

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: P637240

Luminaire Tested: **IFLD-S-SA6A-830-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637240
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-830-U-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (96) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21327.8 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

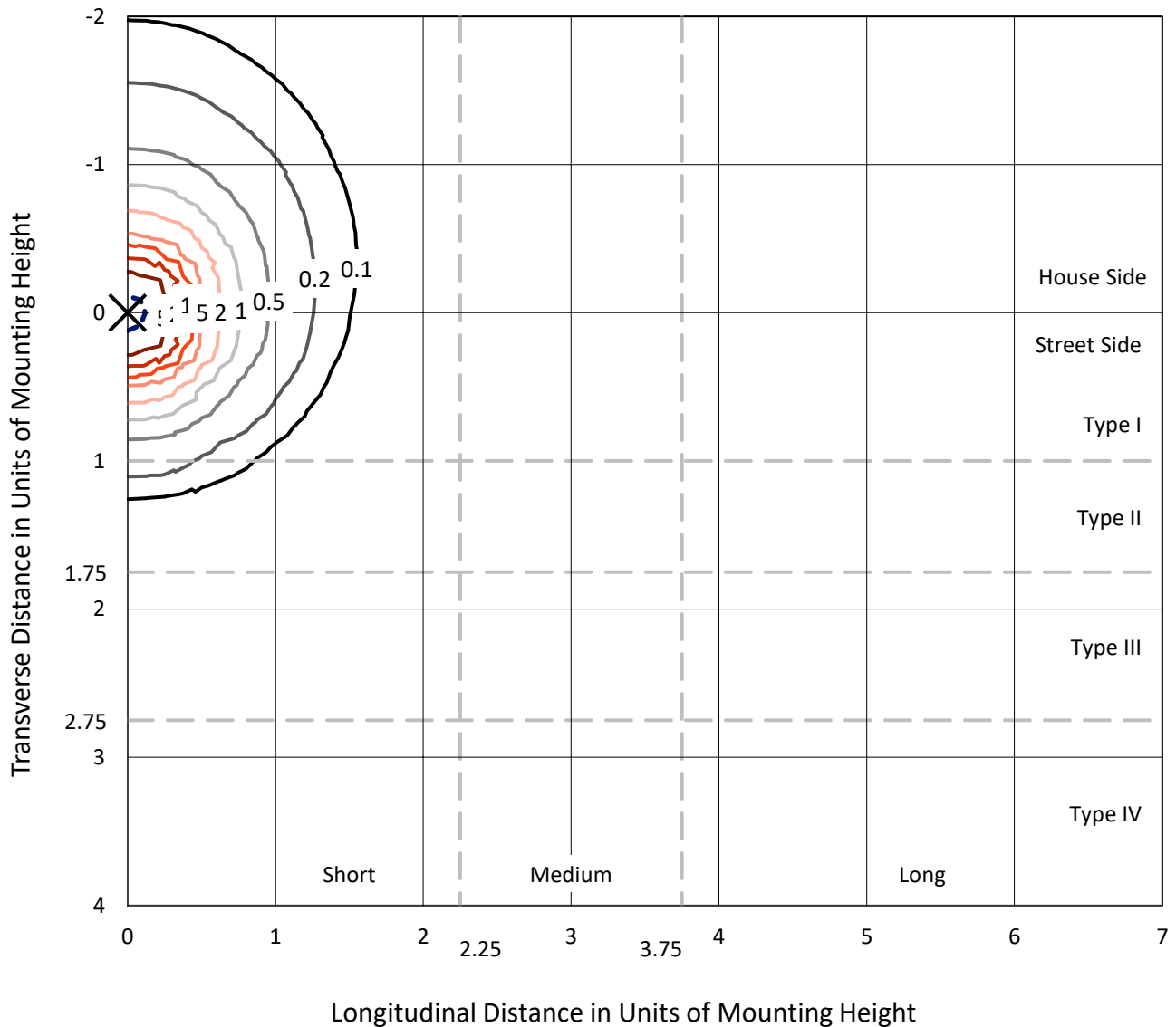
Input Watts (W): 189.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

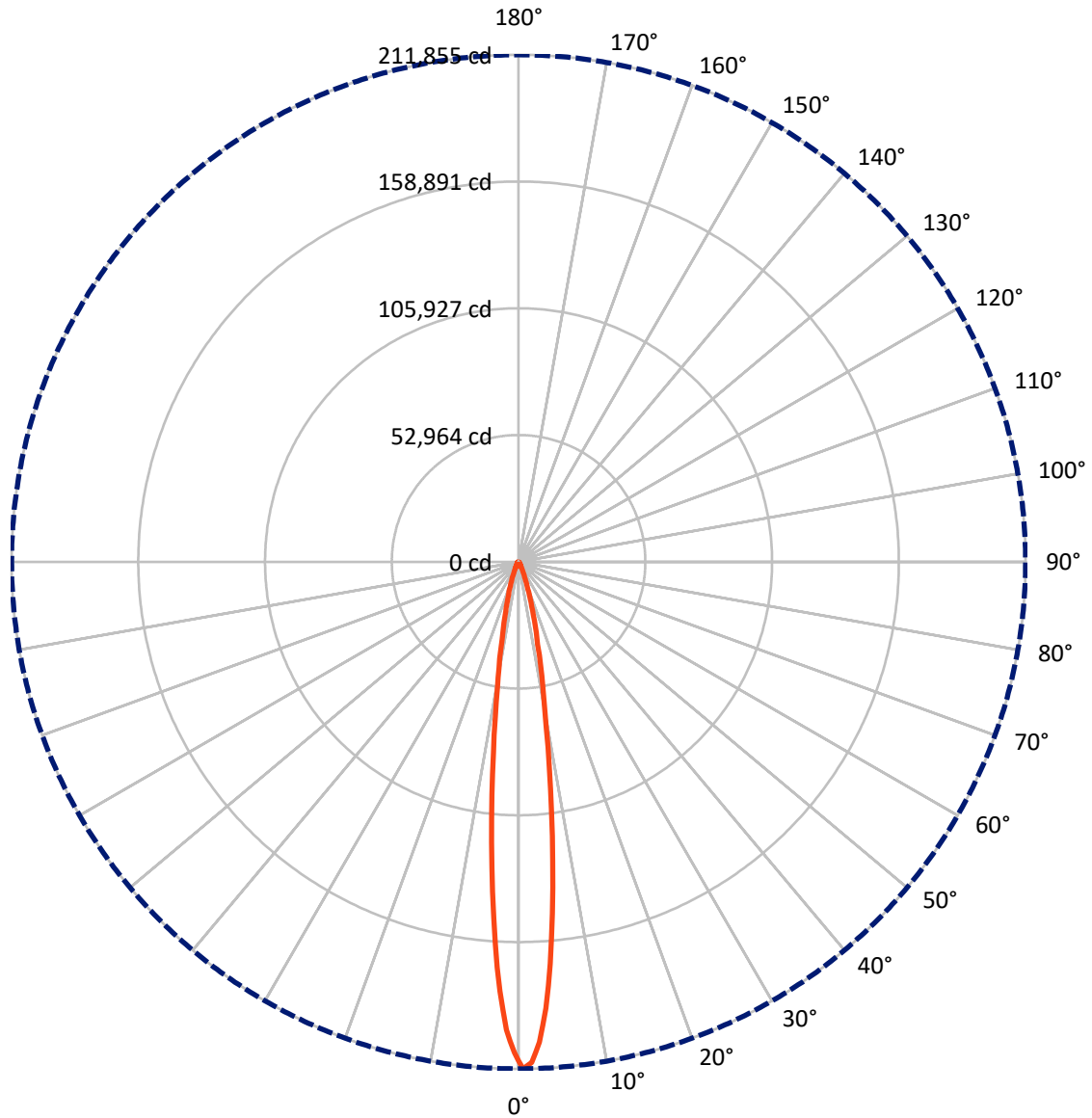
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 529.6 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	10923.7	0.0	10923.7
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	10404.1	0.0	10404.1
	% Fixture	48.8	0.0	48.8
Total	Lumens	21327.8	0.0	21327.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10766.9	50.5
10°-20°	6893.0	32.3
20°-30°	2071.9	9.7
30°-40°	674.6	3.2
40°-50°	392.5	1.8
50°-60°	260.7	1.2
60°-70°	156.9	0.7
70°-80°	80.7	0.4
80°-90°	30.6	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°	21327.8	100.0
0°-180°	21327.8	100.0

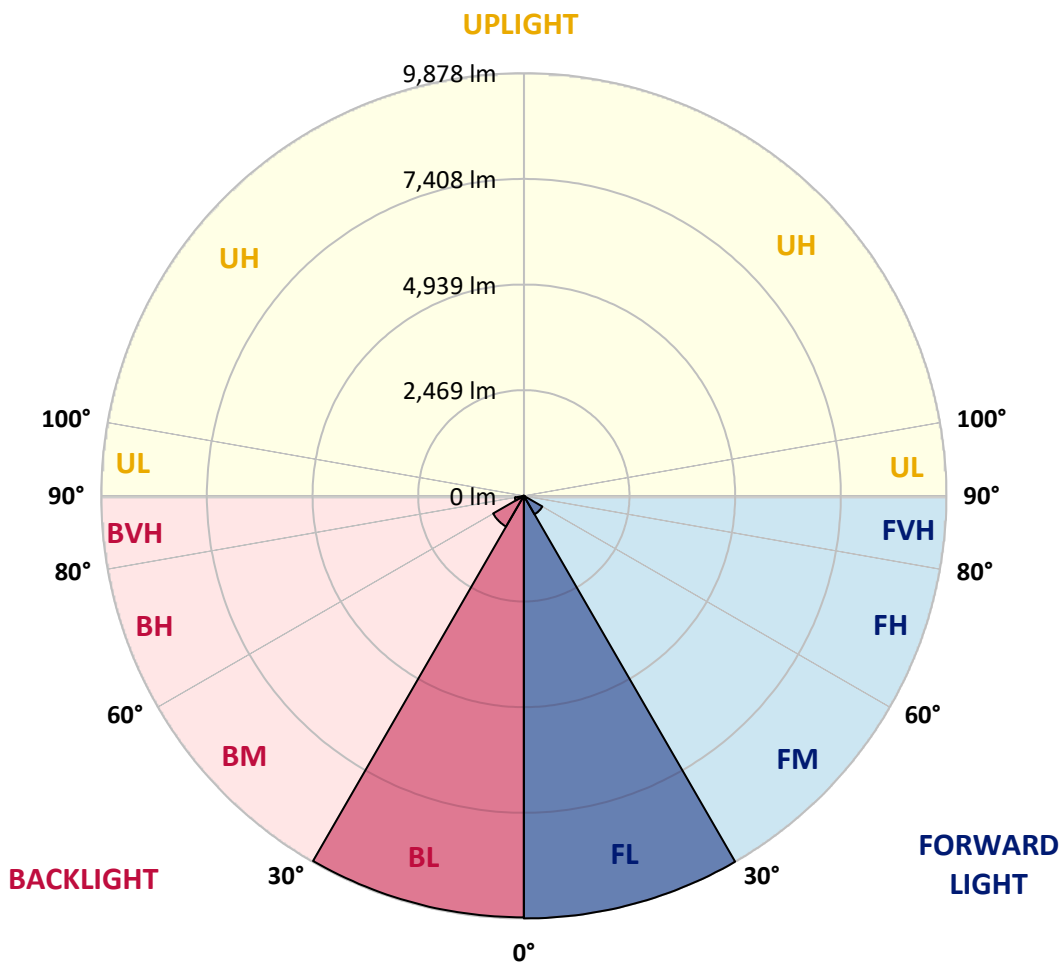


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	9877.6	46.3			
FM (30°-60°)	498.4	2.3			
FH (60°-80°)	23.5	0.1			G0/660
FVH (80°-90°)	4.6	0.0			G0/10
BL (0°-30°)	9854.2	46.2	B5		
BM (30°-60°)	829.4	3.9	B1/1000		
BH (60°-80°)	214.1	1.0	B1/500		G0/660
BVH (80°-90°)	26.0	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°	211854.8	211854.8	211854.8	211854.8	211854.8	211854.8	211854.8	211854.8	211854.8	211854.8
1°	209318.2	208679.4	207030.1	208203.1	209234.5	208934.9	208914.0	208802.5	208646.8	209868.7
2°	200950.9	200537.4	198098.3	199104.2	200570.0	199501.4	200170.4	199582.7	199594.3	201053.1
3°	186846.0	187071.3	183180.4	185008.6	187045.8	184455.7	185259.4	186769.3	185187.4	184711.2
4°	168513.3	166557.4	164431.9	166290.3	166817.6	165310.0	166792.0	168641.1	166443.6	166541.1
5°	147583.6	146138.7	143623.0	144770.5	143462.7	143938.9	146159.6	146921.6	145388.4	143458.1
6°	126063.8	125037.1	121891.8	123545.8	123081.2	122811.7	125615.5	123292.6	124128.8	122960.4
7°	104860.0	102941.3	101396.5	102980.8	103083.0	102272.3	105912.3	105489.5	103968.0	103614.9
8°	86878.1	84964.0	83656.2	84836.2	85607.5	84334.5	86046.5	87170.8	85981.4	86088.3
9°	70071.6	69734.8	67915.9	69458.3	70296.9	68933.4	70828.9	71235.4	70122.7	70664.0
10°	57534.7	57142.1	55690.3	56315.1	57704.3	56078.2	57897.1	58029.5	57142.1	57395.3
12.5°	35555.0	35397.0	35357.5	35448.1	35429.5	35717.6	36182.2	35652.5	35582.9	34707.1
15°	22980.9	23215.5	22973.9	23438.5	23505.9	23777.7	23494.3	23066.8	22251.5	21847.3
17.5°	14341.9	14641.5	15055.0	15735.6	16416.2	16495.2	16118.9	15617.2	15222.3	14790.2
20°	8251.1	8397.4	8334.7	9150.1	10910.9	11389.4	10903.9	10376.6	9900.4	9463.7
22.5°	5126.7	5073.3	5170.9	5445.0	6018.7	7498.5	7101.2	6573.9	6227.8	5867.8
25°	3142.9	3201.0	3163.8	3314.8	3572.7	4199.9	4290.5	4062.8	3886.3	3700.4
27.5°	2023.3	2023.3	2039.5	2123.2	2299.7	2278.8	2762.0	2585.4	2490.2	2399.6
30°	1405.4	1410.0	1410.0	1458.8	1498.3	1428.6	1554.0	1781.7	1737.6	1667.9
32.5°	1043.0	1056.9	1068.6	1094.1	1061.6	987.3	1017.4	1282.3	1256.7	1231.2
35°	794.4	806.1	833.9	847.9	801.4	755.0	727.1	943.1	954.7	947.8
37.5°	578.4	585.4	636.5	689.9	636.5	594.7	578.4	724.8	780.5	773.5
40°	443.7	446.0	455.3	515.7	515.7	483.2	487.8	541.2	638.8	638.8
42.5°	381.0	381.0	390.3	381.0	383.3	418.1	429.7	436.7	541.2	541.2
45°	329.9	329.9	334.5	311.3	288.0	360.1	369.3	371.7	455.3	466.9
47.5°	276.4	276.4	285.7	255.5	243.9	285.7	311.3	318.2	392.6	401.9
50°	204.4	206.7	234.6	209.1	216.0	220.7	269.5	274.1	332.2	353.1
52.5°	137.1	137.1	141.7	162.6	188.2	181.2	218.4	234.6	264.8	292.7
55°	111.5	111.5	109.2	104.5	139.4	151.0	160.3	195.1	216.0	250.9
57.5°	76.7	81.3	74.3	85.9	90.6	113.8	120.8	153.3	164.9	211.4
60°	9.3	11.6	16.3	62.7	60.4	76.7	90.6	120.8	134.7	162.6
62.5°	2.3	2.3	4.6	11.6	41.8	51.1	72.0	83.6	97.6	125.4
65°	0.0	0.0	2.3	4.6	9.3	27.9	37.2	48.8	69.7	88.3
67.5°	0.0	0.0	2.3	4.6	4.6	11.6	18.6	30.2	37.2	65.0
70°	0.0	0.0	2.3	4.6	4.6	9.3	11.6	13.9	25.6	34.8
72.5°	0.0	0.0	2.3	4.6	7.0	9.3	11.6	11.6	11.6	23.2
75°	0.0	0.0	2.3	4.6	7.0	9.3	11.6	11.6	9.3	9.3
77.5°	0.0	0.0	2.3	4.6	9.3	11.6	13.9	11.6	7.0	7.0
80°	0.0	0.0	2.3	7.0	11.6	16.3	18.6	13.9	7.0	4.6
82.5°	0.0	0.0	4.6	9.3	13.9	18.6	25.6	20.9	9.3	4.6
85°	0.0	0.0	2.3	7.0	13.9	18.6	37.2	25.6	11.6	2.3
87.5°	0.0	0.0	0.0	2.3	2.3	4.6	13.9	9.3	4.6	2.3
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°
211854.8	211854.8	211854.8	211854.8	211854.8	211854.8	211854.8	211854.8	211854.8	211854.8
208458.7	209915.2	210061.5	209583.0	210324.0	210063.8	208540.0	208035.9	207438.9	206579.4
200196.0	199582.7	200328.4	200365.5	201187.9	201176.2	199399.2	198848.7	199863.8	197882.3
185677.6	185115.4	185984.2	185201.4	186662.5	186223.5	184067.8	183507.9	184660.1	183219.9
167312.4	166812.9	166648.0	166378.5	165546.9	166571.3	165100.9	163992.9	165556.2	162476.0
146017.9	145725.2	145358.2	144833.2	144587.0	145348.9	144408.1	142129.3	144412.8	138919.0
125074.3	125227.6	123648.0	123571.3	123434.3	123510.9	120876.7	121034.7	122735.1	118163.5
102400.0	103482.5	103772.9	103180.5	104130.6	103405.9	101621.8	100934.2	102725.2	99494.0
86557.5	85953.6	85586.5	85133.6	86552.9	85296.2	84125.4	83324.0	84738.7	82339.1
70752.2	70619.8	69985.7	69525.7	69453.7	69648.8	67451.3	67897.3	68968.2	67523.3
57534.7	57555.6	56514.9	56768.1	56835.5	56621.8	55181.5	55195.5	55564.8	53827.3
35287.8	35162.4	34651.4	34779.1	34848.8	35283.2	34776.8	34061.3	33545.6	33285.5
22249.2	22100.5	21733.5	22483.8	22987.9	22885.6	22435.0	22098.2	21631.3	21254.9
14790.2	14653.1	15134.0	15136.3	15596.2	15642.7	15192.1	14931.9	14511.4	14530.0
9619.3	9584.5	9784.2	10200.0	10525.3	10713.4	10369.6	10058.3	9770.3	9649.5
5997.8	5997.8	6346.3	6606.5	7029.2	7201.1	6950.2	6729.6	6495.0	6350.9
3744.6	3681.9	3930.4	4146.5	4513.5	4748.1	4627.3	4425.2	4260.3	4183.6
2418.2	2455.4	2559.9	2666.7	2919.9	3163.8	3096.5	3015.2	2915.3	2880.5
1705.0	1730.6	1739.9	1853.7	1995.4	2158.0	2199.8	2162.7	2111.6	2072.1
1252.1	1275.3	1312.5	1365.9	1454.2	1563.3	1663.2	1644.6	1621.4	1602.8
957.1	984.9	1040.7	1084.8	1152.2	1210.3	1305.5	1321.8	1314.8	1300.8
787.5	803.7	852.5	896.7	936.1	984.9	1050.0	1101.1	1103.4	1089.5
650.4	666.7	710.8	768.9	799.1	833.9	882.7	945.4	950.1	945.4
550.5	562.2	604.0	662.0	699.2	724.8	771.2	833.9	843.2	833.9
471.6	483.2	508.7	569.1	613.3	638.8	669.0	736.4	745.7	743.3
406.5	420.5	446.0	483.2	545.9	569.1	597.0	650.4	666.7	666.7
360.1	369.3	394.9	427.4	483.2	518.0	541.2	585.4	608.6	608.6
313.6	327.5	353.1	387.9	432.1	471.6	492.5	534.3	564.5	564.5
255.5	274.1	318.2	343.8	383.3	436.7	455.3	487.8	527.3	527.3
223.0	239.3	276.4	313.6	346.1	399.5	422.8	455.3	492.5	497.1
176.5	202.1	236.9	281.1	309.0	360.1	390.3	425.1	459.9	469.2
134.7	160.3	206.7	236.9	276.4	325.2	364.7	392.6	427.4	441.4
104.5	118.5	169.6	204.4	246.2	292.7	334.5	357.7	394.9	404.2
74.3	85.9	132.4	174.2	213.7	257.8	299.7	322.9	355.4	362.4
46.5	67.4	97.6	144.0	178.9	225.3	260.2	285.7	306.6	313.6
30.2	39.5	74.3	116.1	155.6	197.5	220.7	239.3	257.8	262.5
13.9	25.6	58.1	95.2	130.1	160.3	181.2	197.5	213.7	216.0
7.0	16.3	41.8	76.7	109.2	123.1	148.7	162.6	171.9	167.3
4.6	9.3	32.5	67.4	88.3	99.9	116.1	130.1	141.7	130.1
4.6	7.0	27.9	55.8	74.3	74.3	92.9	99.9	99.9	95.2
2.3	4.6	23.2	44.1	69.7	55.8	69.7	65.0	65.0	65.0
2.3	4.6	16.3	20.9	30.2	25.6	30.2	30.2	34.8	34.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
211854.8
205074.1
195564.0
179542.7
159897.5
138396.4
117805.8
97854.0
80699.1
65623.2
53051.4
33232.0
21392.0
14406.9
9670.4
6369.5
4165.0
2857.2
2076.7
1602.8
1291.6
1087.1
943.1
836.3
743.3
669.0
610.9
564.5
529.6
494.8
469.2
443.7
401.9
357.7
313.6
262.5
213.7
167.3
127.8
92.9
62.7
34.8
0.0

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