

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: P636810

Luminaire Tested: **IFLD-M-SA4A-940-U-77-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P636810  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4A-940-U-77-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor  
Light Source: (64) 4000K CCT, 90 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10264.4 lumens  
Efficiency: N/A  
Efficacy: 79.8 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G1

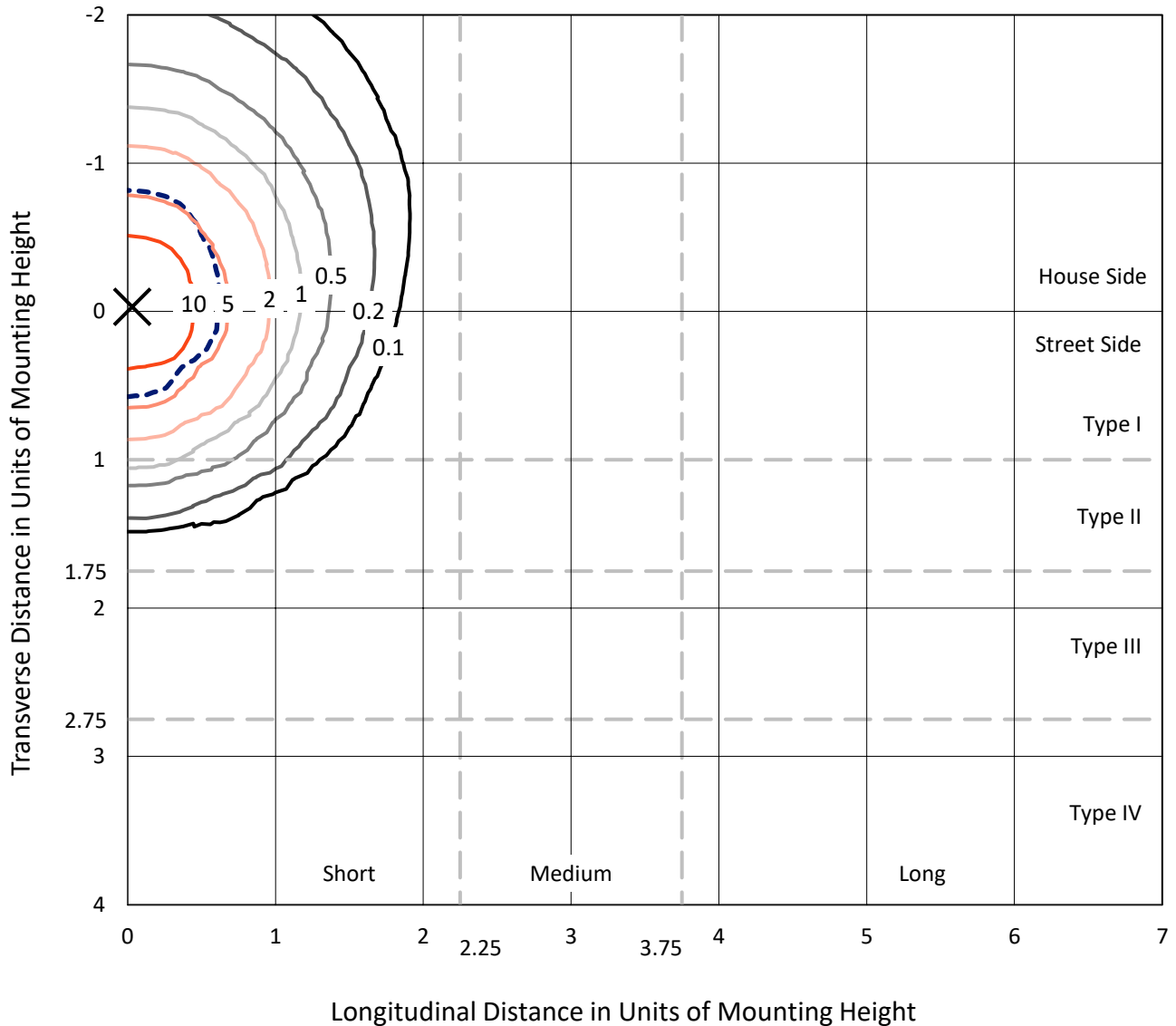
Input Watts (W): 128.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

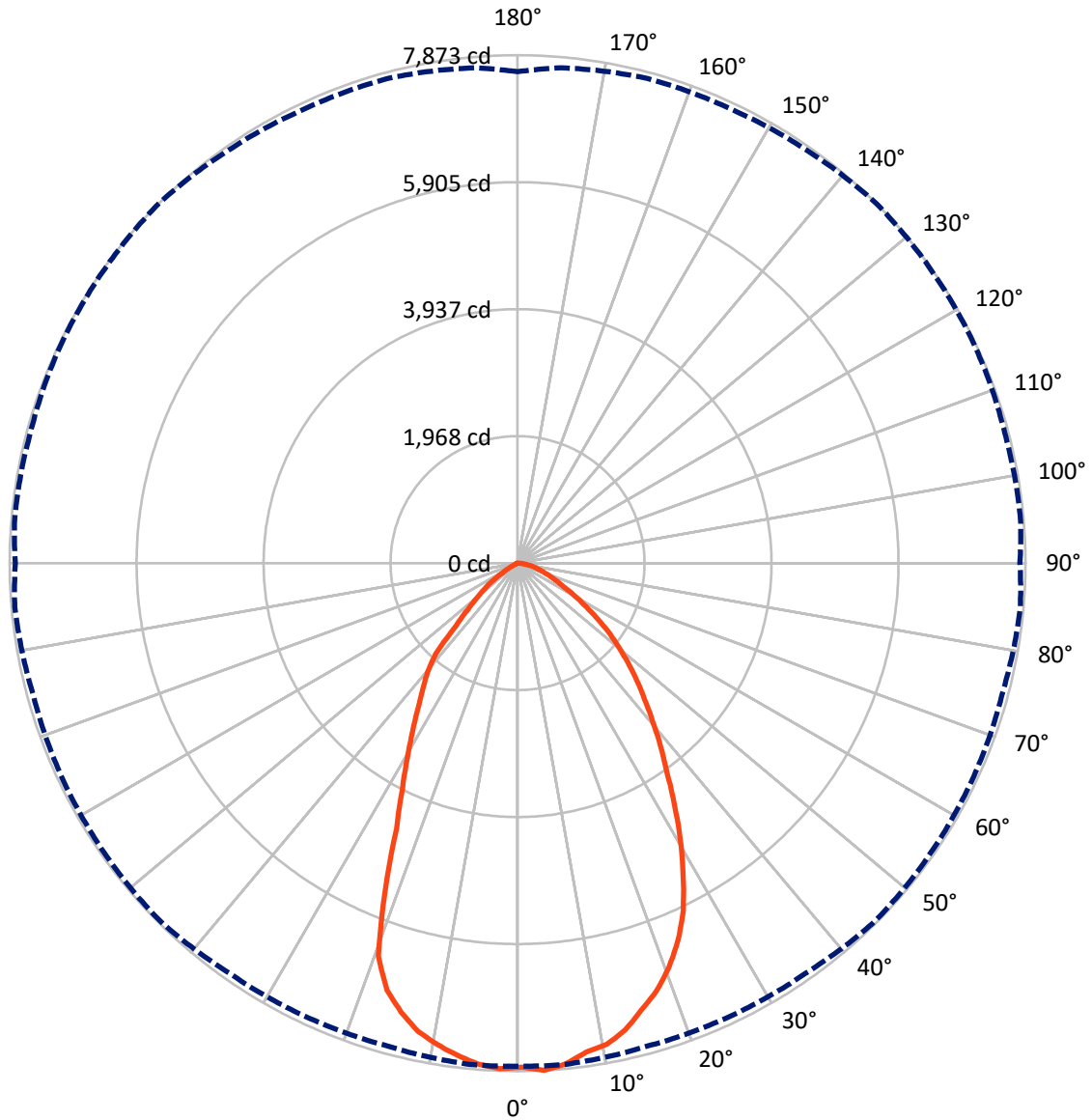
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 19.5 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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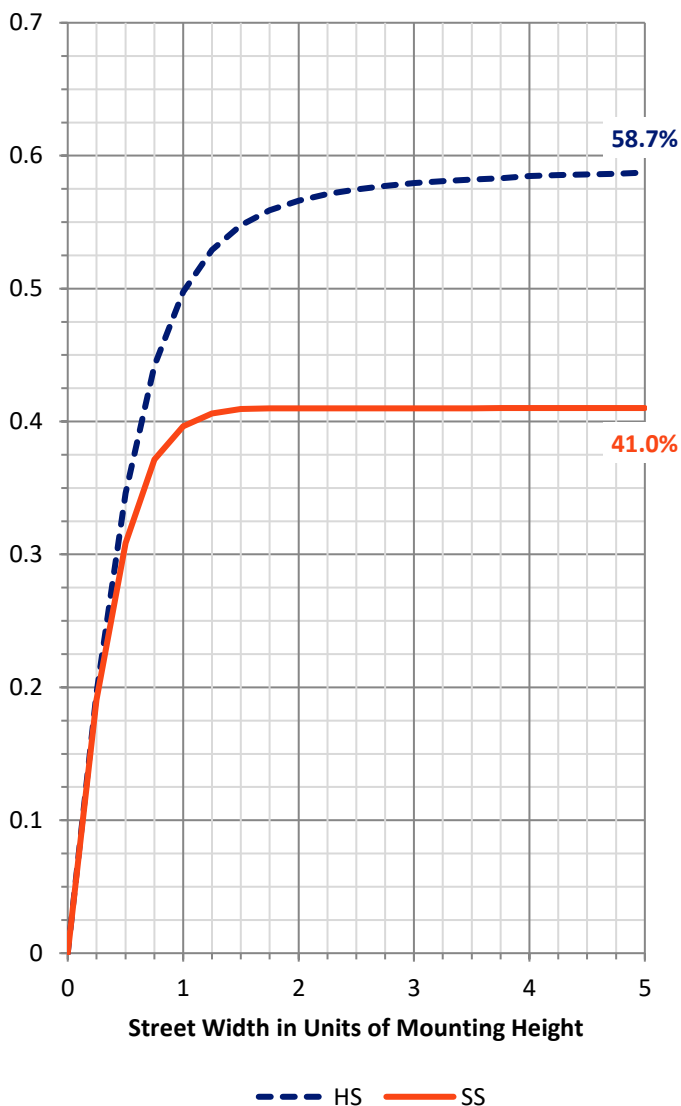
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6079.1	0.0	6079.1
	% Fixture	59.2	0.0	59.2
<b>Street Side</b>	Lumens	4185.3	0.0	4185.3
	% Fixture	40.8	0.0	40.8
<b>Total</b>	Lumens	10264.4	0.0	10264.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	732.6	7.1
10°-20°	1964.4	19.1
20°-30°	2395.7	23.3
30°-40°	2187.3	21.3
40°-50°	1580.7	15.4
50°-60°	863.1	8.4
60°-70°	356.8	3.5
70°-80°	144.5	1.4
80°-90°	39.3	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°	10264.4	100.0
0°-180°	10264.4	100.0



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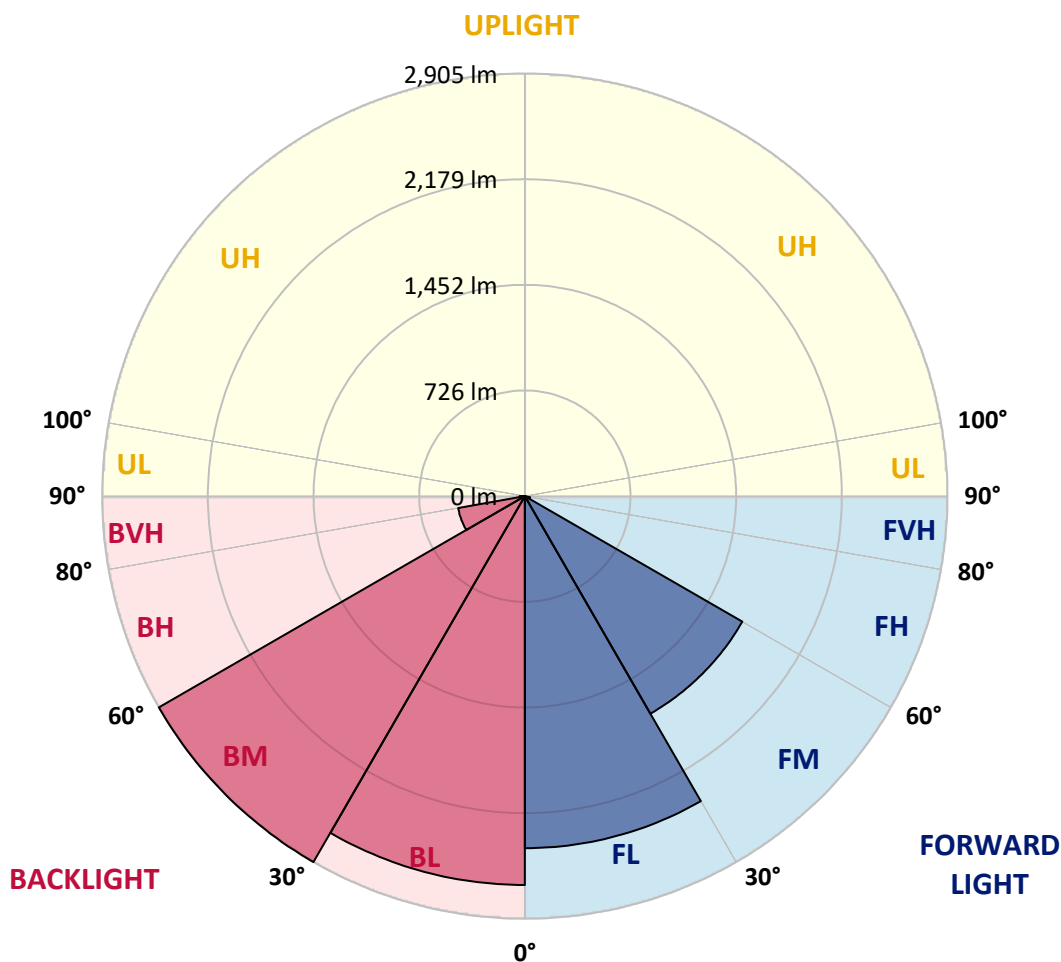
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2419.7	23.6			
FM (30°-60°)	1726.3	16.8			
FH (60°-80°)	36.2	0.4			G0/660
FVH (80°-90°)	3.1	0.0			G0/10
BL (0°-30°)	2673.0	26.0	B4/5000		
BM (30°-60°)	2904.7	28.3	B3/5000		
BH (60°-80°)	465.2	4.5	B1/500		G1/500
BVH (80°-90°)	36.2	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°	7811.2	7811.2	7811.2	7811.2	7811.2	7811.2	7811.2	7811.2	7811.2	7811.2
2.5°	7796.7	7806.8	7751.9	7757.7	7767.8	7841.5	7822.7	7805.4	7780.8	7822.7
5°	7786.6	7792.4	7734.6	7714.3	7723.0	7789.5	7728.8	7728.8	7723.0	7715.8
7.5°	7708.5	7711.4	7666.6	7630.5	7653.6	7684.0	7639.2	7660.8	7629.0	7653.6
10°	7591.5	7572.7	7519.2	7509.1	7535.1	7564.0	7533.6	7553.9	7525.0	7543.8
12.5°	7419.5	7390.5	7347.2	7334.2	7379.0	7418.0	7393.4	7381.9	7344.3	7390.5
15°	6756.0	6734.3	6832.6	7004.6	7159.3	7192.5	7166.5	7178.1	7100.0	7113.0
17.5°	5560.6	5520.1	5625.7	6033.3	6614.3	6920.8	6897.7	6822.5	6706.9	6732.9
20°	5053.3	5041.7	5030.1	5127.0	5533.2	6462.6	6494.4	6303.6	6138.8	6102.7
22.5°	4767.1	4762.7	4751.2	4772.9	4879.8	5476.8	5841.0	5664.7	5554.8	5544.7
25°	4505.4	4498.2	4463.5	4491.0	4491.0	4525.7	4992.6	5099.5	5002.7	4991.1
27.5°	4239.5	4226.5	4220.7	4233.7	4167.2	3933.0	4051.6	4573.4	4522.8	4525.7
30°	3951.8	3947.5	3931.6	3959.1	3753.8	3463.3	3388.1	4096.4	4106.5	4103.6
32.5°	3524.0	3542.8	3615.1	3645.4	3307.2	3067.2	2941.5	3544.2	3750.9	3746.6
35°	2559.9	2559.9	2795.5	3233.5	2898.1	2717.4	2649.5	3005.1	3399.7	3414.1
37.5°	2104.6	2111.8	2158.0	2357.5	2500.6	2437.0	2416.8	2529.5	2948.7	2971.8
40°	1893.5	1893.5	1893.5	1811.1	1806.8	2195.6	2184.1	2147.9	2546.9	2597.5
42.5°	1701.3	1705.6	1708.5	1500.4	1384.7	1897.9	1871.8	1816.9	2187.0	2246.2
45°	1503.3	1510.5	1519.2	1254.6	1204.1	1365.9	1584.2	1523.5	1831.4	1908.0
47.5°	917.9	929.4	1126.0	1063.8	1069.6	1053.7	1292.2	1282.1	1501.8	1610.2
50°	620.1	624.4	643.2	675.0	917.9	828.2	915.0	1061.0	1140.5	1305.2
52.5°	520.4	527.6	481.3	438.0	602.7	647.6	638.9	787.8	819.6	1023.4
55°	365.7	388.8	367.1	362.8	342.6	503.0	484.2	605.6	625.9	777.6
57.5°	37.6	43.4	75.2	270.3	224.0	284.8	345.5	443.8	464.0	573.8
60°	2.9	2.9	7.2	37.6	163.3	170.6	238.5	273.2	312.2	400.4
62.5°	0.0	1.4	2.9	5.8	26.0	91.1	120.0	143.1	187.9	258.7
65°	0.0	0.0	1.4	4.3	5.8	34.7	46.3	75.2	102.6	160.4
67.5°	0.0	0.0	1.4	2.9	4.3	8.7	15.9	27.5	54.9	91.1
70°	0.0	0.0	1.4	2.9	4.3	7.2	11.6	17.3	24.6	49.1
72.5°	0.0	0.0	1.4	1.4	2.9	7.2	8.7	11.6	17.3	24.6
75°	0.0	0.0	1.4	1.4	4.3	8.7	7.2	8.7	11.6	15.9
77.5°	0.0	0.0	1.4	2.9	4.3	8.7	7.2	8.7	8.7	10.1
80°	0.0	0.0	1.4	2.9	5.8	10.1	8.7	8.7	7.2	7.2
82.5°	0.0	0.0	1.4	4.3	5.8	13.0	13.0	11.6	5.8	4.3
85°	0.0	0.0	2.9	5.8	8.7	14.5	14.5	11.6	4.3	2.9
87.5°	0.0	0.0	2.9	4.3	7.2	10.1	14.5	11.6	4.3	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°
7811.2	0°	7811.2	7811.2	7811.2	7811.2	7811.2	7811.2	7811.2	7811.2	7811.2
7786.6	2.5°	7825.6	7817.0	7845.9	7857.4	7873.3	7812.6	7775.0	7776.5	7707.1
7698.4	5°	7744.7	7746.1	7783.7	7780.8	7796.7	7763.5	7749.0	7724.4	7663.7
7587.1	7.5°	7642.1	7629.0	7665.2	7692.6	7652.2	7675.3	7642.1	7653.6	7617.5
7488.8	10°	7562.6	7532.2	7565.4	7584.2	7585.7	7562.6	7530.8	7500.4	7487.4
7335.6	12.5°	7386.2	7347.2	7403.6	7429.6	7425.2	7380.4	7344.3	7351.5	7309.6
7066.8	15°	7143.4	7144.8	7185.3	7209.9	7186.7	7176.6	7179.5	7162.2	7126.0
6695.3	17.5°	6771.9	6793.6	6900.5	6959.8	6972.8	6952.6	6942.5	6922.2	6886.1
6102.7	20°	6153.2	6283.3	6474.1	6657.7	6693.8	6688.1	6651.9	6643.3	6623.0
5515.8	22.5°	5609.8	5706.6	5927.8	6214.0	6361.4	6375.8	6332.5	6319.5	6297.8
4991.1	25°	5047.5	5151.6	5351.0	5661.8	5966.8	6028.9	6021.7	5982.7	5959.6
4525.7	27.5°	4573.4	4677.5	4858.1	5138.5	5465.2	5664.7	5683.5	5621.3	5619.9
4110.8	30°	4145.5	4288.6	4425.9	4654.3	4970.9	5270.1	5301.9	5258.5	5262.9
3730.7	32.5°	3810.2	3928.7	4045.8	4199.0	4462.1	4810.4	4934.7	4894.3	4878.4
3414.1	35°	3467.6	3548.6	3668.5	3808.7	3988.0	4333.4	4548.8	4518.5	4502.6
2986.3	37.5°	3077.3	3216.1	3302.8	3460.4	3600.6	3875.2	4178.8	4174.4	4141.2
2622.0	40°	2677.0	2822.9	2954.5	3113.5	3221.9	3440.2	3776.9	3775.5	3779.8
2244.8	42.5°	2314.2	2448.6	2607.6	2781.0	2885.1	3044.1	3405.5	3425.7	3450.3
1934.0	45°	1986.0	2107.5	2254.9	2465.9	2591.7	2682.7	3003.6	3096.1	3094.7
1656.5	47.5°	1691.2	1805.4	1929.7	2134.9	2295.4	2377.8	2643.7	2775.3	2766.6
1358.7	50°	1419.4	1520.6	1650.7	1799.6	2014.9	2087.2	2285.2	2458.7	2445.7
1082.6	52.5°	1141.9	1282.1	1392.0	1527.8	1754.8	1825.6	1978.8	2147.9	2137.8
812.3	55°	890.4	1026.3	1159.2	1276.3	1467.1	1572.6	1682.5	1855.9	1853.1
636.0	57.5°	673.6	822.5	948.2	1059.5	1211.3	1341.4	1429.5	1587.1	1607.3
435.1	60°	498.7	612.9	748.7	873.0	993.0	1127.4	1186.7	1341.4	1350.0
297.8	62.5°	339.7	465.4	598.4	711.2	800.8	939.5	993.0	1120.2	1136.1
190.8	65°	235.6	316.6	468.3	549.3	659.1	777.6	831.1	932.3	964.1
109.9	67.5°	156.1	225.5	365.7	439.4	547.8	628.8	696.7	779.1	813.8
69.4	70°	85.3	166.2	261.6	346.9	440.9	518.9	585.4	651.9	682.2
31.8	72.5°	57.8	111.3	182.1	274.6	355.6	432.2	491.5	540.6	542.0
18.8	75°	28.9	75.2	138.8	212.5	277.5	352.7	406.2	435.1	400.4
11.6	77.5°	17.3	54.9	112.7	170.6	225.5	284.8	315.1	331.0	274.6
8.7	80°	10.1	39.0	88.2	135.9	156.1	209.6	238.5	242.8	183.6
5.8	82.5°	7.2	28.9	69.4	99.7	95.4	147.4	179.2	173.5	117.1
4.3	85°	4.3	20.2	43.4	62.2	57.8	96.8	104.1	107.0	67.9
2.9	87.5°	2.9	11.6	23.1	33.2	27.5	41.9	41.9	50.6	33.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
7811.2  
7617.5  
7649.3  
7556.8  
7429.6  
7273.5  
7089.9  
6870.2  
6576.8  
6292.0  
5935.0  
5617.0  
5241.2  
4879.8  
4480.9  
4168.7  
3779.8  
3437.3  
3097.6  
2769.5  
2457.3  
2159.5  
1860.3  
1598.7  
1363.1  
1139.0  
956.9  
809.4  
670.7  
529.0  
374.4  
264.5  
172.0  
108.4  
62.2  
28.9  
0.0

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