

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: P637054

Luminaire Tested: **IFLD-L-SA8C-727-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637054
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-727-U-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (128) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42136.5 lumens
Efficiency: N/A
Efficacy: 100.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

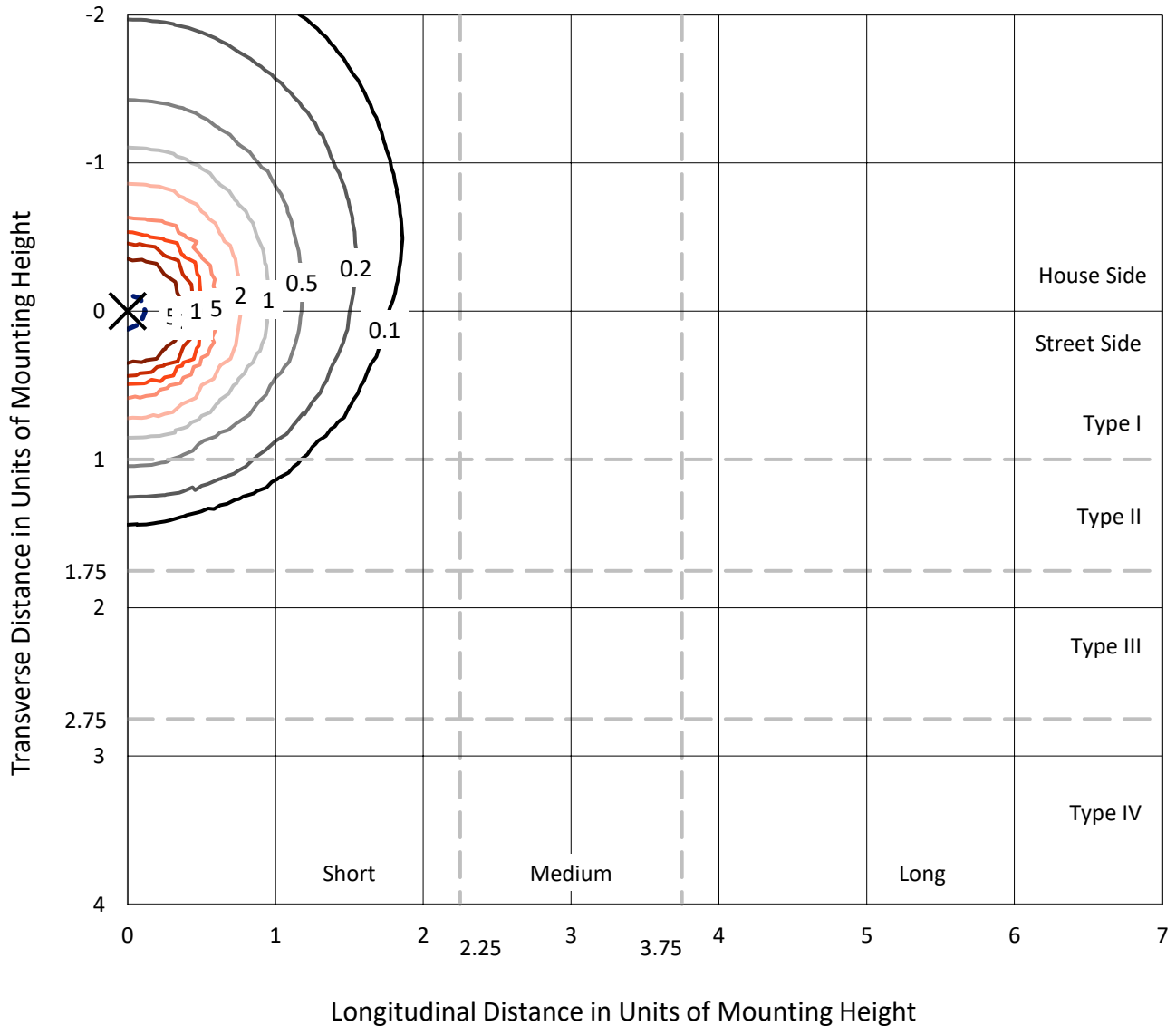
Input Watts (W): 420.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P637054
 CATALOG NUMBER: IFLD-L-SA8C-727-U-33-VI

Iso-Footcandle Lines of Horizontal Illumination

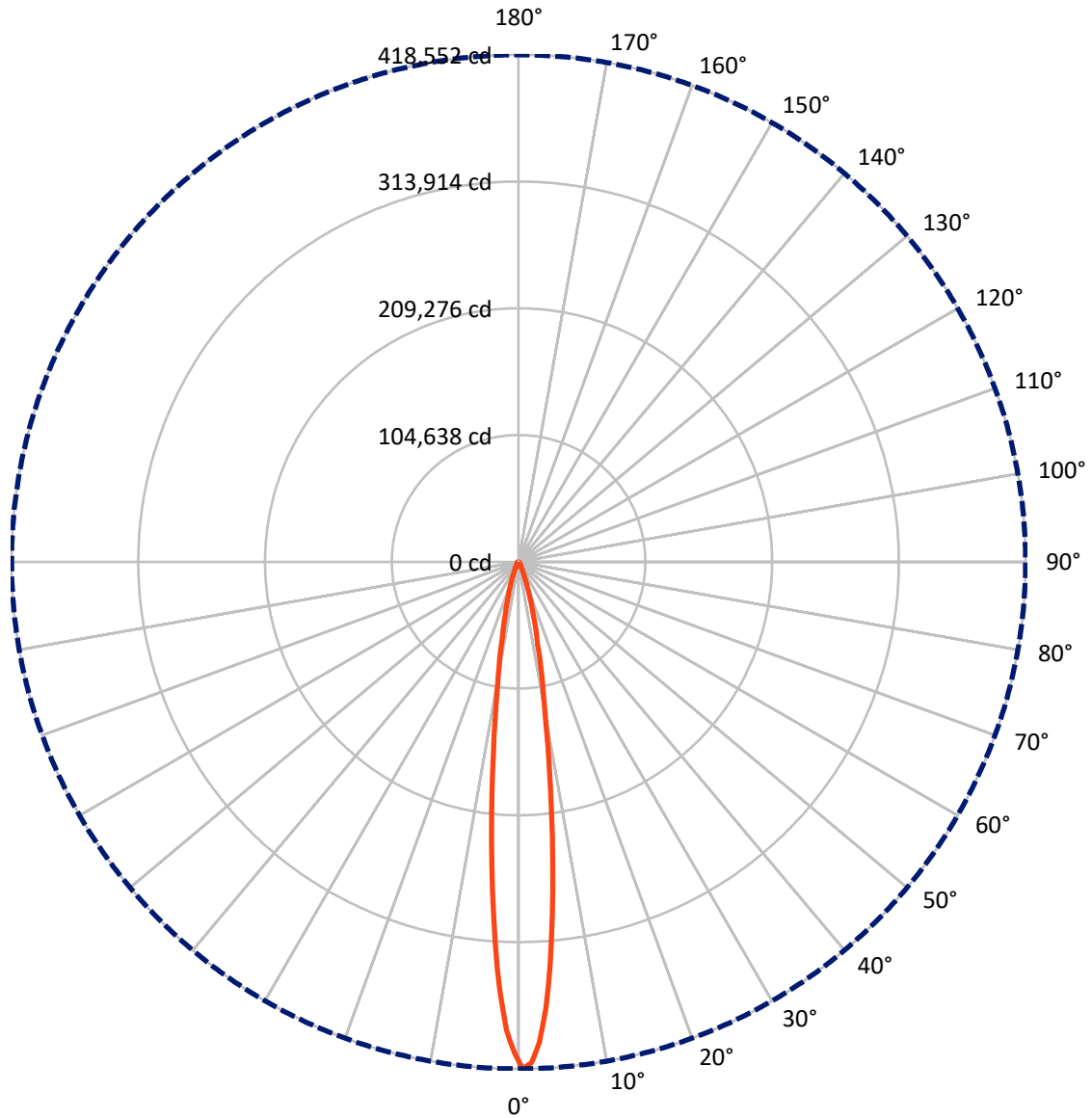
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 1046.4 fc
 Type V - Short - N/A

REPORT NUMBER: P637054
CATALOG NUMBER: IFLD-L-SA8C-727-U-33-VI

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	21581.5	0.0	21581.5
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	20554.9	0.0	20554.9
	% Fixture	48.8	0.0	48.8
Total	Lumens	42136.5	0.0	42136.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21271.8	50.5
10°-20°	13618.1	32.3
20°-30°	4093.3	9.7
30°-40°	1332.8	3.2
40°-50°	775.5	1.8
50°-60°	515.1	1.2
60°-70°	310.0	0.7
70°-80°	159.4	0.4
80°-90°	60.5	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°	42136.5	100.0
0°-180°	42136.5	100.0

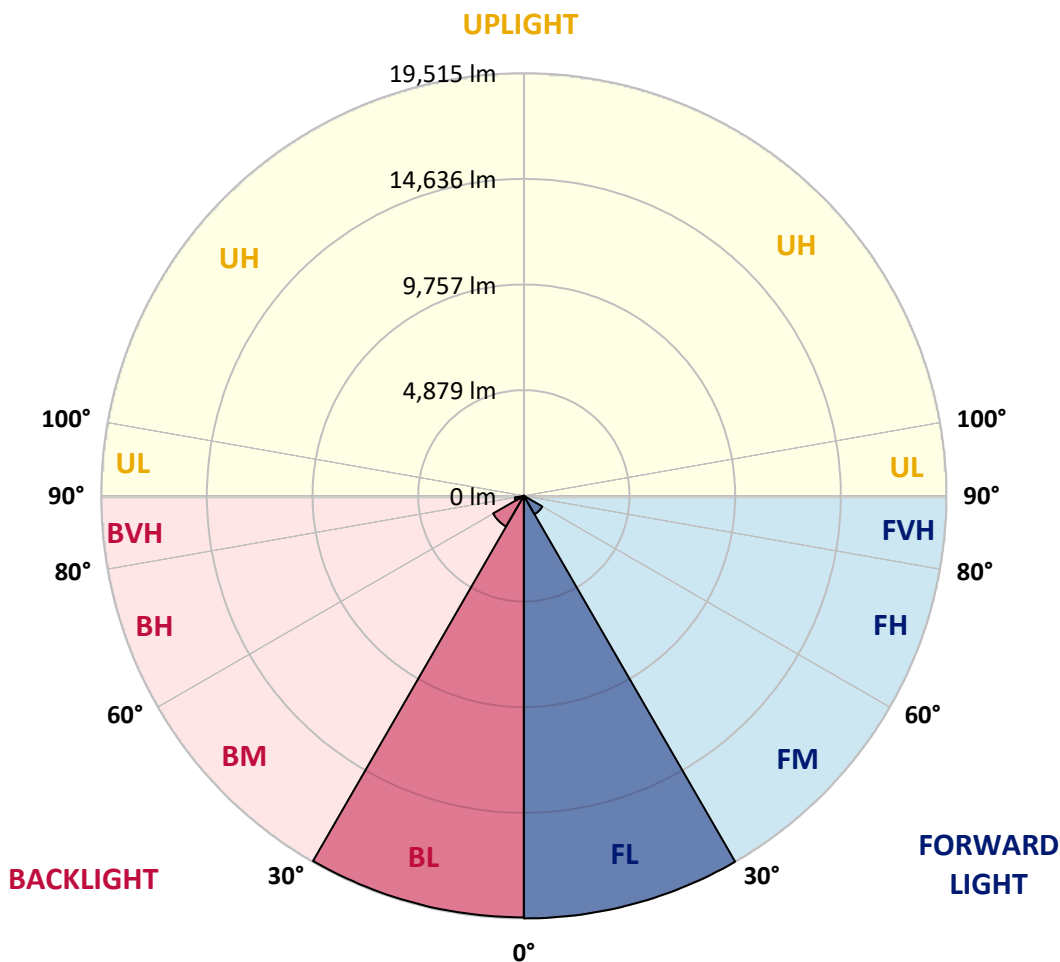


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	19514.7	46.3			
FM (30°-60°)	984.8	2.3			
FH (60°-80°)	46.4	0.1			G0/660
FVH (80°-90°)	9.1	0.0			G0/10
BL (0°-30°)	19468.5	46.2	B5		
BM (30°-60°)	1638.6	3.9	B2/2500		
BH (60°-80°)	423.1	1.0	B1/500		G0/660
BVH (80°-90°)	51.4	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°	418551.8	418551.8	418551.8	418551.8	418551.8	418551.8	418551.8	418551.8	418551.8	418551.8
1°	413540.2	412278.2	409019.7	411337.4	413375.0	412783.0	412741.7	412521.4	412213.9	414627.9
2°	397009.5	396192.6	391373.8	393360.9	396256.8	394145.7	395467.4	394306.3	394329.3	397211.4
3°	369143.0	369588.2	361901.1	365512.9	369537.7	364420.6	366008.5	368991.6	365866.2	364925.4
4°	332924.0	329059.8	324860.5	328532.0	329573.8	326595.3	329523.3	333176.4	328834.9	329027.7
5°	291574.1	288719.5	283749.3	286016.4	283432.6	284373.4	288760.9	290266.2	287237.2	283423.5
6°	249058.5	247030.0	240816.1	244083.7	243165.8	242633.5	248172.8	243583.5	245235.6	242927.2
7°	207167.1	203376.3	200324.4	203454.3	203656.3	202054.6	209246.1	208410.8	205404.8	204707.2
8°	171641.1	167859.5	165275.7	167607.0	169130.7	166615.7	169998.1	172219.3	169869.6	170080.7
9°	138437.2	137771.8	134178.3	137225.7	138882.4	136188.5	139933.4	140736.5	138538.2	139607.5
10°	113668.6	112893.0	110024.7	111259.2	114003.6	110791.1	114384.5	114646.1	112893.0	113393.2
12.5°	70244.3	69932.3	69854.2	70033.2	69996.5	70565.6	71483.5	70437.1	70299.4	68569.2
15°	45402.3	45865.8	45388.5	46306.4	46439.5	46976.4	46416.5	45572.1	43961.2	43162.7
17.5°	28334.5	28926.6	29743.5	31088.1	32432.8	32588.9	31845.4	30854.1	30073.9	29220.3
20°	16301.3	16590.4	16466.5	18077.4	21556.1	22501.5	21542.3	20500.6	19559.7	18696.9
22.5°	10128.7	10023.1	10215.9	10757.4	11891.0	14814.4	14029.6	12987.8	12304.0	11592.7
25°	6209.4	6324.1	6250.7	6549.0	7058.4	8297.5	8476.5	8026.7	7678.0	7310.8
27.5°	3997.3	3997.3	4029.4	4194.7	4543.4	4502.1	5456.7	5107.9	4919.8	4740.8
30°	2776.5	2785.7	2785.7	2882.1	2960.1	2822.4	3070.3	3520.0	3432.8	3295.1
32.5°	2060.6	2088.1	2111.1	2161.6	2097.3	1950.5	2010.1	2533.3	2482.8	2432.3
35°	1569.6	1592.5	1647.6	1675.1	1583.3	1491.5	1436.5	1863.3	1886.2	1872.4
37.5°	1142.7	1156.5	1257.5	1363.0	1257.5	1174.9	1142.7	1431.9	1542.0	1528.2
40°	876.6	881.2	899.5	1018.8	1018.8	954.6	963.8	1069.3	1262.1	1262.1
42.5°	752.7	752.7	771.0	752.7	757.2	826.1	849.0	862.8	1069.3	1069.3
45°	651.7	651.7	660.9	615.0	569.1	711.3	729.7	734.3	899.5	922.5
47.5°	546.1	546.1	564.5	504.8	481.9	564.5	615.0	628.7	775.6	794.0
50°	403.9	408.5	463.5	413.0	426.8	436.0	532.4	541.5	656.3	697.6
52.5°	270.8	270.8	279.9	321.3	371.7	358.0	431.4	463.5	523.2	578.3
55°	220.3	220.3	215.7	206.5	275.4	298.3	316.7	385.5	426.8	495.6
57.5°	151.4	160.6	146.9	169.8	179.0	224.9	238.6	302.9	325.8	417.6
60°	18.4	22.9	32.1	123.9	119.3	151.4	179.0	238.6	266.2	321.3
62.5°	4.6	4.6	9.2	22.9	82.6	101.0	142.3	165.2	192.8	247.8
65°	0.0	0.0	4.6	9.2	18.4	55.1	73.4	96.4	137.7	174.4
67.5°	0.0	0.0	4.6	9.2	9.2	22.9	36.7	59.7	73.4	128.5
70°	0.0	0.0	4.6	9.2	9.2	18.4	22.9	27.5	50.5	68.8
72.5°	0.0	0.0	4.6	9.2	13.8	18.4	22.9	22.9	22.9	45.9
75°	0.0	0.0	4.6	9.2	13.8	18.4	22.9	22.9	18.4	18.4
77.5°	0.0	0.0	4.6	9.2	18.4	22.9	27.5	22.9	13.8	13.8
80°	0.0	0.0	4.6	13.8	22.9	32.1	36.7	27.5	13.8	9.2
82.5°	0.0	0.0	9.2	18.4	27.5	36.7	50.5	41.3	18.4	9.2
85°	0.0	0.0	4.6	13.8	27.5	36.7	73.4	50.5	22.9	4.6
87.5°	0.0	0.0	0.0	4.6	4.6	9.2	27.5	18.4	9.2	4.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P637054

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CANDELA DISTRIBUTION (continued):

90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
418551.8	0°	418551.8	418551.8	418551.8	418551.8	418551.8	418551.8	418551.8	418551.8
411842.2	1°	414719.7	415008.8	414063.4	415527.4	415013.4	412002.8	411006.9	409827.5
395517.9	2°	394306.3	395779.5	395852.9	397477.6	397454.6	393943.8	392856.1	394861.6
366834.6	3°	365724.0	367440.4	365893.8	368780.5	367913.1	363654.2	362548.2	364824.5
330551.3	4°	329564.6	329238.8	328706.4	327063.4	329087.3	326182.3	323993.2	327081.8
288480.9	5°	287902.6	287177.5	286140.3	285653.9	287159.2	285300.5	280798.4	285309.7
247103.5	6°	247406.4	244285.6	244134.2	243863.4	244014.9	238810.5	239122.6	242482.0
202307.0	7°	204445.6	205019.3	203849.0	205726.0	204294.2	200769.6	199411.1	202949.5
171007.7	8°	169814.5	169089.4	168194.5	170998.6	168515.7	166202.7	164619.4	167414.3
139781.9	9°	139520.3	138267.4	137358.7	137216.5	137602.0	133260.5	134141.6	136257.3
113668.6	10°	113709.9	111653.9	112154.1	112287.2	111865.0	109019.6	109047.1	109776.9
69716.6	12.5°	69468.7	68459.1	68711.5	68849.2	69707.4	68706.9	67293.4	66274.6
43956.6	15°	43662.9	42937.8	44420.2	45416.0	45214.1	44323.8	43658.3	42735.9
29220.3	17.5°	28949.5	29899.5	29904.1	30812.8	30904.6	30014.2	29500.2	28669.6
19004.4	20°	18935.6	19330.3	20151.8	20794.3	21166.0	20486.8	19871.8	19302.7
11849.7	22.5°	11849.7	12538.1	13052.1	13887.3	14226.9	13731.3	13295.3	12831.8
7398.0	25°	7274.1	7765.2	8192.0	8917.1	9380.6	9142.0	8742.7	8416.8
4777.5	27.5°	4850.9	5057.4	5268.6	5768.8	6250.7	6117.6	5957.0	5759.6
3368.6	30°	3419.1	3437.4	3662.3	3942.2	4263.5	4346.1	4272.7	4171.7
2473.7	32.5°	2519.5	2593.0	2698.5	2872.9	3088.6	3286.0	3249.2	3203.4
1890.8	35°	1945.9	2056.0	2143.2	2276.3	2391.0	2579.2	2611.3	2597.6
1555.8	37.5°	1587.9	1684.3	1771.5	1849.5	1945.9	2074.4	2175.3	2179.9
1285.0	40°	1317.1	1404.3	1519.1	1578.7	1647.6	1743.9	1867.9	1877.0
1087.7	42.5°	1110.6	1193.2	1308.0	1381.4	1431.9	1523.7	1647.6	1665.9
931.6	45°	954.6	1005.1	1124.4	1211.6	1262.1	1321.7	1454.8	1473.2
803.1	47.5°	830.7	881.2	954.6	1078.5	1124.4	1179.5	1285.0	1317.1
711.3	50°	729.7	780.2	844.4	954.6	1023.4	1069.3	1156.5	1202.4
619.6	52.5°	647.1	697.6	766.4	853.6	931.6	972.9	1055.5	1115.2
504.8	55°	541.5	628.7	679.2	757.2	862.8	899.5	963.8	1041.8
440.6	57.5°	472.7	546.1	619.6	683.8	789.4	835.3	899.5	972.9
348.8	60°	399.3	468.1	555.3	610.4	711.3	771.0	839.8	908.7
266.2	62.5°	316.7	408.5	468.1	546.1	642.5	720.5	775.6	844.4
206.5	65°	234.1	335.0	403.9	486.5	578.3	660.9	706.8	780.2
146.9	67.5°	169.8	261.6	344.2	422.2	509.4	592.0	637.9	702.2
91.8	70°	133.1	192.8	284.5	353.4	445.2	514.0	564.5	605.8
59.7	72.5°	78.0	146.9	229.5	307.5	390.1	436.0	472.7	509.4
27.5	75°	50.5	114.7	188.2	257.0	316.7	358.0	390.1	422.2
13.8	77.5°	32.1	82.6	151.4	215.7	243.2	293.7	321.3	339.6
9.2	80°	18.4	64.3	133.1	174.4	197.3	229.5	257.0	279.9
9.2	82.5°	13.8	55.1	110.1	146.9	146.9	183.6	197.3	197.3
4.6	85°	9.2	45.9	87.2	137.7	110.1	137.7	128.5	128.5
4.6	87.5°	9.2	32.1	41.3	59.7	50.5	59.7	59.7	68.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
418551.8
405155.5
386366.8
354714.2
315902.2
273423.3
232743.4
193325.7
159433.4
129648.7
104811.2
65655.0
42263.2
28463.0
19105.4
12584.0
8228.7
5644.9
4102.9
3166.6
2551.7
2147.8
1863.3
1652.2
1468.6
1321.7
1207.0
1115.2
1046.4
977.5
927.0
876.6
794.0
706.8
619.6
518.6
422.2
330.4
252.4
183.6
123.9
68.8
0.0

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