14682.9	15151.1	15421.9	14927.0	14478.9	14064.3
8633.9	22.5°	8633.9	9135.4	9510.0	10118.5	10366.0	10004.8	9687.2	9349.4
5390.3	25°	5300.0	5657.8	5968.8	6497.1	6834.9	6661.0	6370.1	6132.7
3481.0	27.5°	3534.5	3684.9	3838.8	4203.2	4554.3	4457.4	4340.3	4196.6
2454.4	30°	2491.2	2504.6	2668.4	2872.4	3106.5	3166.6	3113.1	3039.6
1802.3	32.5°	1835.8	1889.3	1966.2	2093.3	2250.4	2394.2	2367.5	2334.0
1377.7	35°	1417.8	1498.1	1561.6	1658.6	1742.2	1879.3	1902.7	1892.6
1133.6	37.5°	1157.0	1227.2	1290.7	1347.6	1417.8	1511.4	1585.0	1588.3
936.3	40°	959.7	1023.2	1106.8	1150.3	1200.4	1270.7	1361.0	1367.6
792.5	42.5°	809.2	869.4	953.0	1006.5	1043.3	1110.2	1200.4	1213.8
678.8	45°	695.5	732.3	819.2	882.8	919.6	963.0	1060.0	1073.4
585.2	47.5°	605.2	642.0	695.5	785.8	819.2	859.4	936.3	959.7
518.3	50°	531.7	568.5	615.3	695.5	745.7	779.1	842.7	876.1
451.4	52.5°	471.5	508.3	558.4	622.0	678.8	708.9	769.1	812.6
367.8	55°	394.6	458.1	494.9	551.7	628.6	655.4	702.2	759.1
321.0	57.5°	344.4	397.9	451.4	498.2	575.1	608.6	655.4	708.9
254.1	60°	290.9	341.1	404.6	444.7	518.3	561.8	611.9	662.1
193.9	62.5°	230.7	297.6	341.1	397.9	468.1	525.0	565.1	615.3
150.5	65°	170.5	244.1	294.3	354.4	421.3	481.5	515.0	568.5
107.0	67.5°	123.7	190.6	250.8	307.6	371.2	431.4	464.8	511.6
66.9	70°	97.0	140.4	207.3	257.5	324.4	374.5	411.3	441.4
43.5	72.5°	56.8	107.0	167.2	224.0	284.2	317.7	344.4	371.2
20.1	75°	36.8	83.6	137.1	187.3	230.7	260.8	284.2	307.6
10.0	77.5°	23.4	60.2	110.3	157.2	177.2	214.0	234.1	247.4
6.7	80°	13.4	46.8	97.0	127.1	143.8	167.2	187.3	204.0
6.7	82.5°	10.0	40.1	80.3	107.0	107.0	133.8	143.8	143.8
3.3	85°	6.7	33.4	63.5	100.3	80.3	100.3	93.6	93.6
3.3	87.5°	6.7	23.4	30.1	43.5	36.8	43.5	43.5	50.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
304963.9
295203.2
281513.4
258450.7
230171.7
199220.8
169580.8
140860.4
116165.9
94464.2
76367.2
47837.3
30793.7
20738.7
13920.5
9168.9
5995.6
4113.0
2989.4
2307.3
1859.2
1564.9
1357.6
1203.8
1070.0
963.0
879.4
812.6
762.4
712.2
675.5
638.7
578.5
515.0
451.4
377.9
307.6
240.8
183.9
133.8
90.3
50.2
0.0

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