

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: P638057

Luminaire Tested: **IFLD-M-SA4A-722-U-77-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638057  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4A-722-U-77-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor  
Light Source: (64) 2200K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10463.2 lumens  
Efficiency: N/A  
Efficacy: 81.4 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G1

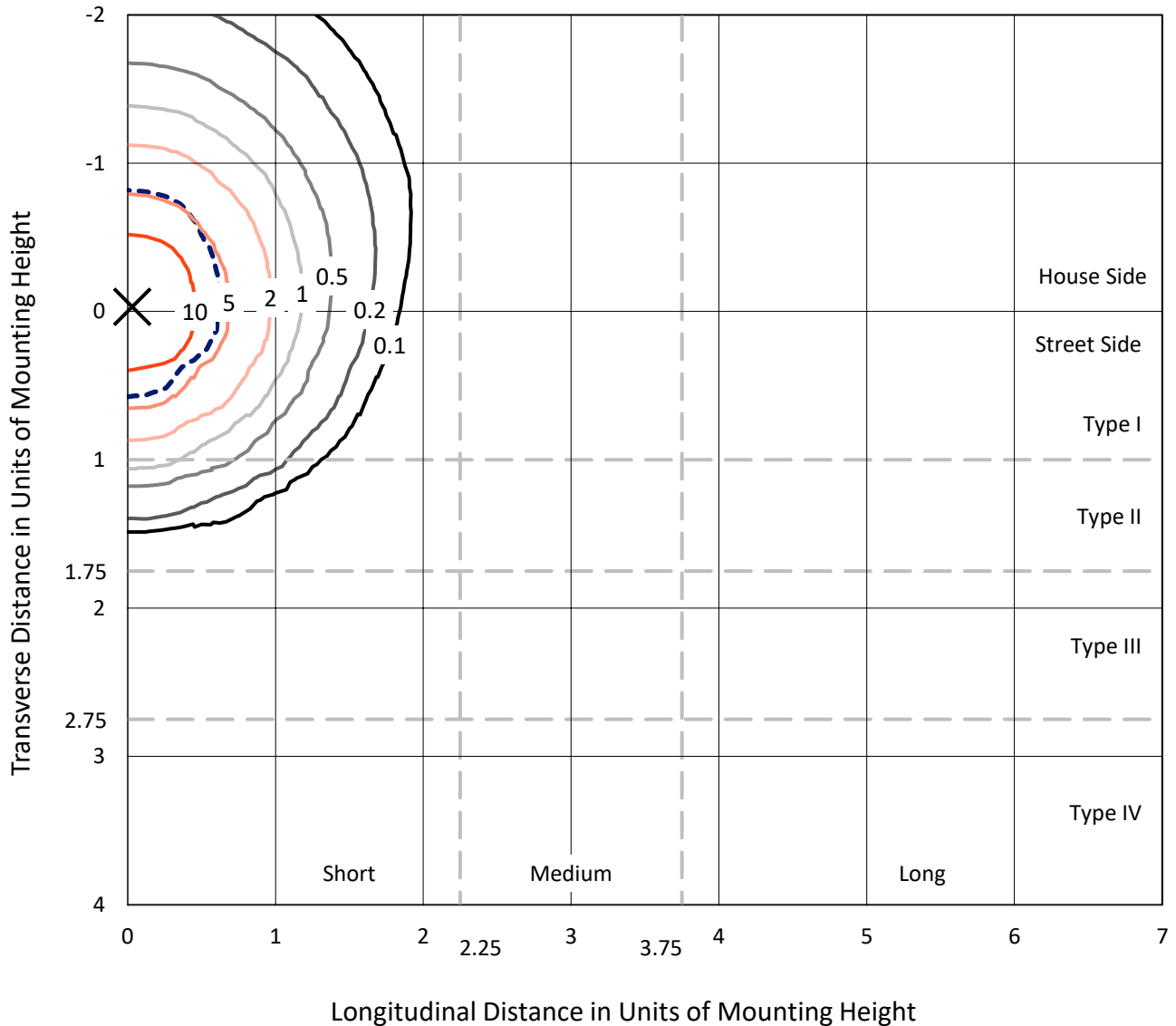
Input Watts (W): 128.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

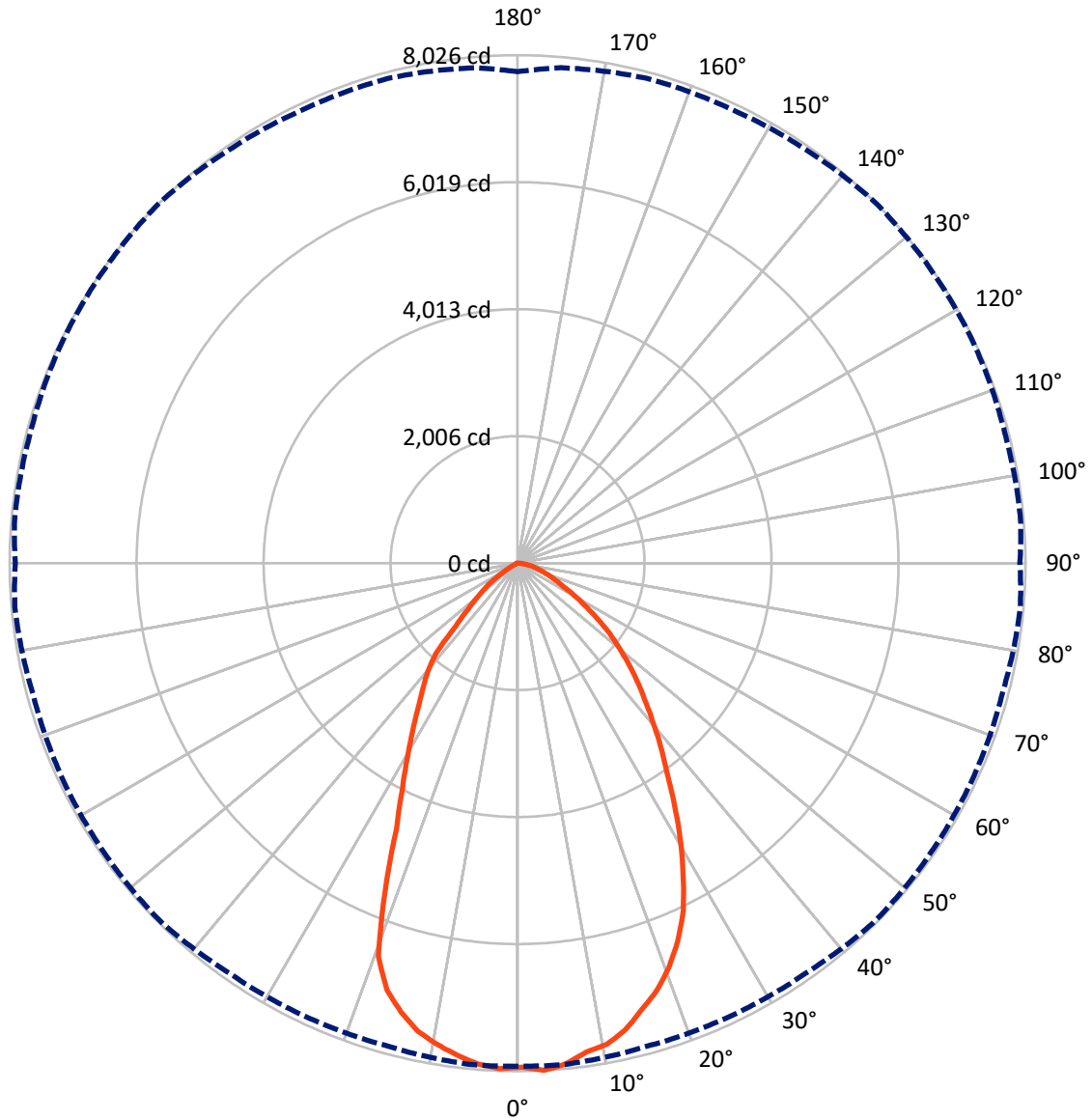
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 19.9 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 135-Deg Lateral    - - - Horizontal Cone Through 2.5-Deg Vertical

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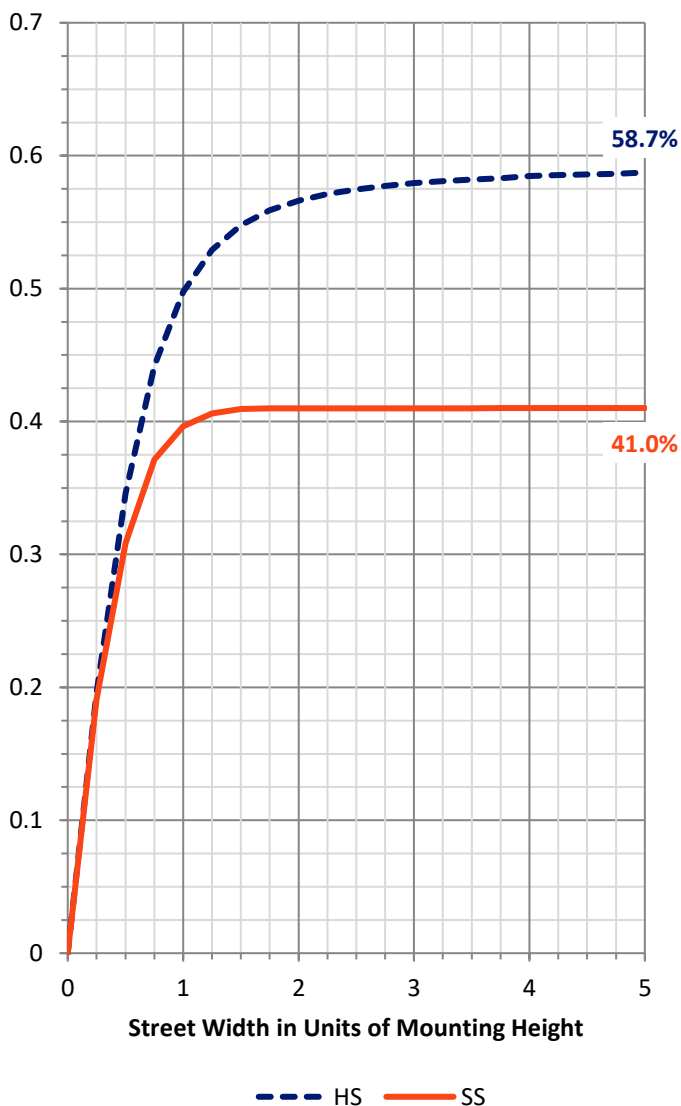
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6196.9	0.0	6196.9
	% Fixture	59.2	0.0	59.2
<b>Street Side</b>	Lumens	4266.4	0.0	4266.4
	% Fixture	40.8	0.0	40.8
<b>Total</b>	Lumens	10463.2	0.0	10463.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	746.8	7.1
10°-20°	2002.5	19.1
20°-30°	2442.1	23.3
30°-40°	2229.6	21.3
40°-50°	1611.3	15.4
50°-60°	879.8	8.4
60°-70°	363.8	3.5
70°-80°	147.3	1.4
80°-90°	40.1	0.4
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°	10463.2	100.0
0°-180°	10463.2	100.0



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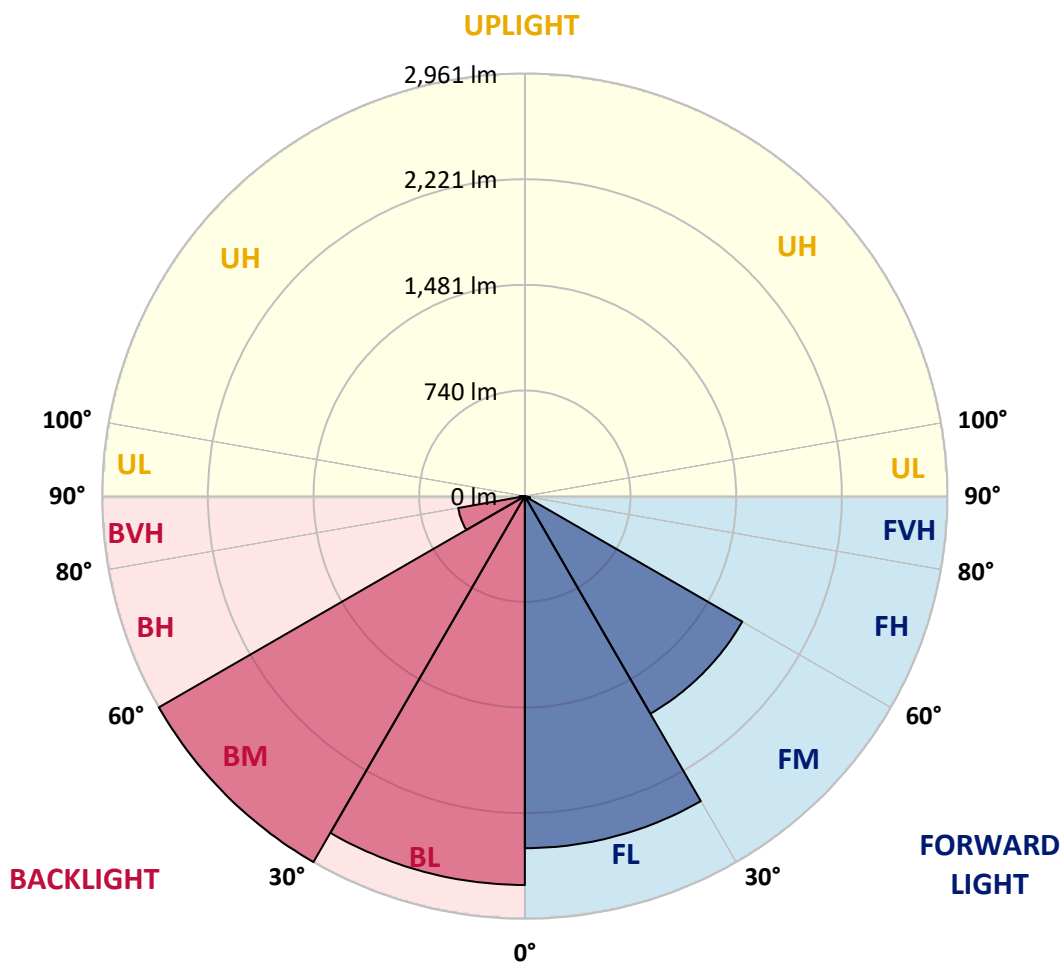
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2466.6	23.6			
FM (30°-60°)	1759.7	16.8			
FH (60°-80°)	36.9	0.4			G0/660
FVH (80°-90°)	3.2	0.0			G0/10
BL (0°-30°)	2724.8	26.0	B4/5000		
BM (30°-60°)	2961.0	28.3	B3/5000		
BH (60°-80°)	474.2	4.5	B1/500		G1/500
BVH (80°-90°)	36.9	0.4			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°	7962.5	7962.5	7962.5	7962.5	7962.5	7962.5	7962.5	7962.5	7962.5	7962.5
2.5°	7947.8	7958.1	7902.1	7908.0	7918.3	7993.5	7974.3	7956.6	7931.6	7974.3
5°	7937.5	7943.4	7884.4	7863.8	7872.6	7940.4	7878.5	7878.5	7872.6	7865.3
7.5°	7857.9	7860.8	7815.2	7778.3	7801.9	7832.8	7787.2	7809.3	7776.9	7801.9
10°	7738.5	7719.4	7664.9	7654.6	7681.1	7710.6	7679.6	7700.2	7670.8	7689.9
12.5°	7563.2	7533.7	7489.5	7476.3	7521.9	7561.7	7536.7	7524.9	7486.6	7533.7
15°	6886.9	6864.8	6965.0	7140.3	7298.0	7331.9	7305.4	7317.1	7237.6	7250.8
17.5°	5668.4	5627.1	5734.7	6150.2	6742.5	7054.9	7031.3	6954.7	6836.8	6863.3
20°	5151.2	5139.4	5127.6	5226.3	5640.4	6587.8	6620.2	6425.7	6257.7	6220.9
22.5°	4859.4	4855.0	4843.2	4865.3	4974.4	5582.9	5954.2	5774.4	5662.5	5652.1
25°	4592.7	4585.4	4550.0	4578.0	4578.0	4613.4	5089.3	5198.3	5099.6	5087.8
27.5°	4321.6	4308.4	4302.5	4315.7	4247.9	4009.3	4130.1	4662.0	4610.4	4613.4
30°	4028.4	4024.0	4007.8	4035.8	3826.5	3530.4	3453.8	4175.7	4186.1	4183.1
32.5°	3592.3	3611.4	3685.1	3716.0	3371.2	3126.7	2998.5	3612.9	3823.6	3819.2
35°	2609.5	2609.5	2849.6	3296.1	2954.3	2770.1	2700.8	3063.3	3465.5	3480.3
37.5°	2145.3	2152.7	2199.9	2403.2	2549.1	2484.2	2463.6	2578.5	3005.8	3029.4
40°	1930.2	1930.2	1930.2	1846.2	1841.8	2238.2	2226.4	2189.5	2596.2	2647.8
42.5°	1734.2	1738.7	1741.6	1529.4	1411.6	1934.6	1908.1	1852.1	2229.3	2289.7
45°	1532.4	1539.8	1548.6	1279.0	1227.4	1392.4	1614.9	1553.0	1866.9	1945.0
47.5°	935.6	947.4	1147.8	1084.5	1090.4	1074.1	1317.3	1306.9	1530.9	1641.4
50°	632.1	636.5	655.7	688.1	935.6	844.3	932.7	1081.5	1162.6	1330.5
52.5°	530.4	537.8	490.7	446.5	614.4	660.1	651.3	803.0	835.4	1043.2
55°	372.8	396.4	374.3	369.8	349.2	512.8	493.6	617.4	638.0	792.7
57.5°	38.3	44.2	76.6	275.5	228.4	290.3	352.2	452.3	473.0	585.0
60°	2.9	2.9	7.4	38.3	166.5	173.9	243.1	278.5	318.3	408.1
62.5°	0.0	1.5	2.9	5.9	26.5	92.8	122.3	145.9	191.5	263.7
65°	0.0	0.0	1.5	4.4	5.9	35.4	47.2	76.6	104.6	163.6
67.5°	0.0	0.0	1.5	2.9	4.4	8.8	16.2	28.0	56.0	92.8
70°	0.0	0.0	1.5	2.9	4.4	7.4	11.8	17.7	25.0	50.1
72.5°	0.0	0.0	1.5	1.5	2.9	7.4	8.8	11.8	17.7	25.0
75°	0.0	0.0	1.5	1.5	4.4	8.8	7.4	8.8	11.8	16.2
77.5°	0.0	0.0	1.5	2.9	4.4	8.8	7.4	8.8	8.8	10.3
80°	0.0	0.0	1.5	2.9	5.9	10.3	8.8	8.8	7.4	7.4
82.5°	0.0	0.0	1.5	4.4	5.9	13.3	13.3	11.8	5.9	4.4
85°	0.0	0.0	2.9	5.9	8.8	14.7	14.7	11.8	4.4	2.9
87.5°	0.0	0.0	2.9	4.4	7.4	10.3	14.7	11.8	4.4	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°
7962.5	0°	7962.5	7962.5	7962.5	7962.5	7962.5	7962.5	7962.5	7962.5	7962.5
7937.5	2.5°	7977.2	7968.4	7997.9	8009.7	8025.9	7964.0	7925.7	7927.1	7856.4
7847.6	5°	7894.7	7896.2	7934.5	7931.6	7947.8	7913.9	7899.2	7874.1	7812.2
7734.1	7.5°	7790.1	7776.9	7813.7	7841.7	7800.4	7824.0	7790.1	7801.9	7765.1
7633.9	10°	7709.1	7678.1	7712.0	7731.2	7732.7	7709.1	7676.7	7645.7	7632.5
7477.7	12.5°	7529.3	7489.5	7547.0	7573.5	7569.1	7523.4	7486.6	7494.0	7451.2
7203.7	15°	7281.8	7283.3	7324.5	7349.6	7326.0	7315.7	7318.6	7300.9	7264.1
6825.0	17.5°	6903.1	6925.2	7034.2	7094.6	7107.9	7087.3	7077.0	7056.3	7019.5
6220.9	20°	6272.5	6405.1	6599.6	6786.7	6823.5	6817.6	6780.8	6772.0	6751.3
5622.7	22.5°	5718.4	5817.2	6042.6	6334.4	6484.6	6499.4	6455.2	6441.9	6419.8
5087.8	25°	5145.3	5251.4	5454.7	5771.5	6082.4	6145.7	6138.4	6098.6	6075.0
4613.4	27.5°	4662.0	4768.1	4952.3	5238.1	5571.1	5774.4	5793.6	5730.2	5728.8
4190.5	30°	4225.8	4371.7	4511.7	4744.5	5067.2	5372.2	5404.6	5360.4	5364.8
3803.0	32.5°	3884.0	4004.8	4124.2	4280.4	4548.5	4903.6	5030.3	4989.1	4972.9
3480.3	35°	3534.8	3617.3	3739.6	3882.5	4065.2	4417.4	4636.9	4606.0	4589.8
3044.1	37.5°	3137.0	3278.4	3366.8	3527.4	3670.4	3950.3	4259.7	4255.3	4221.4
2672.8	40°	2728.8	2877.6	3011.7	3173.8	3284.3	3506.8	3850.1	3848.6	3853.1
2288.3	42.5°	2359.0	2496.0	2658.1	2834.9	2941.0	3103.1	3471.4	3492.1	3517.1
1971.5	45°	2024.5	2148.3	2298.6	2513.7	2641.9	2734.7	3061.8	3156.1	3154.7
1688.6	47.5°	1723.9	1840.3	1967.1	2176.3	2339.8	2423.8	2694.9	2829.0	2820.2
1385.0	50°	1446.9	1550.1	1682.7	1834.4	2054.0	2127.7	2329.5	2506.3	2493.1
1103.6	52.5°	1164.0	1306.9	1418.9	1557.4	1788.8	1861.0	2017.1	2189.5	2179.2
828.1	55°	907.6	1046.1	1181.7	1301.1	1495.5	1603.1	1715.1	1891.9	1889.0
648.3	57.5°	686.6	838.4	966.6	1080.0	1234.7	1367.4	1457.2	1617.8	1638.5
443.5	60°	508.3	624.7	763.2	890.0	1012.3	1149.3	1209.7	1367.4	1376.2
303.5	62.5°	346.3	474.5	610.0	724.9	816.3	957.7	1012.3	1141.9	1158.1
194.5	65°	240.2	322.7	477.4	559.9	671.9	792.7	847.2	950.4	982.8
112.0	67.5°	159.1	229.9	372.8	447.9	558.4	640.9	710.2	794.2	829.6
70.7	70°	86.9	169.4	266.7	353.6	449.4	529.0	596.7	664.5	695.5
32.4	72.5°	58.9	113.5	185.7	280.0	362.5	440.6	501.0	551.1	552.5
19.2	75°	29.5	76.6	141.5	216.6	282.9	359.5	414.0	443.5	408.1
11.8	77.5°	17.7	56.0	114.9	173.9	229.9	290.3	321.2	337.4	280.0
8.8	80°	10.3	39.8	89.9	138.5	159.1	213.6	243.1	247.5	187.1
5.9	82.5°	7.4	29.5	70.7	101.7	97.2	150.3	182.7	176.8	119.3
4.4	85°	4.4	20.6	44.2	63.4	58.9	98.7	106.1	109.0	69.3
2.9	87.5°	2.9	11.8	23.6	33.9	28.0	42.7	42.7	51.6	33.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
7962.5
7765.1
7797.5
7703.2
7573.5
7414.4
7227.3
7003.3
6704.2
6413.9
6050.0
5725.8
5342.7
4974.4
4567.7
4249.4
3853.1
3503.9
3157.6
2823.1
2504.9
2201.3
1896.3
1629.6
1389.5
1161.1
975.4
825.1
683.7
539.3
381.6
269.6
175.3
110.5
63.4
29.5
0.0

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