

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: P637033

Luminaire Tested: **IFLD-S-SA3B-727-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637033
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-727-U-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (48) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14151.8 lumens
Efficiency: N/A
Efficacy: 115.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

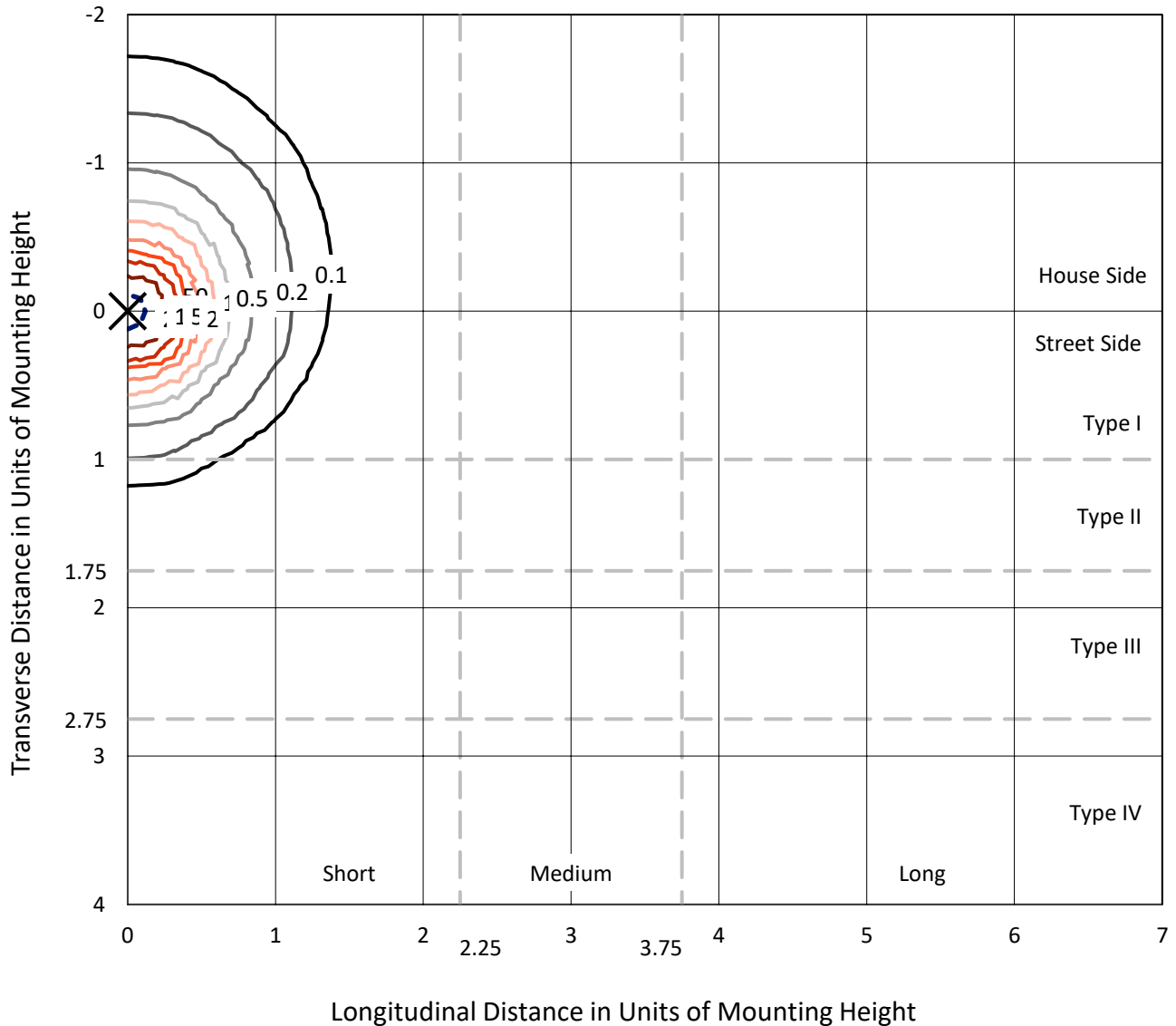
Input Watts (W): 122.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

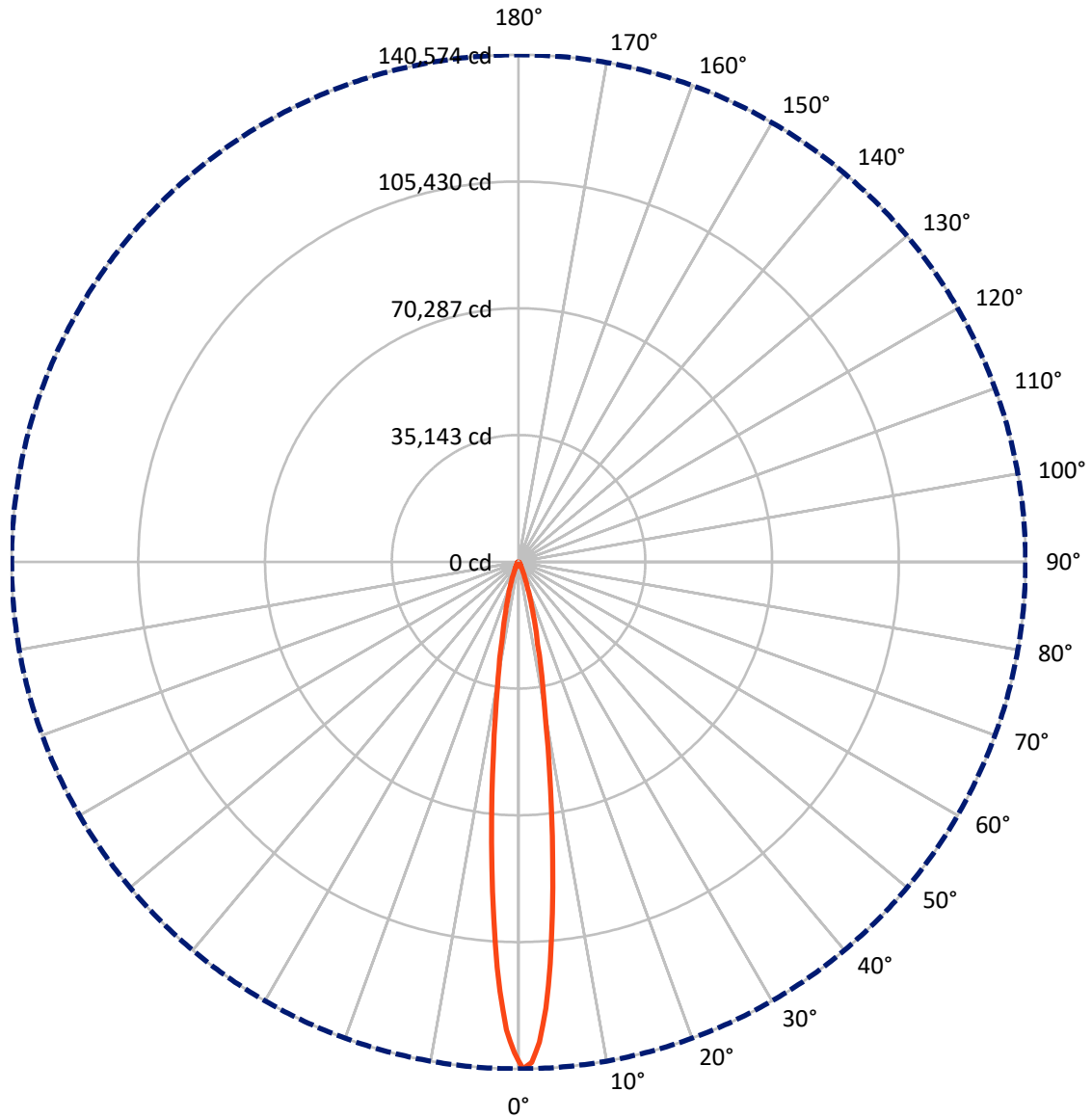
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 351.4 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	7248.3	0.0	7248.3
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	6903.5	0.0	6903.5
	% Fixture	48.8	0.0	48.8
Total	Lumens	14151.8	0.0	14151.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7144.3	50.5
10°-20°	4573.7	32.3
20°-30°	1374.8	9.7
30°-40°	447.6	3.2
40°-50°	260.4	1.8
50°-60°	173.0	1.2
60°-70°	104.1	0.7
70°-80°	53.5	0.4
80°-90°	20.3	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°	14151.8	100.0
0°-180°	14151.8	100.0

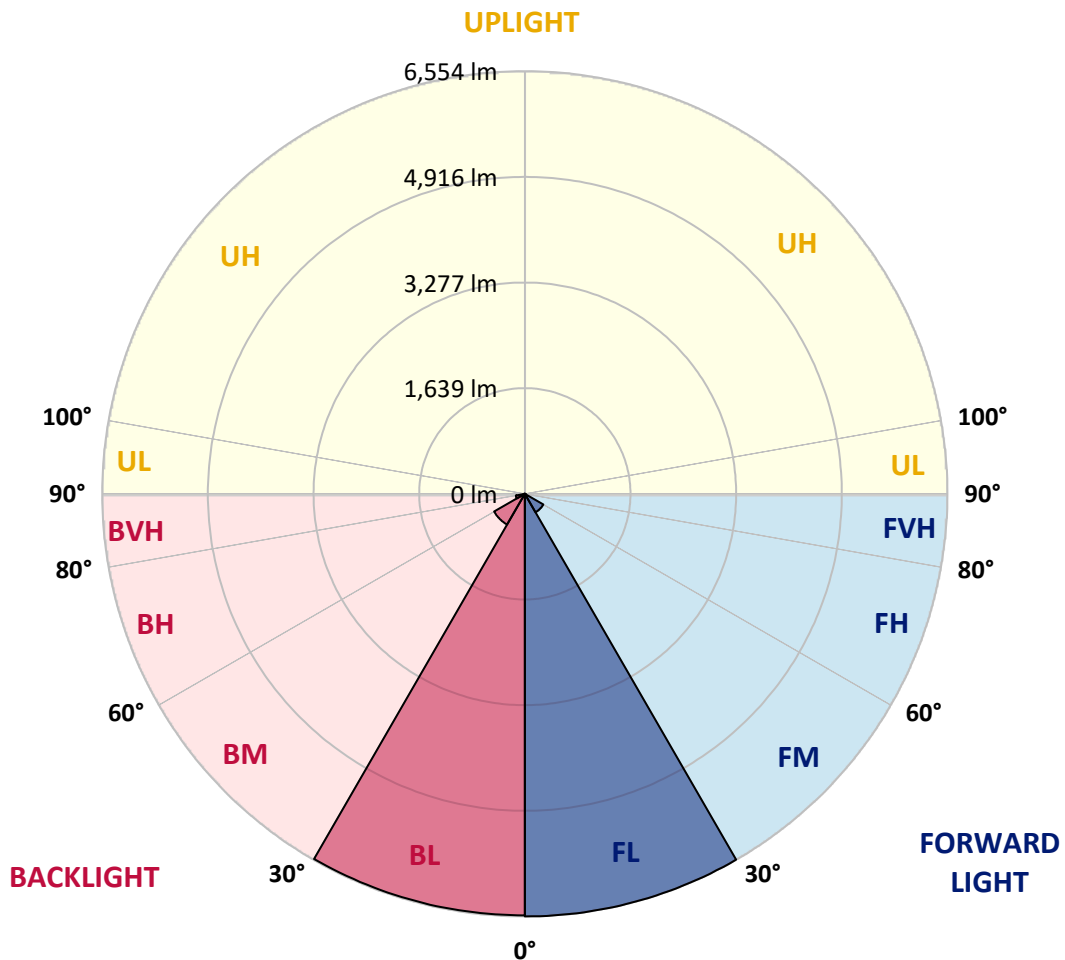


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6554.2	46.3			
FM (30°-60°)	330.7	2.3			
FH (60°-80°)	15.6	0.1			G0/660
FVH (80°-90°)	3.1	0.0			G0/10
BL (0°-30°)	6538.6	46.2	B5		
BM (30°-60°)	550.3	3.9	B1/1000		
BH (60°-80°)	142.1	1.0	B1/500		G0/660
BVH (80°-90°)	17.3	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°	140573.7	140573.7	140573.7	140573.7	140573.7	140573.7	140573.7	140573.7	140573.7	140573.7
1°	138890.5	138466.6	137372.3	138150.6	138835.0	138636.2	138622.3	138548.3	138445.0	139255.8
2°	133338.5	133064.2	131445.7	132113.1	133085.7	132376.7	132820.6	132430.7	132438.4	133406.3
3°	123979.4	124128.9	121547.1	122760.2	124111.9	122393.3	122926.6	123928.5	122878.8	122562.9
4°	111814.9	110517.1	109106.8	110339.9	110689.8	109689.4	110672.8	111899.7	110441.6	110506.3
5°	97927.3	96968.6	95299.3	96060.7	95192.9	95508.9	96982.4	97488.0	96470.7	95189.8
6°	83648.1	82966.8	80879.8	81977.3	81669.0	81490.2	83350.6	81809.3	82364.2	81588.9
7°	69578.6	68305.4	67280.4	68331.6	68399.4	67861.5	70276.8	69996.3	68986.7	68752.4
8°	57646.9	56376.8	55509.0	56292.0	56803.8	55959.1	57095.1	57841.1	57051.9	57122.8
9°	46495.2	46271.7	45064.8	46088.2	46644.7	45739.9	46997.6	47267.4	46529.1	46888.2
10°	38176.4	37915.9	36952.6	37367.2	38288.9	37210.0	38416.9	38504.7	37915.9	38083.9
12.5°	23592.1	23487.3	23461.1	23521.2	23508.8	23700.0	24008.2	23656.8	23610.6	23029.5
15°	15248.7	15404.4	15244.1	15552.3	15597.0	15777.4	15589.3	15305.7	14764.7	14496.5
17.5°	9516.4	9715.2	9989.6	10441.2	10892.8	10945.2	10695.5	10362.6	10100.5	9813.8
20°	5474.9	5572.0	5530.4	6071.4	7239.8	7557.3	7235.1	6885.3	6569.3	6279.5
22.5°	3401.8	3366.3	3431.1	3613.0	3993.7	4975.5	4711.9	4362.1	4132.4	3893.5
25°	2085.5	2124.0	2099.3	2199.5	2370.6	2786.8	2846.9	2695.8	2578.7	2455.4
27.5°	1342.5	1342.5	1353.3	1408.8	1525.9	1512.1	1832.7	1715.5	1652.3	1592.2
30°	932.5	935.6	935.6	968.0	994.2	947.9	1031.2	1182.2	1152.9	1106.7
32.5°	692.1	701.3	709.0	726.0	704.4	655.1	675.1	850.8	833.9	816.9
35°	527.1	534.9	553.3	562.6	531.8	500.9	482.4	625.8	633.5	628.9
37.5°	383.8	388.4	422.3	457.8	422.3	394.6	383.8	480.9	517.9	513.3
40°	294.4	295.9	302.1	342.2	342.2	320.6	323.7	359.1	423.9	423.9
42.5°	252.8	252.8	258.9	252.8	254.3	277.4	285.2	289.8	359.1	359.1
45°	218.9	218.9	222.0	206.5	191.1	238.9	245.1	246.6	302.1	309.8
47.5°	183.4	183.4	189.6	169.5	161.8	189.6	206.5	211.2	260.5	266.7
50°	135.6	137.2	155.7	138.7	143.3	146.4	178.8	181.9	220.4	234.3
52.5°	90.9	90.9	94.0	107.9	124.9	120.2	144.9	155.7	175.7	194.2
55°	74.0	74.0	72.4	69.4	92.5	100.2	106.4	129.5	143.3	166.5
57.5°	50.9	53.9	49.3	57.0	60.1	75.5	80.2	101.7	109.4	140.3
60°	6.2	7.7	10.8	41.6	40.1	50.9	60.1	80.2	89.4	107.9
62.5°	1.5	1.5	3.1	7.7	27.7	33.9	47.8	55.5	64.7	83.2
65°	0.0	0.0	1.5	3.1	6.2	18.5	24.7	32.4	46.2	58.6
67.5°	0.0	0.0	1.5	3.1	3.1	7.7	12.3	20.0	24.7	43.2
70°	0.0	0.0	1.5	3.1	3.1	6.2	7.7	9.2	17.0	23.1
72.5°	0.0	0.0	1.5	3.1	4.6	6.2	7.7	7.7	7.7	15.4
75°	0.0	0.0	1.5	3.1	4.6	6.2	7.7	7.7	6.2	6.2
77.5°	0.0	0.0	1.5	3.1	6.2	7.7	9.2	7.7	4.6	4.6
80°	0.0	0.0	1.5	4.6	7.7	10.8	12.3	9.2	4.6	3.1
82.5°	0.0	0.0	3.1	6.2	9.2	12.3	17.0	13.9	6.2	3.1
85°	0.0	0.0	1.5	4.6	9.2	12.3	24.7	17.0	7.7	1.5
87.5°	0.0	0.0	0.0	1.5	1.5	3.1	9.2	6.2	3.1	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°
140573.7	140573.7	140573.7	140573.7	140573.7	140573.7	140573.7	140573.7	140573.7	140573.7
138320.2	139286.6	139383.7	139066.2	139557.9	139385.3	138374.1	138039.7	137643.5	137073.2
132837.6	132430.7	132925.4	132950.1	133495.7	133488.0	132308.9	131943.6	132617.2	131302.4
123204.1	122831.1	123407.5	122888.1	123857.6	123566.3	122135.9	121764.4	122528.9	121573.3
111018.1	110686.7	110577.2	110398.4	109846.6	110526.4	109550.7	108815.5	109852.8	107809.0
96888.4	96694.2	96450.7	96102.3	95938.9	96444.5	95820.2	94308.2	95823.3	92178.0
82991.5	83093.2	82045.1	81994.2	81903.3	81954.2	80206.3	80311.1	81439.3	78405.9
67946.3	68664.5	68857.2	68464.2	69094.6	68613.7	67429.9	66973.7	68162.1	66018.0
57434.2	57033.4	56789.9	56489.3	57431.1	56597.2	55820.4	55288.6	56227.3	54635.1
46946.8	46858.9	46438.1	46132.9	46085.2	46214.6	44756.5	45052.4	45763.0	44804.3
38176.4	38190.3	37499.8	37667.8	37712.5	37570.7	36615.0	36624.3	36869.4	35716.4
23414.8	23331.6	22992.5	23077.3	23123.5	23411.7	23075.7	22601.0	22258.8	22086.2
14763.2	14664.5	14421.0	14918.8	15253.3	15185.5	14886.5	14663.0	14353.2	14103.5
9813.8	9722.9	10042.0	10043.5	10348.7	10379.5	10080.5	9907.9	9628.9	9641.2
6382.8	6359.7	6492.2	6768.1	6983.9	7108.8	6880.6	6674.1	6483.0	6402.8
3979.8	3979.8	4211.0	4383.6	4664.2	4778.2	4611.8	4465.3	4309.6	4214.1
2484.7	2443.1	2608.0	2751.3	2994.9	3150.5	3070.4	2936.3	2826.9	2776.0
1604.6	1629.2	1698.6	1769.5	1937.5	2099.3	2054.6	2000.7	1934.4	1911.3
1131.4	1148.3	1154.5	1230.0	1324.0	1431.9	1459.7	1435.0	1401.1	1374.9
830.8	846.2	870.9	906.3	964.9	1037.3	1103.6	1091.3	1075.9	1063.5
635.0	653.5	690.5	719.8	764.5	803.0	866.2	877.0	872.4	863.2
522.5	533.3	565.7	595.0	621.2	653.5	696.7	730.6	732.1	722.9
431.6	442.4	471.7	510.2	530.2	553.3	585.7	627.3	630.4	627.3
365.3	373.0	400.8	439.3	463.9	480.9	511.7	553.3	559.5	553.3
312.9	320.6	337.6	377.6	406.9	423.9	443.9	488.6	494.8	493.2
269.7	279.0	295.9	320.6	362.2	377.6	396.1	431.6	442.4	442.4
238.9	245.1	262.0	283.6	320.6	343.7	359.1	388.4	403.8	403.8
208.1	217.3	234.3	257.4	286.7	312.9	326.8	354.5	374.6	374.6
169.5	181.9	211.2	228.1	254.3	289.8	302.1	323.7	349.9	349.9
148.0	158.8	183.4	208.1	229.7	265.1	280.5	302.1	326.8	329.9
117.1	134.1	157.2	186.5	205.0	238.9	258.9	282.1	305.2	311.4
89.4	106.4	137.2	157.2	183.4	215.8	242.0	260.5	283.6	292.9
69.4	78.6	112.5	135.6	163.4	194.2	222.0	237.4	262.0	268.2
49.3	57.0	87.9	115.6	141.8	171.1	198.8	214.2	235.8	240.5
30.8	44.7	64.7	95.6	118.7	149.5	172.6	189.6	203.5	208.1
20.0	26.2	49.3	77.1	103.3	131.0	146.4	158.8	171.1	174.2
9.2	17.0	38.5	63.2	86.3	106.4	120.2	131.0	141.8	143.3
4.6	10.8	27.7	50.9	72.4	81.7	98.6	107.9	114.1	111.0
3.1	6.2	21.6	44.7	58.6	66.3	77.1	86.3	94.0	86.3
3.1	4.6	18.5	37.0	49.3	49.3	61.7	66.3	66.3	63.2
1.5	3.1	15.4	29.3	46.2	37.0	46.2	43.2	43.2	43.2
1.5	3.1	10.8	13.9	20.0	17.0	20.0	20.0	23.1	23.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
140573.7
136074.4
129764.1
119133.3
106098.0
91831.2
78168.6
64929.8
53546.9
43543.4
35201.6
22050.7
14194.4
9559.5
6416.7
4226.4
2763.7
1895.9
1378.0
1063.5
857.0
721.4
625.8
554.9
493.2
443.9
405.4
374.6
351.4
328.3
311.4
294.4
266.7
237.4
208.1
174.2
141.8
111.0
84.8
61.7
41.6
23.1
0.0

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