

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: P637229

Luminaire Tested: **IFLD-L-SA8D-827-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637229
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-827-U-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (128) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40754 lumens
Efficiency: N/A
Efficacy: 83.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

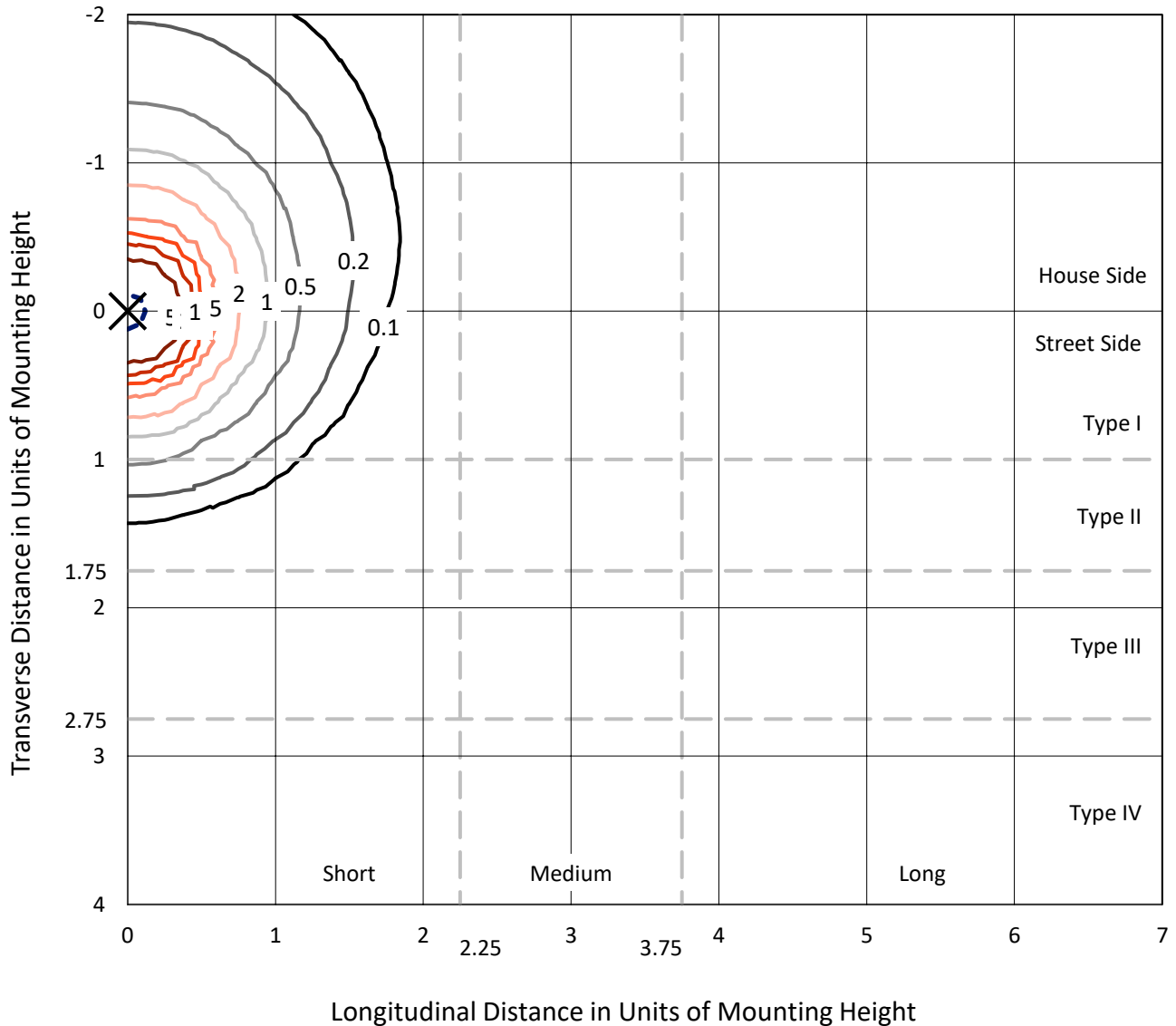
Input Watts (W): 488.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

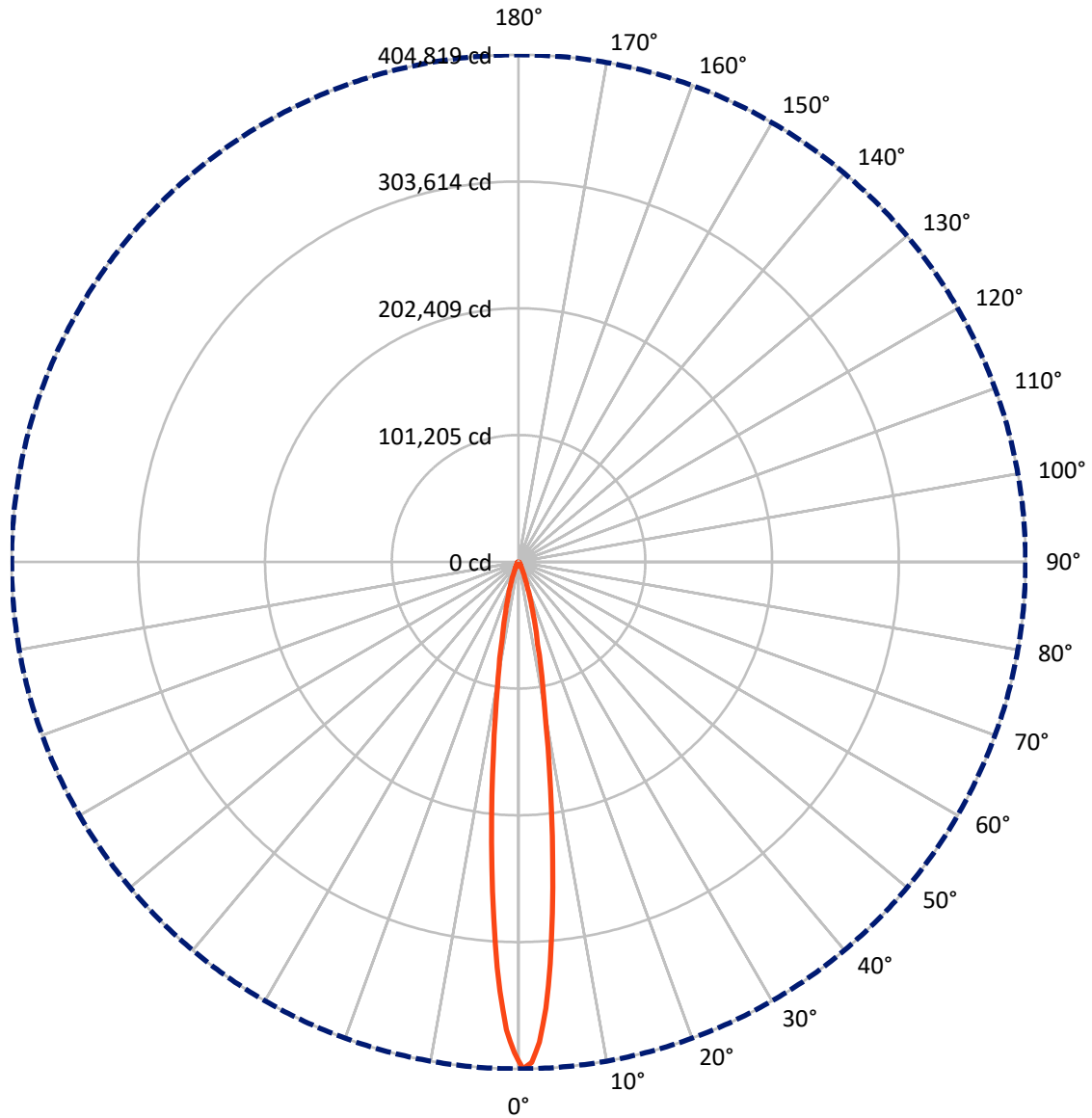
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 1012 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	20873.4	0.0	20873.4
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	19880.5	0.0	19880.5
	% Fixture	48.8	0.0	48.8
Total	Lumens	40754.0	0.0	40754.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	20573.8	50.5
10°-20°	13171.3	32.3
20°-30°	3959.0	9.7
30°-40°	1289.1	3.2
40°-50°	750.0	1.8
50°-60°	498.2	1.2
60°-70°	299.9	0.7
70°-80°	154.1	0.4
80°-90°	58.6	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°	40754.0	100.0
0°-180°	40754.0	100.0



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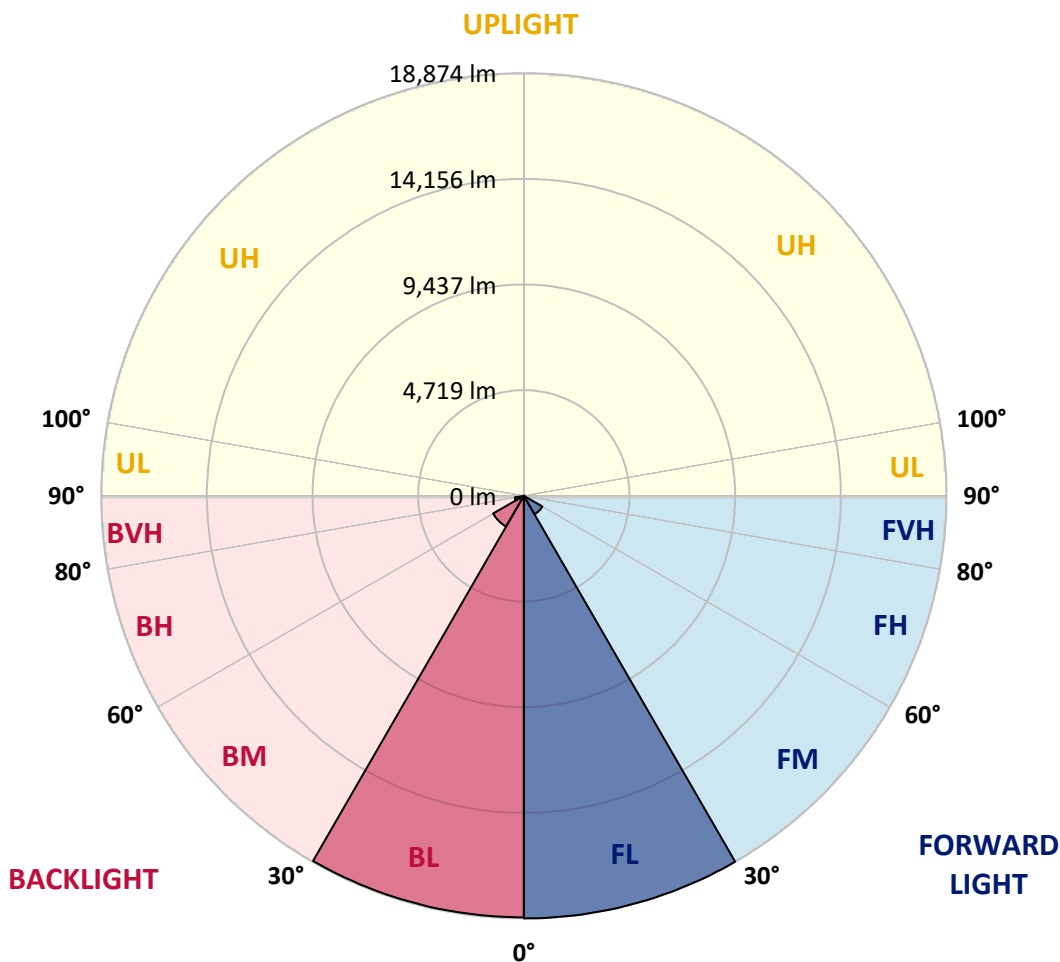
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	18874.4	46.3			
FM (30°-60°)	952.4	2.3			
FH (60°-80°)	44.8	0.1			G0/660
FVH (80°-90°)	8.8	0.0			G0/10
BL (0°-30°)	18829.7	46.2	B5		
BM (30°-60°)	1584.8	3.9	B2/2500		
BH (60°-80°)	409.2	1.0	B1/500		G0/660
BVH (80°-90°)	49.7	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°	404818.9	404818.9	404818.9	404818.9	404818.9	404818.9	404818.9	404818.9	404818.9	404818.9
1°	399971.8	398751.2	395599.7	397841.2	399812.0	399239.4	399199.5	398986.4	398689.0	401023.8
2°	383983.4	383193.3	378532.6	380454.6	383255.5	381213.6	382492.0	381369.0	381391.2	384178.7
3°	357031.3	357461.9	350026.9	353520.2	357413.0	352463.8	353999.6	356884.8	353862.0	352952.1
4°	322000.6	318263.2	314201.8	317752.8	318760.4	315879.6	318711.5	322244.8	318045.7	318232.1
5°	282007.5	279246.6	274439.4	276632.1	274133.1	275043.0	279286.5	280742.4	277812.8	274124.2
6°	240886.8	238924.9	232914.8	236075.2	235187.5	234672.6	240030.1	235591.4	237189.3	234956.6
7°	200369.9	196703.5	193751.7	196778.9	196974.2	195425.1	202380.6	201572.8	198665.4	197990.7
8°	166009.5	162351.9	159852.9	162107.8	163581.5	161149.0	164420.4	166568.7	164296.1	164500.3
9°	133895.1	133251.4	129775.9	132723.2	134325.6	131720.1	135342.1	136118.9	133992.7	135026.9
10°	109939.1	109188.9	106414.7	107608.8	110263.1	107156.0	110631.5	110884.6	109188.9	109672.8
12.5°	67939.6	67637.8	67562.3	67735.4	67699.9	68250.3	69138.1	68126.0	67992.9	66319.4
15°	43912.6	44360.9	43899.3	44787.0	44915.8	45435.1	44893.6	44076.8	42518.8	41746.5
17.5°	27404.9	27977.5	28767.6	30068.1	31368.7	31519.6	30800.5	29841.8	29087.2	28261.6
20°	15766.5	16046.1	15926.3	17484.3	20848.8	21763.2	20835.5	19827.9	18918.0	18083.5
22.5°	9796.3	9694.2	9880.7	10404.4	11500.8	14328.3	13569.3	12561.7	11900.3	11212.3
25°	6005.6	6116.6	6045.6	6334.1	6826.8	8025.3	8198.4	7763.4	7426.0	7070.9
27.5°	3866.2	3866.2	3897.2	4057.0	4394.4	4354.4	5277.7	4940.3	4758.3	4585.2
30°	2685.4	2694.3	2694.3	2787.5	2863.0	2729.8	2969.5	3404.5	3320.2	3187.0
32.5°	1993.0	2019.6	2041.8	2090.7	2028.5	1886.5	1944.2	2450.2	2401.4	2352.5
35°	1518.1	1540.2	1593.5	1620.1	1531.4	1442.6	1389.3	1802.1	1824.3	1811.0
37.5°	1105.3	1118.6	1216.2	1318.3	1216.2	1136.3	1105.3	1384.9	1491.4	1478.1
40°	847.8	852.2	870.0	985.4	985.4	923.3	932.1	1034.2	1220.7	1220.7
42.5°	728.0	728.0	745.7	728.0	732.4	799.0	821.2	834.5	1034.2	1034.2
45°	630.3	630.3	639.2	594.8	550.4	688.0	705.8	710.2	870.0	892.2
47.5°	528.2	528.2	546.0	488.3	466.1	546.0	594.8	608.1	750.1	767.9
50°	390.6	395.0	448.3	399.5	412.8	421.7	514.9	523.8	634.7	674.7
52.5°	261.9	261.9	270.8	310.7	359.5	346.2	417.2	448.3	506.0	559.3
55°	213.1	213.1	208.6	199.7	266.3	288.5	306.3	372.9	412.8	479.4
57.5°	146.5	155.4	142.0	164.2	173.1	217.5	230.8	293.0	315.2	403.9
60°	17.8	22.2	31.1	119.8	115.4	146.5	173.1	230.8	257.4	310.7
62.5°	4.4	4.4	8.9	22.2	79.9	97.7	137.6	159.8	186.4	239.7
65°	0.0	0.0	4.4	8.9	17.8	53.3	71.0	93.2	133.2	168.7
67.5°	0.0	0.0	4.4	8.9	8.9	22.2	35.5	57.7	71.0	124.3
70°	0.0	0.0	4.4	8.9	8.9	17.8	22.2	26.6	48.8	66.6
72.5°	0.0	0.0	4.4	8.9	13.3	17.8	22.2	22.2	22.2	44.4
75°	0.0	0.0	4.4	8.9	13.3	17.8	22.2	22.2	17.8	17.8
77.5°	0.0	0.0	4.4	8.9	17.8	22.2	26.6	22.2	13.3	13.3
80°	0.0	0.0	4.4	13.3	22.2	31.1	35.5	26.6	13.3	8.9
82.5°	0.0	0.0	8.9	17.8	26.6	35.5	48.8	39.9	17.8	8.9
85°	0.0	0.0	4.4	13.3	26.6	35.5	71.0	48.8	22.2	4.4
87.5°	0.0	0.0	0.0	4.4	4.4	8.9	26.6	17.8	8.9	4.4
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°
404818.9	0°	404818.9	404818.9	404818.9	404818.9	404818.9	404818.9	404818.9	404818.9
398329.5	1°	401112.6	401392.2	400477.8	401893.8	401396.7	398484.8	397521.6	396380.9
382540.8	2°	381369.0	382793.8	382864.9	384436.2	384414.0	381018.3	379966.4	381906.1
354798.6	3°	353724.4	355384.5	353888.7	356680.6	355841.7	351722.6	350652.8	352854.4
319705.8	4°	318751.5	318436.3	317921.4	316332.4	318289.8	315480.1	313362.8	316350.1
279015.7	5°	278456.5	277755.1	276752.0	276281.5	277737.4	275939.7	271585.3	275948.6
238995.9	6°	239288.9	236270.5	236124.0	235862.2	236008.6	230975.1	231276.9	234526.1
195669.2	7°	197737.7	198292.5	197160.6	198976.1	197591.2	194182.2	192868.4	196290.6
165396.9	8°	164242.8	163541.5	162676.0	165388.0	162986.7	160749.5	159218.2	161921.4
135195.6	9°	134942.6	133730.8	132852.0	132714.4	133087.2	128888.1	129740.4	131786.7
109939.1	10°	109979.0	107990.5	108474.3	108603.0	108194.7	105442.6	105469.3	106175.0
67429.1	12.5°	67189.4	66212.9	66457.0	66590.2	67420.3	66452.6	65085.5	64100.1
42514.4	15°	42230.3	41529.0	42962.7	43925.9	43730.6	42869.5	42225.9	41333.7
28261.6	17.5°	27999.7	28918.5	28922.9	29801.8	29890.6	29029.5	28532.3	27728.9
18380.9	20°	18314.3	18696.0	19490.6	20112.0	20471.5	19814.6	19219.8	18669.4
11460.9	22.5°	11460.9	12126.7	12623.8	13431.7	13760.1	13280.8	12859.1	12410.8
7155.3	25°	7035.4	7510.4	7923.2	8624.5	9072.8	8842.0	8455.8	8140.7
4620.7	27.5°	4691.8	4891.5	5095.7	5579.5	6045.6	5916.9	5761.5	5570.6
3258.0	30°	3306.9	3324.6	3542.1	3812.9	4123.6	4203.5	4132.5	4034.8
2392.5	32.5°	2436.9	2507.9	2610.0	2778.7	2987.3	3178.1	3142.6	3098.3
1828.8	35°	1882.0	1988.6	2072.9	2201.6	2312.6	2494.6	2525.7	2512.3
1504.7	37.5°	1535.8	1629.0	1713.4	1788.8	1882.0	2006.3	2104.0	2108.4
1242.9	40°	1273.9	1358.3	1469.2	1526.9	1593.5	1686.7	1806.6	1815.5
1052.0	42.5°	1074.2	1154.1	1265.0	1336.1	1384.9	1473.7	1593.5	1611.3
901.1	45°	923.3	972.1	1087.5	1171.8	1220.7	1278.4	1407.1	1424.8
776.8	47.5°	803.4	852.2	923.3	1043.1	1087.5	1140.8	1242.9	1273.9
688.0	50°	705.8	754.6	816.7	923.3	989.8	1034.2	1118.6	1163.0
599.2	52.5°	625.9	674.7	741.3	825.6	901.1	941.0	1020.9	1078.6
488.3	55°	523.8	608.1	656.9	732.4	834.5	870.0	932.1	1007.6
426.1	57.5°	457.2	528.2	599.2	661.4	763.5	807.9	870.0	941.0
337.3	60°	386.2	452.8	537.1	590.4	688.0	745.7	812.3	878.9
257.4	62.5°	306.3	395.0	452.8	528.2	621.4	696.9	750.1	816.7
199.7	65°	226.4	324.0	390.6	470.5	559.3	639.2	683.6	754.6
142.0	67.5°	164.2	253.0	332.9	408.4	492.7	572.6	617.0	679.1
88.8	70°	128.7	186.4	275.2	341.8	430.6	497.1	546.0	585.9
57.7	72.5°	75.5	142.0	221.9	297.4	377.3	421.7	457.2	492.7
26.6	75°	48.8	111.0	182.0	248.6	306.3	346.2	377.3	408.4
13.3	77.5°	31.1	79.9	146.5	208.6	235.3	284.1	310.7	328.5
8.9	80°	17.8	62.1	128.7	168.7	190.9	221.9	248.6	270.8
8.9	82.5°	13.3	53.3	106.5	142.0	142.0	177.6	190.9	190.9
4.4	85°	8.9	44.4	84.3	133.2	106.5	133.2	124.3	124.3
4.4	87.5°	8.9	31.1	39.9	57.7	48.8	57.7	57.7	66.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
404818.9
391862.2
373690.0
343075.9
305537.3
264452.2
225107.0
186982.6
154202.4
125394.8
101372.3
63500.8
40876.5
27529.2
18478.5
12171.1
7958.7
5459.7
3968.2
3062.7
2467.9
2077.3
1802.1
1598.0
1420.4
1278.4
1167.4
1078.6
1012.0
945.5
896.6
847.8
767.9
683.6
599.2
501.6
408.4
319.6
244.1
177.6
119.8
66.6
0.0

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