

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: P637214

Luminaire Tested: **IFLD-S-SA6D-827-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637214
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-827-U-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (96) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33424.6 lumens
Efficiency: N/A
Efficacy: 90.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

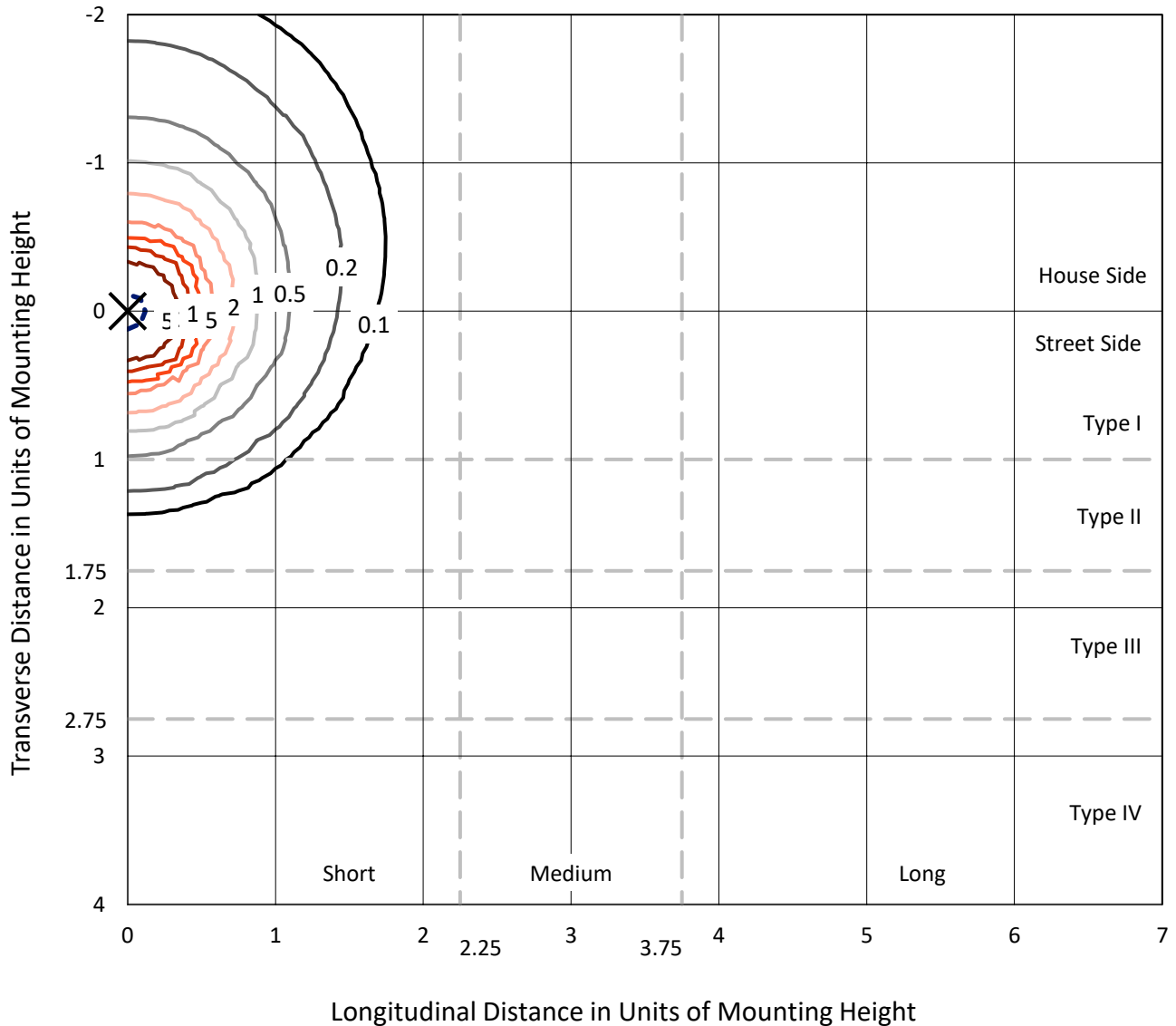
Input Watts (W): 368.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

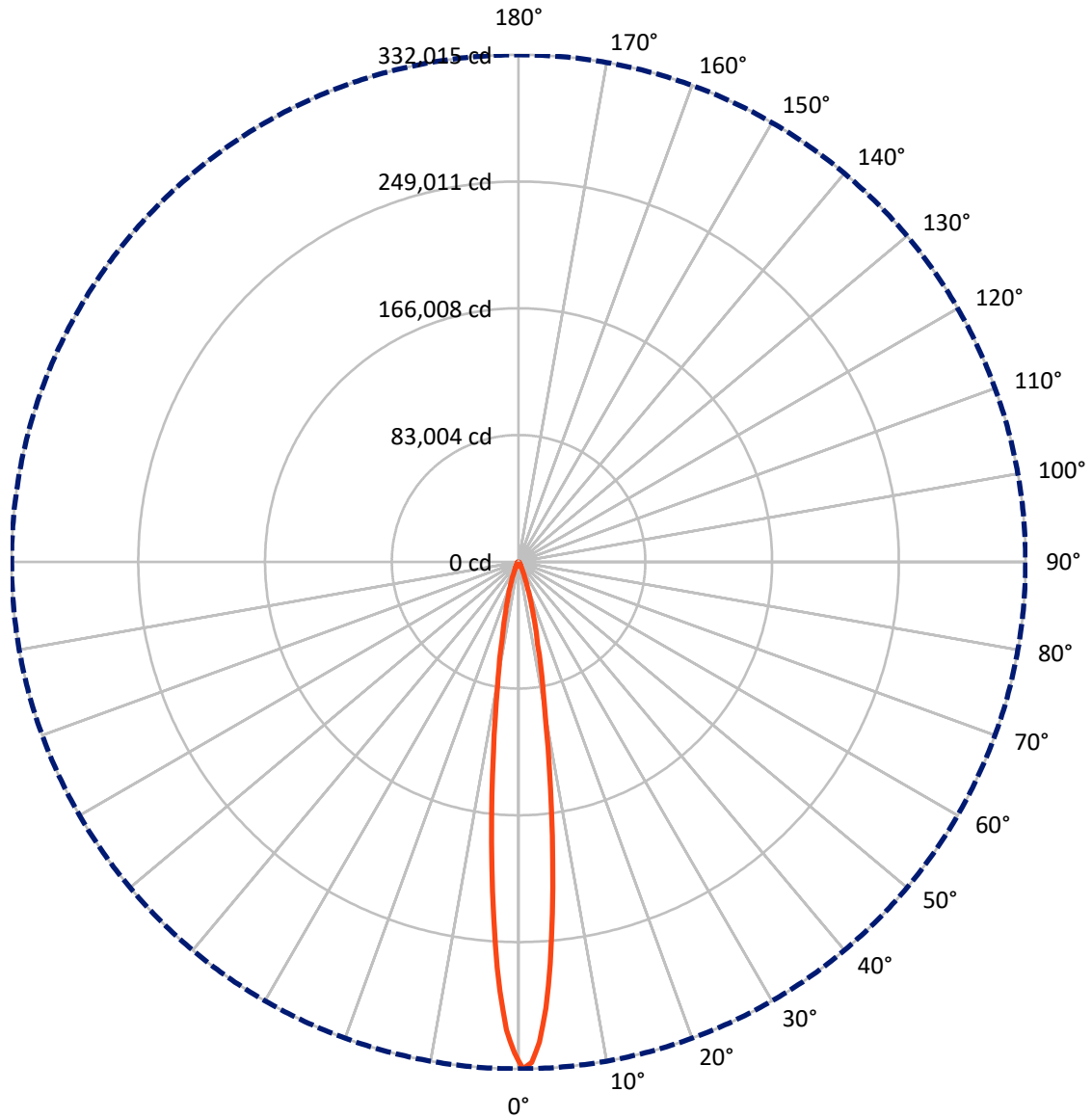
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 830 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	17119.5	0.0	17119.5
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	16305.1	0.0	16305.1
	% Fixture	48.8	0.0	48.8
Total	Lumens	33424.6	0.0	33424.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16873.8	50.5
10°-20°	10802.5	32.3
20°-30°	3247.0	9.7
30°-40°	1057.2	3.2
40°-50°	615.1	1.8
50°-60°	408.6	1.2
60°-70°	245.9	0.7
70°-80°	126.4	0.4
80°-90°	48.0	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°	33424.6	100.0
0°-180°	33424.6	100.0



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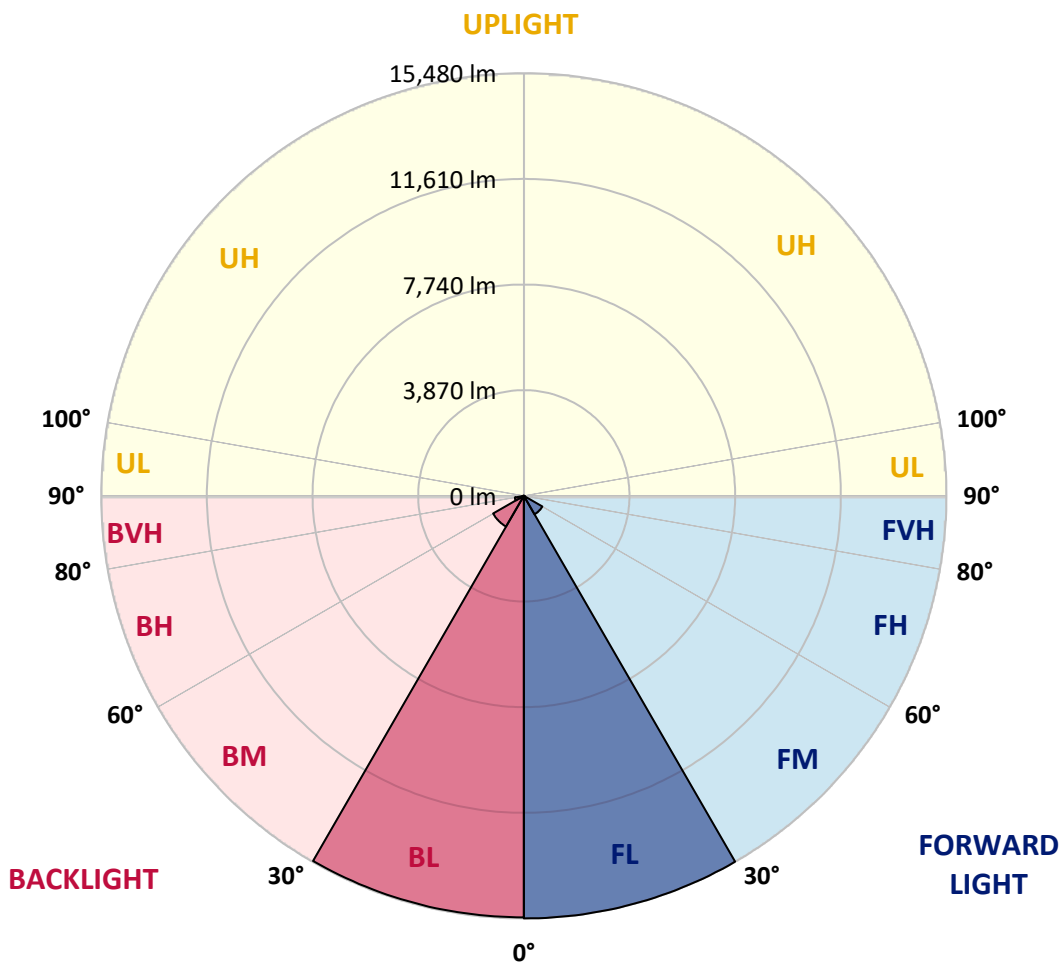
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	15480.0	46.3			
FM (30°-60°)	781.2	2.3			
FH (60°-80°)	36.8	0.1			G0/660
FVH (80°-90°)	7.2	0.0			G0/10
BL (0°-30°)	15443.3	46.2	B5		
BM (30°-60°)	1299.8	3.9	B2/2500		
BH (60°-80°)	335.6	1.0	B1/500		G0/660
BVH (80°-90°)	40.8	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°	332015.2	332015.2	332015.2	332015.2	332015.2	332015.2	332015.2	332015.2	332015.2	332015.2
1°	328039.8	327038.7	324453.9	326292.4	327908.7	327439.1	327406.3	327231.6	326987.7	328902.6
2°	314926.8	314278.8	310456.3	312032.6	314329.7	312655.1	313703.6	312782.5	312800.7	315087.0
3°	292821.8	293174.9	287077.1	289942.2	293134.9	289075.8	290335.4	292701.7	290222.5	289476.2
4°	264091.2	261025.9	257694.8	260607.2	261433.6	259070.9	261393.6	264291.4	260847.5	261000.4
5°	231290.5	229026.1	225083.4	226881.8	224832.2	225578.5	229058.8	230252.9	227850.2	224825.0
6°	197565.1	195956.0	191026.8	193618.8	192890.7	192468.4	196862.5	193222.0	194532.6	192701.4
7°	164334.8	161327.8	158906.8	161389.6	161549.8	160279.3	165983.9	165321.4	162936.9	162383.5
8°	136153.9	133154.1	131104.5	132953.9	134162.5	132167.5	134850.6	136612.6	134748.6	134916.1
9°	109815.0	109287.1	106436.6	108853.9	110168.1	108031.2	111001.8	111638.9	109895.1	110743.3
10°	90167.3	89552.1	87276.8	88256.1	90433.1	87884.8	90735.3	90942.8	89552.1	89948.9
12.5°	55721.1	55473.6	55411.7	55553.7	55524.6	55976.0	56704.1	55874.0	55764.8	54392.4
15°	36015.2	36382.9	36004.3	36732.4	36838.0	37263.9	36819.8	36149.9	34872.1	34238.7
17.5°	22476.3	22945.9	23593.9	24660.6	25727.3	25851.0	25261.3	24474.9	23856.0	23178.9
20°	12931.0	13160.3	13062.0	14339.8	17099.3	17849.3	17088.4	16262.0	15515.7	14831.3
22.5°	8034.5	7950.8	8103.7	8533.3	9432.5	11751.5	11128.9	10302.6	9760.1	9195.8
25°	4925.6	5016.6	4958.3	5195.0	5599.1	6582.0	6724.0	6367.2	6090.5	5799.3
27.5°	3170.9	3170.9	3196.3	3327.4	3604.1	3571.3	4328.5	4051.9	3902.6	3760.6
30°	2202.5	2209.8	2209.8	2286.2	2348.1	2238.9	2435.5	2792.2	2723.1	2613.9
32.5°	1634.6	1656.4	1674.6	1714.7	1663.7	1547.2	1594.5	2009.5	1969.5	1929.5
35°	1245.0	1263.2	1306.9	1328.8	1256.0	1183.2	1139.5	1478.0	1496.2	1485.3
37.5°	906.5	917.4	997.5	1081.2	997.5	932.0	906.5	1135.8	1223.2	1212.3
40°	695.3	699.0	713.5	808.2	808.2	757.2	764.5	848.2	1001.1	1001.1
42.5°	597.0	597.0	611.6	597.0	600.7	655.3	673.5	684.4	848.2	848.2
45°	516.9	516.9	524.2	487.8	451.4	564.3	578.8	582.5	713.5	731.7
47.5°	433.2	433.2	447.8	400.5	382.3	447.8	487.8	498.7	615.2	629.8
50°	320.4	324.0	367.7	327.6	338.6	345.8	422.3	429.6	520.6	553.4
52.5°	214.8	214.8	222.1	254.8	294.9	284.0	342.2	367.7	415.0	458.7
55°	174.7	174.7	171.1	163.8	218.4	236.6	251.2	305.8	338.6	393.2
57.5°	120.1	127.4	116.5	134.7	142.0	178.4	189.3	240.3	258.5	331.3
60°	14.6	18.2	25.5	98.3	94.7	120.1	142.0	189.3	211.1	254.8
62.5°	3.6	3.6	7.3	18.2	65.5	80.1	112.9	131.1	152.9	196.6
65°	0.0	0.0	3.6	7.3	14.6	43.7	58.2	76.5	109.2	138.3
67.5°	0.0	0.0	3.6	7.3	7.3	18.2	29.1	47.3	58.2	101.9
70°	0.0	0.0	3.6	7.3	7.3	14.6	18.2	21.8	40.0	54.6
72.5°	0.0	0.0	3.6	7.3	10.9	14.6	18.2	18.2	18.2	36.4
75°	0.0	0.0	3.6	7.3	10.9	14.6	18.2	18.2	14.6	14.6
77.5°	0.0	0.0	3.6	7.3	14.6	18.2	21.8	18.2	10.9	10.9
80°	0.0	0.0	3.6	10.9	18.2	25.5	29.1	21.8	10.9	7.3
82.5°	0.0	0.0	7.3	14.6	21.8	29.1	40.0	32.8	14.6	7.3
85°	0.0	0.0	3.6	10.9	21.8	29.1	58.2	40.0	18.2	3.6
87.5°	0.0	0.0	0.0	3.6	3.6	7.3	21.8	14.6	7.3	3.6
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°
332015.2	332015.2	332015.2	332015.2	332015.2	332015.2	332015.2	332015.2	332015.2	332015.2
326692.8	328975.4	329204.7	328454.8	329616.1	329208.4	326820.2	326030.2	325094.6	323747.7
313743.6	312782.5	313951.1	314009.4	315298.1	315279.9	312494.9	311632.2	313223.0	310117.7
290990.6	290109.7	291471.2	290244.3	292534.2	291846.2	288467.8	287590.4	289396.1	287139.0
262209.0	261426.3	261167.9	260745.6	259442.3	261047.7	258743.3	257006.8	259456.8	254629.6
228836.8	228378.1	227802.9	226980.1	226594.2	227788.3	226313.9	222742.6	226321.2	217711.5
196014.2	196254.5	193779.0	193658.8	193444.1	193564.2	189435.9	189683.4	192348.3	185183.8
160479.5	162176.0	162631.1	161702.7	163191.7	162055.9	159260.0	158182.4	160989.2	155925.3
135651.5	134704.9	134129.8	133419.9	135644.2	133674.7	131839.9	130583.9	132801.0	129040.4
110881.7	110674.2	109680.3	108959.5	108846.6	109152.4	105708.5	106407.5	108085.8	105821.4
90167.3	90200.1	88569.2	88966.0	89071.6	88736.6	86479.5	86501.4	87080.2	84357.1
55302.5	55105.9	54305.0	54505.2	54614.4	55295.2	54501.6	53380.3	52572.1	52164.4
34868.5	34635.5	34060.3	35236.2	36026.2	35866.0	35159.7	34631.9	33900.1	33310.4
23178.9	22964.1	23717.7	23721.4	24442.2	24515.0	23808.7	23401.0	22742.1	22771.2
15075.2	15020.6	15333.7	15985.3	16495.0	16789.9	16251.1	15763.3	15311.8	15122.5
9399.7	9399.7	9945.8	10353.5	11016.1	11285.5	10892.3	10546.5	10178.8	9953.1
5868.4	5770.2	6159.7	6498.3	7073.4	7441.1	7251.8	6935.1	6676.6	6556.5
3789.7	3848.0	4011.8	4179.3	4576.1	4958.3	4852.8	4725.3	4568.8	4514.2
2672.1	2712.2	2726.7	2905.1	3127.2	3382.0	3447.5	3389.3	3309.2	3247.3
1962.2	1998.6	2056.9	2140.6	2278.9	2450.0	2606.6	2577.5	2541.1	2511.9
1499.9	1543.6	1630.9	1700.1	1805.7	1896.7	2045.9	2071.4	2060.5	2038.7
1234.1	1259.6	1336.1	1405.2	1467.1	1543.6	1645.5	1725.6	1729.2	1707.4
1019.3	1044.8	1114.0	1205.0	1252.3	1306.9	1383.4	1481.7	1489.0	1481.7
862.8	881.0	946.5	1037.5	1095.8	1135.8	1208.6	1306.9	1321.5	1306.9
739.0	757.2	797.3	891.9	961.1	1001.1	1048.5	1154.0	1168.6	1165.0
637.1	658.9	699.0	757.2	855.5	891.9	935.6	1019.3	1044.8	1044.8
564.3	578.8	618.9	669.8	757.2	811.8	848.2	917.4	953.8	953.8
491.5	513.3	553.4	608.0	677.1	739.0	771.8	837.3	884.6	884.6
400.5	429.6	498.7	538.8	600.7	684.4	713.5	764.5	826.4	826.4
349.5	375.0	433.2	491.5	542.4	626.2	662.6	713.5	771.8	779.1
276.7	316.7	371.3	440.5	484.2	564.3	611.6	666.2	720.8	735.4
211.1	251.2	324.0	371.3	433.2	509.7	571.6	615.2	669.8	691.7
163.8	185.7	265.8	320.4	385.9	458.7	524.2	560.6	618.9	633.4
116.5	134.7	207.5	273.0	334.9	404.1	469.6	506.0	557.0	567.9
72.8	105.6	152.9	225.7	280.3	353.1	407.7	447.8	480.5	491.5
47.3	61.9	116.5	182.0	243.9	309.4	345.8	375.0	404.1	411.4
21.8	40.0	91.0	149.3	203.9	251.2	284.0	309.4	334.9	338.6
10.9	25.5	65.5	120.1	171.1	192.9	233.0	254.8	269.4	262.1
7.3	14.6	51.0	105.6	138.3	156.5	182.0	203.9	222.1	203.9
7.3	10.9	43.7	87.4	116.5	116.5	145.6	156.5	156.5	149.3
3.6	7.3	36.4	69.2	109.2	87.4	109.2	101.9	101.9	101.9
3.6	7.3	25.5	32.8	47.3	40.0	47.3	47.3	54.6	54.6
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
332015.2
321388.6
306484.5
281376.1
250588.6
216892.4
184623.2
153355.1
126470.2
102843.5
83141.2
52080.7
33525.2
22578.2
15155.3
9982.2
6527.4
4477.8
3254.6
2511.9
2024.1
1703.7
1478.0
1310.6
1165.0
1048.5
957.4
884.6
830.0
775.4
735.4
695.3
629.8
560.6
491.5
411.4
334.9
262.1
200.2
145.6
98.3
54.6
0.0

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