

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: P637039

Luminaire Tested: **IFLD-S-SA6C-727-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637039
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-727-U-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (96) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34558 lumens
Efficiency: N/A
Efficacy: 107.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

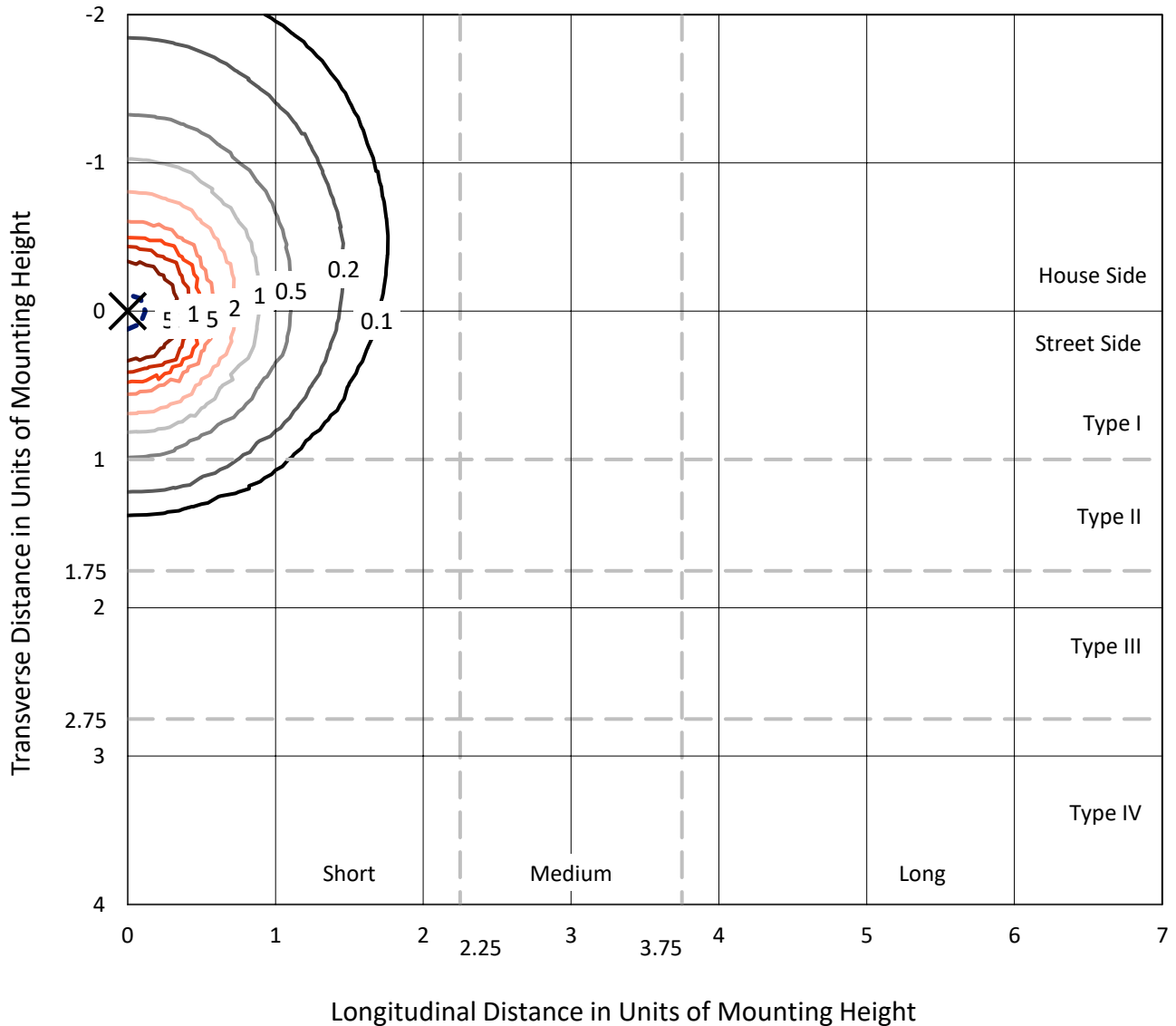
Input Watts (W): 321.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

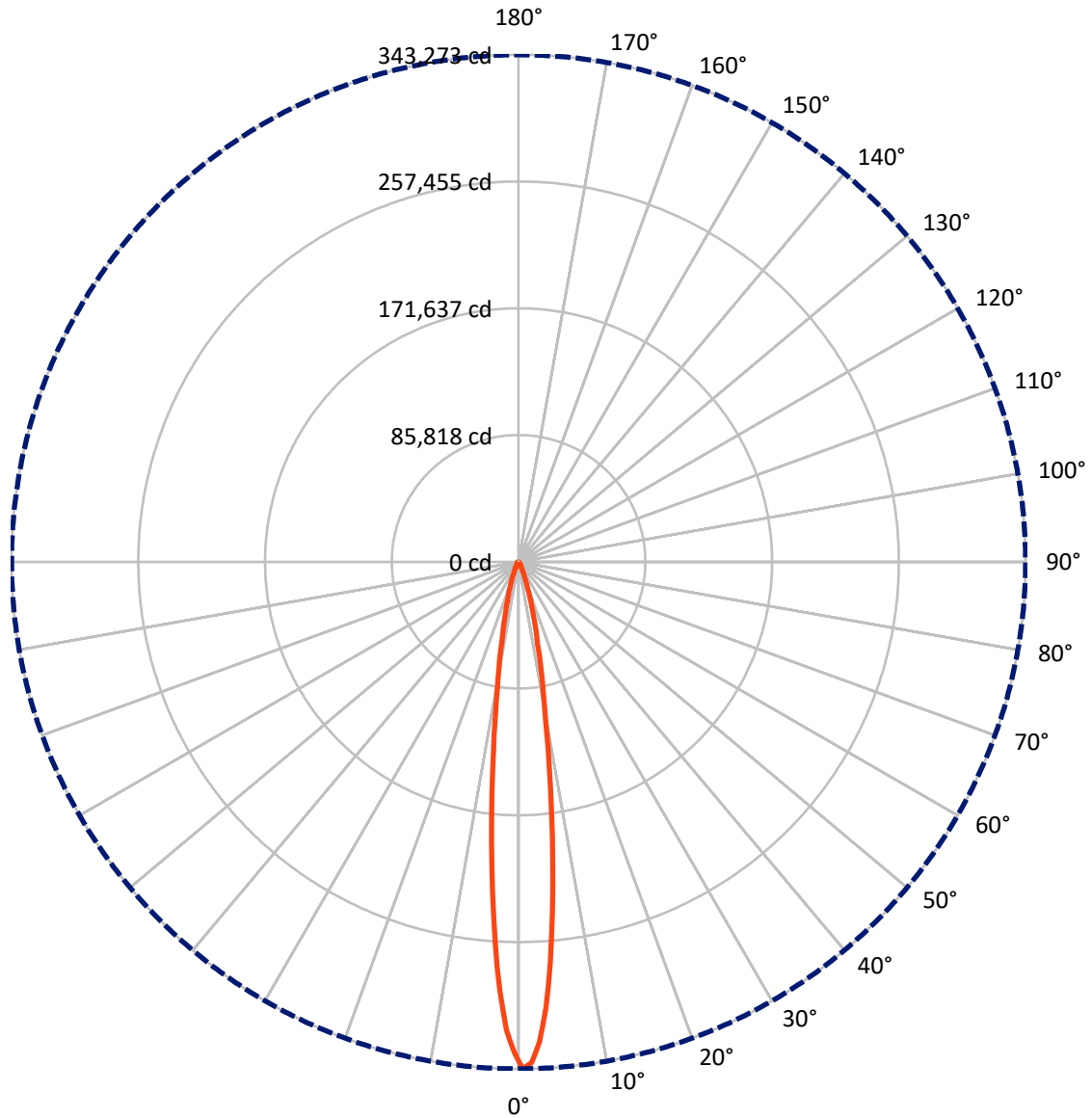
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 858.2 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	17700.0	0.0	17700.0
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	16858.0	0.0	16858.0
	% Fixture	48.8	0.0	48.8
Total	Lumens	34558.0	0.0	34558.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17445.9	50.5
10°-20°	11168.8	32.3
20°-30°	3357.1	9.7
30°-40°	1093.1	3.2
40°-50°	636.0	1.8
50°-60°	422.4	1.2
60°-70°	254.3	0.7
70°-80°	130.7	0.4
80°-90°	49.7	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°	34558.0	100.0
0°-180°	34558.0	100.0

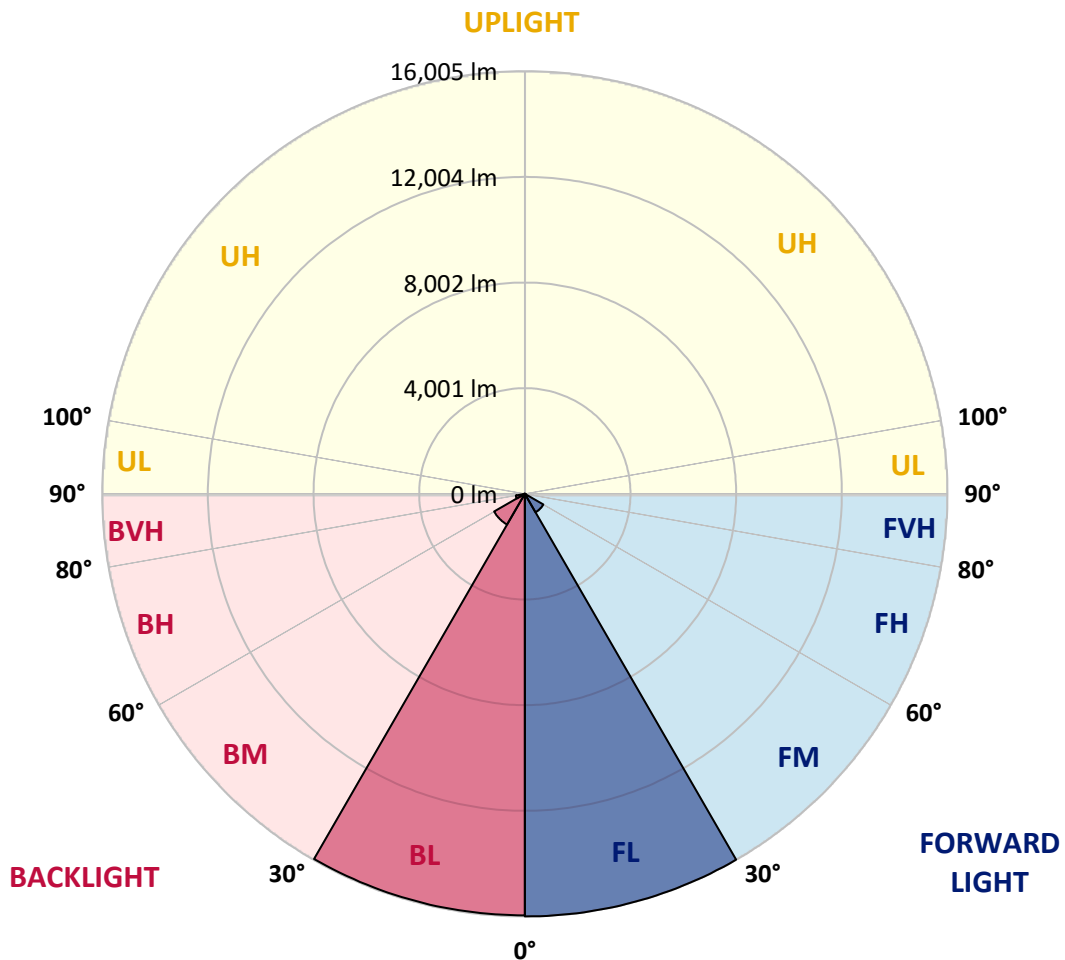


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	16004.9	46.3			
FM (30°-60°)	807.6	2.3			
FH (60°-80°)	38.0	0.1			G0/660
FVH (80°-90°)	7.5	0.0			G0/10
BL (0°-30°)	15967.0	46.2	B5		
BM (30°-60°)	1343.9	3.9	B2/2500		
BH (60°-80°)	347.0	1.0	B1/500		G0/660
BVH (80°-90°)	42.2	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°	343273.3	343273.3	343273.3	343273.3	343273.3	343273.3	343273.3	343273.3	343273.3	343273.3
1°	339163.1	338128.0	335455.6	337356.4	339027.6	338542.0	338508.1	338327.5	338075.3	340055.1
2°	325605.4	324935.5	320983.3	322613.1	324988.1	323256.7	324340.8	323388.5	323407.3	325771.0
3°	302750.9	303116.0	296811.4	299773.6	303074.6	298877.8	300180.1	302626.7	300063.5	299291.9
4°	273046.0	269876.8	266432.8	269444.0	270298.4	267855.6	270257.0	273253.1	269692.4	269850.5
5°	239133.1	236792.0	232715.6	234575.0	232455.9	233227.5	236825.8	238060.4	235576.2	232448.4
6°	204264.2	202600.5	197504.2	200184.1	199431.3	198994.7	203537.7	199773.8	201128.8	199235.6
7°	169907.1	166798.1	164295.1	166862.1	167027.7	165714.1	171612.2	170927.1	168461.8	167889.7
8°	140770.6	137669.1	135550.1	137462.1	138711.7	136649.1	139423.1	141244.9	139317.7	139490.9
9°	113538.6	112992.9	110045.7	112545.0	113903.7	111694.3	114765.7	115424.4	113621.5	114498.4
10°	93224.8	92588.7	90236.2	91248.7	93499.5	90864.8	93811.9	94026.5	92588.7	92998.9
12.5°	57610.6	57354.6	57290.6	57437.4	57407.3	57874.0	58626.8	57768.6	57655.7	56236.7
15°	37236.5	37616.6	37225.2	37978.0	38087.1	38527.5	38068.3	37375.7	36054.6	35399.7
17.5°	23238.4	23724.0	24394.0	25496.8	26599.6	26727.6	26117.8	25304.8	24665.0	23964.9
20°	13369.4	13606.6	13504.9	14826.1	17679.1	18454.5	17667.8	16813.4	16041.8	15334.2
22.5°	8307.0	8220.4	8378.5	8822.6	9752.3	12149.9	11506.3	10651.9	10091.1	9507.7
25°	5092.6	5186.7	5126.5	5371.1	5788.9	6805.2	6952.0	6583.1	6297.0	5995.9
27.5°	3278.4	3278.4	3304.7	3440.2	3726.3	3692.4	4475.3	4189.2	4034.9	3888.1
30°	2277.2	2284.7	2284.7	2363.7	2427.7	2314.8	2518.1	2886.9	2815.4	2702.5
32.5°	1690.0	1712.6	1731.4	1772.8	1720.1	1599.7	1648.6	2077.7	2036.3	1994.9
35°	1287.3	1306.1	1351.2	1373.8	1298.6	1223.3	1178.1	1528.2	1547.0	1535.7
37.5°	937.2	948.5	1031.3	1117.9	1031.3	963.6	937.2	1174.3	1264.7	1253.4
40°	718.9	722.7	737.7	835.6	835.6	782.9	790.4	877.0	1035.1	1035.1
42.5°	617.3	617.3	632.3	617.3	621.0	677.5	696.3	707.6	877.0	877.0
45°	534.5	534.5	542.0	504.4	466.7	583.4	598.5	602.2	737.7	756.5
47.5°	447.9	447.9	463.0	414.0	395.2	463.0	504.4	515.7	636.1	651.2
50°	331.2	335.0	380.2	338.8	350.0	357.6	436.6	444.1	538.2	572.1
52.5°	222.1	222.1	229.6	263.5	304.9	293.6	353.8	380.2	429.1	474.3
55°	180.7	180.7	176.9	169.4	225.8	244.7	259.7	316.2	350.0	406.5
57.5°	124.2	131.7	120.4	139.3	146.8	184.4	195.7	248.4	267.2	342.5
60°	15.1	18.8	26.3	101.6	97.9	124.2	146.8	195.7	218.3	263.5
62.5°	3.8	3.8	7.5	18.8	67.8	82.8	116.7	135.5	158.1	203.3
65°	0.0	0.0	3.8	7.5	15.1	45.2	60.2	79.0	112.9	143.0
67.5°	0.0	0.0	3.8	7.5	7.5	18.8	30.1	48.9	60.2	105.4
70°	0.0	0.0	3.8	7.5	7.5	15.1	18.8	22.6	41.4	56.5
72.5°	0.0	0.0	3.8	7.5	11.3	15.1	18.8	18.8	18.8	37.6
75°	0.0	0.0	3.8	7.5	11.3	15.1	18.8	18.8	15.1	15.1
77.5°	0.0	0.0	3.8	7.5	15.1	18.8	22.6	18.8	11.3	11.3
80°	0.0	0.0	3.8	11.3	18.8	26.3	30.1	22.6	11.3	7.5
82.5°	0.0	0.0	7.5	15.1	22.6	30.1	41.4	33.9	15.1	7.5
85°	0.0	0.0	3.8	11.3	22.6	30.1	60.2	41.4	18.8	3.8
87.5°	0.0	0.0	0.0	3.8	3.8	7.5	22.6	15.1	7.5	3.8
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°
343273.3	0°	343273.3	343273.3	343273.3	343273.3	343273.3	343273.3	343273.3	343273.3
337770.4	1°	340130.4	340367.5	339592.2	340792.8	340371.3	337902.2	337085.4	336118.1
324382.2	2°	323388.5	324596.7	324656.9	325989.3	325970.5	323091.1	322199.1	323843.9
300857.7	3°	299946.8	301354.5	300086.1	302453.6	301742.2	298249.3	297342.2	299209.1
271100.1	4°	270290.9	270023.6	269587.0	268239.5	269899.4	267516.9	265721.5	268254.6
236596.2	5°	236122.0	235527.3	234676.6	234277.7	235512.2	233987.9	230295.4	233995.4
202660.7	6°	202909.2	200349.7	200225.5	200003.4	200127.6	195859.3	196115.3	198870.5
165921.1	7°	167675.1	168145.6	167185.8	168725.2	167550.9	164660.2	163546.1	166448.1
140251.2	8°	139272.6	138677.9	137943.9	140243.7	138207.4	136310.4	135011.8	137304.0
114641.5	9°	114426.9	113399.4	112654.1	112537.4	112853.6	109292.9	110015.6	111750.8
93224.8	10°	93258.6	91572.4	91982.7	92091.8	91745.6	89411.9	89434.5	90033.0
57177.7	12.5°	56974.5	56146.4	56353.4	56466.3	57170.2	56349.6	55190.4	54354.8
36050.8	15°	35809.9	35215.2	36431.0	37247.8	37082.1	36351.9	35806.2	35049.6
23964.9	17.5°	23742.8	24521.9	24525.7	25271.0	25346.2	24616.0	24194.5	23513.2
15586.4	20°	15529.9	15853.6	16527.4	17054.3	17359.2	16802.1	16297.8	15831.0
9718.4	22.5°	9718.4	10283.0	10704.6	11389.6	11668.2	11261.6	10904.1	10523.9
6067.4	25°	5965.8	6368.6	6718.6	7313.3	7693.5	7497.7	7170.3	6903.0
3918.2	27.5°	3978.5	4147.8	4321.0	4731.2	5126.5	5017.3	4885.6	4723.7
2762.7	30°	2804.1	2819.2	3003.6	3233.2	3496.7	3564.4	3504.2	3421.4
2028.8	32.5°	2066.4	2126.6	2213.2	2356.2	2533.1	2695.0	2664.9	2627.2
1550.7	35°	1595.9	1686.2	1757.8	1866.9	1961.0	2115.3	2141.7	2130.4
1276.0	37.5°	1302.3	1381.4	1452.9	1516.9	1595.9	1701.3	1784.1	1787.9
1053.9	40°	1080.2	1151.8	1245.9	1294.8	1351.2	1430.3	1531.9	1539.4
892.0	42.5°	910.9	978.6	1072.7	1132.9	1174.3	1249.6	1351.2	1366.3
764.1	45°	782.9	824.3	922.2	993.7	1035.1	1084.0	1193.2	1208.2
658.7	47.5°	681.3	722.7	782.9	884.5	922.2	967.3	1053.9	1080.2
583.4	50°	598.5	639.9	692.6	782.9	839.4	877.0	948.5	986.1
508.1	52.5°	530.7	572.1	628.6	700.1	764.1	798.0	865.7	914.6
414.0	55°	444.1	515.7	557.1	621.0	707.6	737.7	790.4	854.4
361.3	57.5°	387.7	447.9	508.1	560.8	647.4	685.0	737.7	798.0
286.1	60°	327.5	383.9	455.4	500.6	583.4	632.3	688.8	745.3
218.3	62.5°	259.7	335.0	383.9	447.9	526.9	590.9	636.1	692.6
169.4	65°	192.0	274.8	331.2	399.0	474.3	542.0	579.6	639.9
120.4	67.5°	139.3	214.5	282.3	346.3	417.8	485.5	523.2	575.9
75.3	70°	109.2	158.1	233.4	289.8	365.1	421.6	463.0	496.8
48.9	72.5°	64.0	120.4	188.2	252.2	319.9	357.6	387.7	417.8
22.6	75°	41.4	94.1	154.3	210.8	259.7	293.6	319.9	346.3
11.3	77.5°	26.3	67.8	124.2	176.9	199.5	240.9	263.5	278.5
7.5	80°	15.1	52.7	109.2	143.0	161.8	188.2	210.8	229.6
7.5	82.5°	11.3	45.2	90.3	120.4	120.4	150.6	161.8	161.8
3.8	85°	7.5	37.6	71.5	112.9	90.3	112.9	105.4	105.4
3.8	87.5°	7.5	26.3	33.9	48.9	41.4	48.9	48.9	56.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
343273.3
332286.4
316876.9
290917.1
259085.7
224246.8
190883.4
158555.1
130758.6
106330.7
85960.4
53846.6
34661.9
23343.8
15669.2
10320.7
6748.7
4629.6
3364.9
2597.1
2092.7
1761.5
1528.2
1355.0
1204.5
1084.0
989.9
914.6
858.2
801.7
760.3
718.9
651.2
579.6
508.1
425.3
346.3
271.0
207.0
150.6
101.6
56.5
0.0

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