

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: P636902

Luminaire Tested: **IFLD-L-SA7A-930-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636902
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-930-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (112) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14764.6 lumens
Efficiency: N/A
Efficacy: 67.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

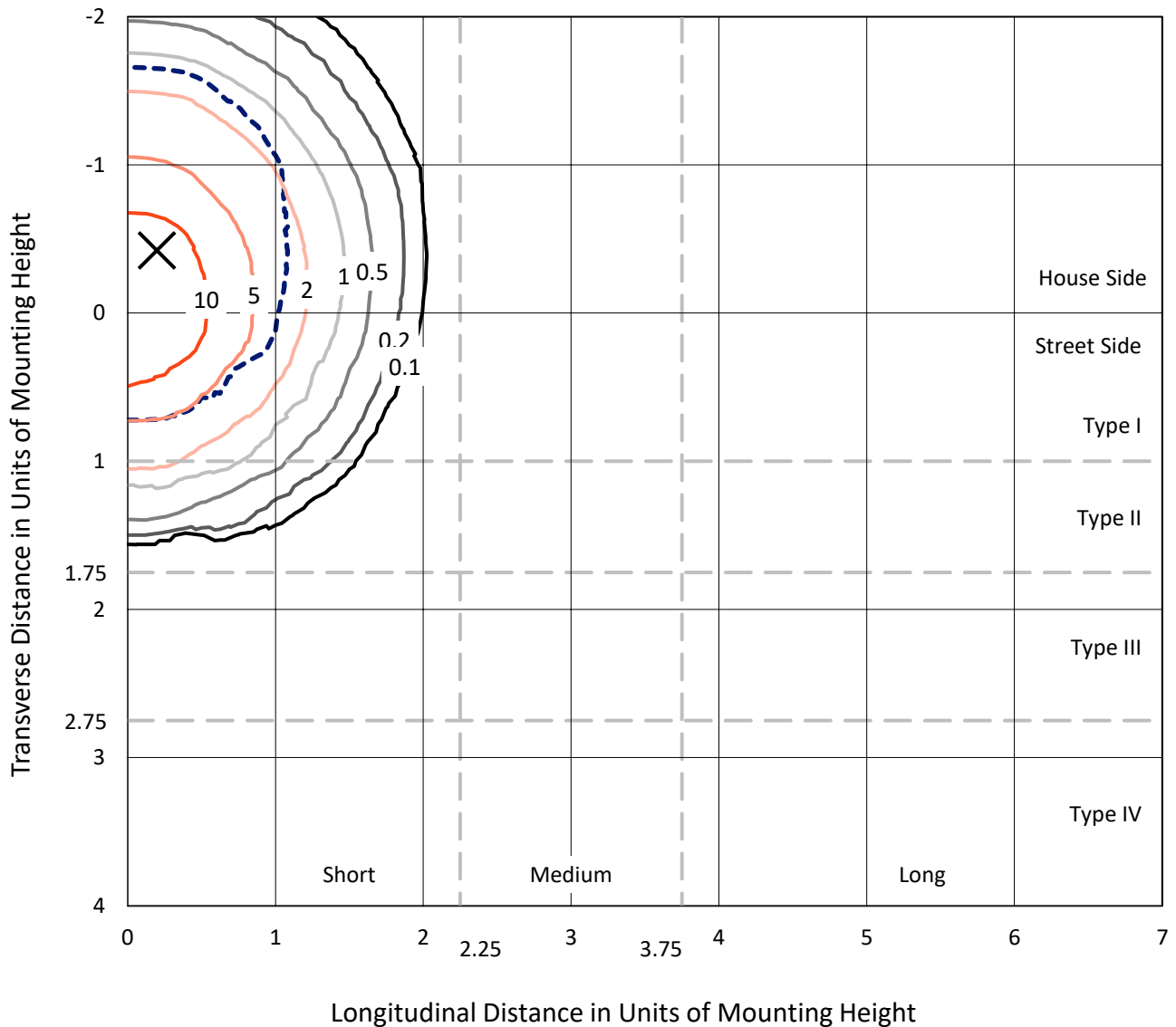
Input Watts (W): 217.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

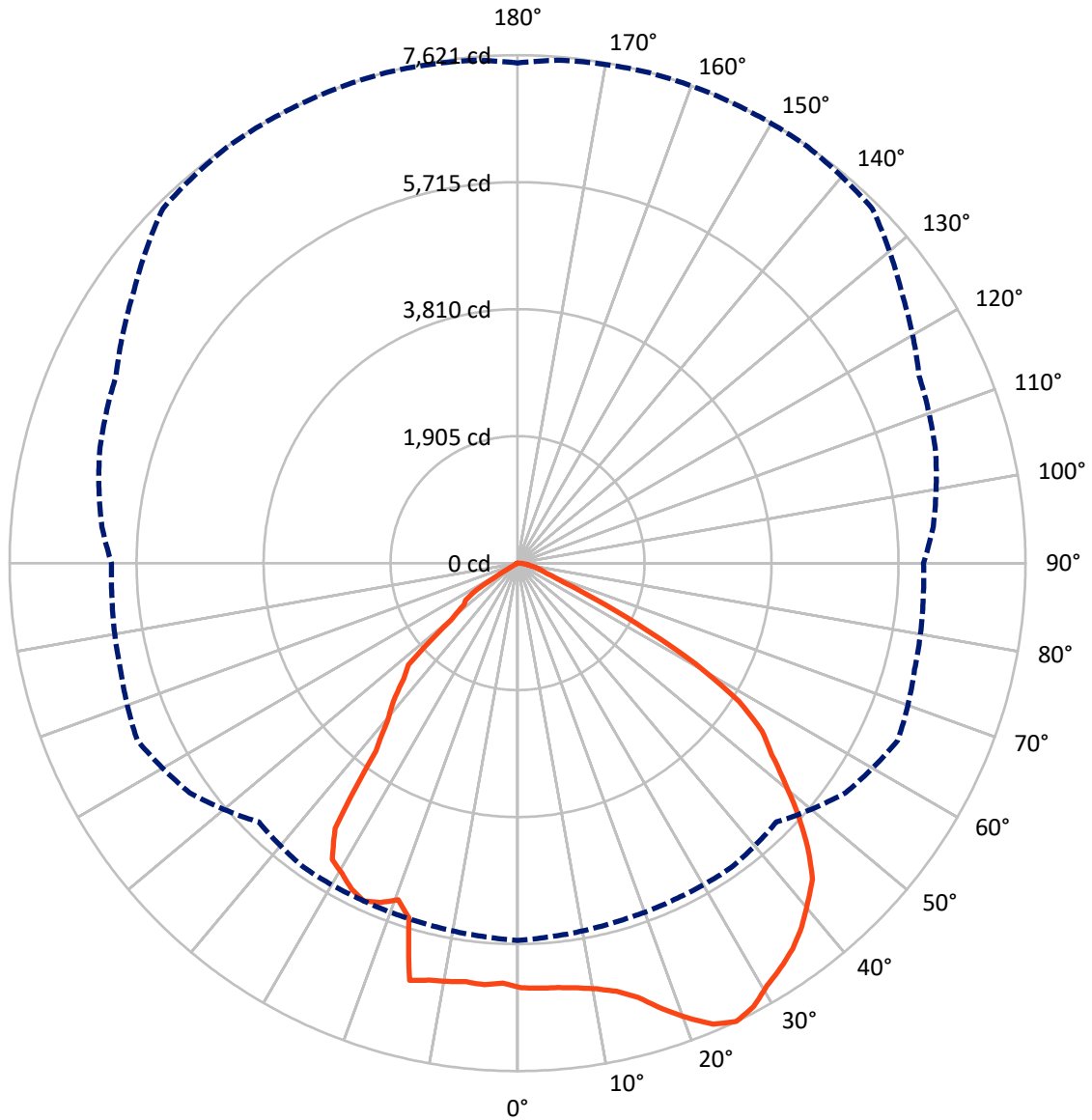
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 15.9 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 155-Deg Lateral - - - Horizontal Cone Through 25-Deg Vertical

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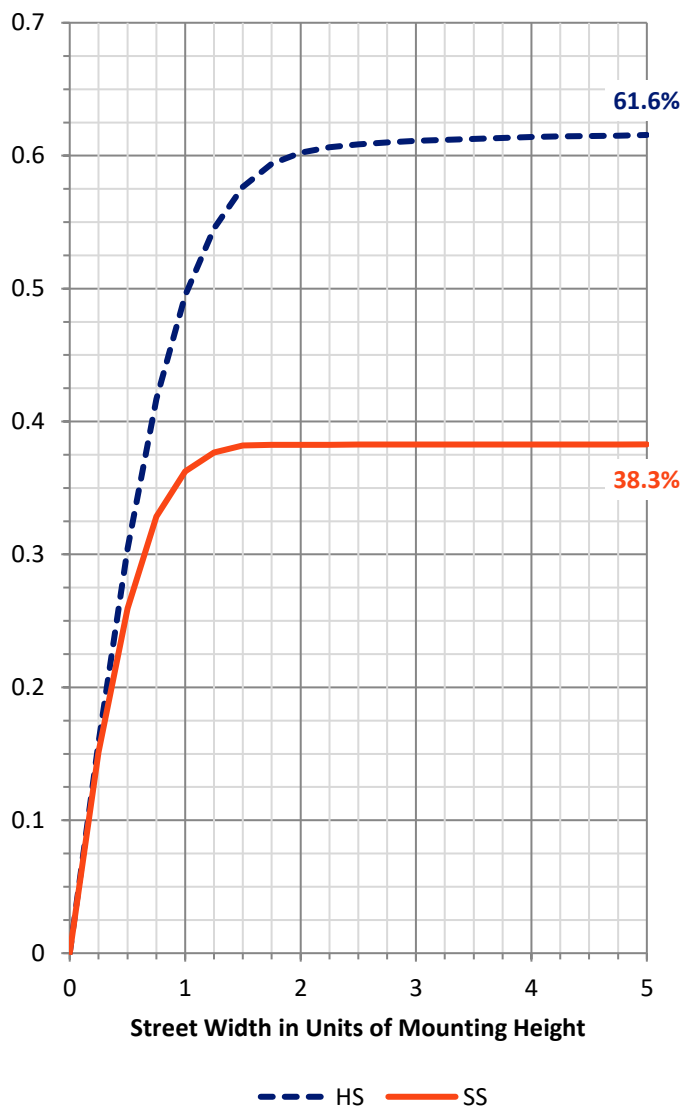
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9140.8	0.0	9140.8
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	5623.8	0.0	5623.8
	% Fixture	38.1	0.0	38.1
Total	Lumens	14764.6	0.0	14764.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	611.2	4.1
10°-20°	1866.2	12.6
20°-30°	2950.4	20.0
30°-40°	3332.7	22.6
40°-50°	3121.1	21.1
50°-60°	2151.8	14.6
60°-70°	578.1	3.9
70°-80°	120.5	0.8
80°-90°	32.6	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°	14764.6	100.0
0°-180°	14764.6	100.0



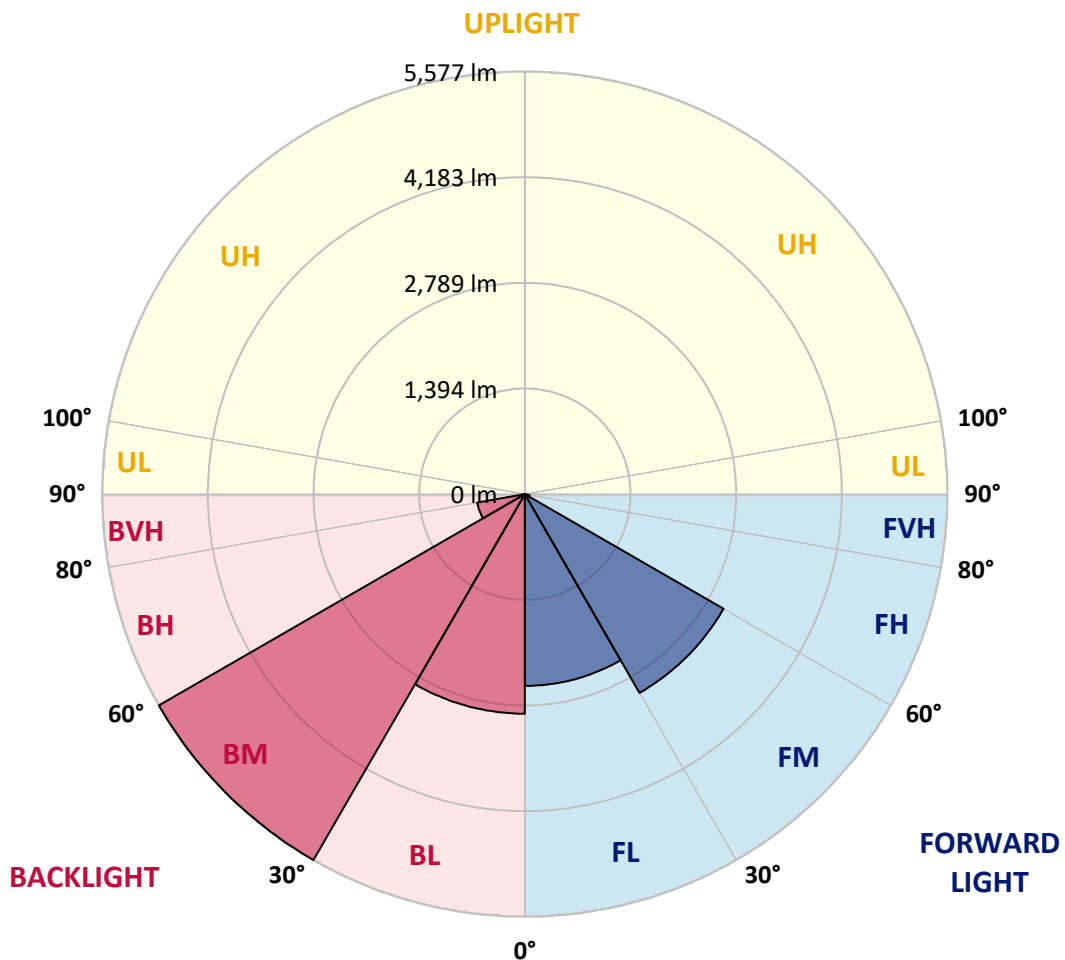
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2530.2	17.1			
FM (30°-60°)	3028.5	20.5			
FH (60°-80°)	60.7	0.4			G0/660
FVH (80°-90°)	4.4	0.0			G0/10
BL (0°-30°)	2897.6	19.6	B4/5000		
BM (30°-60°)	5577.1	37.8	B4/8500		
BH (60°-80°)	637.9	4.3	B2/1000		G2/1000
BVH (80°-90°)	28.2	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6370.6	6370.6	6370.6	6370.6	6370.6	6370.6	6370.6	6370.6	6370.6	6370.6
2.5°	6398.9	6357.6	6318.6	6305.6	6359.8	6418.4	6381.5	6383.7	6370.6	6394.5
5°	6446.6	6390.2	6364.1	6344.6	6353.3	6414.0	6362.0	6381.5	6359.8	6388.0
7.5°	6429.2	6390.2	6364.1	6327.2	6355.5	6427.1	6377.2	6379.3	6368.5	6394.5
10°	6418.4	6390.2	6357.6	6362.0	6394.5	6455.3	6416.2	6437.9	6422.7	6437.9
12.5°	6444.4	6414.0	6396.7	6396.7	6424.9	6494.3	6474.8	6494.3	6487.8	6500.8
15°	6199.2	6227.4	6392.3	6466.1	6522.5	6592.0	6583.3	6602.8	6607.2	6626.7
17.5°	5229.3	5201.1	5188.1	5567.8	6576.8	6791.6	6785.1	6782.9	6761.2	6746.0
20°	5357.3	5346.5	5331.3	5359.5	5472.3	6895.7	6939.1	6672.3	6594.1	6587.6
22.5°	5561.3	5543.9	5487.5	5489.7	5524.4	5995.3	6724.3	6481.3	6455.3	6440.1
25°	5661.1	5626.4	5580.8	5567.8	5578.7	5491.9	6006.1	6294.7	6166.7	6108.1
27.5°	5485.4	5487.5	5450.6	5485.4	5444.1	5053.6	4834.4	5930.2	5925.8	5899.8
30°	5353.0	5346.5	5303.1	5346.5	5062.2	4626.1	4532.8	5530.9	5485.4	5450.6
32.5°	4947.2	4951.6	5077.4	5246.7	4780.2	4435.2	4153.1	4940.7	5372.5	5353.0
35°	3539.0	3547.7	3994.7	4830.1	4352.7	4055.4	4033.7	4270.2	5194.6	5203.3
37.5°	3406.6	3406.6	3395.8	3532.5	4016.4	3901.4	3944.8	3920.9	4758.5	4780.2
40°	3311.2	3291.6	3276.5	3061.6	2792.6	3792.9	3823.3	3714.8	4498.1	4502.4
42.5°	3196.2	3174.5	3178.8	2781.7	2499.7	3523.8	3439.2	3293.8	4064.1	4068.4
45°	2985.7	3022.6	3048.6	2434.6	2412.9	2517.0	3172.3	3081.2	3771.2	3851.5
47.5°	1518.9	1551.4	2380.3	2239.3	2289.2	2237.1	2679.8	2681.9	3137.6	3404.5
50°	1377.8	1369.2	1371.3	1306.2	2113.4	1809.6	1937.7	2458.4	2512.7	2894.6
52.5°	1284.5	1282.4	1150.0	1022.0	1327.9	1592.7	1406.1	1779.3	1868.2	2451.9
55°	950.4	1019.8	907.0	961.2	831.0	1275.9	1269.4	1605.7	1636.1	1965.9
57.5°	8.7	10.8	26.0	731.2	575.0	637.9	876.6	1095.8	1150.0	1531.9
60°	2.2	4.3	10.8	21.7	373.2	392.7	585.9	633.6	713.9	913.5
62.5°	0.0	0.0	4.3	10.8	19.5	160.6	186.6	204.0	314.6	466.5
65°	0.0	0.0	2.2	6.5	10.8	26.0	45.6	95.5	136.7	169.2
67.5°	0.0	0.0	2.2	4.3	8.7	13.0	26.0	36.9	58.6	99.8
70°	0.0	0.0	2.2	4.3	6.5	10.8	17.4	26.0	34.7	49.9
72.5°	0.0	0.0	2.2	4.3	4.3	13.0	13.0	19.5	26.0	32.5
75°	0.0	0.0	2.2	2.2	4.3	8.7	13.0	15.2	17.4	26.0
77.5°	0.0	0.0	2.2	4.3	6.5	8.7	10.8	17.4	15.2	15.2
80°	0.0	0.0	2.2	6.5	6.5	10.8	13.0	17.4	10.8	10.8
82.5°	0.0	0.0	2.2	8.7	6.5	21.7	21.7	23.9	8.7	8.7
85°	0.0	0.0	6.5	4.3	13.0	21.7	19.5	13.0	10.8	6.5
87.5°	0.0	0.0	2.2	2.2	4.3	6.5	15.2	13.0	4.3	4.3
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°
6370.6	0°	6370.6	6370.6	6370.6	6370.6	6370.6	6370.6	6370.6	6370.6	6370.6
6331.6	2.5°	6418.4	6390.2	6448.8	6442.3	6414.0	6401.0	6385.8	6372.8	6277.3
6335.9	5°	6420.6	6377.2	6448.8	6435.7	6431.4	6409.7	6396.7	6416.2	6329.4
6353.3	7.5°	6420.6	6377.2	6455.3	6459.6	6453.1	6435.7	6433.6	6446.6	6375.0
6383.7	10°	6463.9	6446.6	6511.7	6518.2	6509.5	6505.2	6494.3	6485.6	6409.7
6487.8	12.5°	6555.1	6520.4	6594.1	6613.7	6607.2	6618.0	6592.0	6605.0	6526.9
6594.1	15°	6665.7	6667.9	6724.3	6767.7	6763.4	6798.1	6759.0	6793.8	6737.3
6715.7	17.5°	6835.0	6858.9	6939.1	7004.2	7028.1	7054.1	7028.1	7039.0	6958.7
6581.1	20°	6657.1	6746.0	7132.3	7251.6	7301.5	7325.4	7282.0	7295.0	7214.7
6416.2	22.5°	6496.5	6611.5	6954.3	7327.5	7481.6	7529.3	7514.2	7512.0	7481.6
6090.7	25°	6260.0	6492.2	6646.2	7041.1	7525.0	7611.8	7620.5	7618.3	7572.7
5891.1	27.5°	5969.2	6021.3	6420.6	6661.4	7221.2	7551.0	7538.0	7475.1	7414.3
5476.7	30°	5598.2	5834.7	6014.8	6398.9	6828.5	7364.4	7364.4	7316.7	7253.8
5329.1	32.5°	5409.4	5715.4	5882.4	6021.3	6388.0	7156.1	7242.9	7193.0	7143.1
5214.1	35°	5309.6	5355.2	5745.7	5871.6	6181.9	6754.7	7106.2	7056.3	7019.4
4908.2	37.5°	5090.4	5196.8	5379.0	5715.4	5810.8	6427.1	6924.0	6897.9	6854.5
4511.1	40°	4602.2	4886.5	5166.4	5485.4	5585.2	6006.1	6702.6	6713.5	6654.9
4088.0	42.5°	4313.6	4506.8	4945.1	5159.9	5428.9	5734.9	6487.8	6505.2	6463.9
3873.2	45°	3975.1	4190.0	4498.1	4888.6	5255.3	5361.7	6108.1	6290.4	6255.6
3445.7	47.5°	3664.9	3838.4	4216.0	4610.9	5016.7	5001.5	5672.0	6014.8	5967.1
3118.1	50°	3224.4	3528.2	3706.1	4068.4	4673.8	4715.1	5207.6	5691.5	5652.4
2649.4	52.5°	2718.8	3100.7	3441.4	3773.3	4326.7	4424.3	4775.8	5361.7	5335.6
2024.5	55°	2376.0	2653.7	3037.8	3304.7	3905.7	4166.1	4452.5	5047.0	5034.0
1664.3	57.5°	1690.3	2226.3	2543.1	2916.3	3233.1	3703.9	3916.6	4406.9	4285.4
922.2	60°	1145.7	1397.4	1783.6	2185.0	2397.7	2868.5	3066.0	3458.7	3426.2
551.1	62.5°	605.4	837.6	1113.1	1314.9	1469.0	1926.8	2009.3	2432.4	2421.5
221.3	65°	266.9	353.7	603.2	707.4	865.8	1078.4	1150.0	1301.9	1265.0
108.5	67.5°	138.9	210.5	340.7	418.8	527.3	607.6	666.1	713.9	744.3
71.6	70°	84.6	154.1	210.5	290.8	362.4	427.5	473.0	538.1	577.2
36.9	72.5°	62.9	97.6	145.4	223.5	262.6	338.5	384.1	431.8	466.5
30.4	75°	34.7	65.1	117.2	175.8	210.5	275.6	316.8	349.3	360.2
17.4	77.5°	21.7	49.9	97.6	136.7	164.9	223.5	212.6	243.0	269.1
13.0	80°	15.2	36.9	75.9	112.8	115.0	143.2	169.2	195.3	212.6
8.7	82.5°	10.8	30.4	56.4	86.8	75.9	110.7	132.4	151.9	110.7
6.5	85°	8.7	21.7	28.2	52.1	43.4	78.1	67.3	65.1	43.4
4.3	87.5°	6.5	10.8	19.5	23.9	17.4	17.4	21.7	26.0	21.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
6370.6
6212.2
6255.6
6292.5
6346.8
6457.4
6644.0
6889.2
7158.3
7384.0
7503.3
7366.6
7229.9
7101.9
6967.4
6811.1
6641.9
6459.6
6260.0
6001.8
5658.9
5353.0
5049.2
4272.4
3428.3
2423.7
1249.8
744.3
579.3
473.0
353.7
273.4
214.8
80.3
43.4
21.7
0.0

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