

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: P638463

Luminaire Tested: **IFLD-M-SA4A-750-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638463
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-750-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (64) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13922.8 lumens
Efficiency: N/A
Efficacy: 108.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

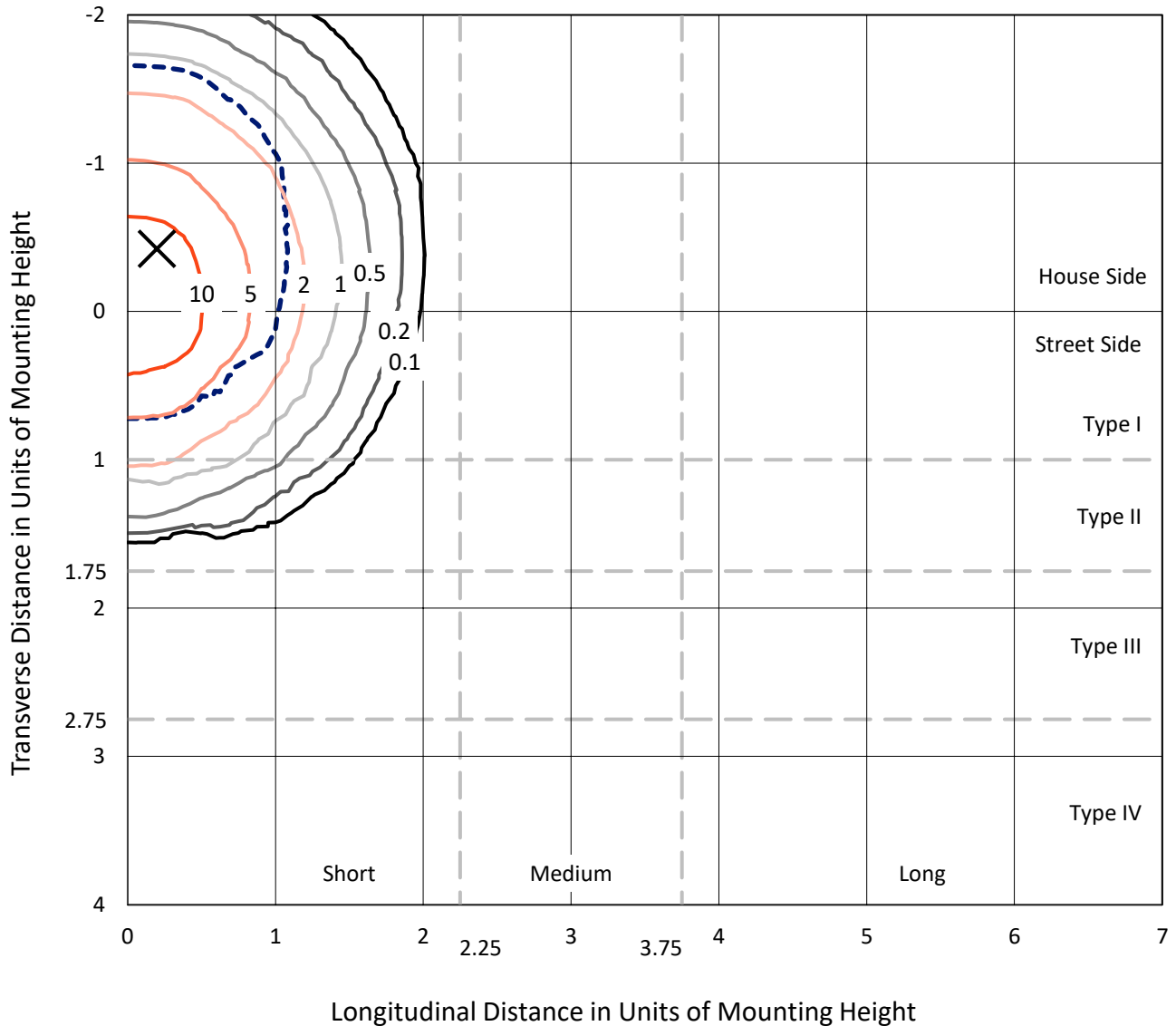
Input Watts (W): 128.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

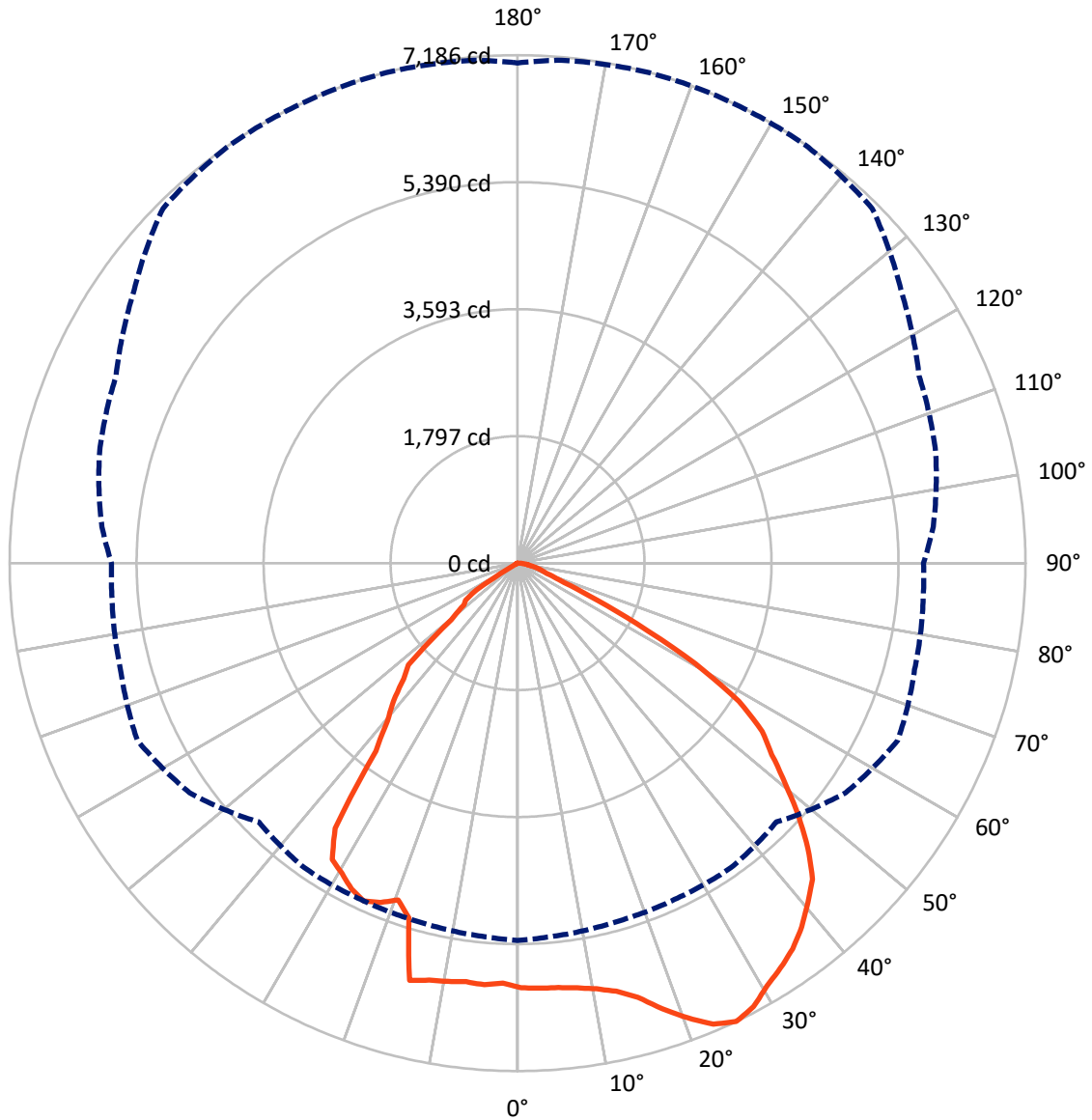
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 15 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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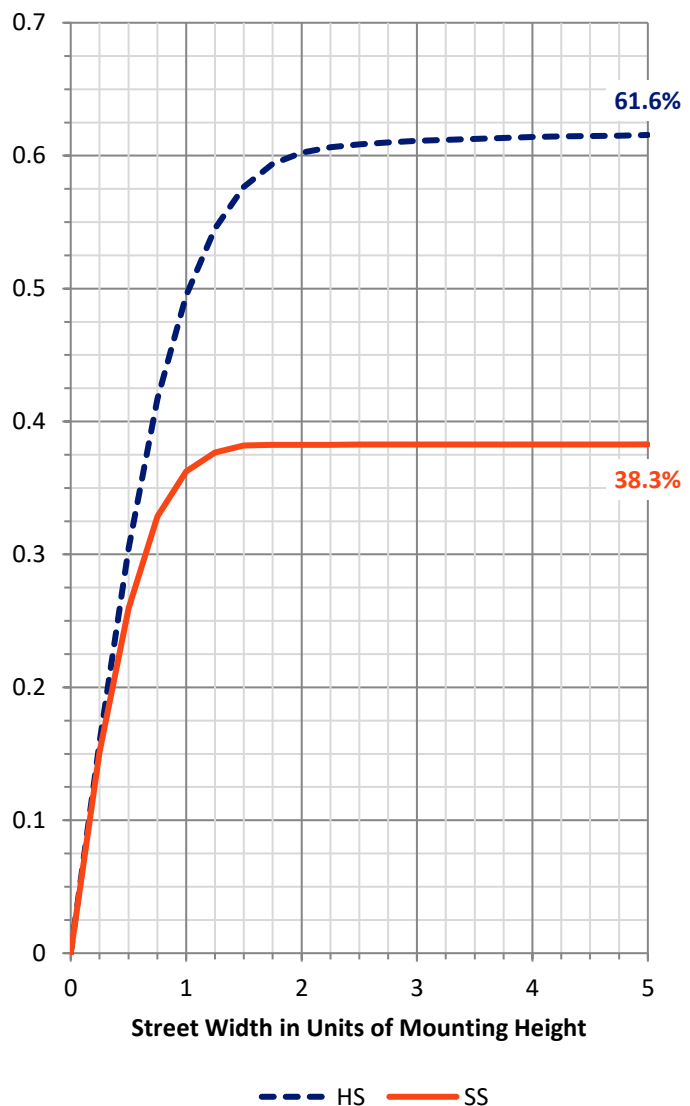
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8619.6	0.0	8619.6
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	5303.2	0.0	5303.2
	% Fixture	38.1	0.0	38.1
Total	Lumens	13922.8	0.0	13922.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	576.3	4.1
10°-20°	1759.8	12.6
20°-30°	2782.2	20.0
30°-40°	3142.7	22.6
40°-50°	2943.2	21.1
50°-60°	2029.1	14.6
60°-70°	545.2	3.9
70°-80°	113.6	0.8
80°-90°	30.7	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°	13922.8	100.0
0°-180°	13922.8	100.0



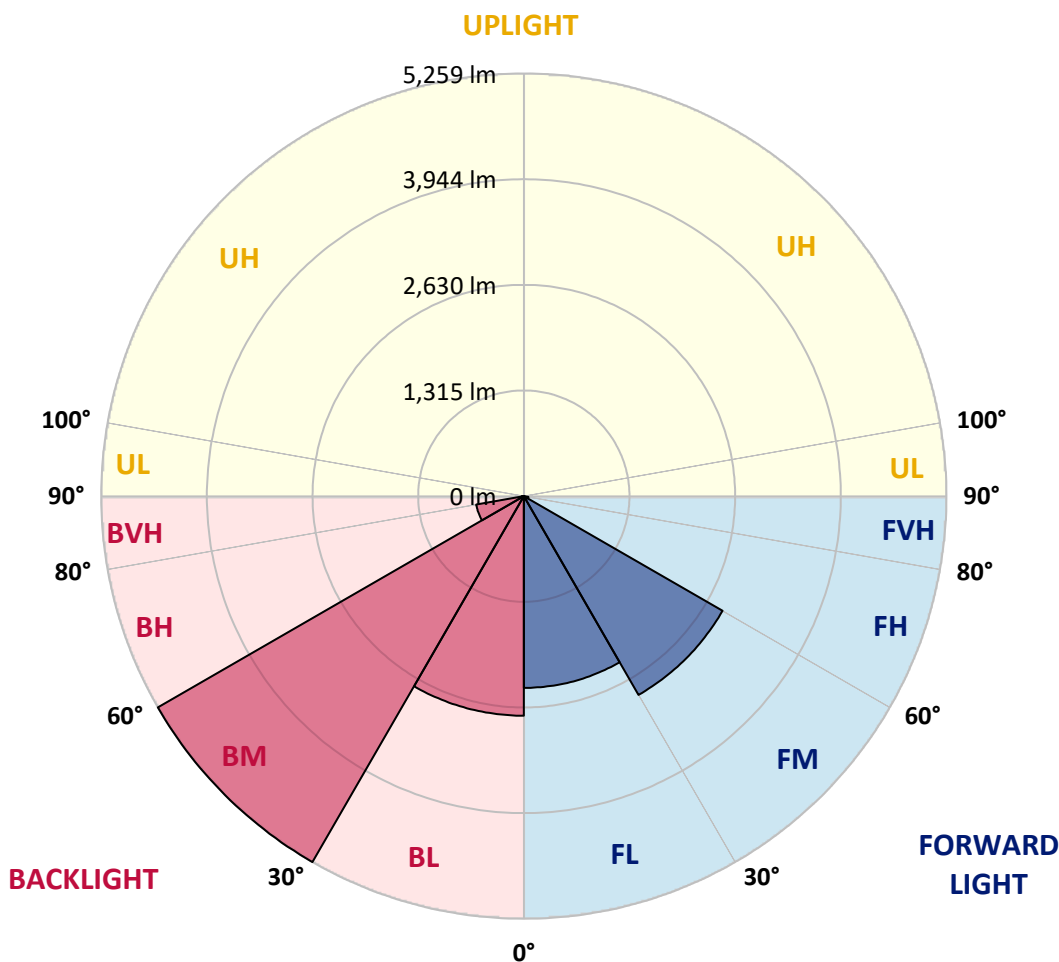
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2385.9	17.1			
FM (30°-60°)	2855.9	20.5			
FH (60°-80°)	57.2	0.4			G0/660
FVH (80°-90°)	4.1	0.0			G0/10
BL (0°-30°)	2732.4	19.6	B4/5000		
BM (30°-60°)	5259.1	37.8	B4/8500		
BH (60°-80°)	601.5	4.3	B2/1000		G2/1000
BVH (80°-90°)	26.6	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°	6007.4	6007.4	6007.4	6007.4	6007.4	6007.4	6007.4	6007.4	6007.4	6007.4
2.5°	6034.0	5995.2	5958.3	5946.1	5997.2	6052.5	6017.7	6019.7	6007.4	6030.0
5°	6079.1	6025.9	6001.3	5982.9	5991.1	6048.4	5999.3	6017.7	5997.2	6023.8
7.5°	6062.7	6025.9	6001.3	5966.5	5993.1	6060.6	6013.6	6015.6	6005.4	6030.0
10°	6052.5	6025.9	5995.2	5999.3	6030.0	6087.2	6050.4	6070.9	6056.6	6070.9
12.5°	6077.0	6048.4	6032.0	6032.0	6058.6	6124.1	6105.7	6124.1	6117.9	6130.2
15°	5845.8	5872.4	6027.9	6097.5	6150.7	6216.2	6208.0	6226.4	6230.5	6248.9
17.5°	4931.2	4904.6	4892.3	5250.4	6201.8	6404.4	6398.3	6396.2	6375.8	6361.4
20°	5051.9	5041.7	5027.4	5054.0	5160.3	6502.6	6543.5	6291.9	6218.2	6212.1
22.5°	5244.2	5227.9	5174.7	5176.7	5209.5	5653.5	6341.0	6111.8	6087.2	6072.9
25°	5338.4	5305.6	5262.7	5250.4	5260.6	5178.8	5663.7	5935.8	5815.1	5759.9
27.5°	5172.6	5174.7	5139.9	5172.6	5133.7	4765.4	4558.8	5592.1	5588.0	5563.4
30°	5047.8	5041.7	5000.8	5041.7	4773.6	4362.4	4274.4	5215.6	5172.6	5139.9
32.5°	4665.2	4669.3	4788.0	4947.6	4507.6	4182.3	3916.3	4659.0	5066.2	5047.8
35°	3337.2	3345.4	3766.9	4554.7	4104.5	3824.2	3803.8	4026.8	4898.4	4906.6
37.5°	3212.4	3212.4	3202.2	3331.1	3787.4	3678.9	3719.9	3697.4	4487.2	4507.6
40°	3122.4	3104.0	3089.7	2887.1	2633.4	3576.6	3605.3	3503.0	4241.6	4245.7
42.5°	3014.0	2993.5	2997.6	2623.1	2357.1	3322.9	3243.1	3106.0	3832.4	3836.5
45°	2815.5	2850.3	2874.8	2295.8	2275.3	2373.5	2991.4	2905.5	3556.2	3631.9
47.5°	1432.3	1463.0	2244.6	2111.6	2158.7	2109.6	2527.0	2529.0	2958.7	3210.4
50°	1299.3	1291.1	1293.2	1231.8	1992.9	1706.5	1827.2	2318.3	2369.4	2729.5
52.5°	1211.3	1209.3	1084.5	963.7	1252.2	1501.9	1325.9	1677.8	1761.7	2312.1
55°	896.2	961.7	855.3	906.4	783.7	1203.1	1197.0	1514.1	1542.8	1853.8
57.5°	8.2	10.2	24.6	689.5	542.2	601.6	826.6	1033.3	1084.5	1444.6
60°	2.0	4.1	10.2	20.5	351.9	370.4	552.5	597.5	673.2	861.4
62.5°	0.0	0.0	4.1	10.2	18.4	151.4	176.0	192.3	296.7	439.9
65°	0.0	0.0	2.0	6.1	10.2	24.6	43.0	90.0	128.9	159.6
67.5°	0.0	0.0	2.0	4.1	8.2	12.3	24.6	34.8	55.2	94.1
70°	0.0	0.0	2.0	4.1	6.1	10.2	16.4	24.6	32.7	47.1
72.5°	0.0	0.0	2.0	4.1	4.1	12.3	12.3	18.4	24.6	30.7
75°	0.0	0.0	2.0	2.0	4.1	8.2	12.3	14.3	16.4	24.6
77.5°	0.0	0.0	2.0	4.1	6.1	8.2	10.2	16.4	14.3	14.3
80°	0.0	0.0	2.0	6.1	6.1	10.2	12.3	16.4	10.2	10.2
82.5°	0.0	0.0	2.0	8.2	6.1	20.5	20.5	22.5	8.2	8.2
85°	0.0	0.0	6.1	4.1	12.3	20.5	18.4	12.3	10.2	6.1
87.5°	0.0	0.0	2.0	2.0	4.1	6.1	14.3	12.3	4.1	4.1
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°
6007.4	0°	6007.4	6007.4	6007.4	6007.4	6007.4	6007.4	6007.4	6007.4	6007.4
5970.6	2.5°	6052.5	6025.9	6081.1	6075.0	6048.4	6036.1	6021.8	6009.5	5919.5
5974.7	5°	6054.5	6013.6	6081.1	6068.8	6064.7	6044.3	6032.0	6050.4	5968.6
5991.1	7.5°	6054.5	6013.6	6087.2	6091.3	6085.2	6068.8	6066.8	6079.1	6011.5
6019.7	10°	6095.4	6079.1	6140.4	6146.6	6138.4	6134.3	6124.1	6115.9	6044.3
6117.9	12.5°	6181.4	6148.6	6218.2	6236.6	6230.5	6240.7	6216.2	6228.4	6154.8
6218.2	15°	6285.7	6287.8	6341.0	6381.9	6377.8	6410.5	6373.7	6406.4	6353.2
6332.8	17.5°	6445.3	6467.8	6543.5	6604.9	6627.4	6652.0	6627.4	6637.7	6562.0
6205.9	20°	6277.5	6361.4	6725.6	6838.2	6885.2	6907.7	6866.8	6879.1	6803.4
6050.4	22.5°	6126.1	6234.6	6557.9	6909.8	7055.1	7100.1	7085.8	7083.7	7055.1
5743.5	25°	5903.1	6122.0	6267.3	6639.7	7096.0	7177.8	7186.0	7184.0	7141.0
5555.3	27.5°	5628.9	5678.0	6054.5	6281.6	6809.5	7120.5	7108.3	7048.9	6991.6
5164.4	30°	5279.0	5502.1	5671.9	6034.0	6439.2	6944.6	6944.6	6899.6	6840.2
5025.3	32.5°	5101.0	5389.5	5547.1	5678.0	6023.8	6748.1	6830.0	6782.9	6735.9
4916.9	35°	5006.9	5049.9	5418.2	5536.8	5829.4	6369.6	6701.1	6654.0	6619.2
4628.4	37.5°	4800.2	4900.5	5072.4	5389.5	5479.5	6060.6	6529.2	6504.7	6463.7
4253.9	40°	4339.8	4607.9	4871.8	5172.6	5266.7	5663.7	6320.5	6330.7	6275.5
3854.9	42.5°	4067.7	4249.8	4663.1	4865.7	5119.4	5407.9	6117.9	6134.3	6095.4
3652.3	45°	3748.5	3951.1	4241.6	4609.9	4955.7	5056.0	5759.9	5931.7	5899.0
3249.3	47.5°	3455.9	3619.6	3975.6	4348.0	4730.7	4716.3	5348.6	5671.9	5626.9
2940.3	50°	3040.6	3327.0	3494.8	3836.5	4407.4	4446.2	4910.7	5367.0	5330.2
2498.3	52.5°	2563.8	2923.9	3245.2	3558.2	4080.0	4172.1	4503.5	5056.0	5031.4
1909.0	55°	2240.5	2502.4	2864.6	3116.3	3683.0	3928.6	4198.7	4759.3	4747.0
1569.4	57.5°	1593.9	2099.3	2398.1	2750.0	3048.7	3492.8	3693.3	4155.7	4041.1
869.6	60°	1080.4	1317.7	1681.9	2060.5	2261.0	2705.0	2891.2	3261.5	3230.8
519.7	62.5°	570.9	789.8	1049.7	1240.0	1385.2	1817.0	1894.7	2293.7	2283.5
208.7	65°	251.7	333.5	568.8	667.0	816.4	1016.9	1084.5	1227.7	1192.9
102.3	67.5°	131.0	198.5	321.2	394.9	497.2	572.9	628.2	673.2	701.8
67.5	70°	79.8	145.3	198.5	274.2	341.7	403.1	446.1	507.4	544.3
34.8	72.5°	59.3	92.1	137.1	210.8	247.6	319.2	362.2	407.2	439.9
28.6	75°	32.7	61.4	110.5	165.7	198.5	259.9	298.7	329.4	339.7
16.4	77.5°	20.5	47.1	92.1	128.9	155.5	210.8	200.5	229.2	253.7
12.3	80°	14.3	34.8	71.6	106.4	108.4	135.0	159.6	184.2	200.5
8.2	82.5°	10.2	28.6	53.2	81.8	71.6	104.4	124.8	143.2	104.4
6.1	85°	8.2	20.5	26.6	49.1	40.9	73.7	63.4	61.4	40.9
4.1	87.5°	6.1	10.2	18.4	22.5	16.4	16.4	20.5	24.6	20.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
6007.4
5858.1
5899.0
5933.8
5984.9
6089.3
6265.3
6496.5
6750.2
6963.0
7075.5
6946.6
6817.7
6697.0
6570.1
6422.8
6263.2
6091.3
5903.1
5659.6
5336.3
5047.8
4761.4
4028.8
3232.9
2285.5
1178.6
701.8
546.3
446.1
333.5
257.8
202.6
75.7
40.9
20.5
0.0

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