

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: P637999

Luminaire Tested: **IFLD-M-SA4A-827-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637999
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-827-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (64) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11446.9 lumens
Efficiency: N/A
Efficacy: 89.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G1

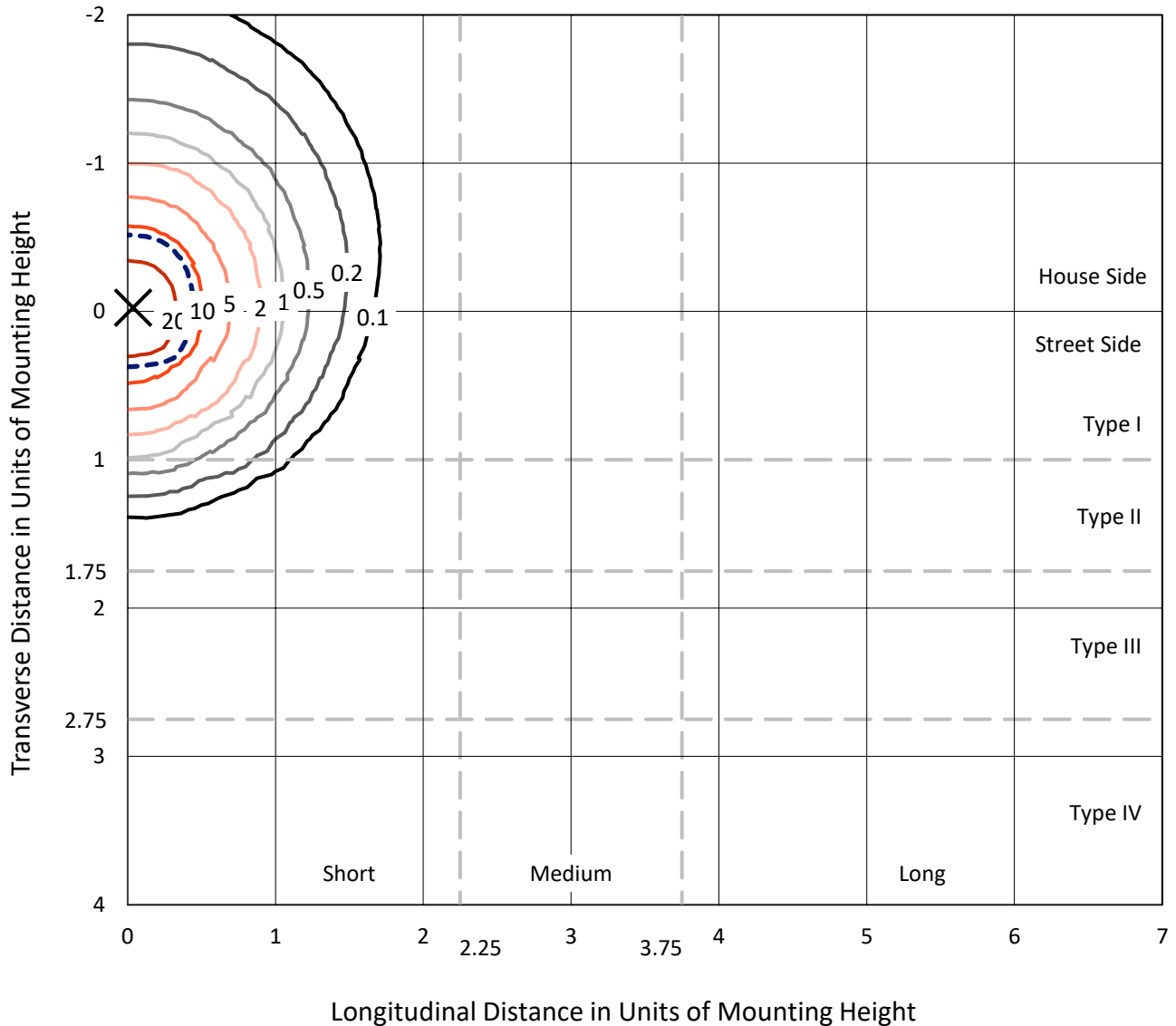
Input Watts (W): 128.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

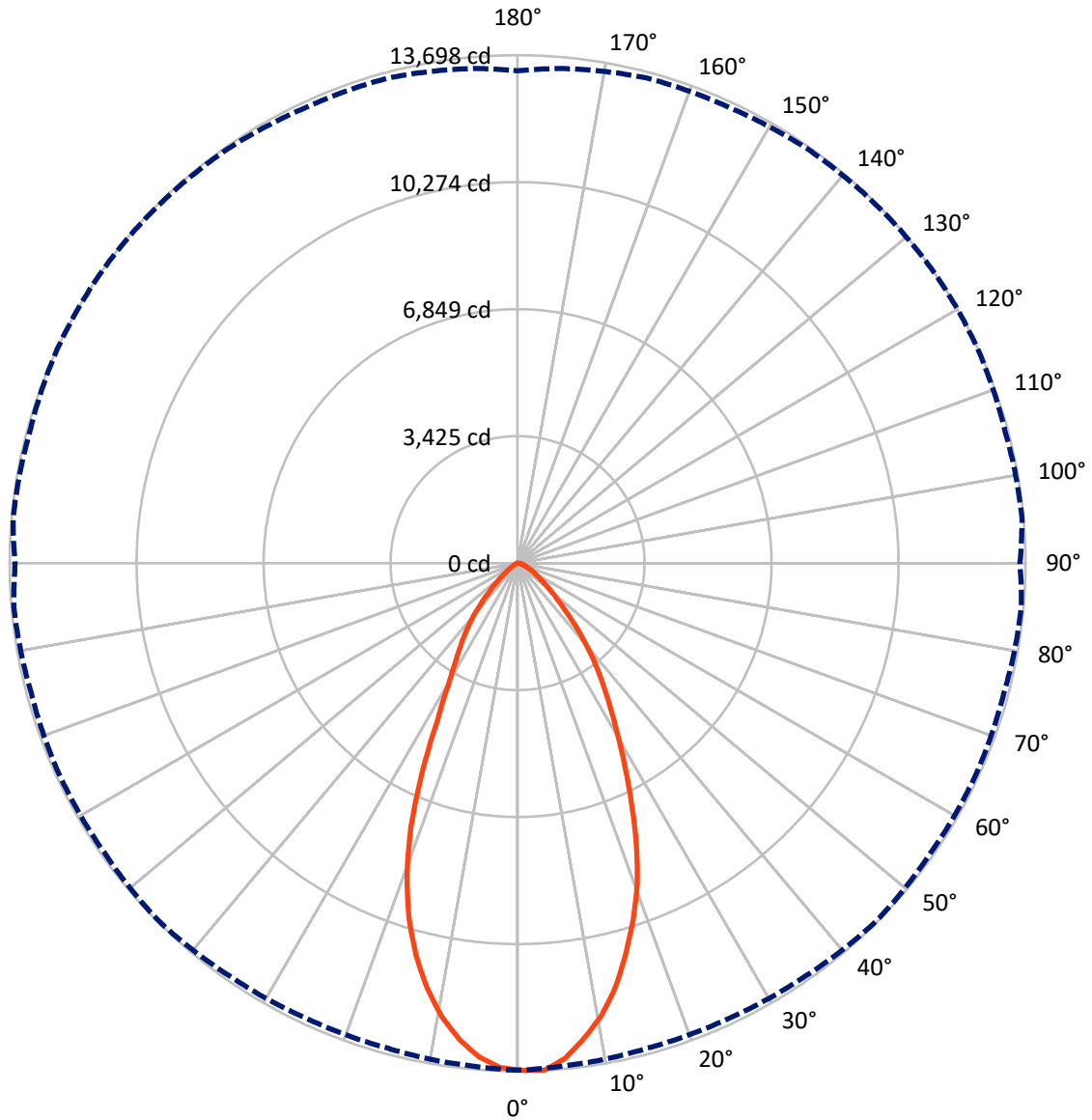
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 34.2 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 125-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6495.4	0.0	6495.4
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	4951.5	0.0	4951.5
	% Fixture	43.3	0.0	43.3
Total	Lumens	11446.9	0.0	11446.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1241.9	10.8
10°-20°	2960.3	25.9
20°-30°	3015.0	26.3
30°-40°	2248.3	19.6
40°-50°	1174.6	10.3
50°-60°	494.0	4.3
60°-70°	201.8	1.8
70°-80°	84.9	0.7
80°-90°	26.2	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°	11446.9	100.0
0°-180°	11446.9	100.0



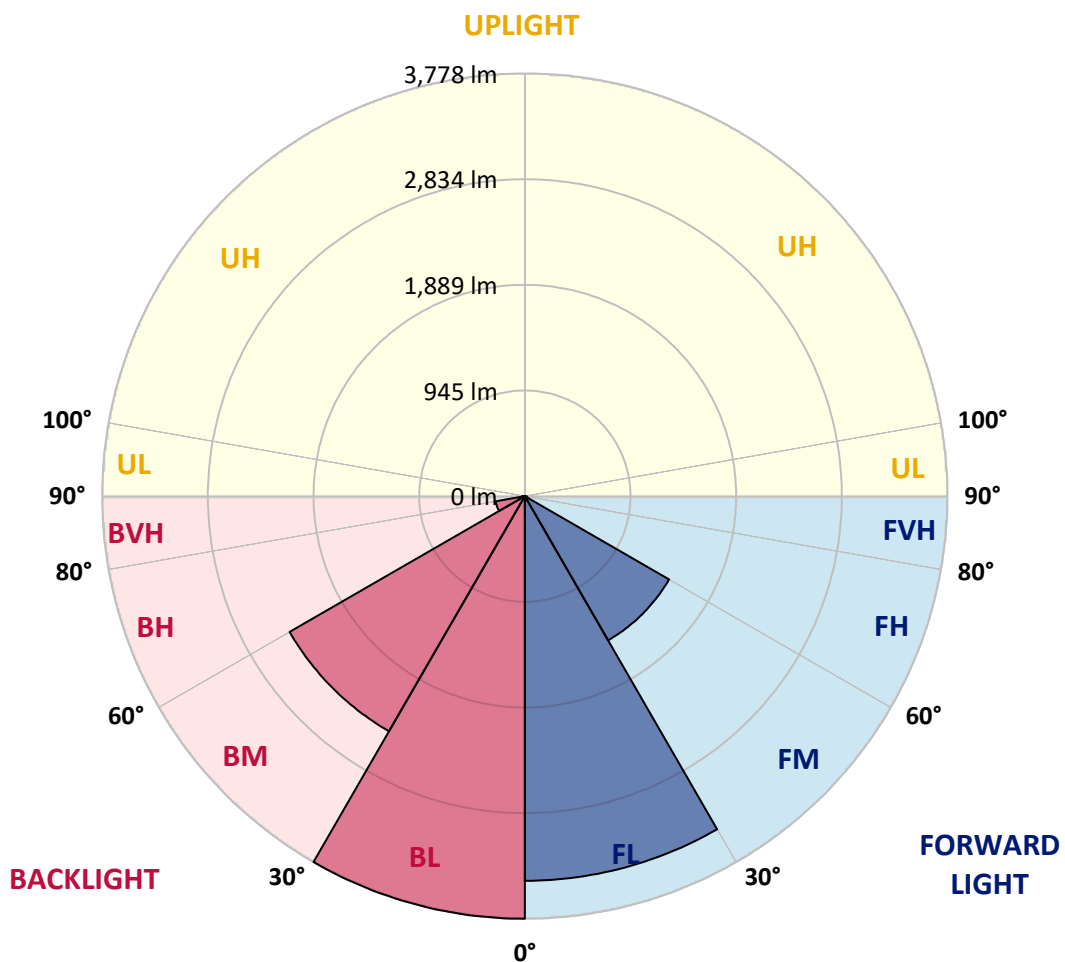
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3438.8	30.0			
FM (30°-60°)	1488.7	13.0			
FH (60°-80°)	21.5	0.2			G0/660
FVH (80°-90°)	2.4	0.0			G0/10
BL (0°-30°)	3778.4	33.0	B4/5000		
BM (30°-60°)	2428.2	21.2	B2/2500		
BH (60°-80°)	265.1	2.3	B1/500		G1/500
BVH (80°-90°)	23.7	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	13676.3	13676.3	13676.3	13676.3	13676.3	13676.3	13676.3	13676.3	13676.3	13676.3
2.5°	13677.8	13621.9	13542.5	13535.1	13576.3	13666.0	13608.6	13611.6	13576.3	13636.6
5°	13463.1	13410.1	13355.7	13283.7	13344.0	13382.2	13352.8	13320.4	13274.9	13333.7
7.5°	13057.2	13027.8	12947.0	12914.6	12951.4	12994.0	12930.8	12922.0	12858.7	12935.2
10°	12436.7	12425.0	12345.6	12326.5	12358.8	12423.5	12395.6	12389.7	12350.0	12342.6
12.5°	11792.7	11747.1	11648.6	11642.7	11691.2	11788.3	11713.3	11641.2	11663.3	11682.4
15°	10134.1	10085.5	10329.6	10713.4	10914.9	10907.5	10929.6	10842.8	10816.3	10825.2
17.5°	8056.4	7974.0	8062.3	8656.3	9613.5	10169.4	10016.4	9829.7	9729.7	9663.5
20°	6953.6	6958.0	6941.8	7094.7	7691.7	8959.2	8922.5	8562.2	8431.3	8376.9
22.5°	6283.1	6258.1	6222.8	6271.3	6431.6	7175.6	7674.1	7343.2	7297.6	7237.4
25°	5625.8	5625.8	5583.1	5631.7	5677.3	5687.5	6187.5	6322.8	6234.5	6234.5
27.5°	5056.7	5027.3	5008.2	5030.3	4970.0	4680.3	4743.5	5436.1	5375.8	5339.1
30°	4492.1	4483.3	4450.9	4480.3	4256.8	3930.4	3798.1	4587.7	4650.9	4637.7
32.5°	3708.4	3743.7	3887.8	3933.3	3551.0	3287.8	3161.4	3808.4	4061.3	4051.0
35°	2520.3	2549.7	2714.4	3258.4	2943.8	2755.5	2718.8	3029.0	3445.2	3484.9
37.5°	2007.1	2002.7	2049.8	2146.8	2365.9	2320.3	2310.0	2390.9	2810.0	2827.6
40°	1654.2	1648.3	1646.9	1567.5	1513.1	1929.2	1901.2	1852.7	2215.9	2251.2
42.5°	1333.7	1339.5	1344.0	1170.4	1091.0	1488.1	1471.9	1421.9	1738.0	1779.2
45°	1046.9	1045.5	1054.3	872.0	849.9	951.4	1099.9	1060.2	1311.6	1355.7
47.5°	542.6	561.7	680.8	674.9	685.2	674.9	832.3	822.0	986.6	1057.2
50°	364.7	370.5	380.8	382.3	539.6	497.0	564.6	639.6	691.1	799.9
52.5°	282.3	286.7	260.3	244.1	330.8	367.6	370.5	442.6	482.3	592.6
55°	157.3	176.4	189.7	191.2	182.3	272.0	270.6	327.9	358.8	432.3
57.5°	20.6	25.0	38.2	123.5	122.0	151.5	189.7	238.2	255.9	316.1
60°	1.5	2.9	4.4	19.1	80.9	88.2	129.4	148.5	177.9	222.0
62.5°	0.0	0.0	1.5	4.4	16.2	51.5	67.6	77.9	104.4	145.6
65°	0.0	0.0	1.5	2.9	5.9	19.1	26.5	42.6	61.8	89.7
67.5°	0.0	0.0	1.5	2.9	4.4	7.4	11.8	19.1	32.3	54.4
70°	0.0	0.0	1.5	2.9	4.4	5.9	8.8	11.8	17.6	29.4
72.5°	0.0	0.0	1.5	1.5	2.9	7.4	7.4	8.8	11.8	16.2
75°	0.0	0.0	1.5	2.9	4.4	7.4	7.4	7.4	8.8	10.3
77.5°	0.0	0.0	1.5	2.9	4.4	7.4	5.9	7.4	7.4	7.4
80°	0.0	0.0	1.5	2.9	4.4	7.4	8.8	7.4	5.9	5.9
82.5°	0.0	0.0	1.5	4.4	4.4	10.3	10.3	10.3	4.4	4.4
85°	0.0	0.0	2.9	4.4	7.4	11.8	11.8	8.8	4.4	2.9
87.5°	0.0	0.0	1.5	2.9	2.9	5.9	8.8	7.4	2.9	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°
13676.3	0°	13676.3	13676.3	13676.3	13676.3	13676.3	13676.3	13676.3	13676.3	13676.3
13548.4	2.5°	13657.2	13620.4	13689.5	13698.3	13668.9	13632.2	13546.9	13539.5	13391.0
13248.4	5°	13398.4	13338.1	13382.2	13411.6	13401.3	13361.6	13326.3	13294.0	13160.2
12761.7	7.5°	12916.1	12894.0	12914.6	12936.7	12979.3	12936.7	12922.0	12888.1	12755.8
12282.3	10°	12380.9	12339.7	12417.6	12407.3	12395.6	12383.8	12322.0	12327.9	12172.1
11629.5	12.5°	11723.6	11654.5	11729.5	11738.3	11729.5	11688.3	11619.2	11648.6	11506.0
10747.2	15°	10839.9	10832.5	10886.9	10922.2	10947.2	10903.1	10879.6	10894.3	10809.0
9612.1	17.5°	9754.7	9850.3	10028.2	10088.5	10090.0	10135.5	10122.3	10104.7	10041.4
8354.9	20°	8478.4	8662.2	8935.7	9216.5	9297.4	9259.2	9241.5	9273.9	9179.8
7174.1	22.5°	7300.6	7457.9	7775.5	8185.8	8422.5	8446.0	8441.6	8413.7	8376.9
6228.7	25°	6300.7	6440.4	6744.8	7119.7	7574.1	7641.7	7644.7	7635.8	7603.5
5371.4	27.5°	5456.7	5625.8	5793.4	6128.7	6612.4	6891.8	6856.5	6846.2	6834.5
4648.0	30°	4692.1	4905.3	5062.6	5271.4	5705.2	6083.1	6119.8	6102.2	6074.3
4049.5	32.5°	4086.3	4212.7	4412.7	4553.9	4865.6	5293.5	5434.6	5421.4	5396.4
3509.9	35°	3559.9	3609.9	3767.2	3924.5	4131.9	4546.5	4755.3	4725.9	4721.5
2859.9	37.5°	2932.0	3099.6	3186.4	3345.2	3490.8	3812.8	4101.0	4087.7	4089.2
2299.7	40°	2367.4	2464.4	2636.4	2770.3	2904.1	3139.3	3459.9	3468.7	3465.8
1780.7	42.5°	1817.4	1911.5	2092.4	2238.0	2357.1	2502.6	2808.5	2818.8	2832.0
1386.6	45°	1418.9	1479.2	1611.6	1763.0	1889.5	1977.7	2210.0	2276.2	2277.7
1074.9	47.5°	1101.3	1170.4	1264.6	1410.1	1533.6	1596.9	1766.0	1855.7	1851.2
824.9	50°	864.6	927.8	1004.3	1119.0	1252.8	1302.8	1427.8	1516.0	1511.6
622.0	52.5°	661.7	742.6	810.2	898.4	1029.3	1071.9	1161.6	1263.1	1248.4
455.8	55°	501.4	583.8	647.0	720.5	839.6	894.0	955.8	1036.6	1039.6
352.9	57.5°	377.9	463.2	520.5	595.5	685.2	745.5	792.6	879.3	877.8
241.1	60°	270.6	344.1	413.2	491.1	560.2	629.3	661.7	744.0	747.0
170.6	62.5°	195.6	264.7	330.8	398.5	460.2	527.9	557.3	622.0	630.8
111.8	65°	136.7	185.3	261.7	313.2	382.3	432.3	470.5	526.4	536.7
66.2	67.5°	88.2	133.8	207.3	252.9	316.1	358.8	398.5	442.6	455.8
42.6	70°	52.9	101.5	154.4	202.9	260.3	298.5	336.7	375.0	382.3
20.6	72.5°	33.8	70.6	111.8	164.7	208.8	250.0	283.8	311.7	289.7
13.2	75°	19.1	48.5	88.2	129.4	169.1	208.8	236.7	251.4	201.4
8.8	77.5°	11.8	35.3	72.1	104.4	130.9	167.6	185.3	194.1	144.1
5.9	80°	7.4	26.5	60.3	85.3	85.3	123.5	144.1	151.5	104.4
4.4	82.5°	5.9	19.1	47.1	64.7	57.3	92.6	113.2	114.7	73.5
2.9	85°	4.4	14.7	29.4	42.6	39.7	64.7	66.2	73.5	48.5
2.9	87.5°	2.9	8.8	17.6	25.0	22.1	30.9	35.3	39.7	26.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
13676.3
13274.9
13052.8
12727.9
12119.1
11464.8
10706.1
9947.3
9112.1
8306.3
7494.7
6765.4
6039.0
5330.2
4673.0
4042.2
3414.3
2787.9
2239.4
1835.1
1511.6
1249.8
1039.6
874.9
739.6
627.9
533.8
454.4
376.4
269.1
191.2
135.3
97.0
67.6
44.1
23.5
0.0

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