

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: P638466

Luminaire Tested: **IFLD-M-SA4D-750-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638466
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-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: 23585.4 lumens
Efficiency: N/A
Efficacy: 94.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

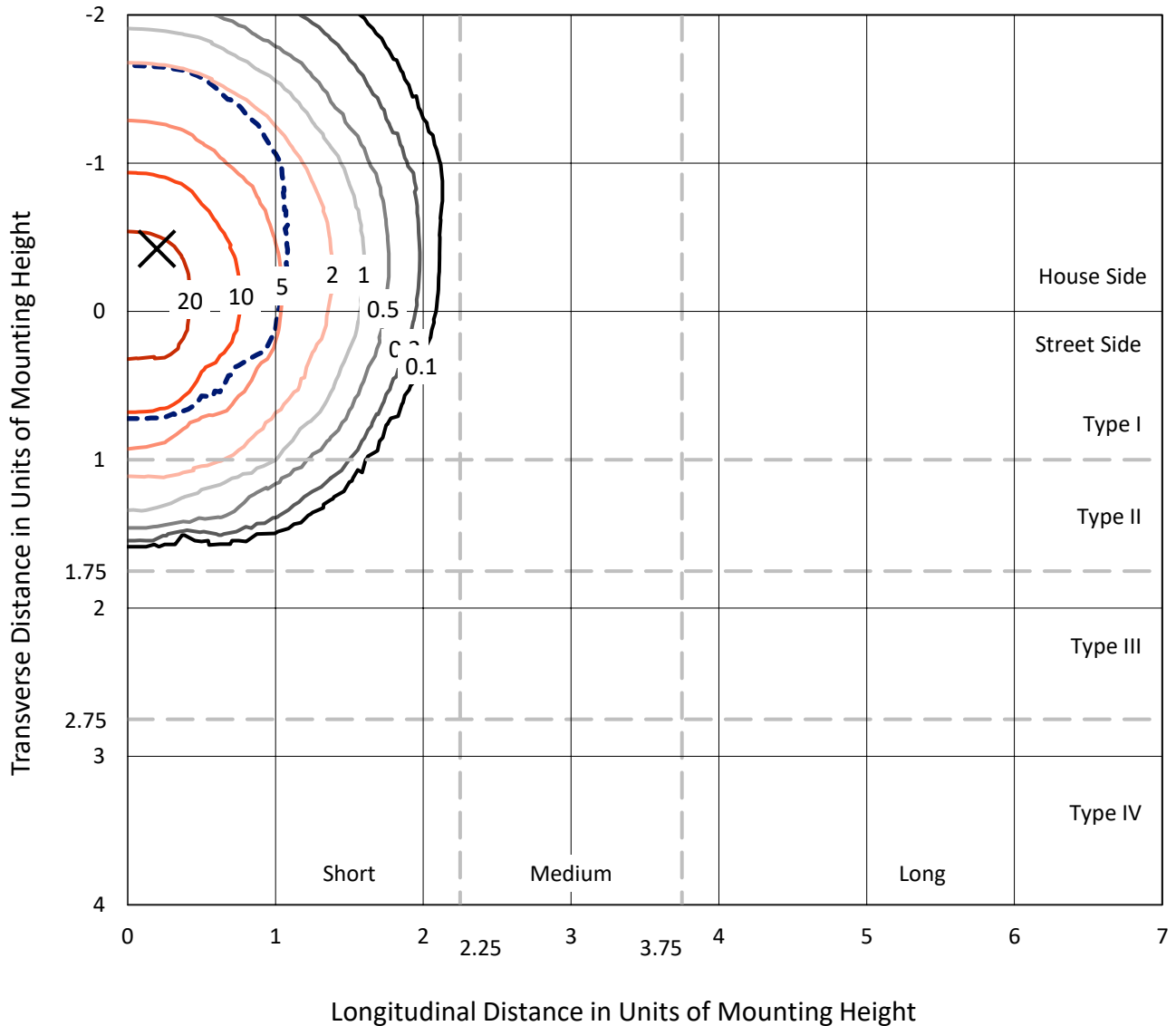
Input Watts (W): 249.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

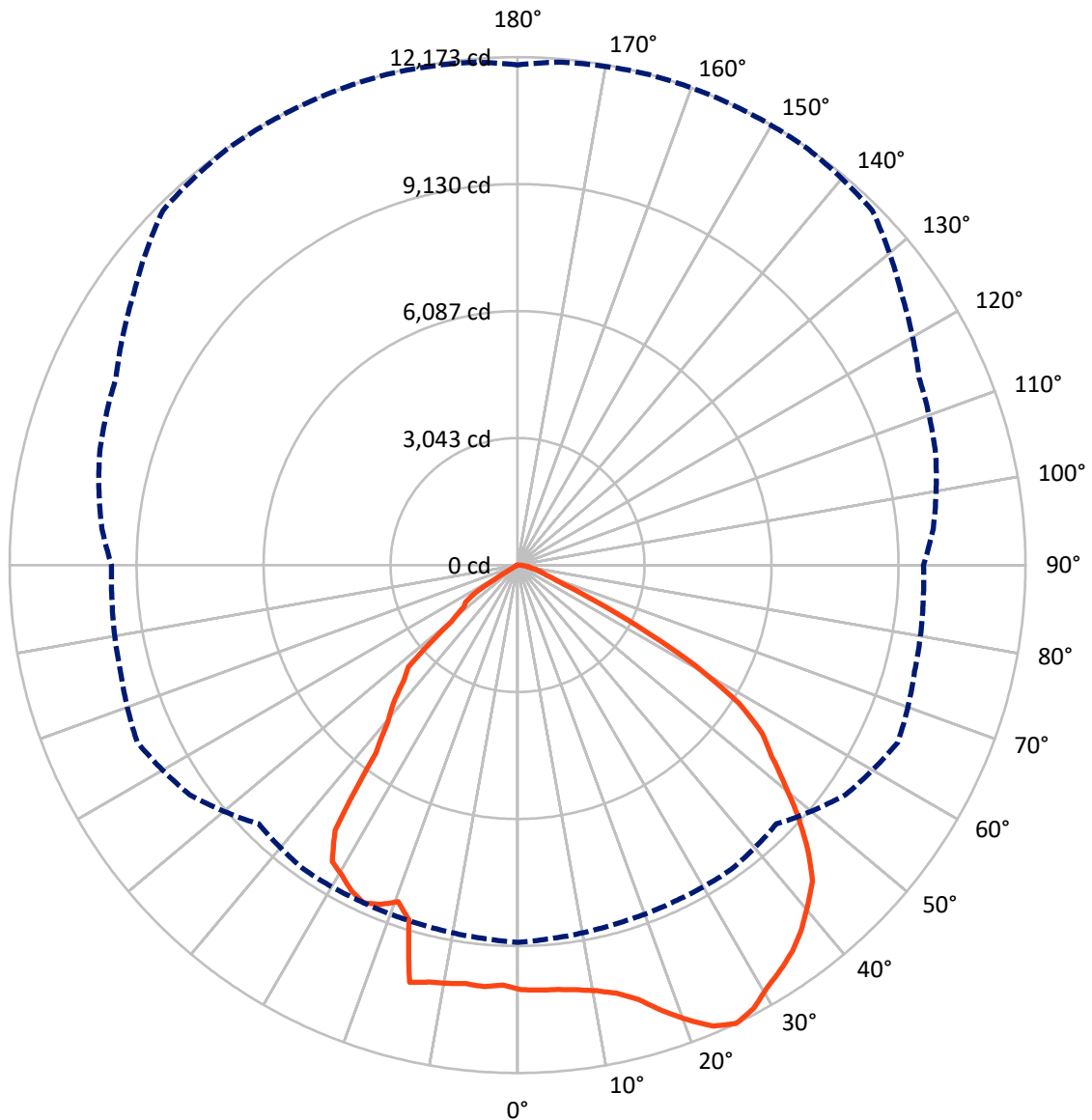
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 25.4 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	14601.8	0.0	14601.8
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	8983.6	0.0	8983.6
	% Fixture	38.1	0.0	38.1
Total	Lumens	23585.4	0.0	23585.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	976.3	4.1
10°-20°	2981.1	12.6
20°-30°	4713.0	20.0
30°-40°	5323.8	22.6
40°-50°	4985.8	21.1
50°-60°	3437.4	14.6
60°-70°	923.5	3.9
70°-80°	192.5	0.8
80°-90°	52.1	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°	23585.4	100.0
0°-180°	23585.4	100.0



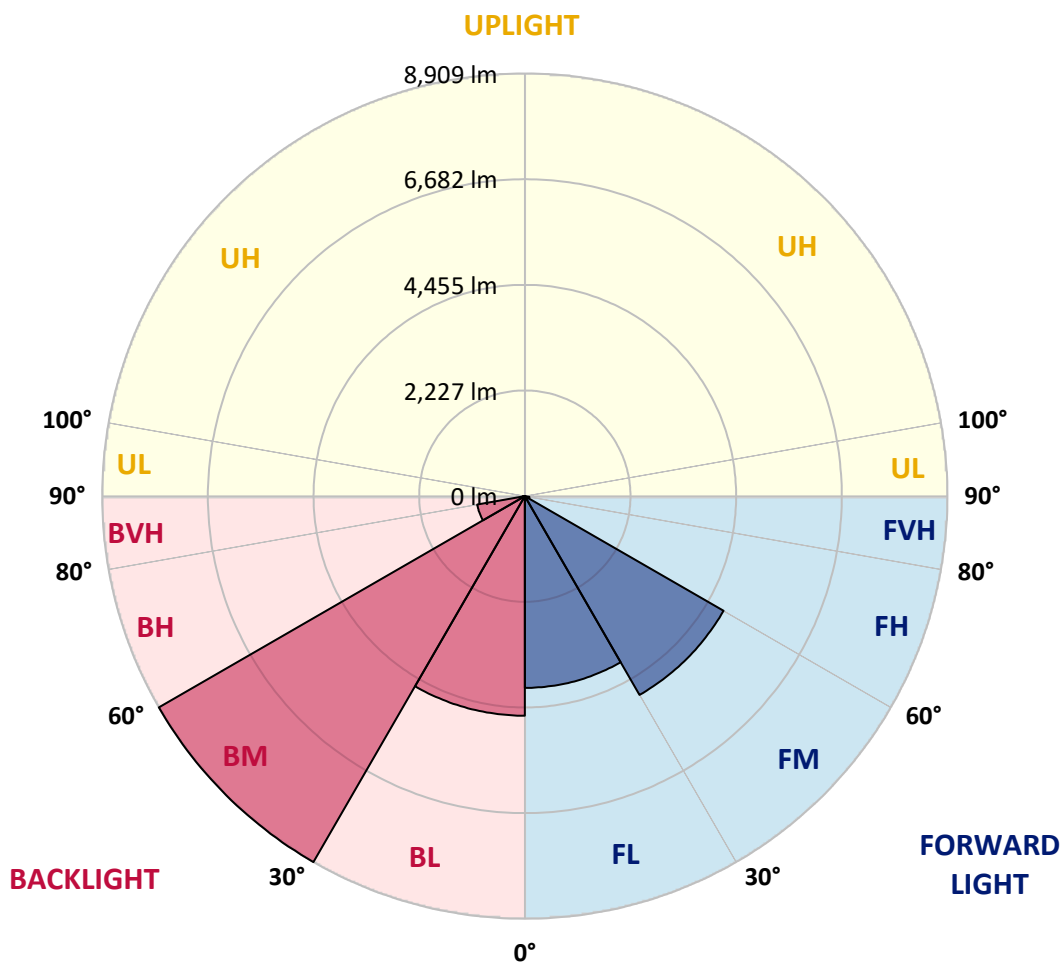
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4041.8	17.1			
FM (30°-60°)	4837.9	20.5			
FH (60°-80°)	97.0	0.4			G0/660
FVH (80°-90°)	7.0	0.0			G0/10
BL (0°-30°)	4628.7	19.6	B4/5000		
BM (30°-60°)	8909.0	37.8	B5		
BH (60°-80°)	1019.0	4.3	B3/2500		G3/2500
BVH (80°-90°)	45.1	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	10176.7	10176.7	10176.7	10176.7	10176.7	10176.7	10176.7	10176.7	10176.7	10176.7
2.5°	10221.7	10155.9	10093.5	10072.7	10159.4	10252.9	10194.0	10197.5	10176.7	10214.8
5°	10298.0	10207.9	10166.3	10135.1	10149.0	10246.0	10162.8	10194.0	10159.4	10204.4
7.5°	10270.3	10207.9	10166.3	10107.4	10152.4	10266.8	10187.1	10190.6	10173.2	10214.8
10°	10252.9	10207.9	10155.9	10162.8	10214.8	10311.9	10249.5	10284.1	10259.9	10284.1
12.5°	10294.5	10246.0	10218.3	10218.3	10263.3	10374.3	10343.1	10374.3	10363.9	10384.7
15°	9902.9	9947.9	10211.3	10329.2	10419.3	10530.2	10516.4	10547.6	10554.5	10585.7
17.5°	8353.5	8308.4	8287.6	8894.2	10506.0	10849.1	10838.7	10835.3	10800.6	10776.3
20°	8558.0	8540.7	8516.4	8561.4	8741.7	11015.5	11084.8	10658.5	10533.7	10523.3
22.5°	8883.8	8856.1	8766.0	8769.4	8824.9	9577.0	10741.7	10353.5	10311.9	10287.6
25°	9043.2	8987.8	8915.0	8894.2	8911.5	8772.9	9594.4	10055.4	9850.9	9757.3
27.5°	8762.5	8766.0	8707.0	8762.5	8696.6	8072.7	7722.6	9473.1	9466.1	9424.5
30°	8551.1	8540.7	8471.3	8540.7	8086.6	7389.9	7240.8	8835.3	8762.5	8707.0
32.5°	7902.9	7909.8	8110.8	8381.2	7636.0	7084.9	6634.3	7892.5	8582.2	8551.1
35°	5653.3	5667.2	6381.2	7715.7	6953.1	6478.3	6443.6	6821.4	8298.0	8311.9
37.5°	5441.9	5441.9	5424.6	5642.9	6415.9	6232.2	6301.5	6263.4	7601.3	7636.0
40°	5289.4	5258.2	5233.9	4890.8	4461.0	6058.9	6107.4	5934.1	7185.4	7192.3
42.5°	5105.7	5071.0	5077.9	4443.6	3993.0	5629.1	5493.9	5261.7	6492.1	6499.1
45°	4769.5	4828.4	4870.0	3889.0	3854.4	4020.8	5067.5	4922.0	6024.2	6152.5
47.5°	2426.3	2478.3	3802.4	3577.1	3656.8	3573.6	4280.7	4284.2	5012.1	5438.4
50°	2201.0	2187.2	2190.6	2086.6	3376.1	2890.8	3095.3	3927.2	4013.8	4623.9
52.5°	2052.0	2048.5	1837.1	1632.6	2121.3	2544.2	2246.1	2842.3	2984.4	3916.8
55°	1518.2	1629.1	1448.9	1535.5	1327.5	2038.1	2027.7	2565.0	2613.5	3140.4
57.5°	13.9	17.3	41.6	1168.1	918.5	1019.1	1400.3	1750.4	1837.1	2447.1
60°	3.5	6.9	17.3	34.7	596.2	627.4	935.9	1012.1	1140.4	1459.3
62.5°	0.0	0.0	6.9	17.3	31.2	256.5	298.1	325.8	502.6	745.2
65°	0.0	0.0	3.5	10.4	17.3	41.6	72.8	152.5	218.4	270.4
67.5°	0.0	0.0	3.5	6.9	13.9	20.8	41.6	58.9	93.6	159.4
70°	0.0	0.0	3.5	6.9	10.4	17.3	27.7	41.6	55.5	79.7
72.5°	0.0	0.0	3.5	6.9	6.9	20.8	20.8	31.2	41.6	52.0
75°	0.0	0.0	3.5	3.5	6.9	13.9	20.8	24.3	27.7	41.6
77.5°	0.0	0.0	3.5	6.9	10.4	13.9	17.3	27.7	24.3	24.3
80°	0.0	0.0	3.5	10.4	10.4	17.3	20.8	27.7	17.3	17.3
82.5°	0.0	0.0	3.5	13.9	10.4	34.7	34.7	38.1	13.9	13.9
85°	0.0	0.0	10.4	6.9	20.8	34.7	31.2	20.8	17.3	10.4
87.5°	0.0	0.0	3.5	3.5	6.9	10.4	24.3	20.8	6.9	6.9
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°
10176.7	0°	10176.7	10176.7	10176.7	10176.7	10176.7	10176.7	10176.7	10176.7	10176.7
10114.3	2.5°	10252.9	10207.9	10301.5	10291.1	10246.0	10225.2	10200.9	10180.2	10027.6
10121.2	5°	10256.4	10187.1	10301.5	10280.7	10273.7	10239.1	10218.3	10249.5	10110.8
10149.0	7.5°	10256.4	10187.1	10311.9	10318.8	10308.4	10280.7	10277.2	10298.0	10183.6
10197.5	10°	10325.7	10298.0	10402.0	10412.4	10398.5	10391.6	10374.3	10360.4	10239.1
10363.9	12.5°	10471.3	10415.9	10533.7	10564.9	10554.5	10571.8	10530.2	10551.0	10426.3
10533.7	15°	10648.1	10651.6	10741.7	10811.0	10804.1	10859.5	10797.1	10852.6	10762.5
10727.8	17.5°	10918.4	10956.6	11084.8	11188.8	11226.9	11268.5	11226.9	11244.3	11116.0
10512.9	20°	10634.2	10776.3	11393.3	11584.0	11663.7	11701.8	11632.5	11653.3	11525.0
10249.5	22.5°	10377.7	10561.4	11109.1	11705.3	11951.4	12027.6	12003.4	11999.9	11951.4
9729.5	25°	9999.9	10370.8	10616.9	11247.7	12020.7	12159.3	12173.2	12169.7	12096.9
9410.7	27.5°	9535.4	9618.6	10256.4	10641.2	11535.4	12062.3	12041.5	11941.0	11843.9
8748.6	30°	8942.7	9320.5	9608.2	10221.7	10908.0	11764.2	11764.2	11687.9	11587.4
8512.9	32.5°	8641.2	9129.9	9396.8	9618.6	10204.4	11431.4	11570.1	11490.4	11410.6
8329.2	35°	8481.7	8554.5	9178.4	9379.5	9875.1	10790.2	11351.7	11272.0	11213.1
7840.5	37.5°	8131.6	8301.5	8592.6	9129.9	9282.4	10266.8	11060.6	11019.0	10949.6
7206.2	40°	7351.8	7805.8	8253.0	8762.5	8921.9	9594.4	10707.0	10724.3	10630.8
6530.3	42.5°	6890.8	7199.2	7899.4	8242.6	8672.4	9161.1	10363.9	10391.6	10325.7
6187.1	45°	6350.0	6693.2	7185.4	7809.3	8395.1	8564.9	9757.3	10048.4	9993.0
5504.3	47.5°	5854.4	6131.7	6734.8	7365.6	8013.8	7989.5	9060.6	9608.2	9532.0
4980.9	50°	5150.7	5636.0	5920.2	6499.1	7466.1	7532.0	8318.8	9091.8	9029.4
4232.2	52.5°	4343.1	4953.2	5497.4	6027.7	6911.6	7067.5	7629.0	8564.9	8523.3
3233.9	55°	3795.5	4239.1	4852.6	5279.0	6239.1	6655.1	7112.6	8062.3	8041.5
2658.6	57.5°	2700.1	3556.3	4062.4	4658.5	5164.6	5916.8	6256.4	7039.8	6845.7
1473.1	60°	1830.1	2232.2	2849.2	3490.4	3830.1	4582.3	4897.7	5525.1	5473.1
880.4	62.5°	967.1	1337.9	1778.1	2100.5	2346.6	3078.0	3209.7	3885.6	3868.2
353.5	65°	426.3	565.0	963.6	1130.0	1383.0	1722.7	1837.1	2079.7	2020.8
173.3	67.5°	221.8	336.2	544.2	669.0	842.3	970.5	1064.1	1140.4	1188.9
114.4	70°	135.2	246.1	336.2	464.5	578.9	682.8	755.6	859.6	922.0
58.9	72.5°	100.5	156.0	232.2	357.0	419.4	540.7	613.5	689.8	745.2
48.5	75°	55.5	104.0	187.2	280.8	336.2	440.2	506.1	558.1	575.4
27.7	77.5°	34.7	79.7	156.0	218.4	263.4	357.0	339.7	388.2	429.8
20.8	80°	24.3	58.9	121.3	180.2	183.7	228.8	270.4	312.0	339.7
13.9	82.5°	17.3	48.5	90.1	138.6	121.3	176.8	211.4	242.6	176.8
10.4	85°	13.9	34.7	45.1	83.2	69.3	124.8	107.5	104.0	69.3
6.9	87.5°	10.4	17.3	31.2	38.1	27.7	27.7	34.7	41.6	34.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
10176.7
9923.7
9993.0
10051.9
10138.6
10315.3
10613.4
11005.1
11434.9
11795.4
11986.0
11767.7
11549.3
11344.8
11129.9
10880.3
10610.0
10318.8
9999.9
9587.4
9039.8
8551.1
8065.8
6824.9
5476.6
3871.7
1996.5
1188.9
925.5
755.6
565.0
436.7
343.2
128.2
69.3
34.7
0.0

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