

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: P637839

Luminaire Tested: **IFLD-S-SA2A-730-U-66-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637839  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2A-730-U-66-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor  
Light Source: (32) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7088.8 lumens  
Efficiency: N/A  
Efficacy: 111.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B3 - U0 - G1

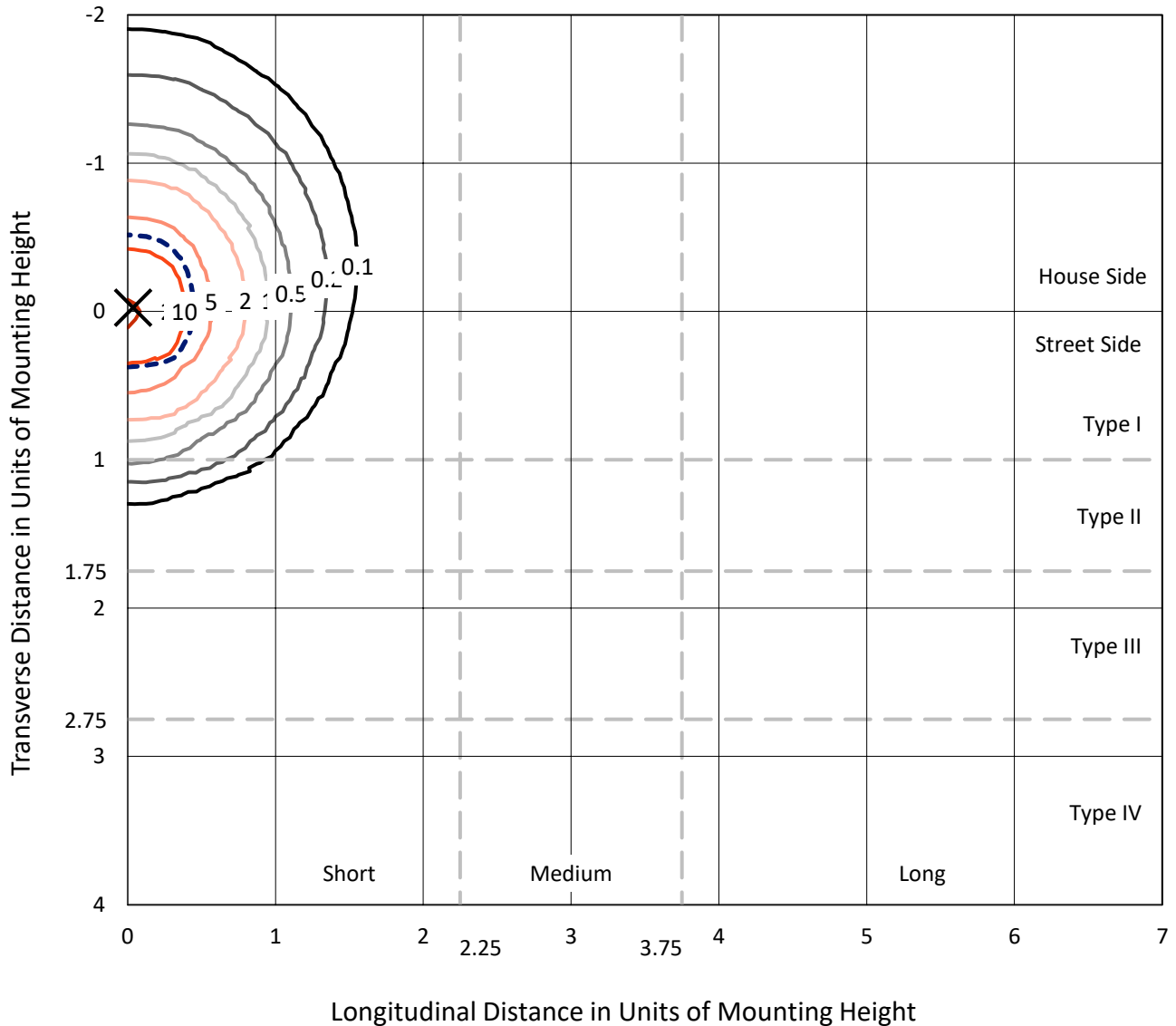
Input Watts (W): 63.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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 CATALOG NUMBER: IFLD-S-SA2A-730-U-66-VI

### Iso-Footcandle Lines of Horizontal Illumination

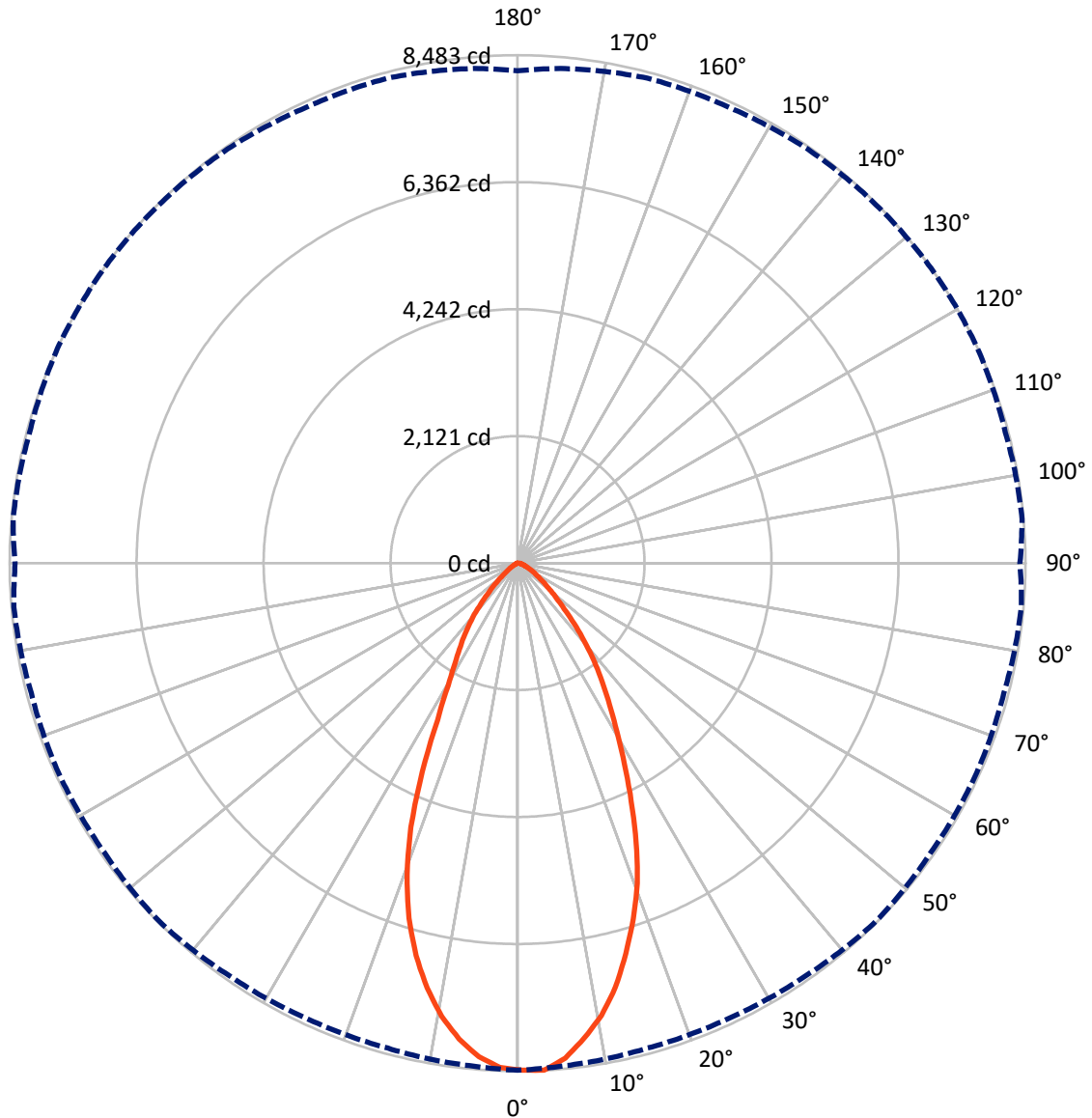
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 21.2 fc  
 Type I - Short - N/A

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CATALOG NUMBER: IFLD-S-SA2A-730-U-66-VI

### 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
<b>House Side</b>	Lumens	4022.4	0.0	4022.4
	% Fixture	56.7	0.0	56.7
<b>Street Side</b>	Lumens	3066.3	0.0	3066.3
	% Fixture	43.3	0.0	43.3
<b>Total</b>	Lumens	7088.8	0.0	7088.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	769.0	10.8
10°-20°	1833.2	25.9
20°-30°	1867.1	26.3
30°-40°	1392.3	19.6
40°-50°	727.4	10.3
50°-60°	305.9	4.3
60°-70°	124.9	1.8
70°-80°	52.6	0.7
80°-90°	16.2	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°	7088.8	100.0
0°-180°	7088.8	100.0



REPORT NUMBER: P637839

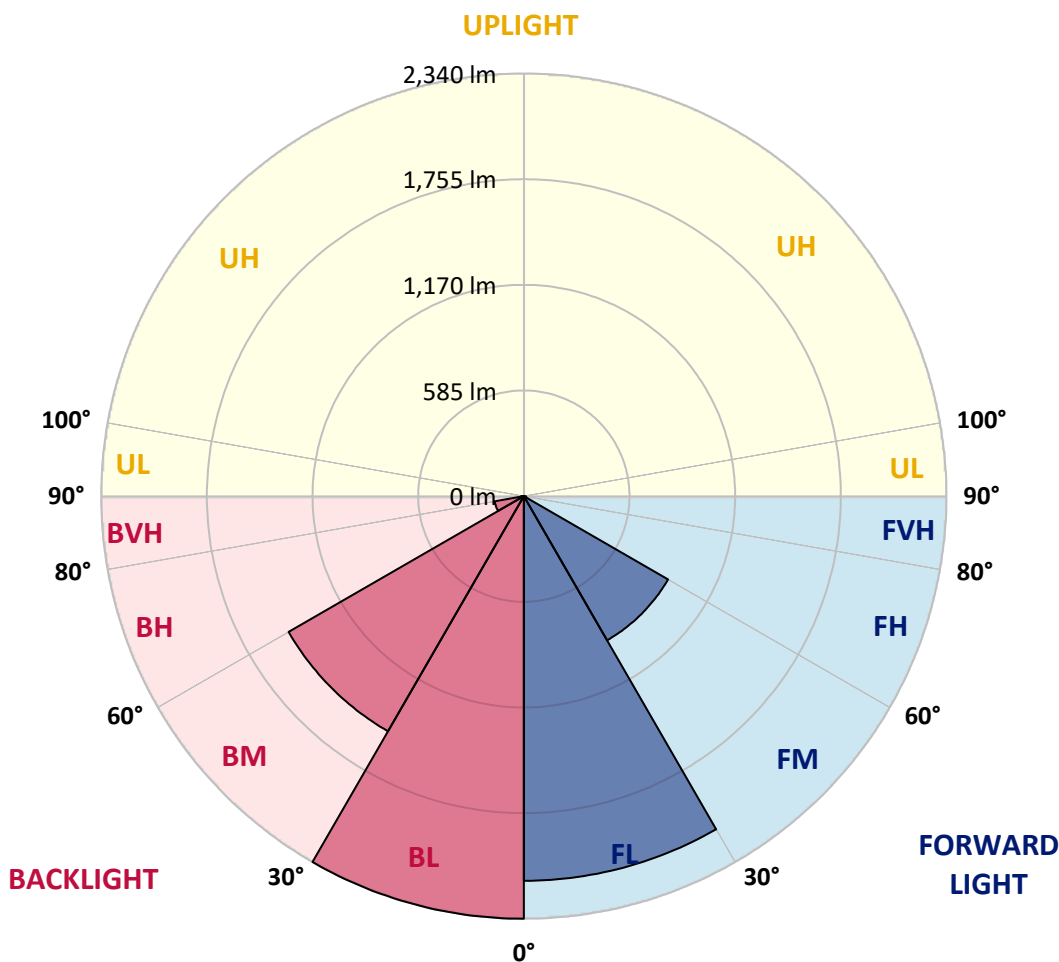
CATALOG NUMBER: IFLD-S-SA2A-730-U-66-VI

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2129.6	30.0			
FM (30°-60°)	921.9	13.0			
FH (60°-80°)	13.3	0.2			G0/660
FVH (80°-90°)	1.5	0.0			G0/10
BL (0°-30°)	2339.9	33.0	B3/2500		
BM (30°-60°)	1503.7	21.2	B2/2500		
BH (60°-80°)	164.2	2.3	B1/500		G1/500
BVH (80°-90°)	14.7	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type I Short





REPORT NUMBER: P637839  
 CATALOG NUMBER: IFLD-S-SA2A-730-U-66-VI

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8469.4	8469.4	8469.4	8469.4	8469.4	8469.4	8469.4	8469.4	8469.4	8469.4
2.5°	8470.3	8435.7	8386.5	8381.9	8407.4	8463.0	8427.5	8429.3	8407.4	8444.8
5°	8337.3	8304.5	8270.9	8226.2	8263.6	8287.2	8269.0	8249.0	8220.8	8257.2
7.5°	8086.0	8067.8	8017.7	7997.7	8020.4	8046.8	8007.7	8002.2	7963.1	8010.4
10°	7701.7	7694.5	7645.3	7633.4	7653.5	7693.5	7676.2	7672.6	7648.0	7643.5
12.5°	7302.9	7274.7	7213.7	7210.0	7240.1	7300.2	7253.7	7209.1	7222.8	7234.6
15°	6275.8	6245.7	6396.9	6634.5	6759.3	6754.7	6768.4	6714.7	6698.3	6703.7
17.5°	4989.1	4938.1	4992.7	5360.6	5953.4	6297.6	6202.9	6087.3	6025.3	5984.4
20°	4306.2	4308.9	4298.9	4393.6	4763.3	5548.2	5525.4	5302.3	5221.3	5187.6
22.5°	3890.9	3875.5	3853.6	3883.6	3982.9	4443.7	4752.3	4547.5	4519.2	4481.9
25°	3483.9	3483.9	3457.5	3487.5	3515.8	3522.1	3831.7	3915.5	3860.9	3860.9
27.5°	3131.5	3113.3	3101.5	3115.1	3077.8	2898.4	2937.6	3366.4	3329.1	3306.3
30°	2781.8	2776.4	2756.3	2774.6	2636.1	2434.0	2352.0	2841.0	2880.2	2872.0
32.5°	2296.5	2318.4	2407.6	2435.8	2199.1	2036.1	1957.8	2358.4	2515.0	2508.7
35°	1560.7	1579.0	1680.9	2017.9	1823.0	1706.4	1683.7	1875.8	2133.5	2158.1
37.5°	1242.9	1240.2	1269.4	1329.5	1465.1	1436.9	1430.5	1480.6	1740.1	1751.1
40°	1024.4	1020.8	1019.9	970.7	937.0	1194.7	1177.4	1147.3	1372.3	1394.1
42.5°	825.9	829.5	832.3	724.8	675.7	921.5	911.5	880.5	1076.3	1101.8
45°	648.3	647.4	652.9	540.0	526.3	589.1	681.1	656.5	812.2	839.6
47.5°	336.0	347.8	421.6	418.0	424.3	418.0	515.4	509.0	611.0	654.7
50°	225.8	229.5	235.8	236.8	334.2	307.8	349.7	396.1	428.0	495.4
52.5°	174.8	177.6	161.2	151.2	204.9	227.6	229.5	274.1	298.7	367.0
55°	97.4	109.3	117.5	118.4	112.9	168.5	167.5	203.1	222.2	267.7
57.5°	12.7	15.5	23.7	76.5	75.6	93.8	117.5	147.5	158.4	195.8
60°	0.9	1.8	2.7	11.8	50.1	54.6	80.1	92.0	110.2	137.5
62.5°	0.0	0.0	0.9	2.7	10.0	31.9	41.9	48.3	64.7	90.1
65°	0.0	0.0	0.9	1.8	3.6	11.8	16.4	26.4	38.2	55.5
67.5°	0.0	0.0	0.9	1.8	2.7	4.6	7.3	11.8	20.0	33.7
70°	0.0	0.0	0.9	1.8	2.7	3.6	5.5	7.3	10.9	18.2
72.5°	0.0	0.0	0.9	0.9	1.8	4.6	4.6	5.5	7.3	10.0
75°	0.0	0.0	0.9	1.8	2.7	4.6	4.6	4.6	5.5	6.4
77.5°	0.0	0.0	0.9	1.8	2.7	4.6	3.6	4.6	4.6	4.6
80°	0.0	0.0	0.9	1.8	2.7	4.6	5.5	4.6	3.6	3.6
82.5°	0.0	0.0	0.9	2.7	2.7	6.4	6.4	6.4	2.7	2.7
85°	0.0	0.0	1.8	2.7	4.6	7.3	7.3	5.5	2.7	1.8
87.5°	0.0	0.0	0.9	1.8	1.8	3.6	5.5	4.6	1.8	0.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P637839

CATALOG NUMBER: IFLD-S-SA2A-730-U-66-VI

**CANDELA DISTRIBUTION (continued):**

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
8469.4	0°	8469.4	8469.4	8469.4	8469.4	8469.4	8469.4	8469.4	8469.4	8469.4
8390.1	2.5°	8457.5	8434.8	8477.6	8483.0	8464.8	8442.0	8389.2	8384.7	8292.7
8204.4	5°	8297.3	8259.9	8287.2	8305.5	8299.1	8274.5	8252.6	8232.6	8149.7
7903.0	7.5°	7998.6	7984.9	7997.7	8011.3	8037.7	8011.3	8002.2	7981.3	7899.3
7606.1	10°	7667.1	7641.6	7689.9	7683.5	7676.2	7669.0	7630.7	7634.4	7537.8
7201.8	12.5°	7260.1	7217.3	7263.7	7269.2	7263.7	7238.2	7195.5	7213.7	7125.3
6655.5	15°	6712.8	6708.3	6742.0	6763.8	6779.3	6752.0	6737.4	6746.5	6693.7
5952.5	17.5°	6040.8	6100.0	6210.2	6247.5	6248.4	6276.7	6268.5	6257.5	6218.4
5173.9	20°	5250.4	5364.3	5533.6	5707.6	5757.6	5734.0	5723.0	5743.1	5684.8
4442.7	22.5°	4521.1	4618.5	4815.2	5069.2	5215.8	5230.4	5227.7	5210.4	5187.6
3857.2	25°	3901.9	3988.4	4176.9	4409.1	4690.4	4732.3	4734.1	4728.7	4708.6
3326.4	27.5°	3379.2	3483.9	3587.7	3795.3	4094.9	4267.9	4246.1	4239.7	4232.4
2878.4	30°	2905.7	3037.7	3135.1	3264.5	3533.1	3767.1	3789.9	3778.9	3761.6
2507.8	32.5°	2530.5	2608.8	2732.7	2820.1	3013.1	3278.1	3365.5	3357.3	3341.9
2173.6	35°	2204.5	2235.5	2332.9	2430.4	2558.7	2815.5	2944.8	2926.6	2923.9
1771.1	37.5°	1815.7	1919.5	1973.2	2071.6	2161.7	2361.1	2539.6	2531.4	2532.3
1424.2	40°	1466.0	1526.1	1632.7	1715.5	1798.4	1944.1	2142.6	2148.1	2146.3
1102.7	42.5°	1125.5	1183.8	1295.8	1385.9	1459.7	1549.8	1739.2	1745.6	1753.8
858.7	45°	878.7	916.0	998.0	1091.8	1170.1	1224.7	1368.6	1409.6	1410.5
665.6	47.5°	682.0	724.8	783.1	873.3	949.7	988.9	1093.6	1149.2	1146.4
510.8	50°	535.4	574.6	621.9	693.0	775.8	806.8	884.2	938.8	936.1
385.2	52.5°	409.8	459.8	501.7	556.4	637.4	663.8	719.4	782.2	773.1
282.3	55°	310.5	361.5	400.7	446.2	519.9	553.6	591.9	642.0	643.8
218.5	57.5°	234.0	286.8	322.3	368.8	424.3	461.7	490.8	544.5	543.6
149.3	60°	167.5	213.1	255.9	304.1	346.9	389.7	409.8	460.8	462.6
105.6	62.5°	121.1	163.9	204.9	246.8	285.0	326.9	345.1	385.2	390.6
69.2	65°	84.7	114.7	162.1	194.0	236.8	267.7	291.4	326.0	332.4
41.0	67.5°	54.6	82.9	128.4	156.6	195.8	222.2	246.8	274.1	282.3
26.4	70°	32.8	62.8	95.6	125.7	161.2	184.8	208.5	232.2	236.8
12.7	72.5°	20.9	43.7	69.2	102.0	129.3	154.8	175.7	193.0	179.4
8.2	75°	11.8	30.0	54.6	80.1	104.7	129.3	146.6	155.7	124.8
5.5	77.5°	7.3	21.9	44.6	64.7	81.0	103.8	114.7	120.2	89.2
3.6	80°	4.6	16.4	37.3	52.8	52.8	76.5	89.2	93.8	64.7
2.7	82.5°	3.6	11.8	29.1	40.1	35.5	57.4	70.1	71.0	45.5
1.8	85°	2.7	9.1	18.2	26.4	24.6	40.1	41.0	45.5	30.0
1.8	87.5°	1.8	5.5	10.9	15.5	13.7	19.1	21.9	24.6	16.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
8469.4
8220.8
8083.3
7882.0
7505.0
7099.8
6630.0
6160.1
5642.9
5143.9
4641.3
4189.6
3739.8
3300.9
2893.8
2503.2
2114.4
1726.5
1386.8
1136.4
936.1
774.0
643.8
541.8
458.0
388.8
330.5
281.4
233.1
166.6
118.4
83.8
60.1
41.9
27.3
14.6
0.0

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