

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: P637253

Luminaire Tested: **IFLD-L-SA7D-830-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637253
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-830-U-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (112) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38546 lumens
Efficiency: N/A
Efficacy: 91.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

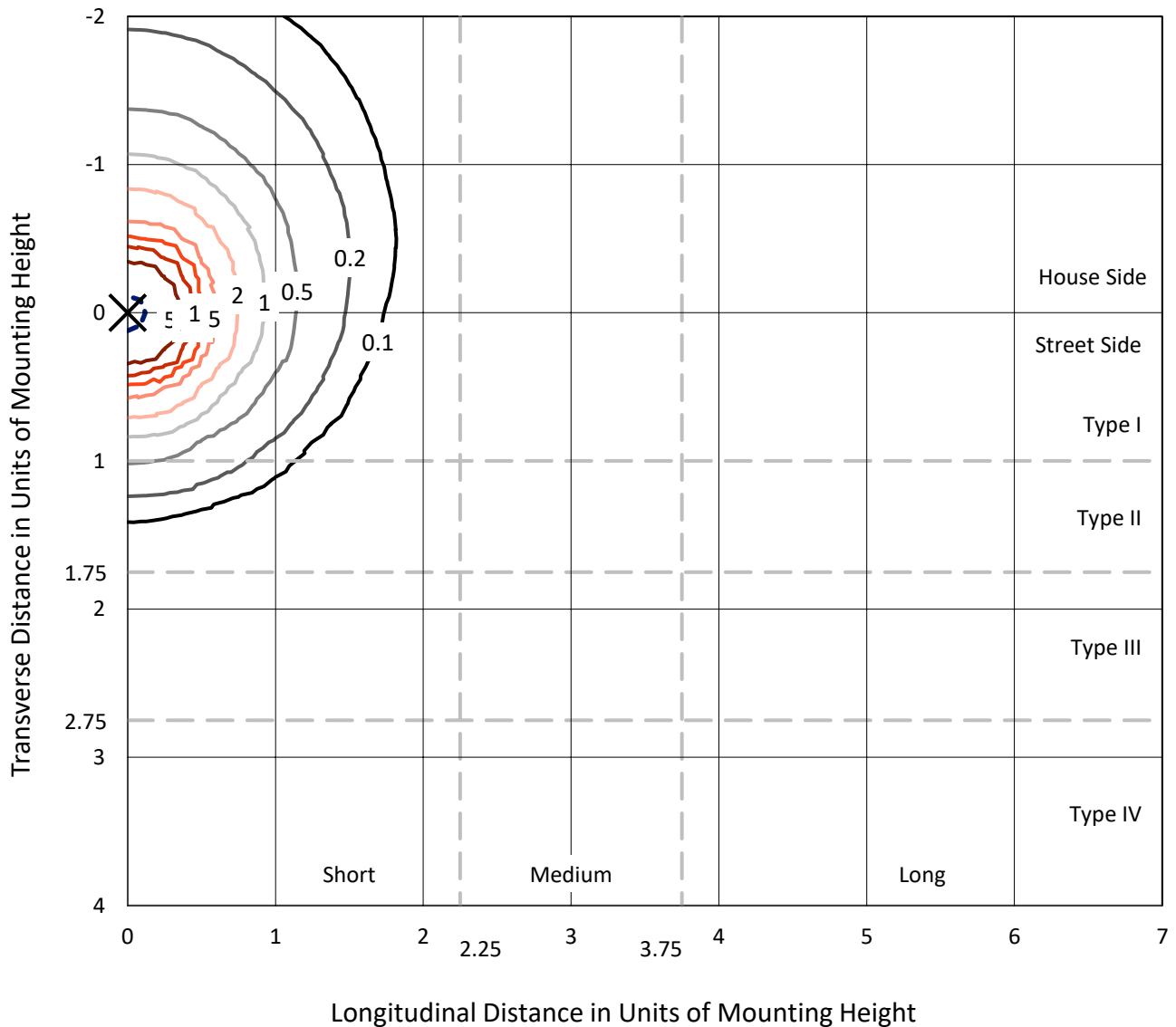
Input Watts (W): 422.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

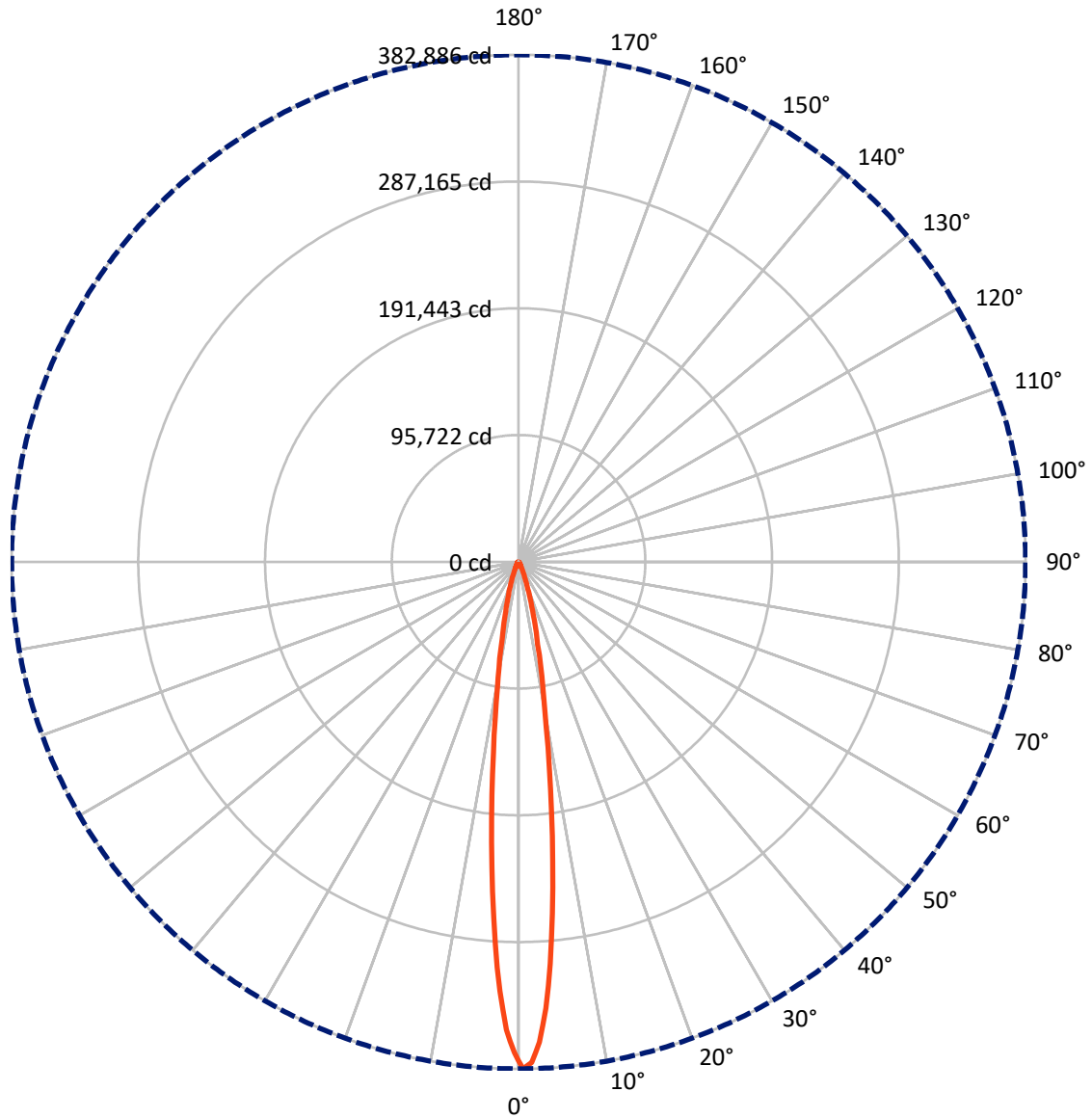
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 957.2 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	19742.5	0.0	19742.5
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	18803.4	0.0	18803.4
	% Fixture	48.8	0.0	48.8
Total	Lumens	38546.0	0.0	38546.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19459.2	50.5
10°-20°	12457.7	32.3
20°-30°	3744.5	9.7
30°-40°	1219.2	3.2
40°-50°	709.4	1.8
50°-60°	471.2	1.2
60°-70°	283.6	0.7
70°-80°	145.8	0.4
80°-90°	55.4	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°	38546.0	100.0
0°-180°	38546.0	100.0

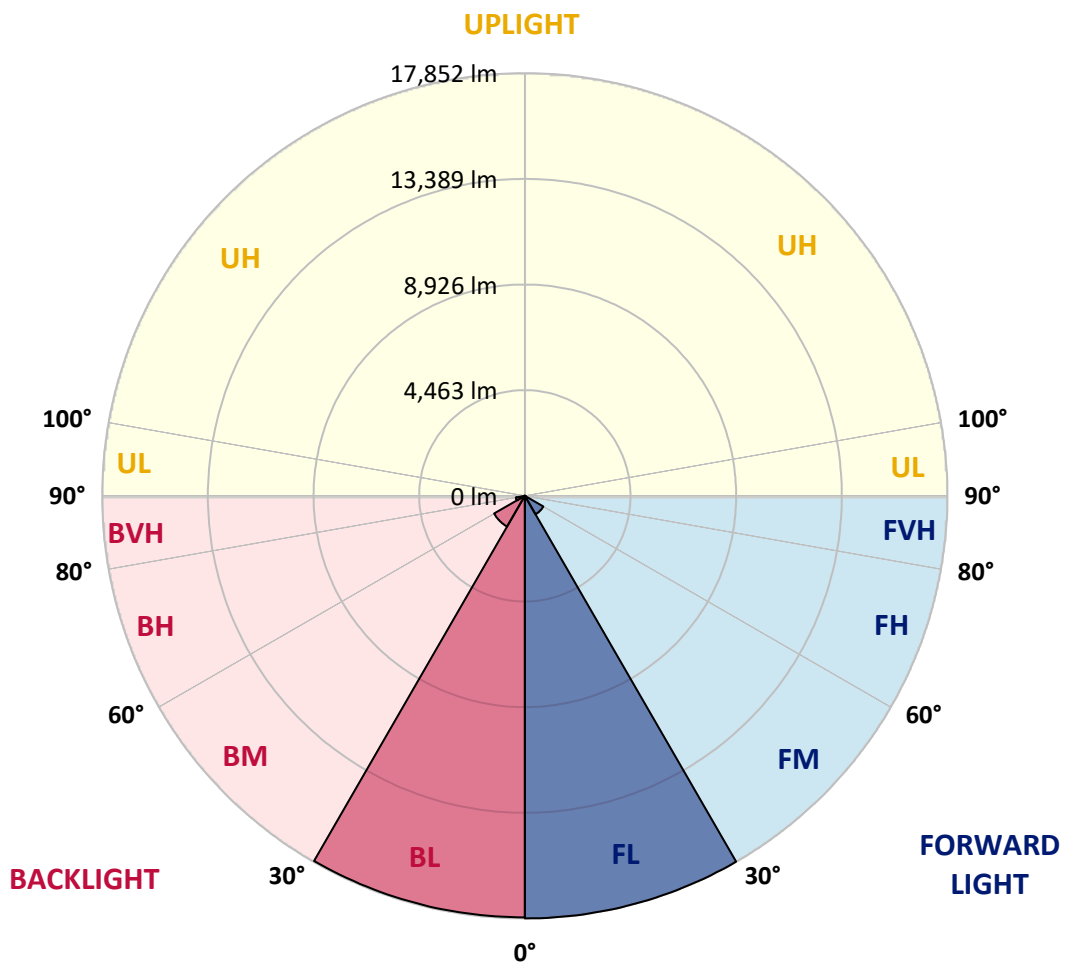


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	17851.8	46.3			
FM (30°-60°)	900.8	2.3			
FH (60°-80°)	42.4	0.1			G0/660
FVH (80°-90°)	8.4	0.0			G0/10
BL (0°-30°)	17809.5	46.2	B5		
BM (30°-60°)	1499.0	3.9	B2/2500		
BH (60°-80°)	387.0	1.0	B1/500		G0/660
BVH (80°-90°)	47.0	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°	382886.4	382886.4	382886.4	382886.4	382886.4	382886.4	382886.4	382886.4	382886.4	382886.4
1°	378301.9	377147.4	374166.6	376286.7	378150.7	377609.2	377571.4	377369.9	377088.6	379296.9
2°	363179.7	362432.4	358024.2	359842.1	362491.2	360560.0	361769.1	360706.9	360727.9	363364.4
3°	337687.8	338095.1	331063.0	334367.0	338048.9	333367.8	334820.4	337549.3	334690.3	333829.6
4°	304555.1	301020.1	297178.7	300537.3	301490.3	298765.7	301444.2	304786.0	300814.4	300990.7
5°	266728.7	264117.3	259570.6	261644.6	259280.9	260141.6	264155.1	265532.2	262761.3	259272.5
6°	227835.9	225980.3	220295.8	223285.0	222445.3	221958.3	227025.6	222827.4	224338.7	222227.0
7°	189514.1	186046.3	183254.5	186117.7	186302.4	184837.2	191415.9	190651.8	187902.0	187263.8
8°	157015.3	153555.9	151192.3	153325.0	154718.8	152418.2	155512.3	157544.3	155394.8	155587.9
9°	126640.8	126032.1	122744.8	125532.5	127048.0	124583.7	128009.4	128744.1	126733.2	127711.4
10°	103982.7	103273.2	100649.3	101778.7	104289.2	101350.4	104637.7	104877.0	103273.2	103730.8
12.5°	64258.7	63973.2	63901.9	64065.6	64032.0	64552.6	65392.2	64435.0	64309.1	62726.3
15°	41533.5	41957.5	41520.9	42360.5	42482.3	42973.5	42461.3	41688.8	40215.2	39484.7
17.5°	25920.1	26461.7	27209.0	28439.1	29669.2	29811.9	29131.8	28225.0	27511.3	26730.4
20°	14912.3	15176.7	15063.4	16537.0	19719.3	20584.1	19706.7	18753.7	17893.0	17103.8
22.5°	9265.6	9169.0	9345.3	9840.7	10877.7	13552.0	12834.1	11881.1	11255.6	10604.8
25°	5680.3	5785.2	5718.0	5990.9	6456.9	7590.5	7754.2	7342.8	7023.7	6687.8
27.5°	3656.7	3656.7	3686.1	3837.2	4156.3	4118.5	4991.7	4672.7	4500.5	4336.8
30°	2540.0	2548.3	2548.3	2636.5	2707.9	2581.9	2808.6	3220.1	3140.3	3014.4
32.5°	1885.0	1910.2	1931.2	1977.4	1918.6	1784.3	1838.8	2317.4	2271.3	2225.1
35°	1435.8	1456.8	1507.2	1532.4	1448.4	1364.4	1314.1	1704.5	1725.5	1712.9
37.5°	1045.4	1058.0	1150.3	1246.9	1150.3	1074.8	1045.4	1309.9	1410.6	1398.0
40°	801.9	806.1	822.9	932.0	932.0	873.2	881.6	978.2	1154.5	1154.5
42.5°	688.5	688.5	705.3	688.5	692.7	755.7	776.7	789.3	978.2	978.2
45°	596.2	596.2	604.6	562.6	520.6	650.7	667.5	671.7	822.9	843.9
47.5°	499.6	499.6	516.4	461.8	440.8	516.4	562.6	575.2	709.5	726.3
50°	369.4	373.6	424.0	377.8	390.4	398.8	487.0	495.4	600.4	638.1
52.5°	247.7	247.7	256.1	293.9	340.1	327.5	394.6	424.0	478.6	529.0
55°	201.5	201.5	197.3	188.9	251.9	272.9	289.7	352.7	390.4	453.4
57.5°	138.5	146.9	134.3	155.3	163.7	205.7	218.3	277.1	298.1	382.0
60°	16.8	21.0	29.4	113.4	109.2	138.5	163.7	218.3	243.5	293.9
62.5°	4.2	4.2	8.4	21.0	75.6	92.4	130.1	151.1	176.3	226.7
65°	0.0	0.0	4.2	8.4	16.8	50.4	67.2	88.2	125.9	159.5
67.5°	0.0	0.0	4.2	8.4	8.4	21.0	33.6	54.6	67.2	117.6
70°	0.0	0.0	4.2	8.4	8.4	16.8	21.0	25.2	46.2	63.0
72.5°	0.0	0.0	4.2	8.4	12.6	16.8	21.0	21.0	21.0	42.0
75°	0.0	0.0	4.2	8.4	12.6	16.8	21.0	21.0	16.8	16.8
77.5°	0.0	0.0	4.2	8.4	16.8	21.0	25.2	21.0	12.6	12.6
80°	0.0	0.0	4.2	12.6	21.0	29.4	33.6	25.2	12.6	8.4
82.5°	0.0	0.0	8.4	16.8	25.2	33.6	46.2	37.8	16.8	8.4
85°	0.0	0.0	4.2	12.6	25.2	33.6	67.2	46.2	21.0	4.2
87.5°	0.0	0.0	0.0	4.2	4.2	8.4	25.2	16.8	8.4	4.2
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°
382886.4	0°	382886.4	382886.4	382886.4	382886.4	382886.4	382886.4	382886.4	382886.4
376748.5	1°	379380.8	379645.3	378780.5	380119.7	379649.5	376895.5	375984.4	374905.5
361815.3	2°	360706.9	362054.6	362121.8	363607.9	363586.9	360375.3	359380.3	361214.9
335576.1	3°	334560.1	336130.3	334715.4	337356.2	336562.7	332666.7	331654.9	333737.3
302384.6	4°	301481.9	301183.9	300696.9	299193.9	301045.3	298387.8	296385.2	299210.7
263899.0	5°	263370.1	262706.7	261757.9	261312.9	262689.9	260989.6	256871.1	260998.0
226047.4	6°	226324.5	223469.7	223331.2	223083.5	223222.0	218461.2	218746.6	221819.8
185068.1	7°	187024.5	187549.3	186478.7	188195.8	186886.0	183661.7	182419.0	185655.9
156435.9	8°	155344.4	154681.0	153862.4	156427.5	154156.3	152040.3	150591.9	153148.7
127870.9	9°	127631.6	126485.5	125654.2	125524.1	125876.7	121905.2	122711.2	124646.6
103982.7	10°	104020.5	102139.7	102597.3	102719.1	102332.8	99729.9	99755.1	100422.6
63775.9	12.5°	63549.2	62625.6	62856.5	62982.4	63767.5	62852.3	61559.2	60627.2
40211.0	15°	39942.3	39279.0	40635.1	41546.1	41361.4	40546.9	39938.1	39094.3
26730.4	17.5°	26482.7	27351.7	27355.9	28187.2	28271.1	27456.7	26986.5	26226.6
17385.0	20°	17322.1	17683.1	18434.6	19022.4	19362.4	18741.1	18178.5	17657.9
10839.9	22.5°	10839.9	11469.7	11939.9	12704.0	13014.6	12561.2	12162.4	11738.4
6767.6	25°	6654.3	7103.5	7493.9	8157.2	8581.3	8363.0	7997.7	7699.6
4370.4	27.5°	4437.6	4626.5	4819.6	5277.2	5718.0	5596.3	5449.4	5268.8
3081.5	30°	3127.7	3144.5	3350.2	3606.3	3900.2	3975.8	3908.6	3816.2
2262.9	32.5°	2304.9	2372.0	2468.6	2628.1	2825.4	3006.0	2972.4	2930.4
1729.7	35°	1780.1	1880.8	1960.6	2082.3	2187.3	2359.4	2388.8	2376.2
1423.2	37.5°	1452.6	1540.8	1620.5	1691.9	1780.1	1897.6	1990.0	1994.2
1175.5	40°	1204.9	1284.7	1389.6	1444.2	1507.2	1595.3	1708.7	1717.1
995.0	42.5°	1016.0	1091.6	1196.5	1263.7	1309.9	1393.8	1507.2	1524.0
852.2	45°	873.2	919.4	1028.6	1108.3	1154.5	1209.1	1330.9	1347.6
734.7	47.5°	759.9	806.1	873.2	986.6	1028.6	1079.0	1175.5	1204.9
650.7	50°	667.5	713.7	772.5	873.2	936.2	978.2	1058.0	1099.9
566.8	52.5°	592.0	638.1	701.1	780.9	852.2	890.0	965.6	1020.2
461.8	55°	495.4	575.2	621.3	692.7	789.3	822.9	881.6	953.0
403.0	57.5°	432.4	499.6	566.8	625.5	722.1	764.1	822.9	890.0
319.1	60°	365.2	428.2	508.0	558.4	650.7	705.3	768.3	831.3
243.5	62.5°	289.7	373.6	428.2	499.6	587.8	659.1	709.5	772.5
188.9	65°	214.1	306.5	369.4	445.0	529.0	604.6	646.5	713.7
134.3	67.5°	155.3	239.3	314.9	386.2	466.0	541.6	583.6	642.3
84.0	70°	121.7	176.3	260.3	323.3	407.2	470.2	516.4	554.2
54.6	72.5°	71.4	134.3	209.9	281.3	356.9	398.8	432.4	466.0
25.2	75°	46.2	105.0	172.1	235.1	289.7	327.5	356.9	386.2
12.6	77.5°	29.4	75.6	138.5	197.3	222.5	268.7	293.9	310.7
8.4	80°	16.8	58.8	121.7	159.5	180.5	209.9	235.1	256.1
8.4	82.5°	12.6	50.4	100.8	134.3	134.3	167.9	180.5	180.5
4.2	85°	8.4	42.0	79.8	125.9	100.8	125.9	117.6	117.6
4.2	87.5°	8.4	29.4	37.8	54.6	46.2	54.6	54.6	63.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
382886.4
370631.6
353443.9
324488.5
288983.7
250124.5
212911.0
176852.1
145847.9
118601.1
95880.1
60060.4
38661.9
26037.7
17477.4
11511.7
7527.5
5163.9
3753.3
2896.8
2334.2
1964.8
1704.5
1511.4
1343.4
1209.1
1104.1
1020.2
957.2
894.2
848.1
801.9
726.3
646.5
566.8
474.4
386.2
302.3
230.9
167.9
113.4
63.0
0.0

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