

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: P637087

Luminaire Tested: **IFLD-S-SA2C-735-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637087
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-735-U-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (32) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13941.3 lumens
Efficiency: N/A
Efficacy: 128.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

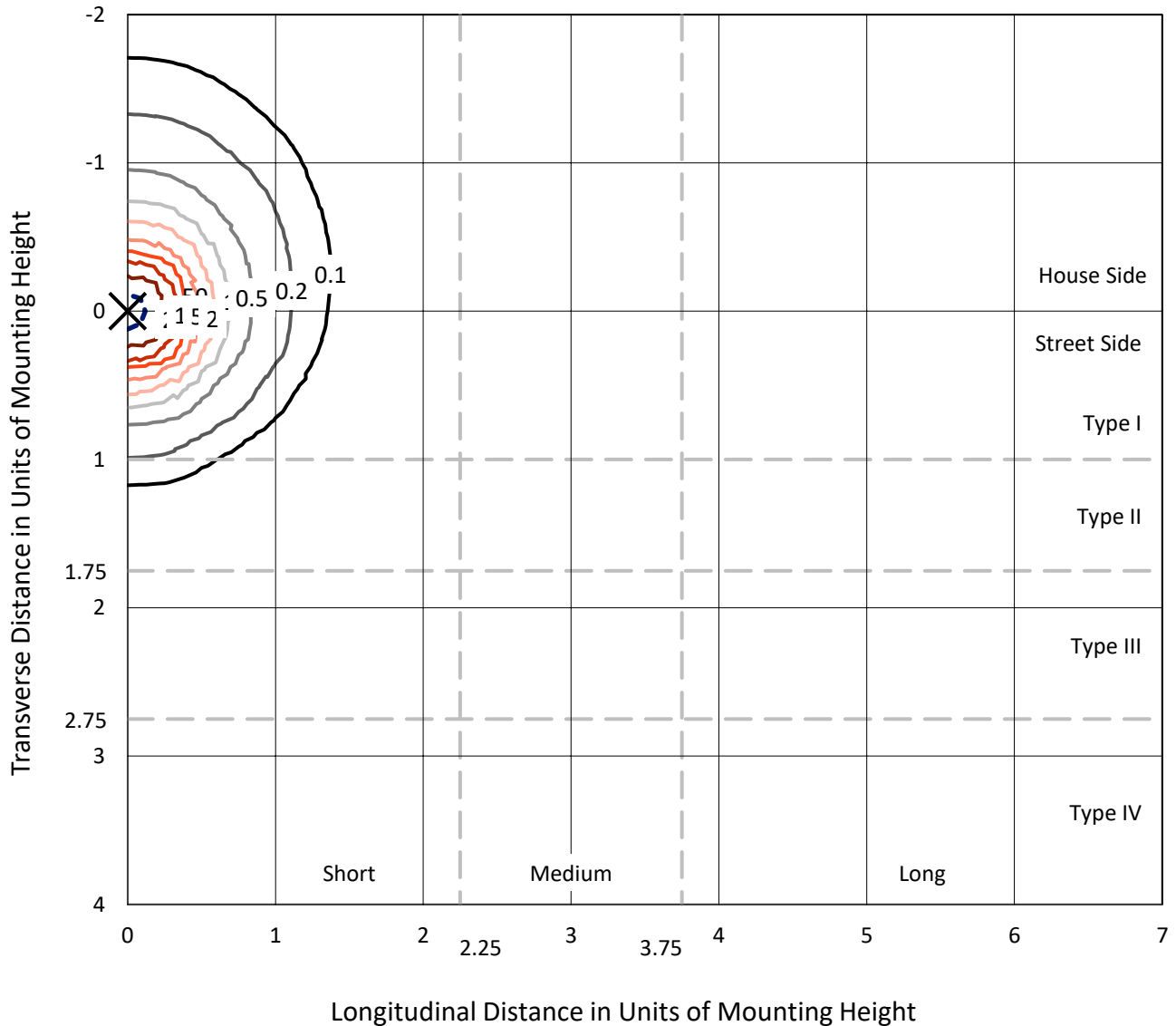
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

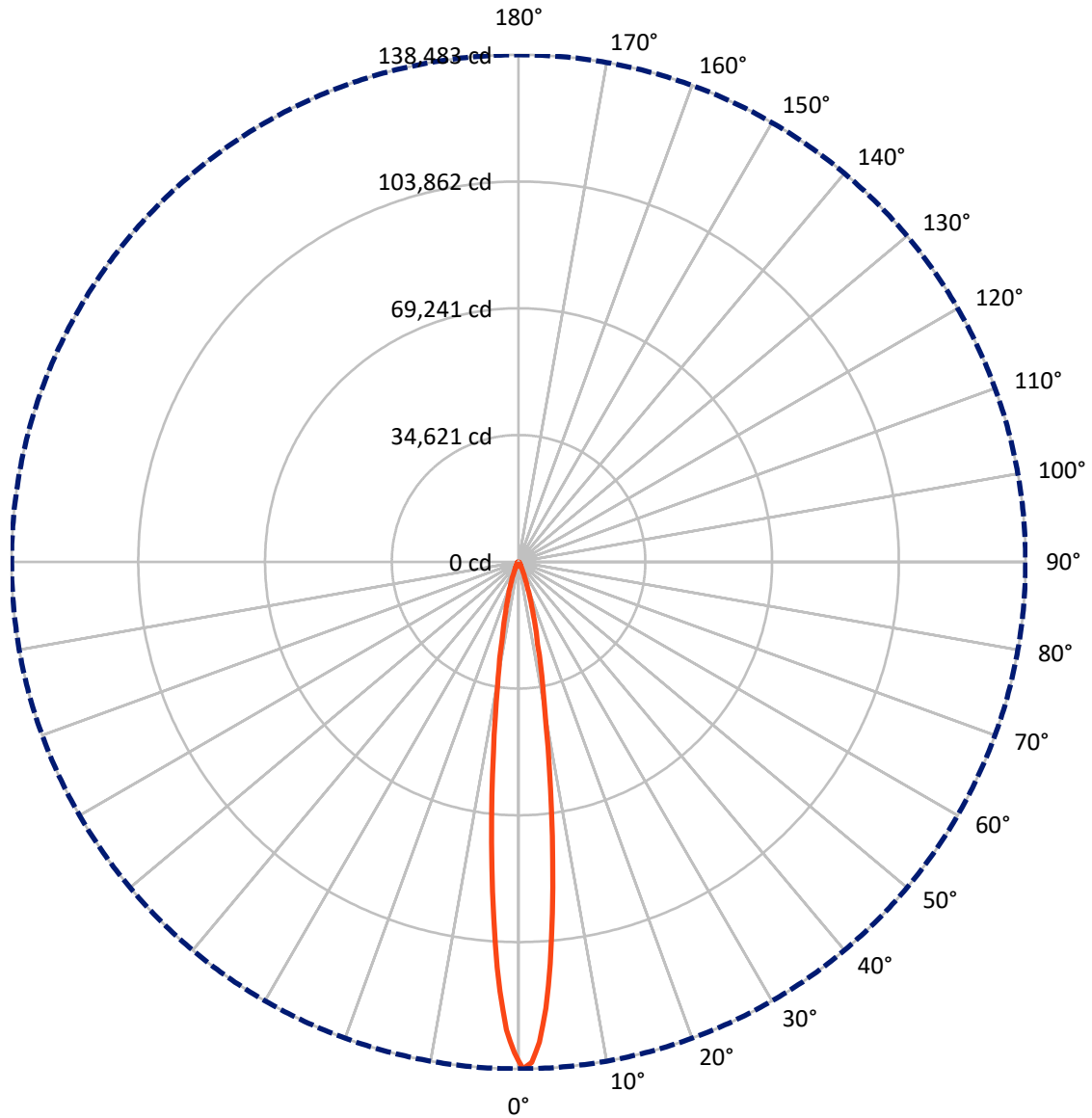
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 346.2 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	7140.5	0.0	7140.5
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	6800.8	0.0	6800.8
	% Fixture	48.8	0.0	48.8
Total	Lumens	13941.3	0.0	13941.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7038.0	50.5
10°-20°	4505.7	32.3
20°-30°	1354.3	9.7
30°-40°	441.0	3.2
40°-50°	256.6	1.8
50°-60°	170.4	1.2
60°-70°	102.6	0.7
70°-80°	52.7	0.4
80°-90°	20.0	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°	13941.3	100.0
0°-180°	13941.3	100.0

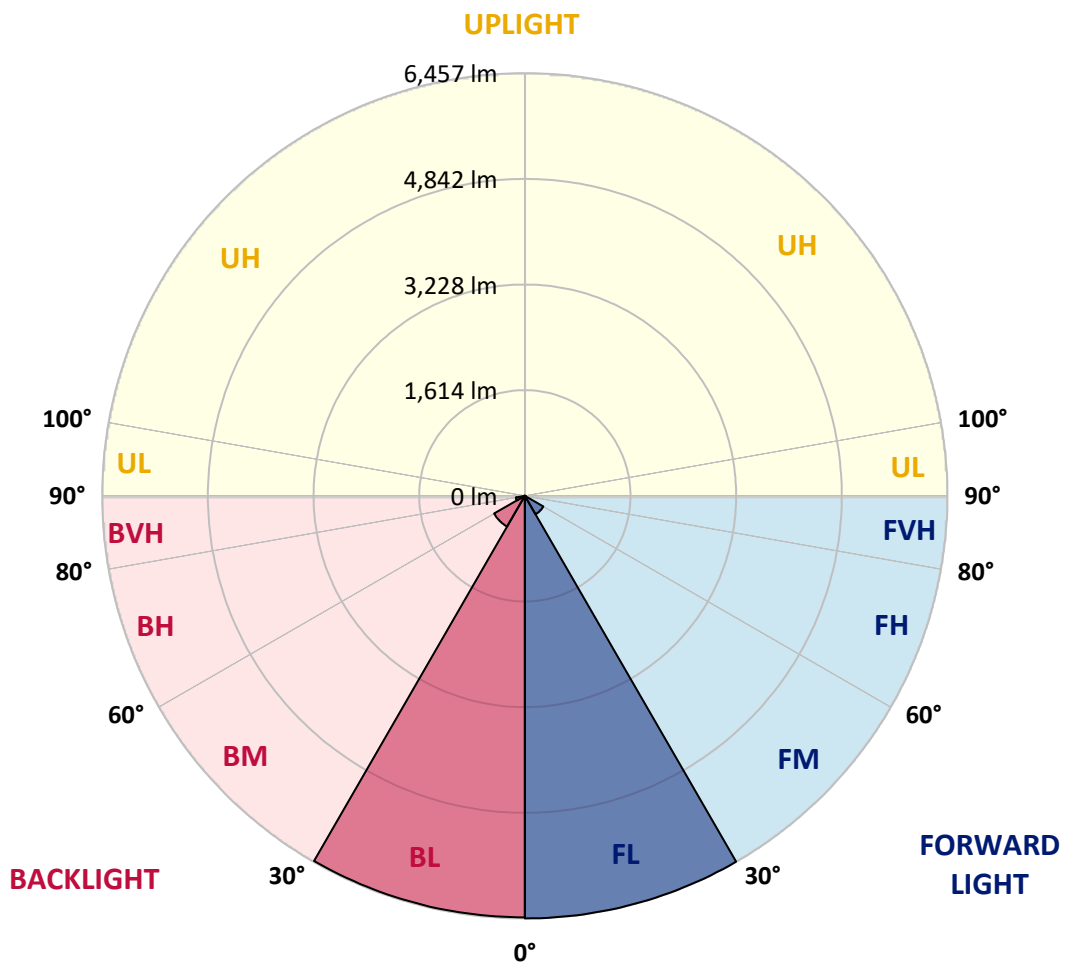


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6456.7	46.3			
FM (30°-60°)	325.8	2.3			
FH (60°-80°)	15.3	0.1			G0/660
FVH (80°-90°)	3.0	0.0			G0/10
BL (0°-30°)	6441.4	46.2	B5		
BM (30°-60°)	542.1	3.9	B1/1000		
BH (60°-80°)	140.0	1.0	B1/500		G0/660
BVH (80°-90°)	17.0	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°	138482.5	138482.5	138482.5	138482.5	138482.5	138482.5	138482.5	138482.5	138482.5	138482.5
1°	136824.4	136406.8	135328.7	136095.5	136769.7	136573.8	136560.2	136487.3	136385.5	137184.2
2°	131355.0	131084.7	129490.3	130147.8	131106.0	130407.5	130844.8	130460.6	130468.2	131421.8
3°	122135.1	122282.3	119739.0	120934.0	122265.6	120572.6	121098.0	122084.9	121050.9	120739.6
4°	110151.6	108873.1	107483.7	108698.5	109043.1	108057.7	109026.4	110235.1	108798.7	108862.4
5°	96470.5	95526.1	93881.6	94631.7	93776.8	94088.1	95539.7	96037.8	95035.6	93773.8
6°	82403.8	81732.6	79676.7	80757.8	80454.1	80278.0	82110.7	80592.3	81138.9	80375.1
7°	68543.5	67289.3	66279.5	67315.1	67381.9	66852.0	69231.4	68955.0	67960.5	67729.6
8°	56789.3	55538.2	54683.3	55454.6	55958.8	55126.7	56245.7	56980.7	56203.2	56273.1
9°	45803.5	45583.3	44394.4	45402.6	45950.8	45059.5	46298.5	46564.2	45836.9	46190.7
10°	37608.5	37351.9	36402.9	36811.3	37719.4	36656.5	37845.4	37931.9	37351.9	37517.4
12.5°	23241.1	23137.9	23112.0	23171.3	23159.1	23347.4	23651.1	23304.9	23259.3	22686.9
15°	15021.8	15175.2	15017.3	15321.0	15365.0	15542.7	15357.4	15078.0	14545.1	14280.9
17.5°	9374.8	9570.7	9841.0	10285.9	10730.8	10782.4	10536.4	10208.4	9950.3	9667.9
20°	5393.5	5489.1	5448.1	5981.1	7132.1	7444.9	7127.5	6782.8	6471.6	6186.1
22.5°	3351.2	3316.3	3380.0	3559.2	3934.3	4901.5	4641.8	4297.2	4070.9	3835.6
25°	2054.4	2092.4	2068.1	2166.8	2335.3	2745.3	2804.5	2655.7	2540.3	2418.9
27.5°	1322.6	1322.6	1333.2	1387.8	1503.2	1489.6	1805.4	1690.0	1627.8	1568.5
30°	918.7	921.7	921.7	953.6	979.4	933.8	1015.8	1164.6	1135.8	1090.2
32.5°	681.8	690.9	698.5	715.2	693.9	645.3	665.1	838.2	821.5	804.8
35°	519.3	526.9	545.1	554.2	523.9	493.5	475.3	616.5	624.1	619.5
37.5°	378.1	382.6	416.1	451.0	416.1	388.7	378.1	473.8	510.2	505.6
40°	290.0	291.5	297.6	337.1	337.1	315.8	318.9	353.8	417.6	417.6
42.5°	249.0	249.0	255.1	249.0	250.5	273.3	280.9	285.5	353.8	353.8
45°	215.6	215.6	218.7	203.5	188.3	235.4	241.4	242.9	297.6	305.2
47.5°	180.7	180.7	186.8	167.0	159.4	186.8	203.5	208.0	256.6	262.7
50°	133.6	135.1	153.4	136.7	141.2	144.3	176.1	179.2	217.1	230.8
52.5°	89.6	89.6	92.6	106.3	123.0	118.4	142.7	153.4	173.1	191.3
55°	72.9	72.9	71.4	68.3	91.1	98.7	104.8	127.5	141.2	164.0
57.5°	50.1	53.1	48.6	56.2	59.2	74.4	79.0	100.2	107.8	138.2
60°	6.1	7.6	10.6	41.0	39.5	50.1	59.2	79.0	88.1	106.3
62.5°	1.5	1.5	3.0	7.6	27.3	33.4	47.1	54.7	63.8	82.0
65°	0.0	0.0	1.5	3.0	6.1	18.2	24.3	31.9	45.6	57.7
67.5°	0.0	0.0	1.5	3.0	3.0	7.6	12.1	19.7	24.3	42.5
70°	0.0	0.0	1.5	3.0	3.0	6.1	7.6	9.1	16.7	22.8
72.5°	0.0	0.0	1.5	3.0	4.6	6.1	7.6	7.6	7.6	15.2
75°	0.0	0.0	1.5	3.0	4.6	6.1	7.6	7.6	6.1	6.1
77.5°	0.0	0.0	1.5	3.0	6.1	7.6	9.1	7.6	4.6	4.6
80°	0.0	0.0	1.5	4.6	7.6	10.6	12.1	9.1	4.6	3.0
82.5°	0.0	0.0	3.0	6.1	9.1	12.1	16.7	13.7	6.1	3.0
85°	0.0	0.0	1.5	4.6	9.1	12.1	24.3	16.7	7.6	1.5
87.5°	0.0	0.0	0.0	1.5	1.5	3.0	9.1	6.1	3.0	1.5
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°	
138482.5	0°	138482.5	138482.5	138482.5	138482.5	138482.5	138482.5	138482.5	138482.5	
136262.5	1°	137214.6	137310.3	136997.5	137481.8	137311.8	136315.7	135986.2	135596.0	135034.1
130861.5	2°	130460.6	130948.0	130972.3	131509.9	131502.3	130340.7	129980.8	130644.3	129349.1
121371.3	3°	121003.8	121571.7	121060.0	122015.1	121728.1	120319.0	119953.1	120706.2	119764.8
109366.6	4°	109040.1	108932.3	108756.2	108212.6	108882.2	107921.0	107196.7	108218.6	106205.2
95447.1	5°	95255.8	95015.9	94672.7	94511.7	95009.8	94394.8	92905.2	94397.9	90806.8
81756.9	6°	81857.1	80824.6	80774.5	80684.9	80735.0	79013.1	79116.4	80227.9	77239.6
66935.5	7°	67643.1	67832.9	67445.7	68066.7	67593.0	66426.8	65977.4	67148.1	65036.0
56579.8	8°	56185.0	55945.1	55649.0	56576.8	55755.3	54990.0	54466.1	55390.9	53822.3
46248.4	9°	46161.8	45747.3	45446.7	45399.6	45527.1	44090.7	44382.2	45082.2	44137.8
37608.5	10°	37622.2	36941.9	37107.4	37151.5	37011.8	36070.3	36079.5	36320.9	35185.1
23066.5	12.5°	22984.5	22650.4	22734.0	22779.5	23063.5	22732.4	22264.8	21927.7	21757.6
14543.5	15°	14446.4	14206.4	14696.9	15026.4	14959.6	14665.0	14444.8	14139.6	13893.7
9667.9	17.5°	9578.3	9892.6	9894.1	10194.8	10225.1	9930.5	9760.5	9485.6	9497.8
6287.8	20°	6265.0	6395.6	6667.4	6880.0	7003.0	6778.3	6574.8	6386.5	6307.6
3920.6	22.5°	3920.6	4148.4	4318.4	4594.8	4707.1	4543.1	4398.9	4245.5	4151.4
2447.7	25°	2406.7	2569.2	2710.4	2950.3	3103.7	3024.7	2892.6	2784.8	2734.7
1580.7	27.5°	1605.0	1673.3	1743.2	1908.7	2068.1	2024.1	1970.9	1905.6	1882.9
1114.5	30°	1131.2	1137.3	1211.7	1304.3	1410.6	1438.0	1413.7	1380.3	1354.4
818.4	32.5°	833.6	857.9	892.8	950.5	1021.9	1087.2	1075.0	1059.9	1047.7
625.6	35°	643.8	680.3	709.1	753.1	791.1	853.4	864.0	859.4	850.3
514.7	37.5°	525.4	557.3	586.1	611.9	643.8	686.3	719.7	721.3	712.1
425.2	40°	435.8	464.6	502.6	522.3	545.1	577.0	618.0	621.0	618.0
359.9	42.5°	367.5	394.8	432.8	457.0	473.8	504.1	545.1	551.2	545.1
308.2	45°	315.8	332.5	372.0	400.9	417.6	437.3	481.3	487.4	485.9
265.7	47.5°	274.8	291.5	315.8	356.8	372.0	390.2	425.2	435.8	435.8
235.4	50°	241.4	258.1	279.4	315.8	338.6	353.8	382.6	397.8	397.8
205.0	52.5°	214.1	230.8	253.6	282.4	308.2	321.9	349.2	369.0	369.0
167.0	55°	179.2	208.0	224.7	250.5	285.5	297.6	318.9	344.7	344.7
145.8	57.5°	156.4	180.7	205.0	226.2	261.2	276.4	297.6	321.9	324.9
115.4	60°	132.1	154.9	183.7	202.0	235.4	255.1	277.9	300.6	306.7
88.1	62.5°	104.8	135.1	154.9	180.7	212.6	238.4	256.6	279.4	288.5
68.3	65°	77.4	110.8	133.6	161.0	191.3	218.7	233.8	258.1	264.2
48.6	67.5°	56.2	86.6	113.9	139.7	168.5	195.9	211.1	232.3	236.9
30.4	70°	44.0	63.8	94.1	116.9	147.3	170.1	186.8	200.4	205.0
19.7	72.5°	25.8	48.6	75.9	101.7	129.1	144.3	156.4	168.5	171.6
9.1	75°	16.7	38.0	62.3	85.0	104.8	118.4	129.1	139.7	141.2
4.6	77.5°	10.6	27.3	50.1	71.4	80.5	97.2	106.3	112.4	109.3
3.0	80°	6.1	21.3	44.0	57.7	65.3	75.9	85.0	92.6	85.0
3.0	82.5°	4.6	18.2	36.4	48.6	48.6	60.7	65.3	65.3	62.3
1.5	85°	3.0	15.2	28.9	45.6	36.4	45.6	42.5	42.5	42.5
1.5	87.5°	3.0	10.6	13.7	19.7	16.7	19.7	19.7	22.8	22.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
138482.5
134050.2
127833.7
117361.1
104519.7
90465.1
77005.7
63963.9
52750.3
42895.7
34677.9
21722.7
13983.2
9417.3
6321.2
4163.5
2722.5
1867.7
1357.5
1047.7
844.2
710.6
616.5
546.6
485.9
437.3
399.3
369.0
346.2
323.4
306.7
290.0
262.7
233.8
205.0
171.6
139.7
109.3
83.5
60.7
41.0
22.8
0.0

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