

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: P638251

Luminaire Tested: **IFLD-S-SA3B-827-U-77-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638251  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3B-827-U-77-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor  
Light Source: (48) 2700K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9621.2 lumens  
Efficiency: N/A  
Efficacy: 78.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G1

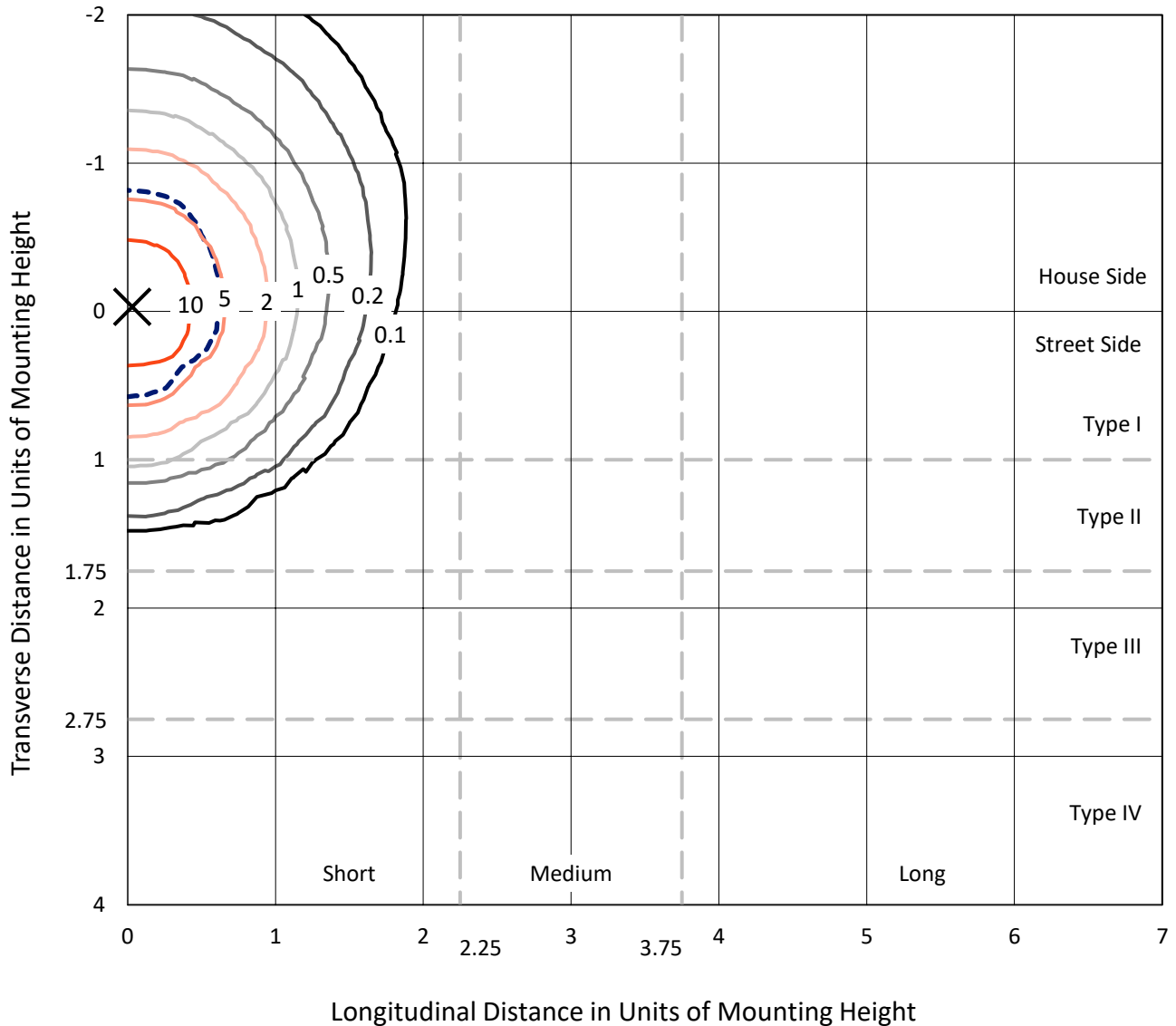
Input Watts (W): 122.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

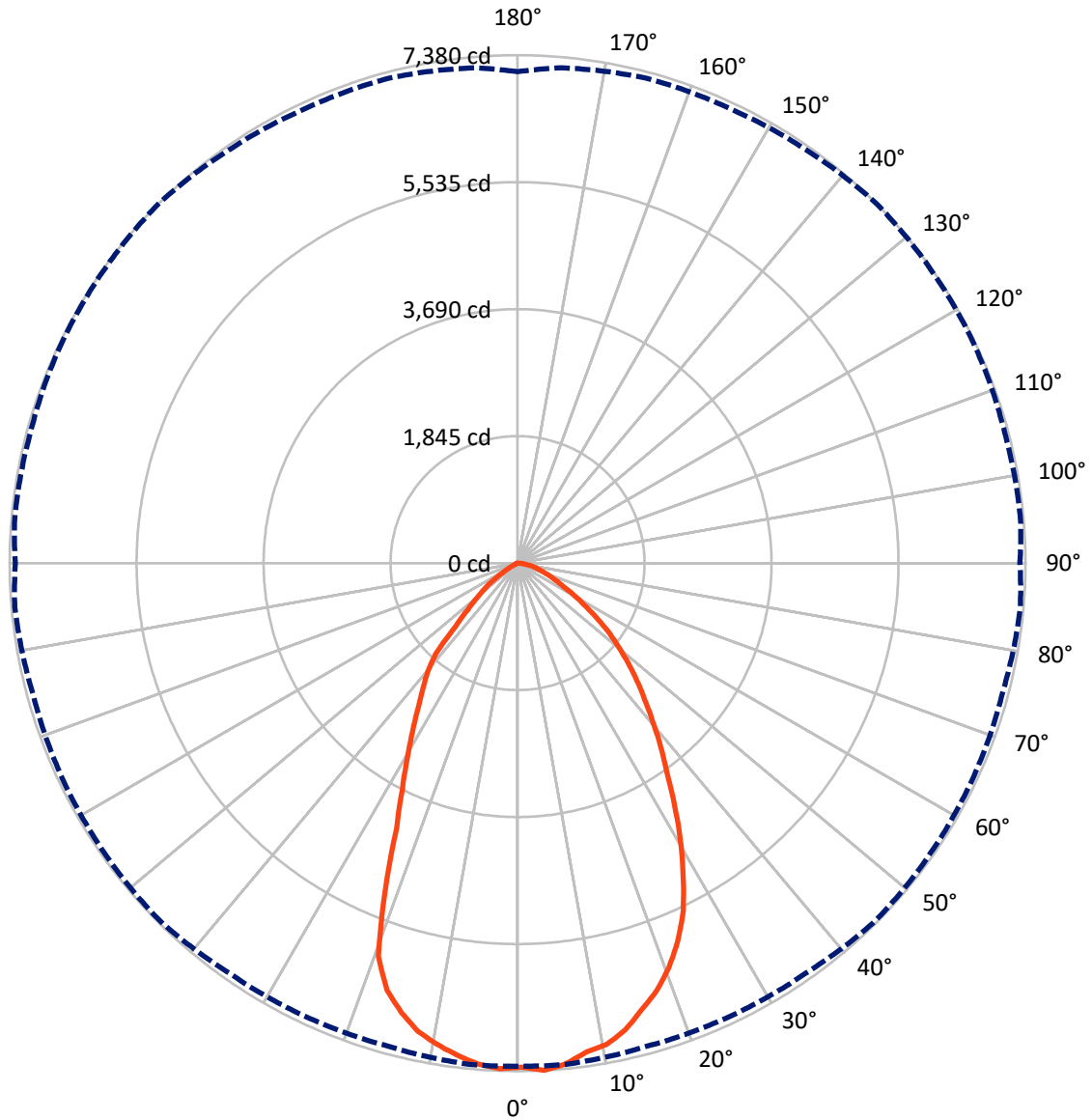
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 18.3 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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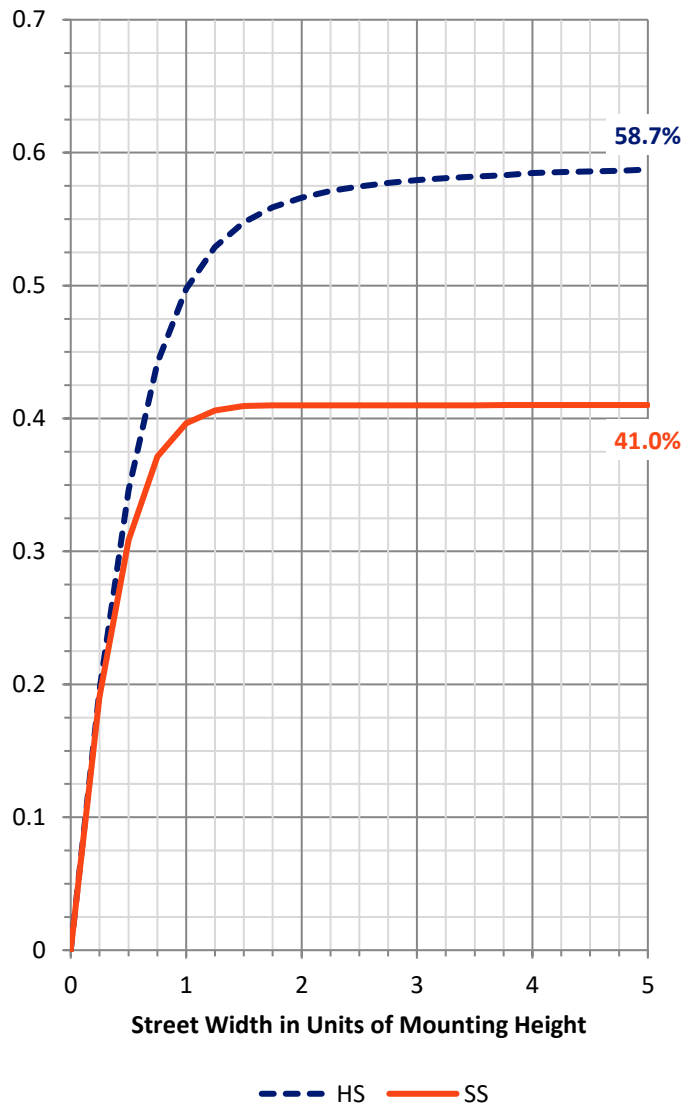
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5698.2	0.0	5698.2
	% Fixture	59.2	0.0	59.2
<b>Street Side</b>	Lumens	3923.1	0.0	3923.1
	% Fixture	40.8	0.0	40.8
<b>Total</b>	Lumens	9621.2	0.0	9621.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	686.7	7.1
10°-20°	1841.3	19.1
20°-30°	2245.6	23.3
30°-40°	2050.2	21.3
40°-50°	1481.6	15.4
50°-60°	809.0	8.4
60°-70°	334.5	3.5
70°-80°	135.5	1.4
80°-90°	36.9	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°	9621.2	100.0
0°-180°	9621.2	100.0



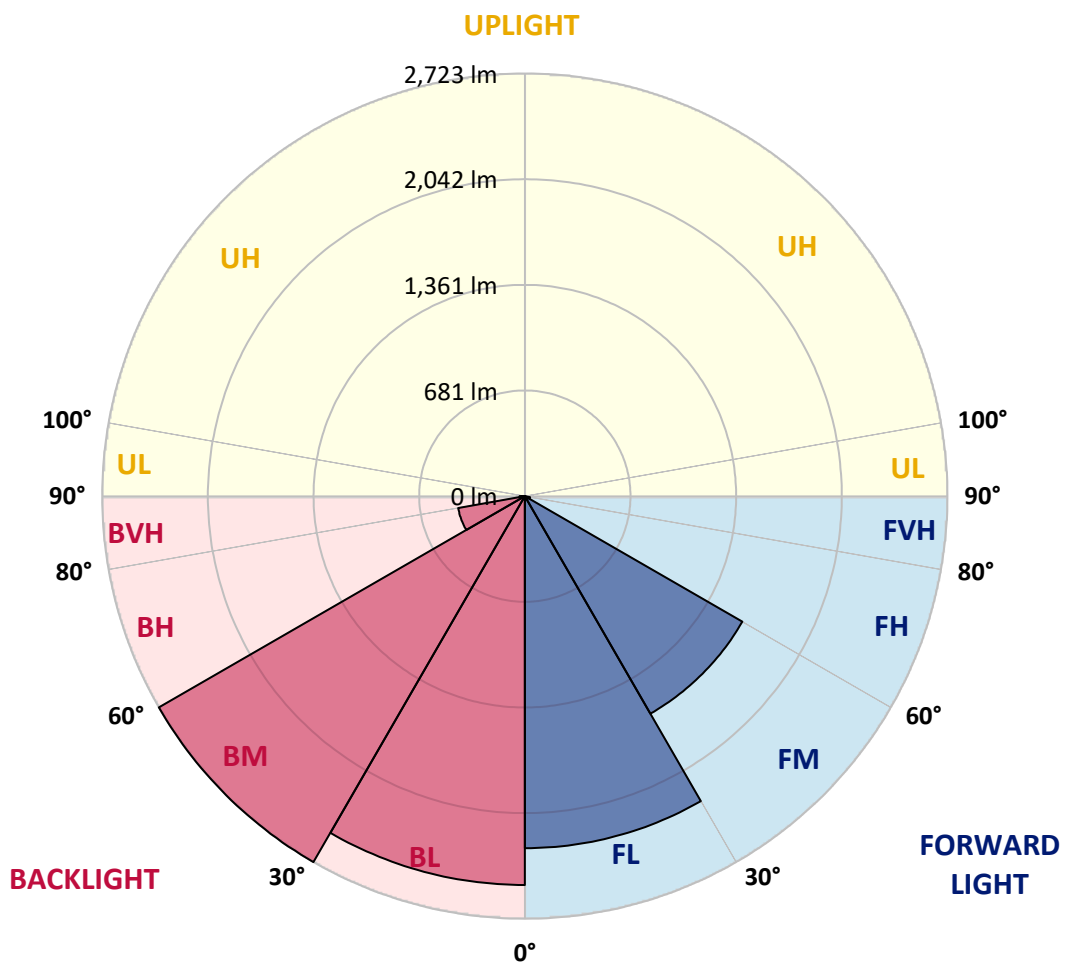
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2268.1	23.6			
FM (30°-60°)	1618.1	16.8			
FH (60°-80°)	33.9	0.4			G0/660
FVH (80°-90°)	3.0	0.0			G0/10
BL (0°-30°)	2505.5	26.0	B4/5000		
BM (30°-60°)	2722.7	28.3	B3/5000		
BH (60°-80°)	436.1	4.5	B1/500		G1/500
BVH (80°-90°)	33.9	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°	7321.7	7321.7	7321.7	7321.7	7321.7	7321.7	7321.7	7321.7	7321.7	7321.7
2.5°	7308.2	7317.7	7266.2	7271.6	7281.1	7350.2	7332.6	7316.3	7293.3	7332.6
5°	7298.7	7304.1	7249.9	7231.0	7239.1	7301.4	7244.5	7244.5	7239.1	7232.3
7.5°	7225.5	7228.2	7186.2	7152.4	7174.0	7202.5	7160.5	7180.8	7151.0	7174.0
10°	7115.8	7098.2	7048.0	7038.6	7062.9	7090.0	7061.6	7080.6	7053.5	7071.1
12.5°	6954.6	6927.5	6886.8	6874.6	6916.6	6953.2	6930.2	6919.3	6884.1	6927.5
15°	6332.7	6312.4	6404.5	6565.7	6710.7	6741.8	6717.5	6728.3	6655.1	6667.3
17.5°	5212.2	5174.3	5273.2	5655.2	6199.9	6487.1	6465.5	6395.0	6286.6	6311.0
20°	4736.6	4725.8	4715.0	4805.7	5186.5	6057.6	6087.4	5908.6	5754.1	5720.3
22.5°	4468.4	4464.3	4453.5	4473.8	4574.0	5133.6	5475.0	5309.7	5206.8	5197.3
25°	4223.1	4216.4	4183.8	4209.6	4209.6	4242.1	4679.7	4780.0	4689.2	4678.4
27.5°	3973.8	3961.6	3956.2	3968.4	3906.1	3686.6	3797.7	4286.8	4239.4	4242.1
30°	3704.2	3700.2	3685.3	3711.0	3518.6	3246.3	3175.8	3839.7	3849.2	3846.5
32.5°	3303.2	3320.8	3388.5	3417.0	3099.9	2875.0	2757.2	3322.1	3515.9	3511.8
35°	2399.5	2399.5	2620.3	3030.8	2716.5	2547.2	2483.5	2816.8	3186.7	3200.2
37.5°	1972.7	1979.5	2022.8	2209.8	2343.9	2284.3	2265.3	2371.0	2763.9	2785.6
40°	1774.9	1774.9	1774.9	1697.7	1693.6	2058.1	2047.2	2013.3	2387.3	2434.7
42.5°	1594.7	1598.7	1601.5	1406.4	1298.0	1778.9	1754.6	1703.1	2049.9	2105.5
45°	1409.1	1415.8	1424.0	1176.0	1128.6	1280.4	1484.9	1428.0	1716.6	1788.4
47.5°	860.3	871.2	1055.4	997.2	1002.6	987.7	1211.3	1201.8	1407.7	1509.3
50°	581.2	585.3	602.9	632.7	860.3	776.3	857.6	994.5	1069.0	1223.4
52.5°	487.8	494.5	451.2	410.5	565.0	607.0	598.9	738.4	768.2	959.2
55°	342.8	364.5	344.1	340.1	321.1	471.5	453.9	567.7	586.7	728.9
57.5°	35.2	40.6	70.5	253.4	210.0	266.9	323.8	415.9	434.9	537.9
60°	2.7	2.7	6.8	35.2	153.1	159.9	223.6	256.1	292.7	375.3
62.5°	0.0	1.4	2.7	5.4	24.4	85.4	112.5	134.1	176.1	242.5
65°	0.0	0.0	1.4	4.1	5.4	32.5	43.4	70.5	96.2	150.4
67.5°	0.0	0.0	1.4	2.7	4.1	8.1	14.9	25.7	51.5	85.4
70°	0.0	0.0	1.4	2.7	4.1	6.8	10.8	16.3	23.0	46.1
72.5°	0.0	0.0	1.4	1.4	2.7	6.8	8.1	10.8	16.3	23.0
75°	0.0	0.0	1.4	1.4	4.1	8.1	6.8	8.1	10.8	14.9
77.5°	0.0	0.0	1.4	2.7	4.1	8.1	6.8	8.1	8.1	9.5
80°	0.0	0.0	1.4	2.7	5.4	9.5	8.1	8.1	6.8	6.8
82.5°	0.0	0.0	1.4	4.1	5.4	12.2	12.2	10.8	5.4	4.1
85°	0.0	0.0	2.7	5.4	8.1	13.5	13.5	10.8	4.1	2.7
87.5°	0.0	0.0	2.7	4.1	6.8	9.5	13.5	10.8	4.1	1.4
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°
7321.7	0°	7321.7	7321.7	7321.7	7321.7	7321.7	7321.7	7321.7	7321.7	7321.7
7298.7	2.5°	7335.3	7327.1	7354.2	7365.1	7380.0	7323.1	7287.9	7289.2	7224.2
7216.1	5°	7259.4	7260.8	7296.0	7293.3	7308.2	7277.0	7263.5	7240.4	7183.5
7111.7	7.5°	7163.2	7151.0	7184.9	7210.6	7172.7	7194.4	7163.2	7174.0	7140.2
7019.6	10°	7088.7	7060.2	7091.4	7109.0	7110.4	7088.7	7058.9	7030.4	7018.2
6876.0	12.5°	6923.4	6886.8	6939.7	6964.0	6960.0	6918.0	6884.1	6890.9	6851.6
6624.0	15°	6695.8	6697.1	6735.1	6758.1	6736.4	6726.9	6729.7	6713.4	6679.5
6275.8	17.5°	6347.6	6367.9	6468.2	6523.7	6535.9	6516.9	6507.5	6488.5	6454.6
5720.3	20°	5767.7	5889.6	6068.5	6240.5	6274.4	6269.0	6235.1	6227.0	6208.0
5170.2	22.5°	5258.3	5349.0	5556.3	5824.6	5962.8	5976.3	5935.7	5923.5	5903.2
4678.4	25°	4731.2	4828.8	5015.7	5307.0	5592.9	5651.2	5644.4	5607.8	5586.1
4242.1	27.5°	4286.8	4384.4	4553.7	4816.6	5122.8	5309.7	5327.4	5269.1	5267.7
3853.3	30°	3885.8	4019.9	4148.6	4362.7	4659.4	4939.9	4969.7	4929.0	4933.1
3496.9	32.5°	3571.4	3682.5	3792.3	3935.9	4182.5	4509.0	4625.5	4587.6	4572.7
3200.2	35°	3250.3	3326.2	3438.7	3570.1	3738.1	4061.9	4263.8	4235.3	4220.4
2799.2	37.5°	2884.5	3014.6	3095.9	3243.6	3375.0	3632.4	3916.9	3912.9	3881.7
2457.7	40°	2509.2	2646.1	2769.4	2918.4	3020.0	3224.6	3540.3	3538.9	3543.0
2104.1	42.5°	2169.2	2295.2	2444.2	2606.8	2704.3	2853.4	3192.1	3211.0	3234.1
1812.8	45°	1861.6	1975.4	2113.6	2311.4	2429.3	2514.6	2815.4	2902.1	2900.8
1552.7	47.5°	1585.2	1692.2	1808.8	2001.1	2151.5	2228.8	2478.1	2601.4	2593.2
1273.6	50°	1330.5	1425.3	1547.3	1686.8	1888.7	1956.4	2142.1	2304.6	2292.4
1014.8	52.5°	1070.3	1201.8	1304.7	1432.1	1644.8	1711.2	1854.8	2013.3	2003.9
761.4	55°	834.6	962.0	1086.6	1196.4	1375.2	1474.1	1577.1	1739.7	1736.9
596.1	57.5°	631.4	770.9	888.8	993.1	1135.4	1257.3	1340.0	1487.6	1506.6
407.8	60°	467.4	574.5	701.8	818.3	930.8	1056.8	1112.4	1257.3	1265.5
279.1	62.5°	318.4	436.3	560.9	666.6	750.6	880.7	930.8	1050.0	1064.9
178.8	65°	220.8	296.7	439.0	514.9	617.8	728.9	779.1	873.9	903.7
103.0	67.5°	146.3	211.4	342.8	411.9	513.5	589.4	653.0	730.3	762.8
65.0	70°	79.9	155.8	245.2	325.2	413.2	486.4	548.7	611.0	639.5
29.8	72.5°	54.2	104.3	170.7	257.4	333.3	405.1	460.7	506.7	508.1
17.6	75°	27.1	70.5	130.1	199.2	260.1	330.6	380.7	407.8	375.3
10.8	77.5°	16.3	51.5	105.7	159.9	211.4	266.9	295.4	310.3	257.4
8.1	80°	9.5	36.6	82.6	127.4	146.3	196.5	223.6	227.6	172.1
5.4	82.5°	6.8	27.1	65.0	93.5	89.4	138.2	168.0	162.6	109.7
4.1	85°	4.1	19.0	40.6	58.3	54.2	90.8	97.6	100.3	63.7
2.7	87.5°	2.7	10.8	21.7	31.2	25.7	39.3	39.3	47.4	31.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
7321.7
7140.2
7170.0
7083.3
6964.0
6817.7
6645.6
6439.7
6164.7
5897.8
5563.1
5265.0
4912.8
4574.0
4200.1
3907.5
3543.0
3221.9
2903.5
2595.9
2303.3
2024.2
1743.7
1498.5
1277.6
1067.6
896.9
758.7
628.7
495.9
350.9
247.9
161.2
101.6
58.3
27.1
0.0

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