

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: P638351

Luminaire Tested: **IFLD-M-SA4E-727-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638351
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4E-727-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (64) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22315.9 lumens
Efficiency: N/A
Efficacy: 70.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

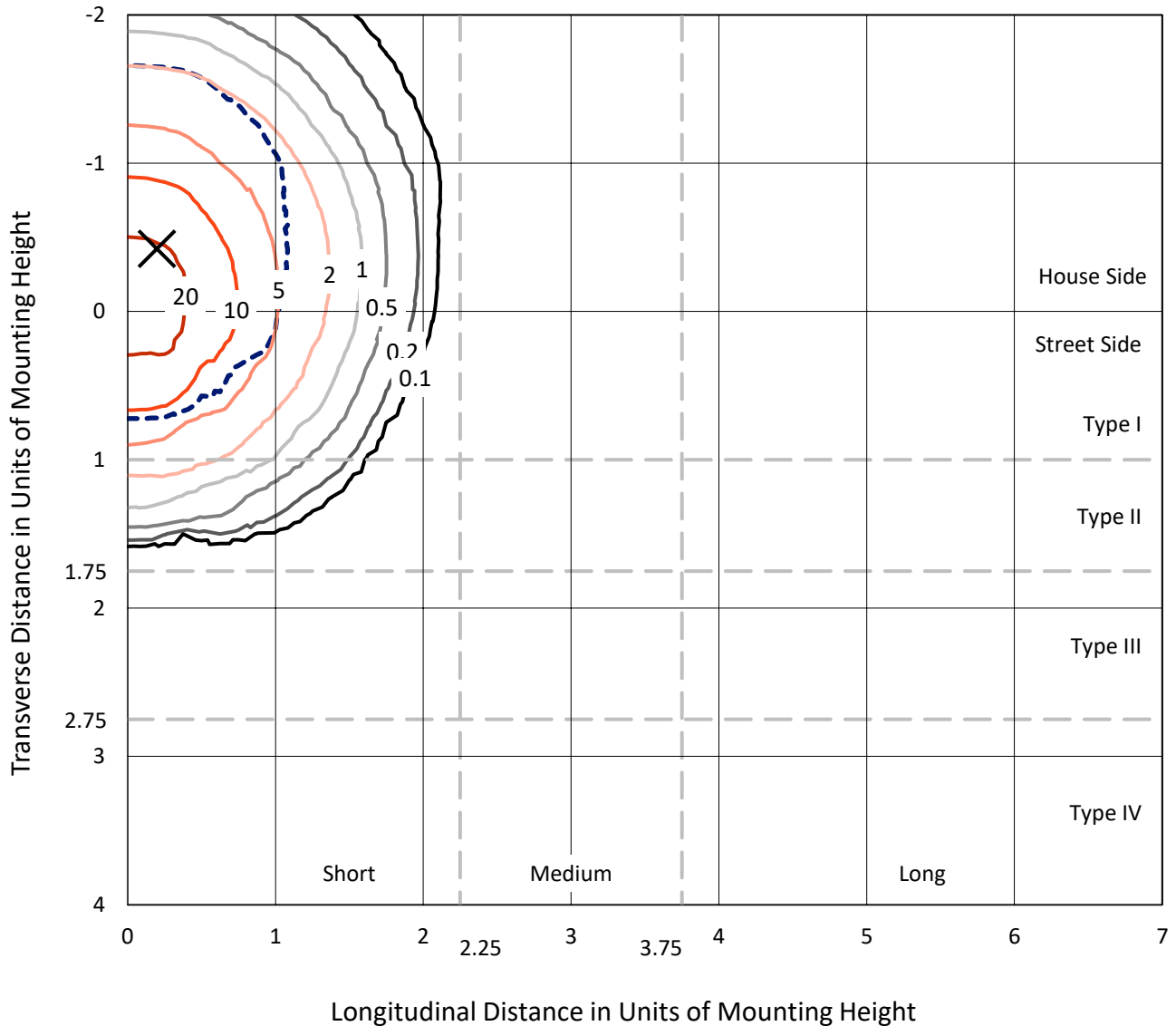
Input Watts (W): 314.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

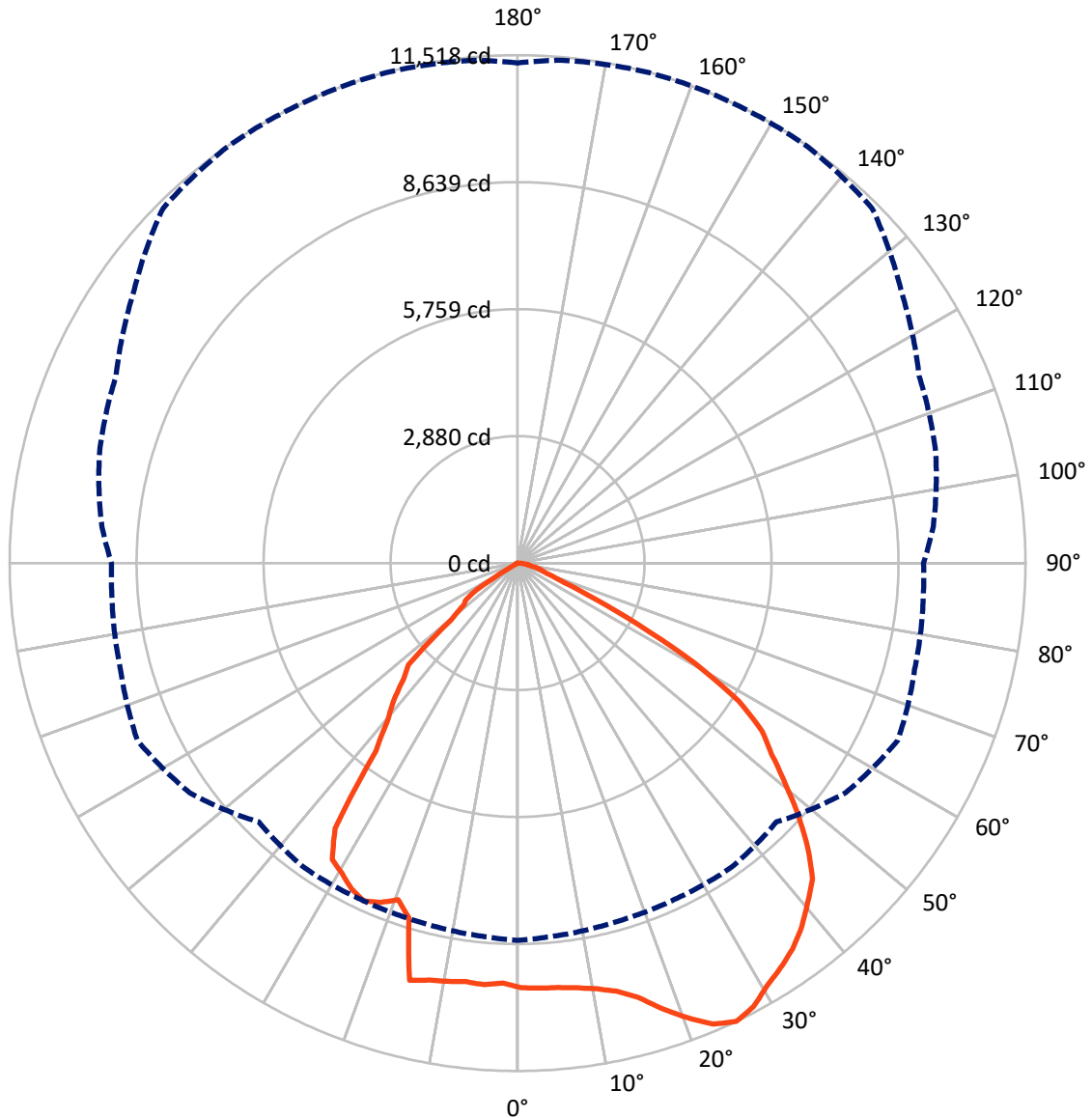
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 24.1 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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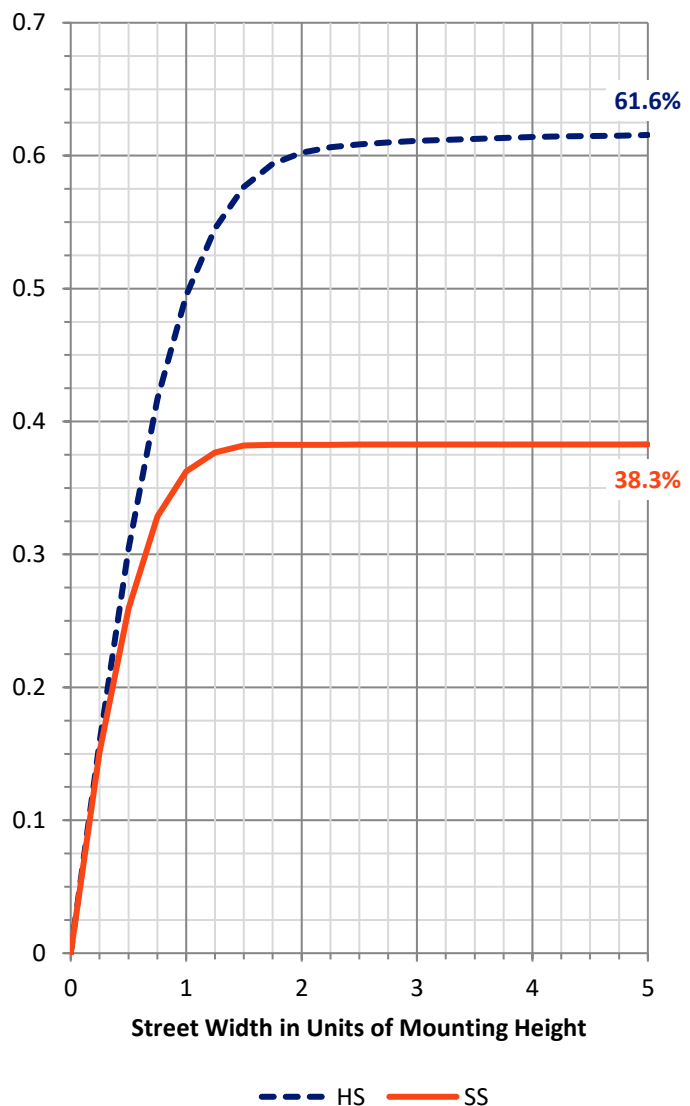
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13815.8	0.0	13815.8
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	8500.1	0.0	8500.1
	% Fixture	38.1	0.0	38.1
Total	Lumens	22315.9	0.0	22315.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	923.8	4.1
10°-20°	2820.7	12.6
20°-30°	4459.3	20.0
30°-40°	5037.2	22.6
40°-50°	4717.4	21.1
50°-60°	3252.3	14.6
60°-70°	873.8	3.9
70°-80°	182.1	0.8
80°-90°	49.3	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°	22315.9	100.0
0°-180°	22315.9	100.0



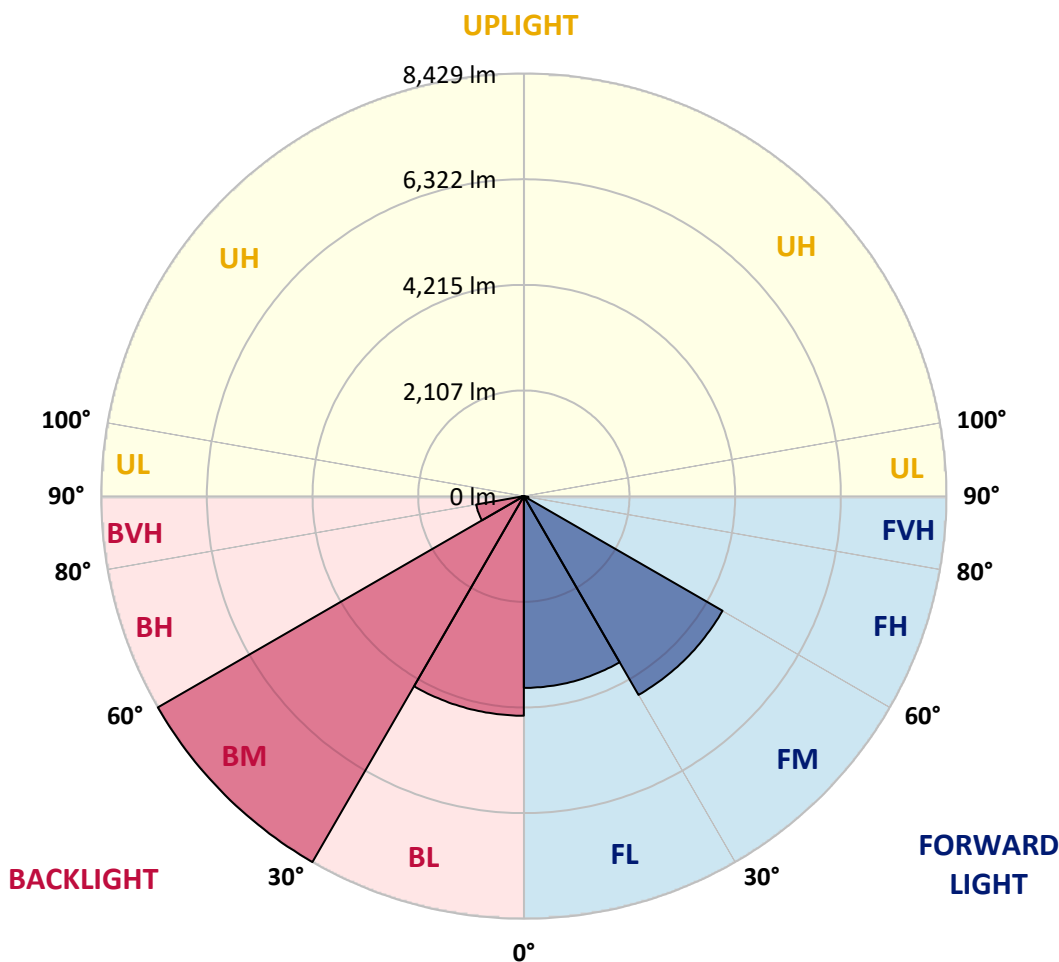
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3824.2	17.1			
FM (30°-60°)	4577.5	20.5			
FH (60°-80°)	91.7	0.4			G0/660
FVH (80°-90°)	6.6	0.0			G0/10
BL (0°-30°)	4379.5	19.6	B4/5000		
BM (30°-60°)	8429.5	37.8	B4/8500		
BH (60°-80°)	964.2	4.3	B2/1000		G2/1000
BVH (80°-90°)	42.7	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°	9628.9	9628.9	9628.9	9628.9	9628.9	9628.9	9628.9	9628.9	9628.9	9628.9
2.5°	9671.6	9609.2	9550.2	9530.5	9612.5	9701.1	9645.3	9648.6	9628.9	9665.0
5°	9743.7	9658.4	9619.1	9589.6	9602.7	9694.5	9615.8	9645.3	9612.5	9655.2
7.5°	9717.5	9658.4	9619.1	9563.3	9606.0	9714.2	9638.8	9642.0	9625.6	9665.0
10°	9701.1	9658.4	9609.2	9615.8	9665.0	9756.8	9697.8	9730.6	9707.6	9730.6
12.5°	9740.4	9694.5	9668.3	9668.3	9710.9	9815.9	9786.3	9815.9	9806.0	9825.7
15°	9369.8	9412.5	9661.7	9773.2	9858.5	9963.4	9950.3	9979.8	9986.4	10015.9
17.5°	7903.8	7861.2	7841.5	8415.5	9940.5	10265.2	10255.3	10252.0	10219.3	10196.3
20°	8097.3	8080.9	8058.0	8100.6	8271.2	10422.6	10488.2	10084.8	9966.7	9956.9
22.5°	8405.6	8379.4	8294.1	8297.4	8349.9	9061.5	10163.5	9796.2	9756.8	9733.9
25°	8556.5	8504.0	8435.1	8415.5	8431.9	8300.7	9077.9	9514.1	9320.6	9232.1
27.5°	8290.8	8294.1	8238.4	8290.8	8228.5	7638.2	7307.0	8963.2	8956.6	8917.2
30°	8090.8	8080.9	8015.4	8080.9	7651.3	6992.1	6851.1	8359.7	8290.8	8238.4
32.5°	7477.5	7484.1	7674.3	7930.1	7225.0	6703.5	6277.2	7467.7	8120.3	8090.8
35°	5349.0	5362.2	6037.8	7300.4	6578.9	6129.6	6096.8	6454.3	7851.4	7864.5
37.5°	5149.0	5149.0	5132.6	5339.2	6070.5	5896.7	5962.3	5926.2	7192.2	7225.0
40°	5004.7	4975.2	4952.2	4627.5	4220.9	5732.8	5778.7	5614.7	6798.6	6805.2
42.5°	4830.9	4798.1	4804.6	4204.5	3778.1	5326.1	5198.2	4978.4	6142.7	6149.3
45°	4512.7	4568.5	4607.8	3679.7	3646.9	3804.3	4794.8	4657.0	5700.0	5821.3
47.5°	2295.7	2344.9	3597.7	3384.6	3460.0	3381.3	4050.3	4053.6	4742.3	5145.7
50°	2082.5	2069.4	2072.7	1974.3	3194.3	2735.2	2928.7	3715.8	3797.8	4375.0
52.5°	1941.5	1938.2	1738.2	1544.7	2007.1	2407.2	2125.2	2689.3	2823.7	3706.0
55°	1436.5	1541.4	1370.9	1452.9	1256.1	1928.4	1918.6	2426.9	2472.8	2971.3
57.5°	13.1	16.4	39.4	1105.2	869.1	964.2	1325.0	1656.2	1738.2	2315.4
60°	3.3	6.6	16.4	32.8	564.1	593.6	885.5	957.6	1079.0	1380.7
62.5°	0.0	0.0	6.6	16.4	29.5	242.7	282.0	308.3	475.5	705.1
65°	0.0	0.0	3.3	9.8	16.4	39.4	68.9	144.3	206.6	255.8
67.5°	0.0	0.0	3.3	6.6	13.1	19.7	39.4	55.8	88.5	150.9
70°	0.0	0.0	3.3	6.6	9.8	16.4	26.2	39.4	52.5	75.4
72.5°	0.0	0.0	3.3	6.6	6.6	19.7	19.7	29.5	39.4	49.2
75°	0.0	0.0	3.3	3.3	6.6	13.1	19.7	23.0	26.2	39.4
77.5°	0.0	0.0	3.3	6.6	9.8	13.1	16.4	26.2	23.0	23.0
80°	0.0	0.0	3.3	9.8	9.8	16.4	19.7	26.2	16.4	16.4
82.5°	0.0	0.0	3.3	13.1	9.8	32.8	32.8	36.1	13.1	13.1
85°	0.0	0.0	9.8	6.6	19.7	32.8	29.5	19.7	16.4	9.8
87.5°	0.0	0.0	3.3	3.3	6.6	9.8	23.0	19.7	6.6	6.6
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°
9628.9	0°	9628.9	9628.9	9628.9	9628.9	9628.9	9628.9	9628.9	9628.9	9628.9
9569.9	2.5°	9701.1	9658.4	9747.0	9737.1	9694.5	9674.8	9651.9	9632.2	9487.9
9576.4	5°	9704.4	9638.8	9747.0	9727.3	9720.8	9688.0	9668.3	9697.8	9566.6
9602.7	7.5°	9704.4	9638.8	9756.8	9763.4	9753.5	9727.3	9724.0	9743.7	9635.5
9648.6	10°	9769.9	9743.7	9842.1	9851.9	9838.8	9832.3	9815.9	9802.7	9688.0
9806.0	12.5°	9907.7	9855.2	9966.7	9996.2	9986.4	10002.8	9963.4	9983.1	9865.1
9966.7	15°	10074.9	10078.2	10163.5	10229.1	10222.5	10275.0	10216.0	10268.4	10183.2
10150.4	17.5°	10330.8	10366.8	10488.2	10586.6	10622.6	10662.0	10622.6	10639.0	10517.7
9947.0	20°	10061.8	10196.3	10780.1	10960.4	11035.9	11071.9	11006.4	11026.0	10904.7
9697.8	22.5°	9819.1	9993.0	10511.1	11075.2	11308.1	11380.2	11357.3	11354.0	11308.1
9205.9	25°	9461.7	9812.6	10045.4	10642.3	11373.7	11504.9	11518.0	11514.7	11445.8
8904.1	27.5°	9022.2	9100.9	9704.4	10068.4	10914.5	11413.0	11393.3	11298.2	11206.4
8277.7	30°	8461.4	8818.9	9091.1	9671.6	10320.9	11131.0	11131.0	11058.8	10963.7
8054.7	32.5°	8176.1	8638.5	8891.0	9100.9	9655.2	10816.1	10947.3	10871.9	10796.5
7880.9	35°	8025.2	8094.1	8684.4	8874.6	9343.6	10209.4	10740.7	10665.3	10609.5
7418.5	37.5°	7694.0	7854.7	8130.1	8638.5	8782.8	9714.2	10465.2	10425.9	10360.3
6818.3	40°	6956.0	7385.7	7808.7	8290.8	8441.7	9077.9	10130.7	10147.1	10058.5
6178.8	42.5°	6519.9	6811.7	7474.2	7798.9	8205.6	8668.0	9806.0	9832.3	9769.9
5854.1	45°	6008.2	6332.9	6798.6	7389.0	7943.2	8103.9	9232.1	9507.6	9455.1
5208.0	47.5°	5539.3	5801.6	6372.3	6969.2	7582.4	7559.5	8572.9	9091.1	9018.9
4712.8	50°	4873.5	5332.6	5601.6	6149.3	7064.3	7126.6	7871.1	8602.4	8543.4
4004.4	52.5°	4109.3	4686.6	5201.5	5703.2	6539.5	6687.1	7218.4	8103.9	8064.5
3059.9	55°	3591.2	4011.0	4591.4	4994.8	5903.3	6296.8	6729.8	7628.4	7608.7
2515.5	57.5°	2554.8	3364.9	3843.7	4407.8	4886.6	5598.3	5919.7	6660.9	6477.2
1393.8	60°	1731.6	2112.1	2695.8	3302.6	3624.0	4335.6	4634.1	5227.7	5178.5
833.0	62.5°	915.0	1265.9	1682.4	1987.4	2220.3	2912.3	3036.9	3676.4	3660.0
334.5	65°	403.4	534.6	911.7	1069.2	1308.6	1630.0	1738.2	1967.8	1912.0
164.0	67.5°	209.9	318.1	514.9	633.0	796.9	918.3	1006.8	1079.0	1124.9
108.2	70°	127.9	232.9	318.1	439.5	547.7	646.1	715.0	813.3	872.4
55.8	72.5°	95.1	147.6	219.7	337.8	396.8	511.6	580.5	652.6	705.1
45.9	75°	52.5	98.4	177.1	265.6	318.1	416.5	478.8	528.0	544.4
26.2	77.5°	32.8	75.4	147.6	206.6	249.3	337.8	321.4	367.3	406.7
19.7	80°	23.0	55.8	114.8	170.5	173.8	216.5	255.8	295.2	321.4
13.1	82.5°	16.4	45.9	85.3	131.2	114.8	167.3	200.1	229.6	167.3
9.8	85°	13.1	32.8	42.6	78.7	65.6	118.1	101.7	98.4	65.6
6.6	87.5°	9.8	16.4	29.5	36.1	26.2	26.2	32.8	39.4	32.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
9628.9
9389.5
9455.1
9510.9
9592.8
9760.1
10042.2
10412.7
10819.4
11160.5
11340.9
11134.3
10927.6
10734.1
10530.8
10294.7
10038.9
9763.4
9461.7
9071.4
8553.2
8090.8
7631.6
6457.5
5181.8
3663.3
1889.1
1124.9
875.7
715.0
534.6
413.2
324.7
121.3
65.6
32.8
0.0

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