

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: P637359

Luminaire Tested: **IFLD-S-SA6D-735-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637359
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-735-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (96) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43493.8 lumens
Efficiency: N/A
Efficacy: 118.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

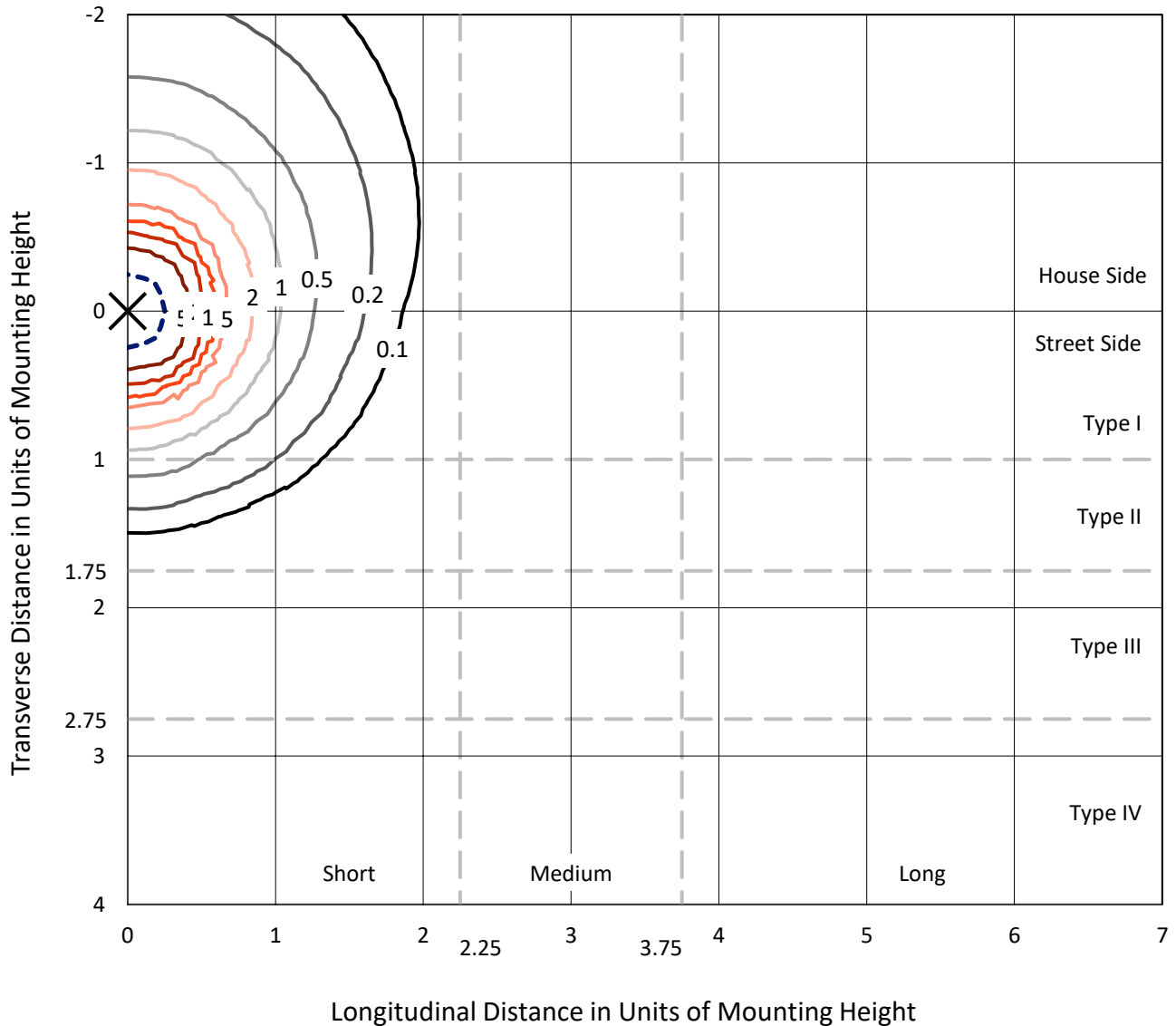
Input Watts (W): 368.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

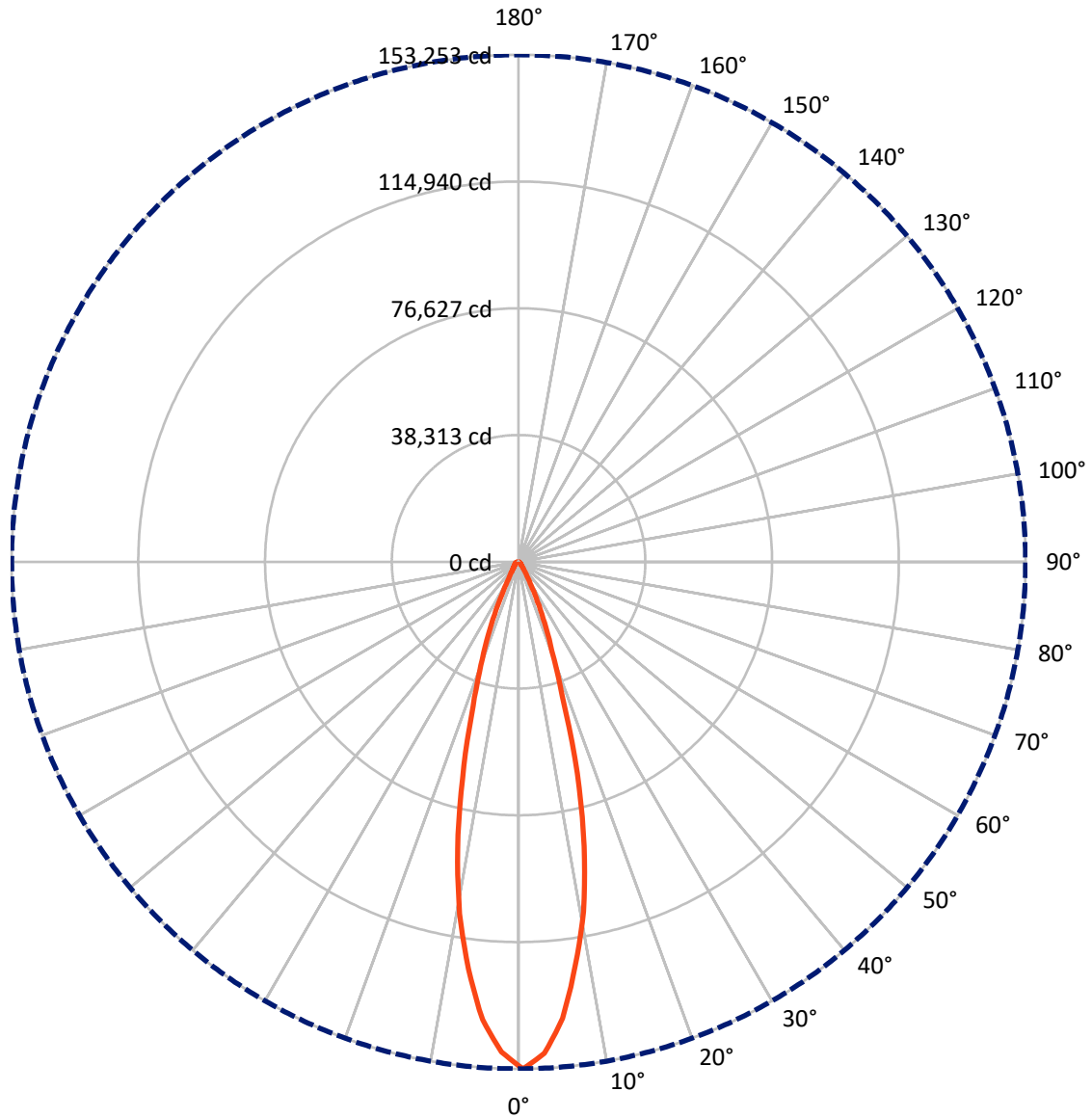
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 383.1 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	22932.9	0.0	22932.9
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	20560.9	0.0	20560.9
	% Fixture	47.3	0.0	47.3
Total	Lumens	43493.8	0.0	43493.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12368.9	28.4
10°-20°	18732.6	43.1
20°-30°	7905.3	18.2
30°-40°	2061.8	4.7
40°-50°	1042.8	2.4
50°-60°	681.6	1.6
60°-70°	408.4	0.9
70°-80°	214.8	0.5
80°-90°	77.6	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°	43493.8	100.0
0°-180°	43493.8	100.0



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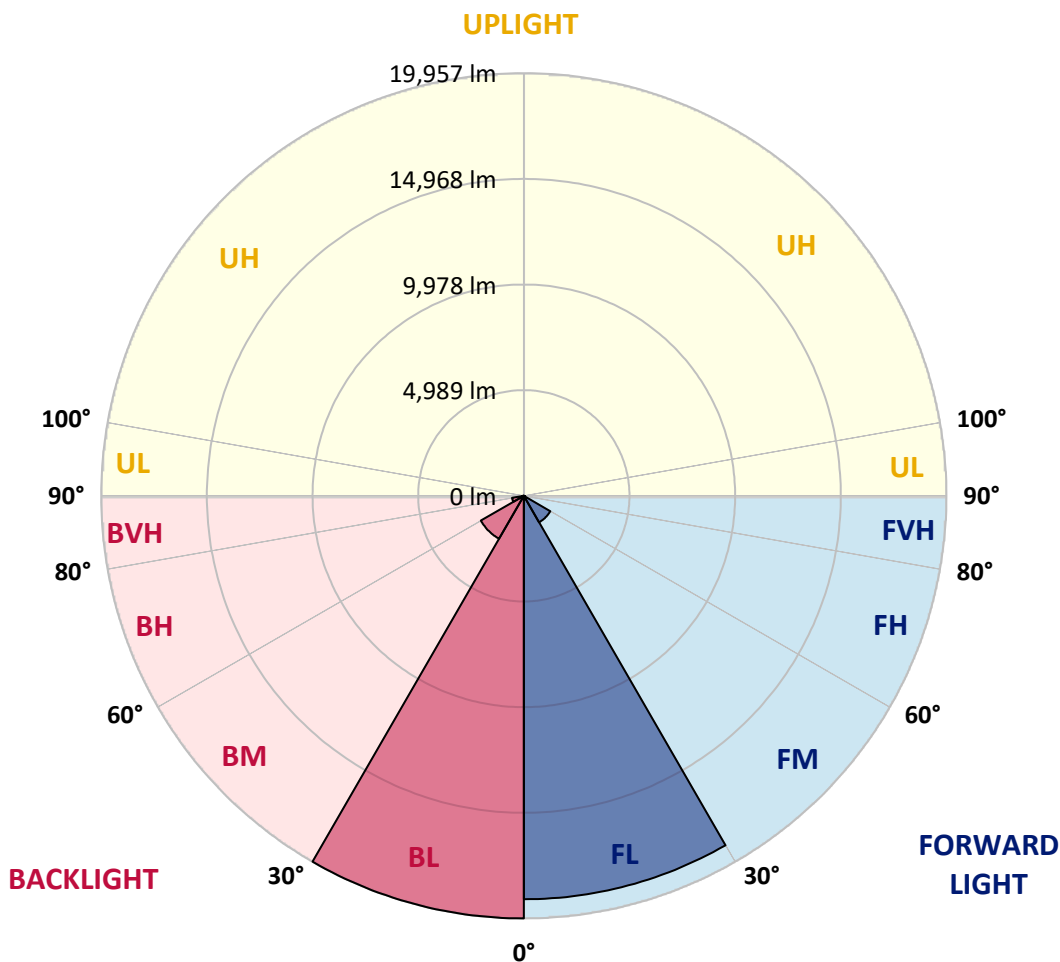
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	19050.0	43.8			
FM (30°-60°)	1442.7	3.3			
FH (60°-80°)	58.8	0.1			G0/660
FVH (80°-90°)	9.4	0.0			G0/10
BL (0°-30°)	19956.8	45.9	B5		
BM (30°-60°)	2343.5	5.4	B2/2500		
BH (60°-80°)	564.4	1.3	B2/1000		G0/660
BVH (80°-90°)	68.2	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°	153253.3	153253.3	153253.3	153253.3	153253.3	153253.3	153253.3	153253.3	153253.3	153253.3
2.5°	148789.0	148872.0	148564.3	149228.6	148710.8	150098.0	149409.3	150483.9	150122.4	150723.2
5°	138629.4	138492.6	138404.7	139435.3	139137.4	140627.1	139674.7	139362.1	140329.2	140153.3
7.5°	123287.5	123648.9	123443.8	123712.4	123863.8	125563.6	126100.9	125680.8	125695.5	125939.7
10°	107559.6	107027.2	106270.2	106773.3	107838.1	108580.5	108282.5	108898.0	108761.2	109342.5
12.5°	88207.6	88627.7	88202.7	87753.4	89614.3	89409.2	89926.9	90263.9	89418.9	91299.4
15°	66442.7	66662.5	67180.2	67146.0	68577.1	68865.3	68796.9	69153.5	68494.1	68806.7
17.5°	42684.9	43427.3	44819.4	47173.7	49821.0	50128.7	50050.6	49757.5	49440.0	49088.3
20°	28671.5	28593.3	29096.4	29785.1	35265.5	36716.1	36672.2	35753.9	34425.3	34171.3
22.5°	20084.7	20231.2	20162.9	20846.7	21979.9	25980.2	25486.9	24553.9	24119.2	23835.9
25°	13212.3	13158.6	13500.5	13705.7	14677.7	15166.1	16895.2	16548.4	15879.2	15952.5
27.5°	8054.4	8122.8	8249.8	8425.6	9114.3	8958.0	9944.7	10076.5	9861.6	9632.1
30°	4943.0	4991.9	5094.4	5221.4	5460.8	5289.8	5563.3	6037.1	5959.0	5797.8
32.5°	3355.6	3360.5	3433.7	3482.6	3453.3	3292.1	3380.0	3829.4	3839.1	3824.5
35°	2412.9	2412.9	2481.3	2520.4	2437.3	2305.4	2320.1	2598.5	2720.6	2745.0
37.5°	1665.6	1670.5	1787.7	1904.9	1812.1	1777.9	1719.3	1904.9	2100.3	2129.6
40°	1265.1	1260.2	1318.8	1406.7	1416.5	1353.0	1372.5	1489.7	1690.0	1714.4
42.5°	1025.7	1030.6	1059.9	1050.1	1055.0	1138.1	1167.4	1221.1	1406.7	1450.7
45°	864.5	869.4	884.1	835.2	815.7	942.7	981.8	1011.1	1167.4	1221.1
47.5°	713.1	722.9	737.5	683.8	674.0	757.1	825.5	854.8	991.5	1050.1
50°	512.9	522.6	576.4	547.1	576.4	595.9	688.7	732.7	825.5	903.6
52.5°	371.2	381.0	395.6	400.5	473.8	483.6	551.9	620.3	664.3	752.2
55°	293.1	302.8	293.1	283.3	346.8	400.5	424.9	498.2	532.4	635.0
57.5°	166.1	175.8	190.5	219.8	229.6	307.7	332.1	395.6	424.9	522.6
60°	29.3	34.2	53.7	131.9	161.2	195.4	249.1	302.8	341.9	410.3
62.5°	4.9	4.9	9.8	29.3	92.8	136.8	180.7	214.9	249.1	312.6
65°	0.0	0.0	4.9	9.8	24.4	78.2	97.7	127.0	171.0	224.7
67.5°	0.0	0.0	4.9	9.8	14.7	29.3	44.0	78.2	97.7	151.4
70°	0.0	0.0	4.9	9.8	14.7	19.5	24.4	34.2	58.6	92.8
72.5°	0.0	0.0	4.9	9.8	14.7	19.5	24.4	29.3	29.3	58.6
75°	0.0	0.0	4.9	9.8	14.7	24.4	29.3	29.3	24.4	24.4
77.5°	0.0	0.0	4.9	9.8	19.5	29.3	34.2	29.3	19.5	19.5
80°	0.0	0.0	9.8	14.7	24.4	34.2	44.0	34.2	19.5	9.8
82.5°	0.0	0.0	9.8	19.5	24.4	39.1	53.7	44.0	19.5	9.8
85°	0.0	0.0	4.9	14.7	29.3	39.1	53.7	39.1	19.5	4.9
87.5°	0.0	0.0	4.9	4.9	9.8	14.7	29.3	24.4	9.8	4.9
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°
153253.3	0°	153253.3	153253.3	153253.3	153253.3	153253.3	153253.3	153253.3	153253.3	153253.3
149585.1	2.5°	150444.8	151226.3	151387.5	151172.6	151485.2	150923.5	150493.6	149380.0	148710.8
140099.6	5°	141003.2	140886.0	141701.7	141970.3	141936.1	141506.3	140905.5	140231.5	139577.0
125465.9	7.5°	126247.4	126398.8	127141.3	127615.0	127375.7	126838.4	126423.2	125915.3	125475.7
109552.5	10°	110553.8	109513.4	110436.6	110436.6	111076.4	109557.4	109699.0	108419.3	108477.9
91265.2	12.5°	91577.8	91953.9	92105.4	92540.1	91792.8	90986.8	90000.2	89804.8	89194.3
68210.8	15°	69192.6	70267.2	69344.0	70921.7	70159.7	69319.6	69168.2	67654.0	68132.7
49474.2	17.5°	49230.0	50416.9	50788.1	51691.7	50998.1	50499.9	49869.9	49410.7	49376.5
34635.4	20°	34908.9	36100.7	36374.2	37458.6	37380.4	37224.1	36691.7	36110.5	35480.4
23577.1	22.5°	23933.6	24905.6	25814.1	27274.6	27250.1	26791.0	26737.3	25916.7	25931.3
15928.1	25°	16094.1	16802.4	17017.3	18511.9	18678.0	18629.1	18350.7	17588.8	17876.9
9729.7	27.5°	9739.5	10359.8	11087.6	11615.1	12113.3	12035.2	11756.8	11331.8	11146.2
5846.6	30°	6002.9	6281.4	6550.0	7185.0	7482.9	7639.2	7507.3	7111.7	7141.0
3848.9	32.5°	3932.0	4166.4	4361.8	4762.3	4918.6	5206.8	5153.1	5070.0	4972.3
2769.5	35°	2867.2	3038.1	3170.0	3355.6	3555.9	3800.1	3839.1	3805.0	3765.9
2139.4	37.5°	2188.2	2364.1	2515.5	2593.6	2749.9	2940.4	3047.9	3043.0	3013.7
1743.7	40°	1777.9	1909.8	2046.6	2149.1	2256.6	2398.2	2530.1	2544.8	2544.8
1465.3	42.5°	1484.9	1597.2	1734.0	1841.4	1919.6	2051.5	2188.2	2198.0	2188.2
1240.6	45°	1269.9	1367.6	1499.5	1626.5	1690.0	1787.7	1919.6	1948.9	1929.3
1064.8	47.5°	1103.9	1191.8	1304.1	1440.9	1509.3	1597.2	1719.3	1753.5	1748.6
918.3	50°	947.6	1050.1	1162.5	1274.8	1362.8	1445.8	1563.0	1602.1	1587.4
781.5	52.5°	835.2	928.0	1025.7	1147.8	1250.4	1323.7	1416.5	1484.9	1465.3
659.4	55°	698.5	810.8	913.4	1016.0	1143.0	1221.1	1309.0	1392.1	1372.5
556.8	57.5°	605.7	698.5	815.7	908.5	1035.5	1128.3	1216.2	1304.1	1299.3
454.3	60°	508.0	605.7	718.0	815.7	932.9	1035.5	1123.4	1221.1	1230.9
341.9	62.5°	400.5	517.7	615.4	727.8	845.0	957.3	1035.5	1133.2	1147.8
258.9	65°	302.8	424.9	532.4	639.9	757.1	879.2	947.6	1030.6	1045.3
190.5	67.5°	224.7	327.3	454.3	551.9	674.0	791.3	854.8	923.2	947.6
117.2	70°	171.0	249.1	381.0	473.8	600.8	693.6	762.0	820.6	840.1
78.2	72.5°	107.5	195.4	307.7	405.4	517.7	600.8	649.6	683.8	713.1
44.0	75°	73.3	151.4	249.1	346.8	429.8	493.3	537.3	566.6	591.0
19.5	77.5°	44.0	117.2	205.1	288.2	341.9	390.8	434.7	454.3	468.9
14.7	80°	24.4	87.9	171.0	234.5	268.6	302.8	337.0	361.4	371.2
9.8	82.5°	14.7	68.4	136.8	180.7	195.4	229.6	263.8	278.4	278.4
4.9	85°	9.8	48.8	92.8	131.9	141.6	166.1	175.8	185.6	195.4
4.9	87.5°	9.8	29.3	58.6	73.3	78.2	87.9	92.8	102.6	112.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
153253.3
148217.5
138844.3
123985.9
107906.4
88637.4
67654.0
48468.0
35206.8
25648.0
17422.7
10985.0
7014.0
4938.1
3751.2
2999.0
2515.5
2178.4
1929.3
1738.9
1577.7
1460.4
1382.3
1304.1
1235.8
1157.6
1059.9
957.3
849.9
708.2
586.1
464.0
361.4
273.5
190.5
107.5
0.0

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