

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: P637431

Luminaire Tested: **IFLD-L-SA8C-750-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637431
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-750-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (128) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49983.5 lumens
Efficiency: N/A
Efficacy: 118.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

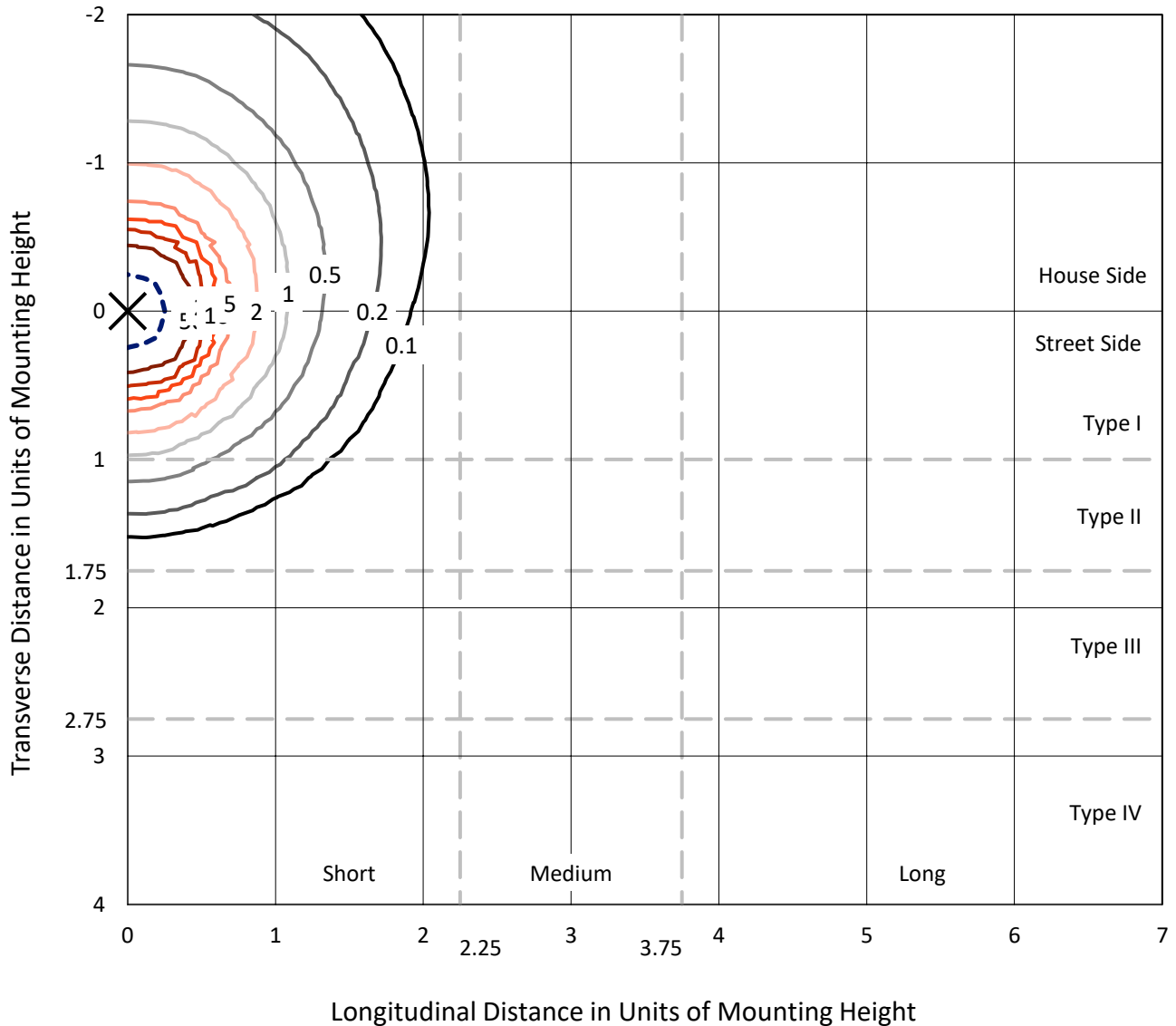
Input Watts (W): 420.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

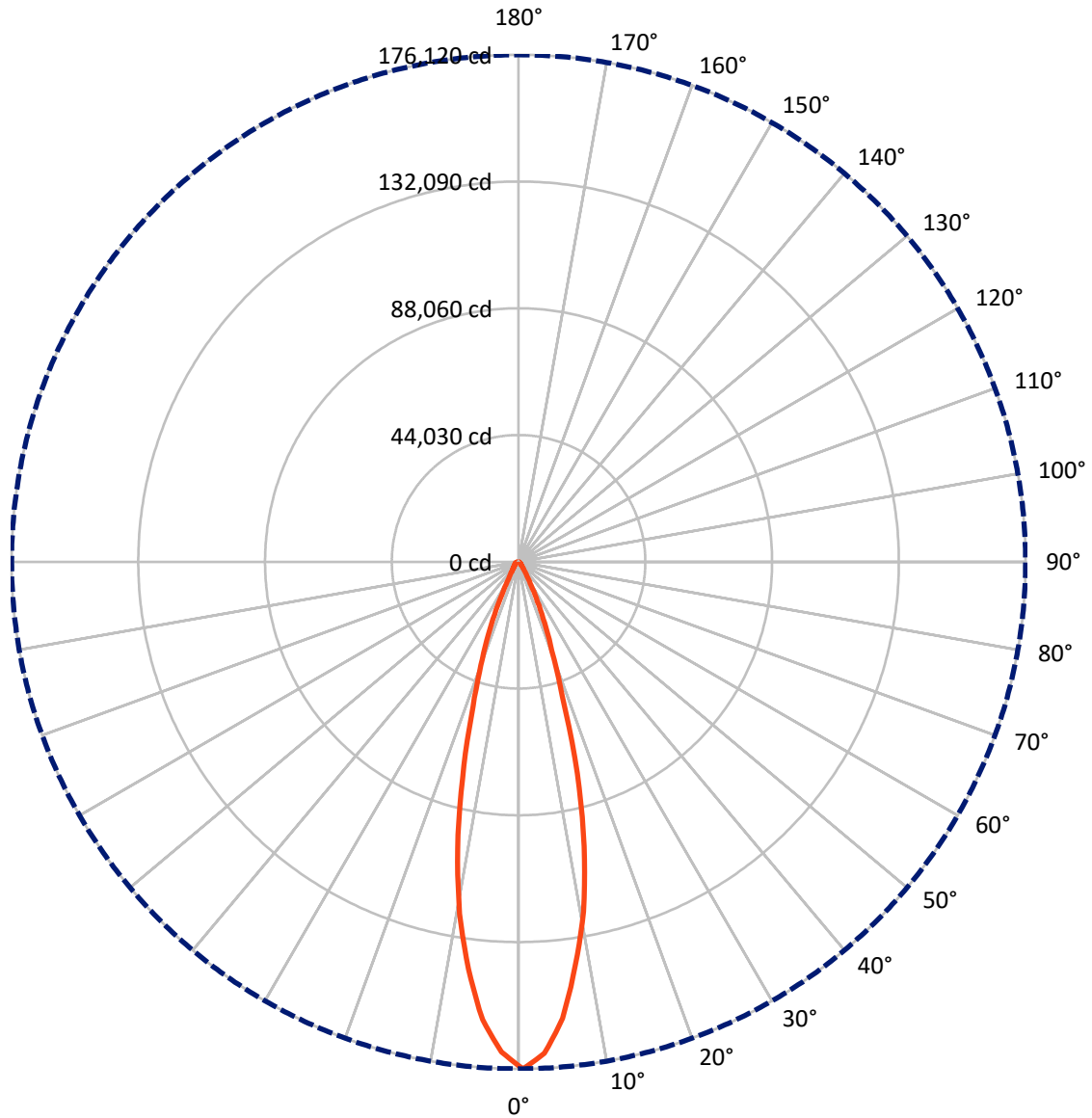
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 440.3 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	26354.7	0.0	26354.7
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	23628.8	0.0	23628.8
	% Fixture	47.3	0.0	47.3
Total	Lumens	49983.5	0.0	49983.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14214.5	28.4
10°-20°	21527.7	43.1
20°-30°	9084.8	18.2
30°-40°	2369.4	4.7
40°-50°	1198.4	2.4
50°-60°	783.3	1.6
60°-70°	469.3	0.9
70°-80°	246.9	0.5
80°-90°	89.2	0.2
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°	49983.5	100.0
0°-180°	49983.5	100.0

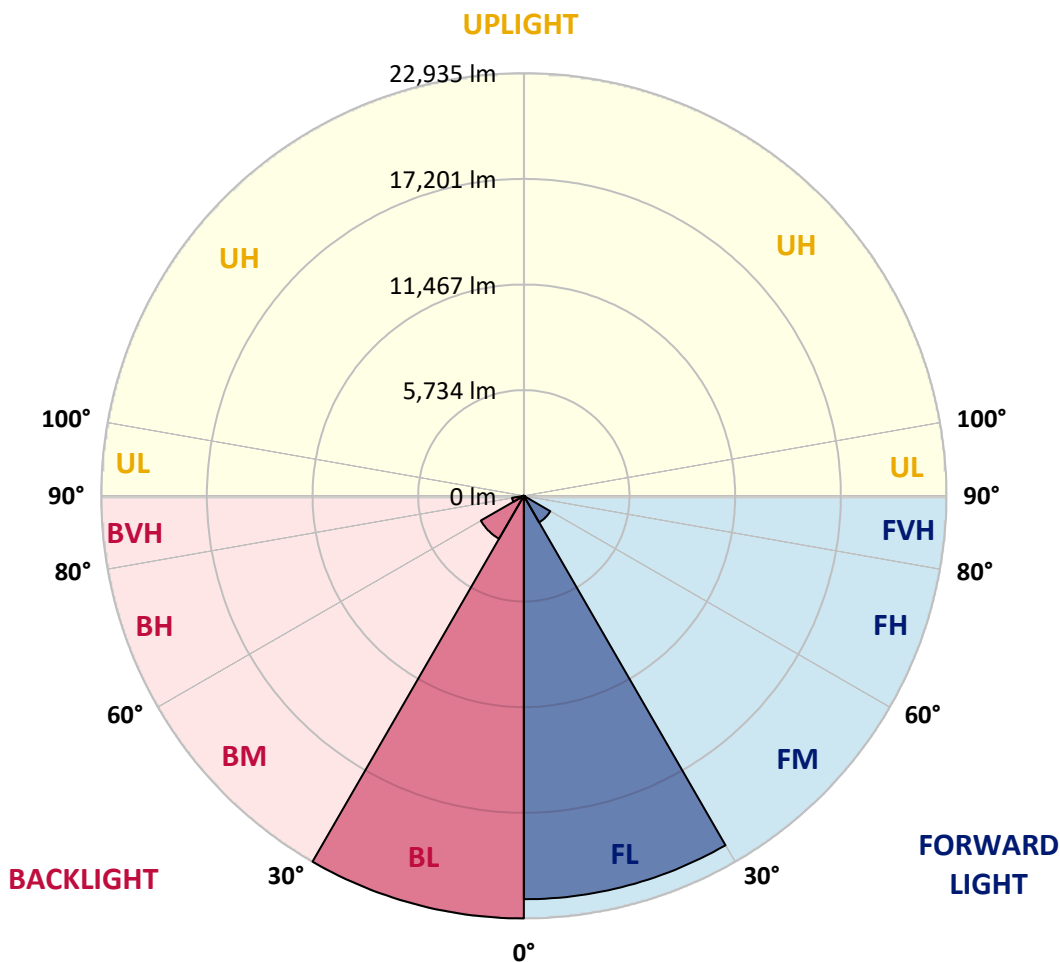


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	21892.5	43.8			
FM (30°-60°)	1658.0	3.3			
FH (60°-80°)	67.6	0.1			G0/660
FVH (80°-90°)	10.8	0.0			G1/100
BL (0°-30°)	22934.6	45.9	B5		
BM (30°-60°)	2693.2	5.4	B3/5000		
BH (60°-80°)	648.6	1.3	B2/1000		G0/660
BVH (80°-90°)	78.3	0.2			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°	176120.4	176120.4	176120.4	176120.4	176120.4	176120.4	176120.4	176120.4	176120.4	176120.4
2.5°	170989.9	171085.3	170731.7	171495.1	170900.1	172494.2	171702.8	172937.7	172522.3	173212.7
5°	159314.4	159157.2	159056.2	160240.6	159898.2	161610.2	160515.6	160156.4	161267.8	161065.7
7.5°	141683.3	142098.7	141862.9	142171.6	142345.6	144299.0	144916.5	144433.8	144450.6	144731.3
10°	123608.7	122996.9	122126.8	122705.0	123928.7	124781.9	124439.5	125146.7	124989.6	125657.5
12.5°	101369.1	101851.9	101363.5	100847.1	102985.7	102750.0	103345.0	103732.3	102761.2	104922.3
15°	76356.6	76609.2	77204.2	77164.9	78809.6	79140.8	79062.2	79472.0	78714.2	79073.4
17.5°	49053.9	49907.1	51506.9	54212.5	57254.8	57608.5	57518.7	57181.9	56817.0	56412.9
20°	32949.6	32859.8	33437.9	34229.4	40527.4	42194.6	42144.1	41088.8	39562.0	39270.1
22.5°	23081.6	23250.0	23171.4	23957.2	25259.5	29856.7	29289.8	28217.7	27718.1	27392.5
25°	15183.8	15122.0	15514.9	15750.7	16867.7	17429.0	19416.1	19017.6	18248.6	18332.8
27.5°	9256.2	9334.8	9480.7	9682.8	10474.3	10294.6	11428.5	11580.1	11333.1	11069.3
30°	5680.6	5736.7	5854.6	6000.5	6275.6	6079.1	6393.5	6937.9	6848.1	6662.9
32.5°	3856.3	3861.9	3946.1	4002.2	3968.5	3783.3	3884.3	4400.8	4412.0	4395.2
35°	2772.9	2772.9	2851.5	2896.4	2801.0	2649.4	2666.3	2986.2	3126.6	3154.6
37.5°	1914.1	1919.7	2054.4	2189.2	2082.5	2043.2	1975.9	2189.2	2413.7	2447.4
40°	1453.8	1448.2	1515.6	1616.6	1627.8	1554.9	1577.3	1712.0	1942.2	1970.2
42.5°	1178.8	1184.4	1218.1	1206.8	1212.5	1307.9	1341.6	1403.3	1616.6	1667.1
45°	993.5	999.2	1016.0	959.9	937.4	1083.4	1128.3	1161.9	1341.6	1403.3
47.5°	819.5	830.8	847.6	785.9	774.6	870.0	948.6	982.3	1139.5	1206.8
50°	589.4	600.6	662.4	628.7	662.4	684.8	791.5	842.0	948.6	1038.4
52.5°	426.6	437.8	454.7	460.3	544.5	555.7	634.3	712.9	763.4	864.4
55°	336.8	348.0	336.8	325.6	398.5	460.3	488.4	572.5	611.8	729.7
57.5°	190.8	202.1	218.9	252.6	263.8	353.6	381.7	454.7	488.4	600.6
60°	33.7	39.3	61.7	151.6	185.2	224.5	286.3	348.0	392.9	471.5
62.5°	5.6	5.6	11.2	33.7	106.7	157.2	207.7	247.0	286.3	359.2
65°	0.0	0.0	5.6	11.2	28.1	89.8	112.3	145.9	196.5	258.2
67.5°	0.0	0.0	5.6	11.2	16.8	33.7	50.5	89.8	112.3	174.0
70°	0.0	0.0	5.6	11.2	16.8	22.5	28.1	39.3	67.4	106.7
72.5°	0.0	0.0	5.6	11.2	16.8	22.5	28.1	33.7	33.7	67.4
75°	0.0	0.0	5.6	11.2	16.8	28.1	33.7	33.7	28.1	28.1
77.5°	0.0	0.0	5.6	11.2	22.5	33.7	39.3	33.7	22.5	22.5
80°	0.0	0.0	11.2	16.8	28.1	39.3	50.5	39.3	22.5	11.2
82.5°	0.0	0.0	11.2	22.5	28.1	44.9	61.7	50.5	22.5	11.2
85°	0.0	0.0	5.6	16.8	33.7	44.9	61.7	44.9	22.5	5.6
87.5°	0.0	0.0	5.6	5.6	11.2	16.8	33.7	28.1	11.2	5.6
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°
176120.4	0°	176120.4	176120.4	176120.4	176120.4	176120.4	176120.4	176120.4	176120.4	176120.4
171904.9	2.5°	172892.8	173790.9	173976.1	173729.1	174088.4	173442.9	172948.9	171669.1	170900.1
161004.0	5°	162042.4	161907.7	162845.1	163153.8	163114.6	162620.6	161930.2	161155.5	160403.4
144186.8	7.5°	145084.9	145258.9	146112.1	146656.6	146381.5	145764.1	145287.0	144703.2	144198.0
125898.9	10°	127049.6	125854.0	126914.9	126914.9	127650.2	125904.5	126067.3	124596.6	124664.0
104883.0	12.5°	105242.3	105674.5	105848.5	106348.1	105489.2	104563.1	103429.2	103204.7	102503.0
78388.6	15°	79516.9	80751.8	79690.9	81503.9	80628.3	79662.8	79488.8	77748.7	78298.8
56856.3	17.5°	56575.6	57939.7	58366.3	59404.7	58607.6	58035.1	57311.0	56783.3	56744.0
39803.3	20°	40117.7	41487.3	41801.6	43047.8	42958.0	42778.3	42166.5	41498.5	40774.4
27095.0	22.5°	27504.8	28621.8	29665.9	31344.2	31316.2	30788.5	30726.8	29783.7	29800.6
18304.7	25°	18495.6	19309.5	19556.5	21274.1	21465.0	21408.8	21088.9	20213.2	20544.4
11181.5	27.5°	11192.8	11905.6	12742.0	13348.2	13920.8	13831.0	13511.0	13022.7	12809.4
6719.0	30°	6898.6	7218.6	7527.3	8257.0	8599.5	8779.1	8627.5	8172.8	8206.5
4423.2	32.5°	4518.6	4788.1	5012.6	5472.9	5652.5	5983.7	5921.9	5826.5	5714.3
3182.7	35°	3295.0	3491.4	3643.0	3856.3	4086.4	4367.1	4412.0	4372.7	4327.8
2458.6	37.5°	2514.7	2716.8	2890.8	2980.6	3160.2	3379.2	3502.6	3497.0	3463.4
2003.9	40°	2043.2	2194.8	2351.9	2469.8	2593.3	2756.1	2907.6	2924.5	2924.5
1684.0	42.5°	1706.4	1835.5	1992.7	2116.2	2206.0	2357.6	2514.7	2525.9	2514.7
1425.8	45°	1459.4	1571.7	1723.3	1869.2	1942.2	2054.4	2206.0	2239.7	2217.2
1223.7	47.5°	1268.6	1369.6	1498.7	1655.9	1734.5	1835.5	1975.9	2015.1	2009.5
1055.3	50°	1089.0	1206.8	1335.9	1465.1	1566.1	1661.5	1796.2	1841.1	1824.3
898.1	52.5°	959.9	1066.5	1178.8	1319.1	1437.0	1521.2	1627.8	1706.4	1684.0
757.8	55°	802.7	931.8	1049.7	1167.5	1313.5	1403.3	1504.3	1599.8	1577.3
639.9	57.5°	696.0	802.7	937.4	1044.1	1190.0	1296.7	1397.7	1498.7	1493.1
522.0	60°	583.8	696.0	825.1	937.4	1072.1	1190.0	1291.0	1403.3	1414.5
392.9	62.5°	460.3	595.0	707.3	836.4	971.1	1100.2	1190.0	1302.3	1319.1
297.5	65°	348.0	488.4	611.8	735.3	870.0	1010.4	1089.0	1184.4	1201.2
218.9	67.5°	258.2	376.1	522.0	634.3	774.6	909.3	982.3	1060.9	1089.0
134.7	70°	196.5	286.3	437.8	544.5	690.4	797.1	875.7	943.0	965.5
89.8	72.5°	123.5	224.5	353.6	465.9	595.0	690.4	746.6	785.9	819.5
50.5	75°	84.2	174.0	286.3	398.5	494.0	566.9	617.5	651.1	679.2
22.5	77.5°	50.5	134.7	235.8	331.2	392.9	449.1	499.6	522.0	538.9
16.8	80°	28.1	101.0	196.5	269.4	308.7	348.0	387.3	415.4	426.6
11.2	82.5°	16.8	78.6	157.2	207.7	224.5	263.8	303.1	320.0	320.0
5.6	85°	11.2	56.1	106.7	151.6	162.8	190.8	202.1	213.3	224.5
5.6	87.5°	11.2	33.7	67.4	84.2	89.8	101.0	106.7	117.9	129.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
176120.4
170333.2
159561.4
142486.0
124007.2
101863.1
77748.7
55700.0
40460.1
29475.0
20022.4
12624.1
8060.6
5675.0
4311.0
3446.5
2890.8
2503.5
2217.2
1998.3
1813.1
1678.4
1588.5
1498.7
1420.1
1330.3
1218.1
1100.2
976.7
813.9
673.6
533.3
415.4
314.3
218.9
123.5
0.0

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