

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: P637159

Luminaire Tested: **IFLD-M-SA4B-750-U-33-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637159  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4B-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: 23233.6 lumens  
Efficiency: N/A  
Efficacy: 139.9 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

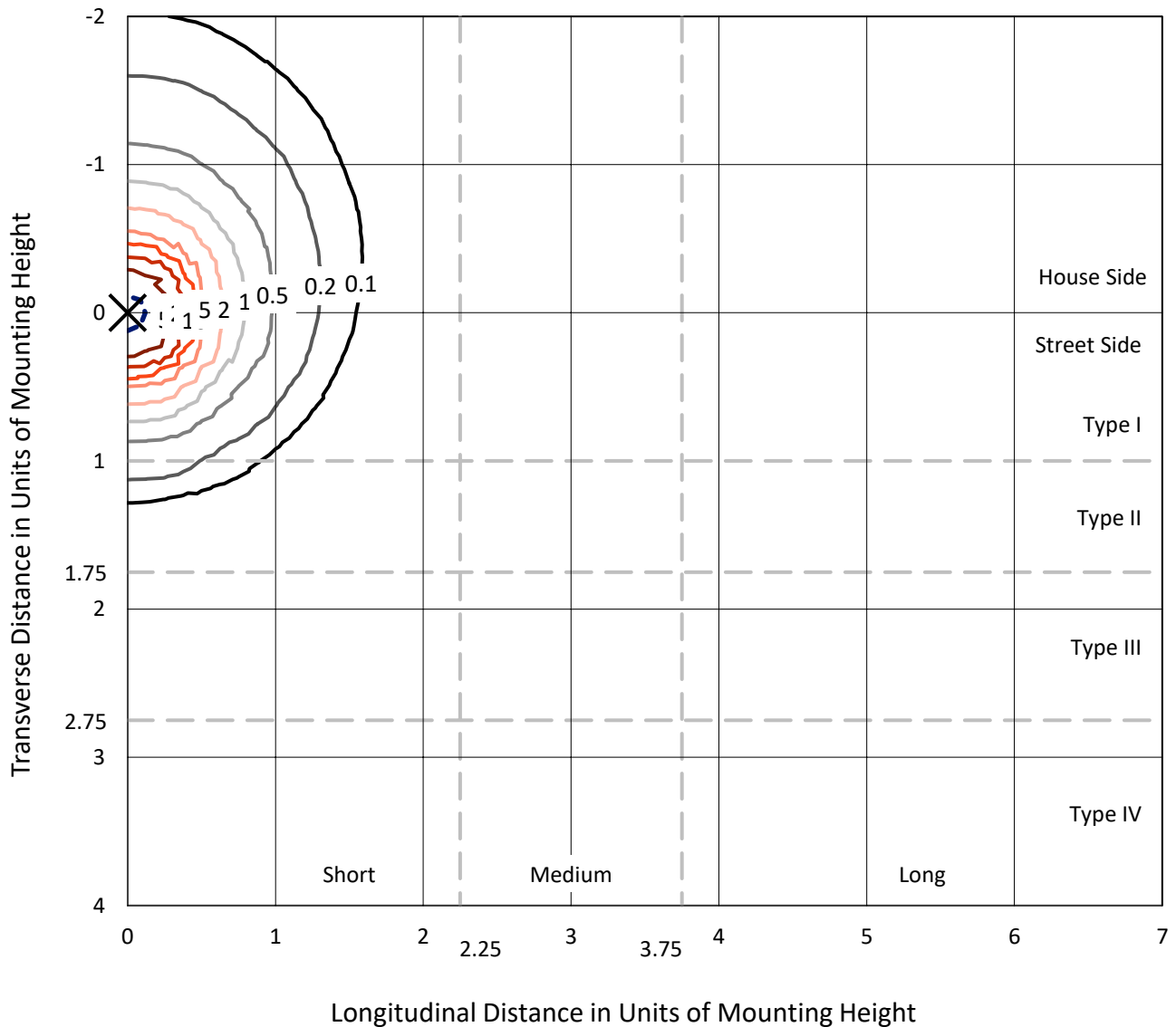
Input Watts (W): 166.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

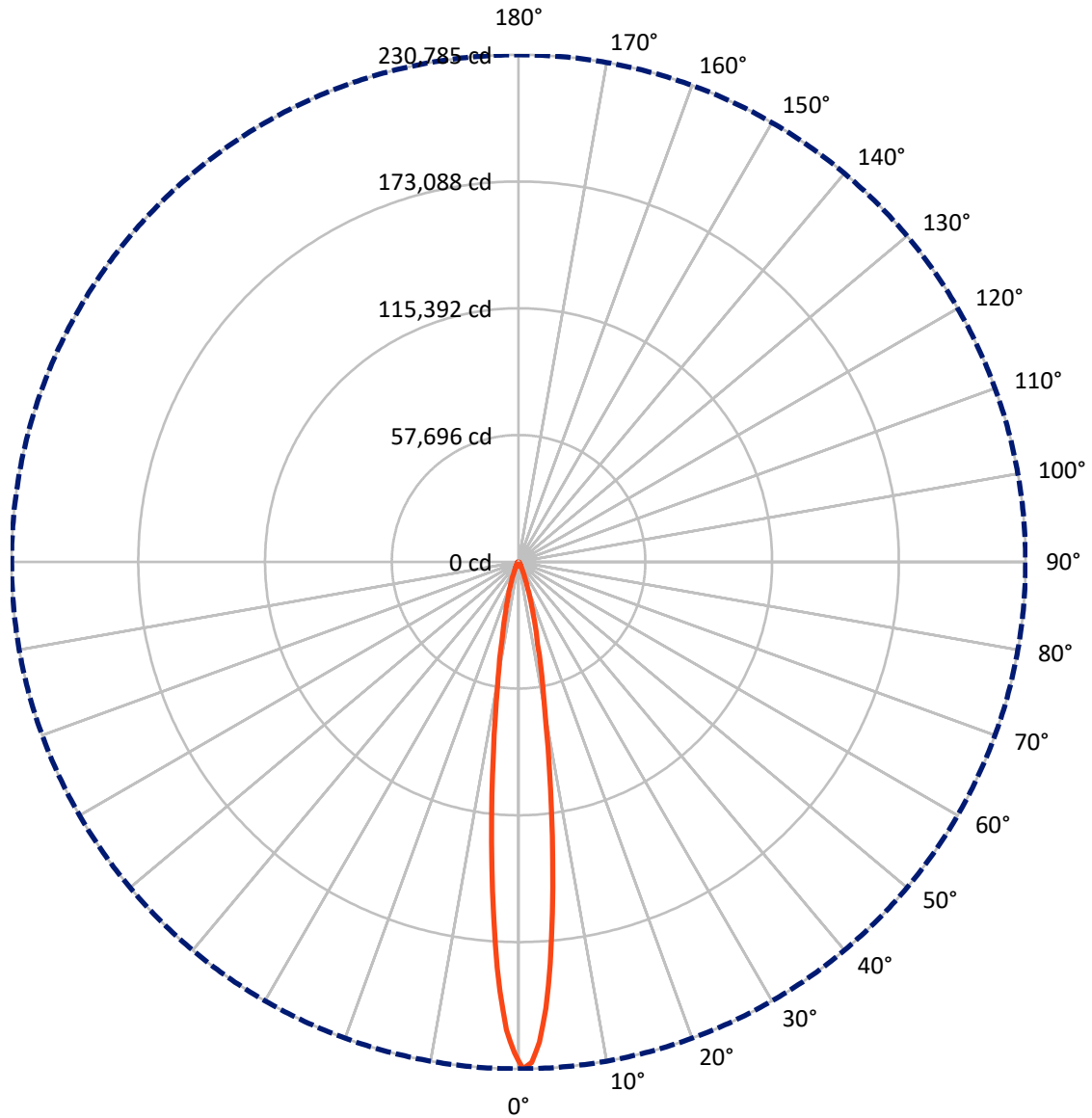
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 577 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
<b>House Side</b>	Lumens	11899.8	0.0	11899.8
	% Fixture	51.2	0.0	51.2
<b>Street Side</b>	Lumens	11333.8	0.0	11333.8
	% Fixture	48.8	0.0	48.8
<b>Total</b>	Lumens	23233.6	0.0	23233.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	11729.0	50.5
10°-20°	7508.9	32.3
20°-30°	2257.0	9.7
30°-40°	734.9	3.2
40°-50°	427.6	1.8
50°-60°	284.0	1.2
60°-70°	171.0	0.7
70°-80°	87.9	0.4
80°-90°	33.4	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°	23233.6	100.0
0°-180°	23233.6	100.0

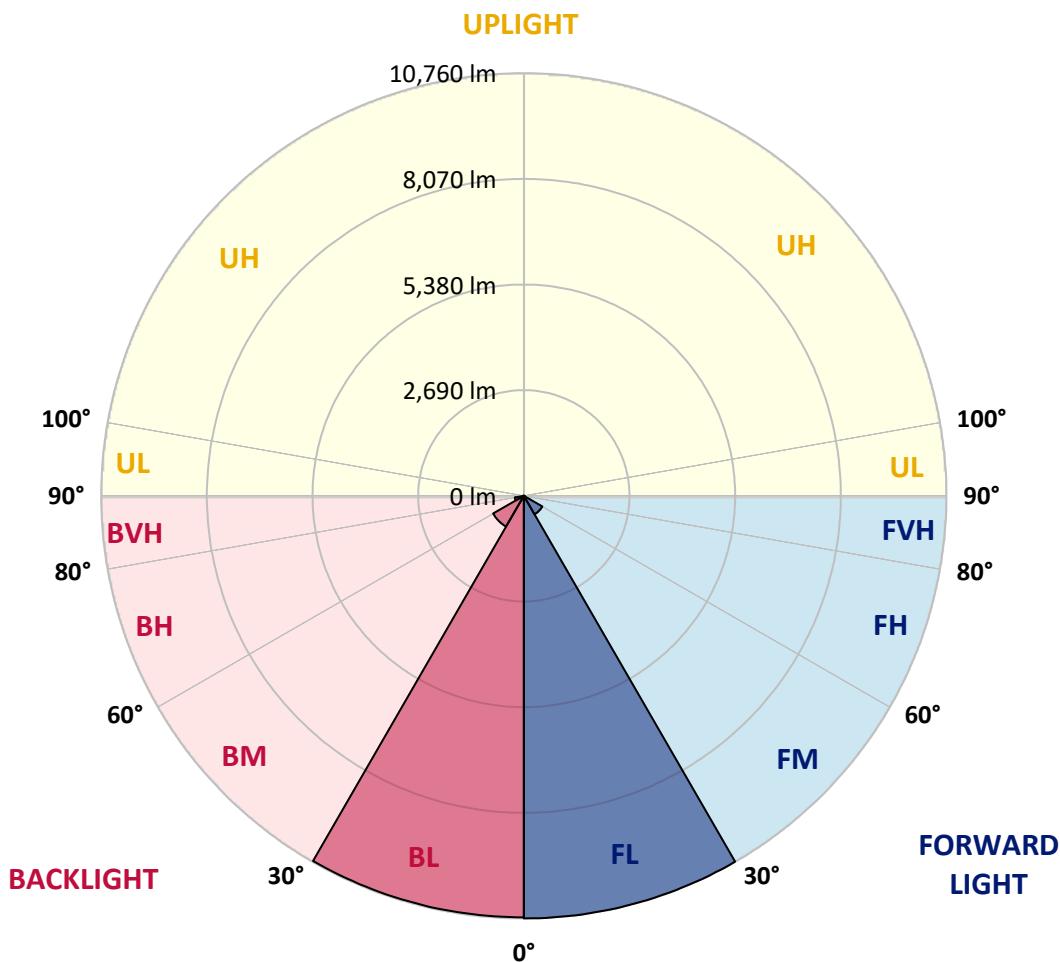


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	10760.2	46.3			
FM (30°-60°)	543.0	2.3			
FH (60°-80°)	25.6	0.1			G0/660
FVH (80°-90°)	5.0	0.0			G0/10
BL (0°-30°)	10734.7	46.2	B5		
BM (30°-60°)	903.5	3.9	B1/1000		
BH (60°-80°)	233.3	1.0	B1/500		G0/660
BVH (80°-90°)	28.4	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°	230784.5	230784.5	230784.5	230784.5	230784.5	230784.5	230784.5	230784.5	230784.5	230784.5
1°	228021.1	227325.3	225528.6	226806.5	227930.0	227603.6	227580.8	227459.4	227289.8	228620.9
2°	218906.3	218455.8	215798.8	216894.5	218491.3	217327.2	218056.0	217415.8	217428.5	219017.6
3°	203541.1	203786.5	199547.9	201539.4	203758.7	200937.2	201812.7	203457.5	201734.3	201215.5
4°	183570.3	181439.6	179124.2	181148.6	181723.1	180080.8	181695.2	183709.5	181315.6	181421.9
5°	160770.5	159196.5	156456.0	157706.0	156281.4	156800.1	159219.3	160049.3	158379.2	156276.3
6°	137327.9	136209.4	132783.1	134584.8	134078.7	133785.2	136839.5	134309.0	135220.0	133947.1
7°	114229.5	112139.3	110456.5	112182.3	112293.6	111410.5	115375.8	114915.2	113257.7	112873.1
8°	94640.8	92555.7	91131.0	92416.5	93256.6	91869.9	93734.9	94959.7	93664.1	93780.5
9°	76332.6	75965.7	73984.3	75664.6	76578.1	75092.7	77157.6	77600.4	76388.3	76977.9
10°	62675.5	62247.9	60666.3	61347.0	62860.2	61088.9	63070.3	63214.5	62247.9	62523.7
12.5°	38731.9	38559.8	38516.8	38615.5	38595.2	38909.0	39415.1	38838.2	38762.3	37808.3
15°	25034.3	25289.9	25026.7	25532.8	25606.2	25902.2	25593.5	25127.9	24239.7	23799.4
17.5°	15623.3	15949.8	16400.2	17141.6	17883.1	17969.1	17559.2	17012.6	16582.4	16111.7
20°	8988.3	9147.8	9079.4	9967.7	11885.8	12407.1	11878.2	11303.8	10785.0	10309.3
22.5°	5584.8	5526.6	5632.9	5931.5	6556.5	8168.5	7735.7	7161.3	6784.3	6392.1
25°	3423.8	3487.0	3446.5	3611.0	3891.9	4575.2	4673.8	4425.9	4233.5	4031.1
27.5°	2204.1	2204.1	2221.8	2312.9	2505.2	2482.4	3008.8	2816.5	2712.7	2614.0
30°	1531.0	1536.0	1536.0	1589.2	1632.2	1556.3	1692.9	1940.9	1892.8	1816.9
32.5°	1136.2	1151.4	1164.0	1191.9	1156.4	1075.5	1108.4	1396.8	1369.0	1341.2
35°	865.4	878.1	908.5	923.6	873.0	822.4	792.0	1027.4	1040.0	1032.4
37.5°	630.1	637.7	693.4	751.6	693.4	647.8	630.1	789.5	850.2	842.7
40°	483.3	485.9	496.0	561.8	561.8	526.3	531.4	589.6	695.9	695.9
42.5°	415.0	415.0	425.1	415.0	417.5	455.5	468.1	475.7	589.6	589.6
45°	359.3	359.3	364.4	339.1	313.8	392.2	402.4	404.9	496.0	508.6
47.5°	301.1	301.1	311.3	278.4	265.7	311.3	339.1	346.7	427.7	437.8
50°	222.7	225.2	255.6	227.7	235.3	240.4	293.5	298.6	361.9	384.6
52.5°	149.3	149.3	154.4	177.1	205.0	197.4	237.9	255.6	288.5	318.8
55°	121.5	121.5	118.9	113.9	151.8	164.5	174.6	212.6	235.3	273.3
57.5°	83.5	88.6	81.0	93.6	98.7	124.0	131.6	167.0	179.7	230.3
60°	10.1	12.7	17.7	68.3	65.8	83.5	98.7	131.6	146.8	177.1
62.5°	2.5	2.5	5.1	12.7	45.5	55.7	78.4	91.1	106.3	136.6
65°	0.0	0.0	2.5	5.1	10.1	30.4	40.5	53.1	75.9	96.2
67.5°	0.0	0.0	2.5	5.1	5.1	12.7	20.2	32.9	40.5	70.9
70°	0.0	0.0	2.5	5.1	5.1	10.1	12.7	15.2	27.8	38.0
72.5°	0.0	0.0	2.5	5.1	7.6	10.1	12.7	12.7	12.7	25.3
75°	0.0	0.0	2.5	5.1	7.6	10.1	12.7	12.7	10.1	10.1
77.5°	0.0	0.0	2.5	5.1	10.1	12.7	15.2	12.7	7.6	7.6
80°	0.0	0.0	2.5	7.6	12.7	17.7	20.2	15.2	7.6	5.1
82.5°	0.0	0.0	5.1	10.1	15.2	20.2	27.8	22.8	10.1	5.1
85°	0.0	0.0	2.5	7.6	15.2	20.2	40.5	27.8	12.7	2.5
87.5°	0.0	0.0	0.0	2.5	2.5	5.1	15.2	10.1	5.1	2.5
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°
230784.5	0°	230784.5	230784.5	230784.5	230784.5	230784.5	230784.5	230784.5	230784.5
227084.9	1°	228671.5	228830.9	228309.6	229116.9	228833.4	227173.4	226624.3	225974.0
218083.9	2°	217415.8	218228.1	218268.6	219164.4	219151.7	217215.9	216616.2	217722.0
202268.2	3°	201655.8	202602.2	201749.5	203341.1	202862.9	200514.6	199904.7	201159.9
182262.1	4°	181718.0	181538.3	181244.8	180338.9	181454.8	179853.0	178646.0	180349.0
159064.9	5°	158746.1	158346.3	157774.4	157506.1	158336.1	157311.3	154828.9	157316.3
136249.9	6°	136416.9	134696.2	134612.7	134463.4	134546.9	131677.3	131849.4	133701.7
111549.7	7°	112728.9	113045.2	112399.9	113434.9	112645.4	110701.9	109952.9	111903.9
94291.6	8°	93633.7	93233.9	92740.4	94286.6	92917.6	91642.2	90769.2	92310.2
77074.1	9°	76929.8	76239.0	75738.0	75659.5	75872.1	73478.2	73964.1	75130.7
62675.5	10°	62698.3	61564.6	61840.4	61913.8	61681.0	60112.1	60127.3	60529.6
38440.9	12.5°	38304.2	37747.5	37886.7	37962.6	38435.8	37884.2	37104.8	36543.0
24237.2	15°	24075.2	23675.4	24492.7	25041.9	24930.5	24439.6	24072.7	23564.0
16111.7	17.5°	15962.4	16486.2	16488.8	16989.8	17040.4	16549.5	16266.1	15808.1
10478.8	20°	10440.9	10658.5	11111.4	11465.7	11670.7	11296.2	10957.1	10643.3
6533.8	22.5°	6533.8	6913.3	7196.8	7657.3	7844.6	7571.3	7330.9	7075.3
4079.2	25°	4010.8	4281.6	4516.9	4916.8	5172.3	5040.8	4820.6	4640.9
2634.3	27.5°	2674.7	2788.6	2905.0	3180.8	3446.5	3373.2	3284.6	3175.8
1857.4	30°	1885.2	1895.3	2019.3	2173.7	2350.8	2396.4	2355.9	2300.2
1363.9	32.5°	1389.2	1429.7	1487.9	1584.1	1703.0	1811.8	1791.6	1766.3
1042.6	35°	1072.9	1133.7	1181.7	1255.1	1318.4	1422.1	1439.9	1432.3
857.8	37.5°	875.6	928.7	976.8	1019.8	1072.9	1143.8	1199.5	1202.0
708.5	40°	726.3	774.3	837.6	870.5	908.5	961.6	1029.9	1035.0
599.7	42.5°	612.4	657.9	721.2	761.7	789.5	840.1	908.5	918.6
513.7	45°	526.3	554.2	620.0	668.1	695.9	728.8	802.2	812.3
442.8	47.5°	458.0	485.9	526.3	594.7	620.0	650.3	708.5	726.3
392.2	50°	402.4	430.2	465.6	526.3	564.3	589.6	637.7	663.0
341.6	52.5°	356.8	384.6	422.6	470.7	513.7	536.5	582.0	614.9
278.4	55°	298.6	346.7	374.5	417.5	475.7	496.0	531.4	574.4
242.9	57.5°	260.6	301.1	341.6	377.0	435.2	460.6	496.0	536.5
192.3	60°	220.2	258.1	306.2	336.6	392.2	425.1	463.1	501.0
146.8	62.5°	174.6	225.2	258.1	301.1	354.3	397.3	427.7	465.6
113.9	65°	129.1	184.7	222.7	268.2	318.8	364.4	389.7	430.2
81.0	67.5°	93.6	144.2	189.8	232.8	280.9	326.4	351.7	387.2
50.6	70°	73.4	106.3	156.9	194.8	245.5	283.4	311.3	334.0
32.9	72.5°	43.0	81.0	126.5	169.5	215.1	240.4	260.6	280.9
15.2	75°	27.8	63.3	103.8	141.7	174.6	197.4	215.1	232.8
7.6	77.5°	17.7	45.5	83.5	118.9	134.1	162.0	177.1	187.3
5.1	80°	10.1	35.4	73.4	96.2	108.8	126.5	141.7	154.4
5.1	82.5°	7.6	30.4	60.7	81.0	81.0	101.2	108.8	108.8
2.5	85°	5.1	25.3	48.1	75.9	60.7	75.9	70.9	70.9
2.5	87.5°	5.1	17.7	22.8	32.9	27.8	32.9	32.9	38.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
230784.5  
223397.9  
213038.0  
195585.2  
174184.7  
150762.3  
128332.0  
106597.5  
87909.7  
71486.7  
57791.6  
36201.4  
23303.4  
15694.2  
10534.5  
6938.6  
4537.2  
3112.5  
2262.3  
1746.0  
1407.0  
1184.3  
1027.4  
911.0  
809.8  
728.8  
665.5  
614.9  
577.0  
539.0  
511.2  
483.3  
437.8  
389.7  
341.6  
285.9  
232.8  
182.2  
139.2  
101.2  
68.3  
38.0  
0.0

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