

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: P637162

Luminaire Tested: **IFLD-M-SA4E-750-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637162
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4E-750-U-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (64) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36829.3 lumens
Efficiency: N/A
Efficacy: 117.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

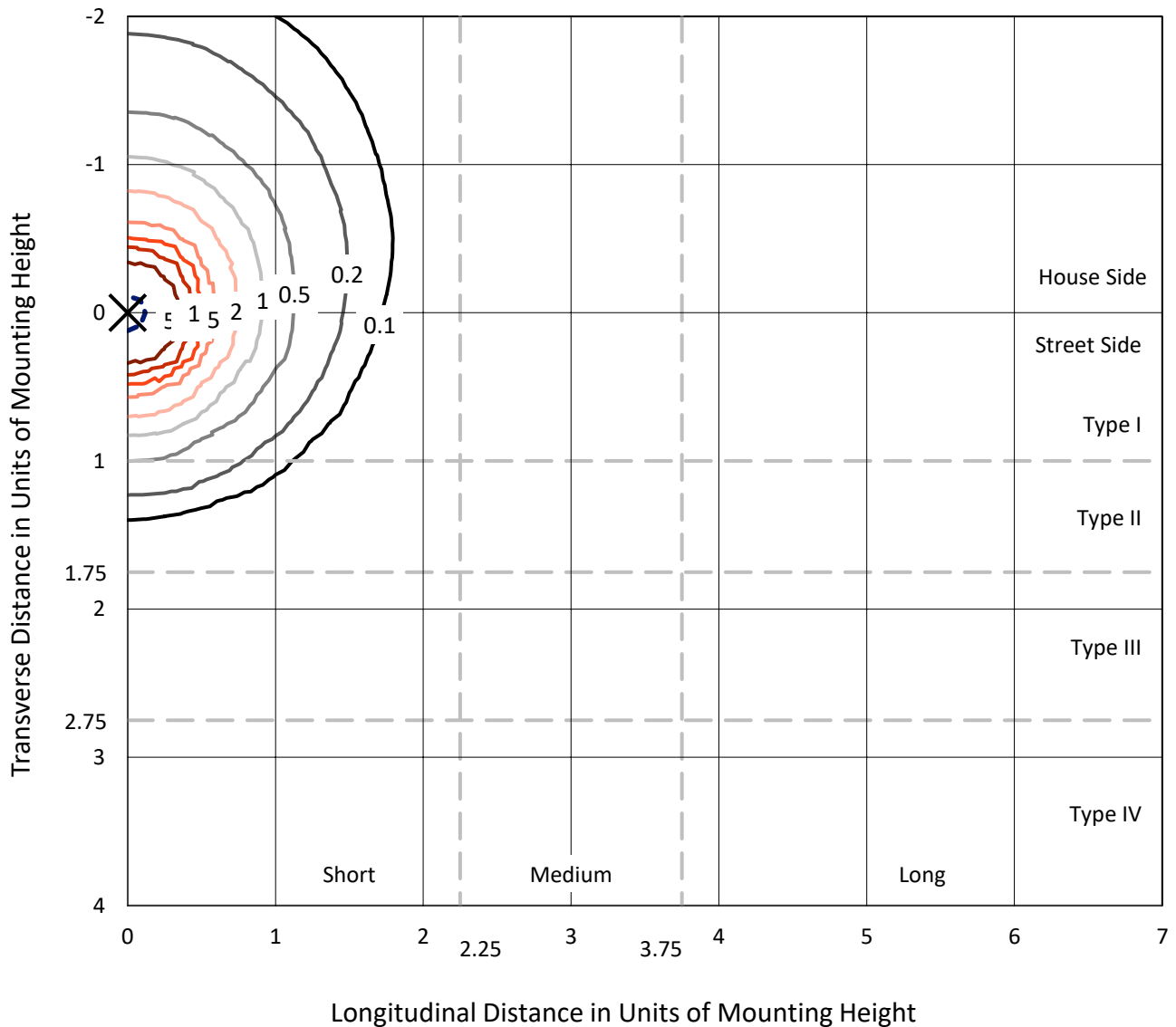
Input Watts (W): 314.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

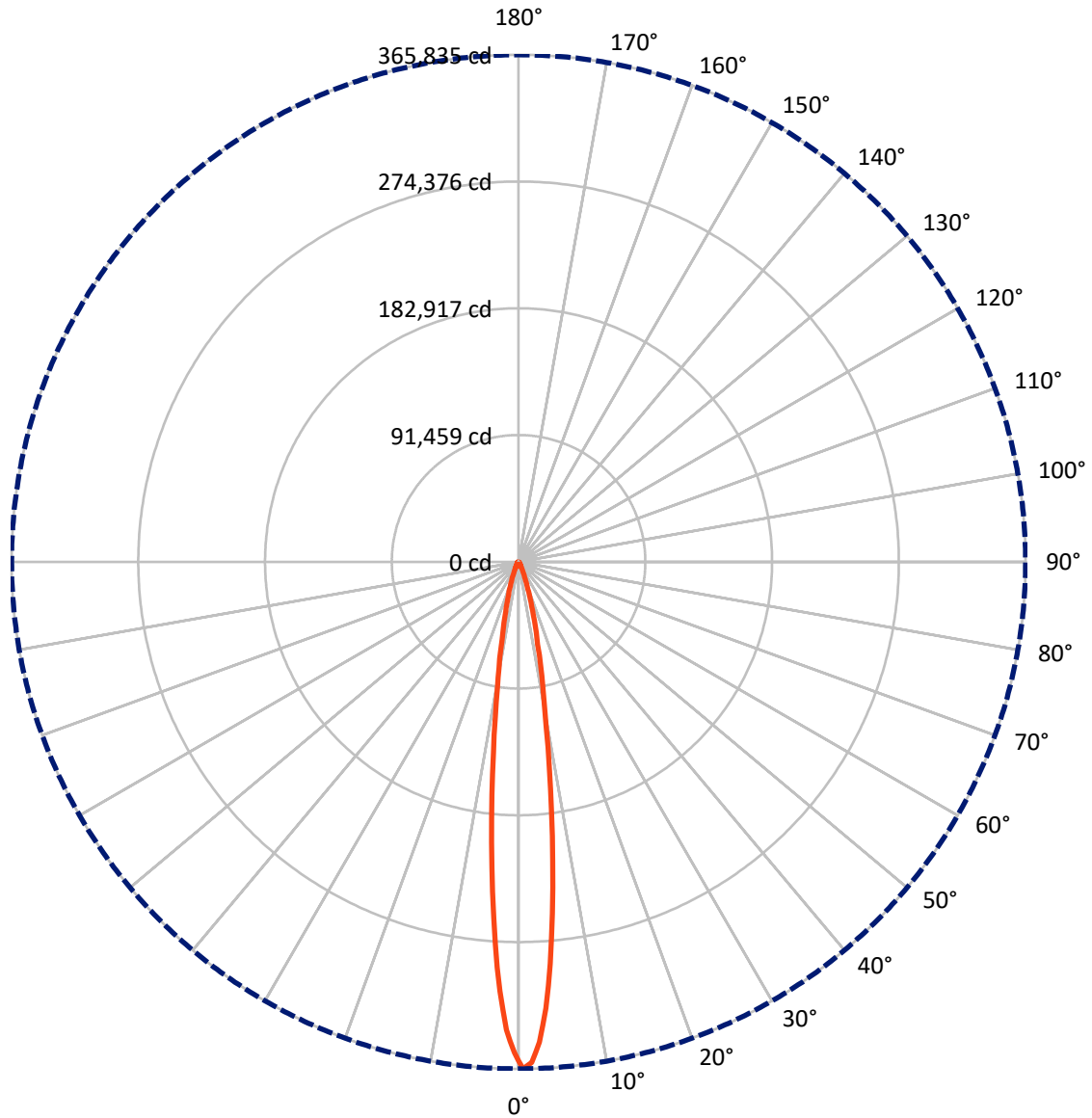
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 914.6 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	18863.3	0.0	18863.3
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	17966.0	0.0	17966.0
	% Fixture	48.8	0.0	48.8
Total	Lumens	36829.3	0.0	36829.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	18592.5	50.5
10°-20°	11902.9	32.3
20°-30°	3577.8	9.7
30°-40°	1164.9	3.2
40°-50°	677.8	1.8
50°-60°	450.2	1.2
60°-70°	271.0	0.7
70°-80°	139.3	0.4
80°-90°	52.9	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°	36829.3	100.0
0°-180°	36829.3	100.0

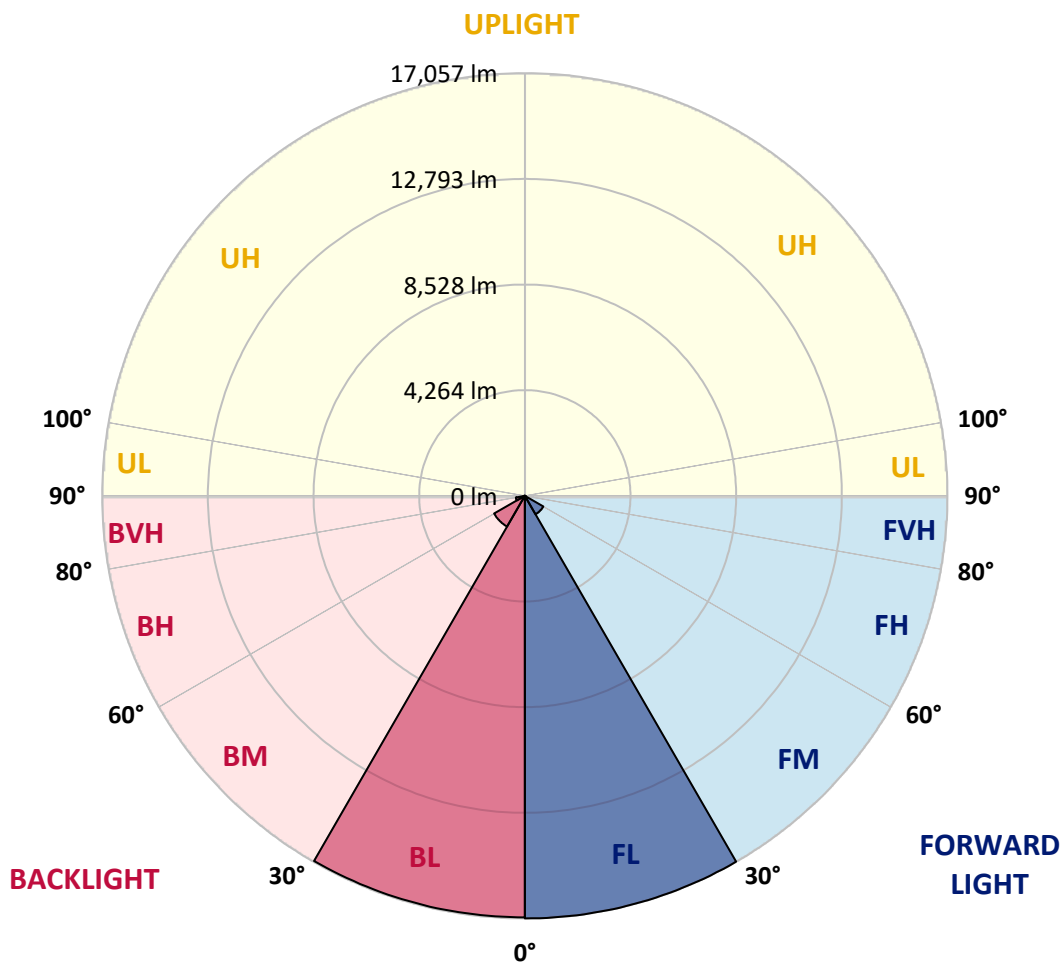


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	17056.8	46.3			
FM (30°-60°)	860.7	2.3			
FH (60°-80°)	40.5	0.1			G0/660
FVH (80°-90°)	8.0	0.0			G0/10
BL (0°-30°)	17016.4	46.2	B5		
BM (30°-60°)	1432.2	3.9	B2/2500		
BH (60°-80°)	369.8	1.0	B1/500		G0/660
BVH (80°-90°)	44.9	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°	365834.5	365834.5	365834.5	365834.5	365834.5	365834.5	365834.5	365834.5	365834.5	365834.5
1°	361454.2	360351.1	357503.0	359528.7	361309.8	360792.3	360756.2	360563.6	360294.9	362404.8
2°	347005.5	346291.4	342079.6	343816.5	346347.6	344502.4	345657.7	344642.8	344662.9	347182.0
3°	322648.8	323037.9	316319.0	319475.9	322993.8	318521.2	319909.1	322516.5	319784.8	318962.5
4°	290991.7	287614.2	283943.8	287152.9	288063.4	285460.1	288019.3	291212.3	287417.6	287586.1
5°	254849.9	252354.8	248010.6	249992.2	247733.8	248556.1	252390.9	253706.7	251059.2	247725.8
6°	217689.2	215916.2	210484.9	213340.9	212538.7	212073.4	216915.0	212903.7	214347.8	212330.1
7°	181074.1	177760.7	175093.2	177828.9	178005.4	176605.5	182891.2	182161.1	179533.7	178924.0
8°	150022.6	146717.3	144458.9	146496.7	147828.4	145630.2	148586.5	150528.0	148474.2	148658.7
9°	121000.8	120419.2	117278.4	119941.9	121389.9	119035.3	122308.5	123010.5	121089.1	122023.7
10°	99351.9	98673.9	96166.9	97245.9	99644.7	96836.8	99977.6	100206.3	98673.9	99111.2
12.5°	61396.9	61124.2	61056.0	61212.4	61180.3	61677.7	62480.0	61565.4	61445.1	59932.8
15°	39683.8	40088.9	39671.7	40474.0	40590.3	41059.7	40570.3	39832.2	38424.2	37726.3
17.5°	24765.8	25283.2	25997.2	27172.5	28347.9	28484.2	27834.4	26968.0	26286.0	25539.9
20°	14248.1	14500.8	14392.5	15800.5	18841.1	19667.4	18829.0	17918.5	17096.2	16342.0
22.5°	8852.9	8760.7	8929.2	9402.5	10393.3	12948.5	12262.5	11352.0	10754.3	10132.5
25°	5427.3	5527.6	5463.4	5724.1	6169.4	7252.4	7408.9	7015.8	6710.9	6390.0
27.5°	3493.8	3493.8	3521.9	3666.3	3971.2	3935.1	4769.4	4464.6	4300.1	4143.7
30°	2426.8	2434.9	2434.9	2519.1	2587.3	2466.9	2683.6	3076.7	3000.5	2880.1
32.5°	1801.1	1825.1	1845.2	1889.3	1833.2	1704.8	1756.9	2214.2	2170.1	2126.0
35°	1371.9	1391.9	1440.1	1464.1	1383.9	1303.7	1255.5	1628.6	1648.6	1636.6
37.5°	998.8	1010.8	1099.1	1191.4	1099.1	1026.9	998.8	1251.5	1347.8	1335.8
40°	766.2	770.2	786.2	890.5	890.5	834.4	842.4	934.6	1103.1	1103.1
42.5°	657.9	657.9	673.9	657.9	661.9	722.0	742.1	754.1	934.6	934.6
45°	569.6	569.6	577.6	537.5	497.4	621.8	637.8	641.8	786.2	806.3
47.5°	477.3	477.3	493.4	441.2	421.2	493.4	537.5	549.5	677.9	694.0
50°	353.0	357.0	405.1	361.0	373.1	381.1	465.3	473.3	573.6	609.7
52.5°	236.7	236.7	244.7	280.8	324.9	312.9	377.1	405.1	457.3	505.4
55°	192.5	192.5	188.5	180.5	240.7	260.7	276.8	336.9	373.1	433.2
57.5°	132.4	140.4	128.4	148.4	156.4	196.6	208.6	264.7	284.8	365.0
60°	16.0	20.1	28.1	108.3	104.3	132.4	156.4	208.6	232.7	280.8
62.5°	4.0	4.0	8.0	20.1	72.2	88.2	124.4	144.4	168.5	216.6
65°	0.0	0.0	4.0	8.0	16.0	48.1	64.2	84.2	120.3	152.4
67.5°	0.0	0.0	4.0	8.0	8.0	20.1	32.1	52.1	64.2	112.3
70°	0.0	0.0	4.0	8.0	8.0	16.0	20.1	24.1	44.1	60.2
72.5°	0.0	0.0	4.0	8.0	12.0	16.0	20.1	20.1	20.1	40.1
75°	0.0	0.0	4.0	8.0	12.0	16.0	20.1	20.1	16.0	16.0
77.5°	0.0	0.0	4.0	8.0	16.0	20.1	24.1	20.1	12.0	12.0
80°	0.0	0.0	4.0	12.0	20.1	28.1	32.1	24.1	12.0	8.0
82.5°	0.0	0.0	8.0	16.0	24.1	32.1	44.1	36.1	16.0	8.0
85°	0.0	0.0	4.0	12.0	24.1	32.1	64.2	44.1	20.1	4.0
87.5°	0.0	0.0	0.0	4.0	4.0	8.0	24.1	16.0	8.0	4.0
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°
365834.5	0°	365834.5	365834.5	365834.5	365834.5	365834.5	365834.5	365834.5	365834.5
359970.0	1°	362485.1	362737.8	361911.4	363191.0	362741.8	360110.4	359239.9	358209.0
345701.8	2°	344642.8	345930.4	345994.6	347414.6	347394.6	344325.9	343375.2	345128.2
320631.2	3°	319660.4	321160.7	319808.8	322332.0	321573.8	317851.3	316884.6	318874.2
288917.8	4°	288055.4	287770.6	287305.3	285869.2	287638.2	285099.1	283185.7	285885.3
252146.3	5°	251640.8	251007.0	250100.5	249675.3	250991.0	249366.4	245431.3	249374.4
215980.4	6°	216245.1	213517.4	213385.1	213148.4	213280.8	208732.0	209004.7	211941.0
176826.1	7°	178695.4	179196.8	178173.9	179814.5	178563.0	175482.3	174295.0	177387.7
149469.0	8°	148426.1	147792.3	147010.1	149461.0	147290.9	145269.2	143885.3	146328.2
122176.2	9°	121947.5	120852.4	120058.2	119933.8	120270.8	116476.1	117246.3	119095.5
99351.9	10°	99388.0	97590.9	98028.1	98144.5	97775.4	95288.4	95312.5	95950.3
60935.6	12.5°	60719.0	59836.5	60057.2	60177.5	60927.6	60053.2	58817.7	57927.2
38420.2	15°	38163.5	37529.7	38825.4	39695.8	39519.3	38741.1	38159.5	37353.2
25539.9	17.5°	25303.3	26133.6	26137.6	26931.9	27012.1	26233.9	25784.6	25058.6
16610.8	20°	16550.6	16895.6	17613.6	18175.2	18500.1	17906.4	17368.9	16871.5
10357.2	22.5°	10357.2	10958.9	11408.1	12138.2	12435.0	12001.8	11620.7	11215.6
6466.2	25°	6357.9	6787.1	7160.2	7794.0	8199.1	7990.5	7641.5	7356.7
4175.8	27.5°	4239.9	4420.5	4605.0	5042.2	5463.4	5347.1	5206.7	5034.2
2944.3	30°	2988.4	3004.5	3201.0	3445.7	3726.5	3798.7	3734.5	3646.3
2162.1	32.5°	2202.2	2266.4	2358.6	2511.1	2699.6	2872.1	2840.0	2799.9
1652.7	35°	1700.8	1797.1	1873.3	1989.6	2089.9	2254.4	2282.4	2270.4
1359.8	37.5°	1387.9	1472.1	1548.4	1616.6	1700.8	1813.1	1901.4	1905.4
1123.2	40°	1151.2	1227.5	1327.7	1379.9	1440.1	1524.3	1632.6	1640.6
950.7	42.5°	970.7	1042.9	1143.2	1207.4	1251.5	1331.8	1440.1	1456.1
814.3	45°	834.4	878.5	982.8	1059.0	1103.1	1155.3	1271.6	1287.6
702.0	47.5°	726.0	770.2	834.4	942.7	982.8	1030.9	1123.2	1151.2
621.8	50°	637.8	681.9	738.1	834.4	894.5	934.6	1010.8	1051.0
541.5	52.5°	565.6	609.7	669.9	746.1	814.3	850.4	922.6	974.7
441.2	55°	473.3	549.5	593.7	661.9	754.1	786.2	842.4	910.6
385.1	57.5°	413.2	477.3	541.5	597.7	689.9	730.1	786.2	850.4
304.9	60°	349.0	409.2	485.4	533.5	621.8	673.9	734.1	794.2
232.7	62.5°	276.8	357.0	409.2	477.3	561.6	629.8	677.9	738.1
180.5	65°	204.6	292.8	353.0	425.2	505.4	577.6	617.7	681.9
128.4	67.5°	148.4	228.6	300.8	369.0	445.3	517.5	557.6	613.7
80.2	70°	116.3	168.5	248.7	308.9	389.1	449.3	493.4	529.5
52.1	72.5°	68.2	128.4	200.6	268.8	341.0	381.1	413.2	445.3
24.1	75°	44.1	100.3	164.5	224.6	276.8	312.9	341.0	369.0
12.0	77.5°	28.1	72.2	132.4	188.5	212.6	256.7	280.8	296.8
8.0	80°	16.0	56.2	116.3	152.4	172.5	200.6	224.6	244.7
8.0	82.5°	12.0	48.1	96.3	128.4	128.4	160.5	172.5	172.5
4.0	85°	8.0	40.1	76.2	120.3	96.3	120.3	112.3	112.3
4.0	87.5°	8.0	28.1	36.1	52.1	44.1	52.1	52.1	60.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
365834.5
354125.5
337703.3
310037.3
276113.8
238985.2
203429.0
168976.0
139352.5
113319.2
91610.1
57385.6
36940.1
24878.1
16699.0
10999.0
7192.3
4933.9
3586.1
2767.8
2230.3
1877.3
1628.6
1444.1
1283.6
1155.3
1055.0
974.7
914.6
854.4
810.3
766.2
694.0
617.7
541.5
453.3
369.0
288.8
220.6
160.5
108.3
60.2
0.0

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