

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: P638347

Luminaire Tested: **IFLD-M-SA4A-727-U-LAM-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638347  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4A-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: 11383 lumens  
Efficiency: N/A  
Efficacy: 88.5 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B3 - U0 - G1

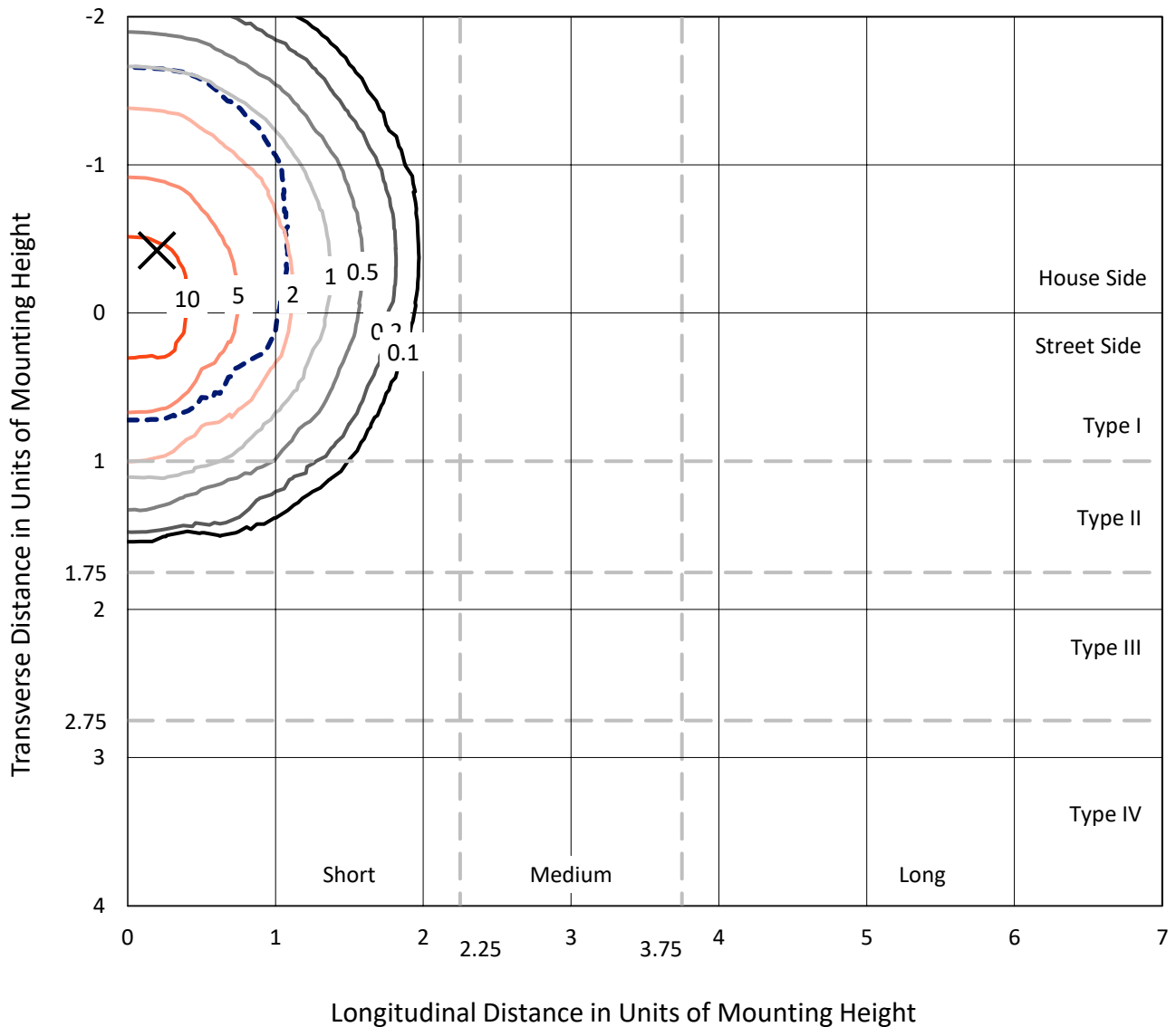
Input Watts (W): 128.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

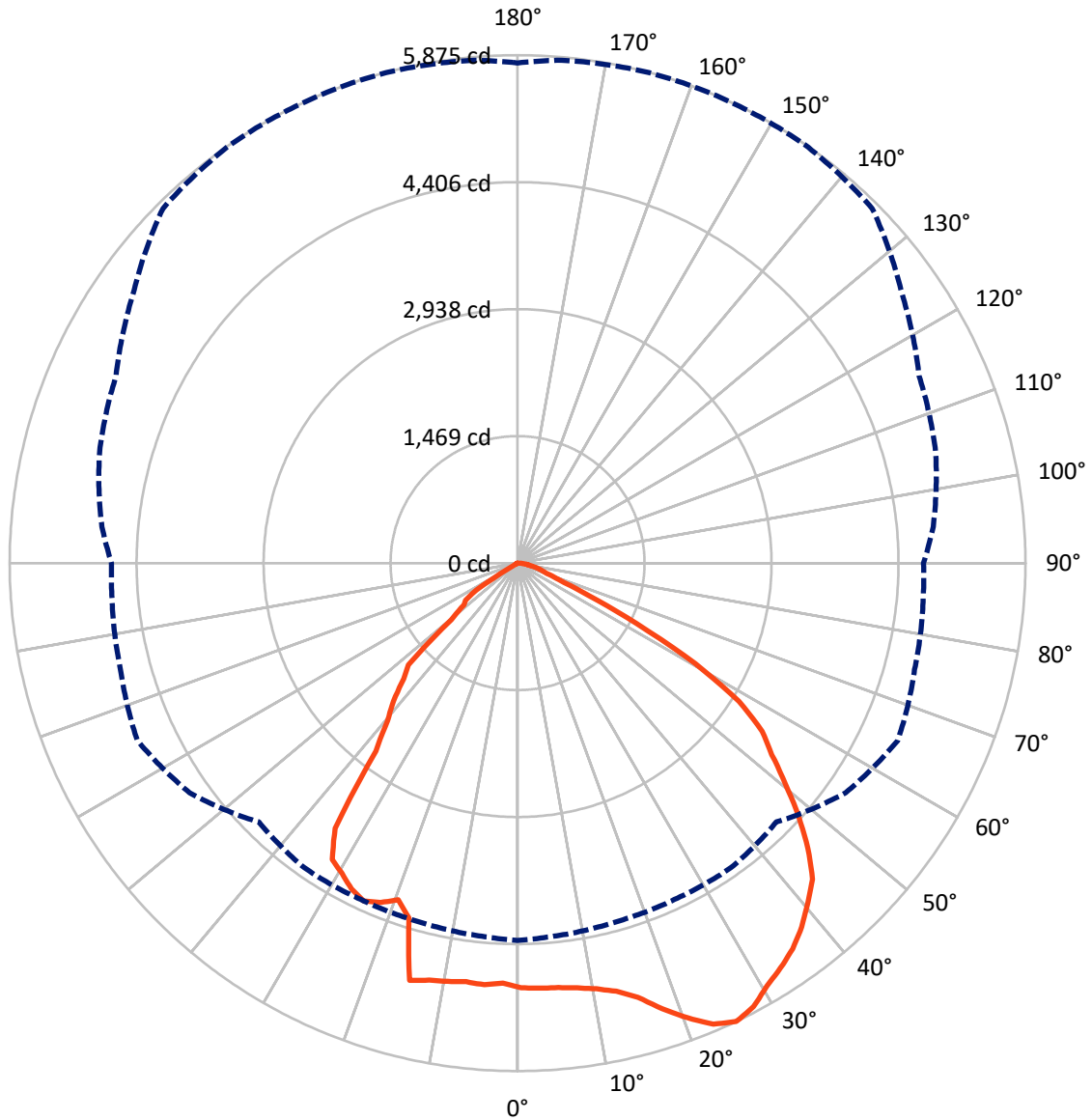
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 12.3 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
<b>House Side</b>	Lumens	7047.2	0.0	7047.2
	% Fixture	61.9	0.0	61.9
<b>Street Side</b>	Lumens	4335.7	0.0	4335.7
	% Fixture	38.1	0.0	38.1
<b>Total</b>	Lumens	11383.0	0.0	11383.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	471.2	4.1
10°-20°	1438.8	12.6
20°-30°	2274.6	20.0
30°-40°	2569.4	22.6
40°-50°	2406.3	21.1
50°-60°	1659.0	14.6
60°-70°	445.7	3.9
70°-80°	92.9	0.8
80°-90°	25.1	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°	11383.0	100.0
0°-180°	11383.0	100.0



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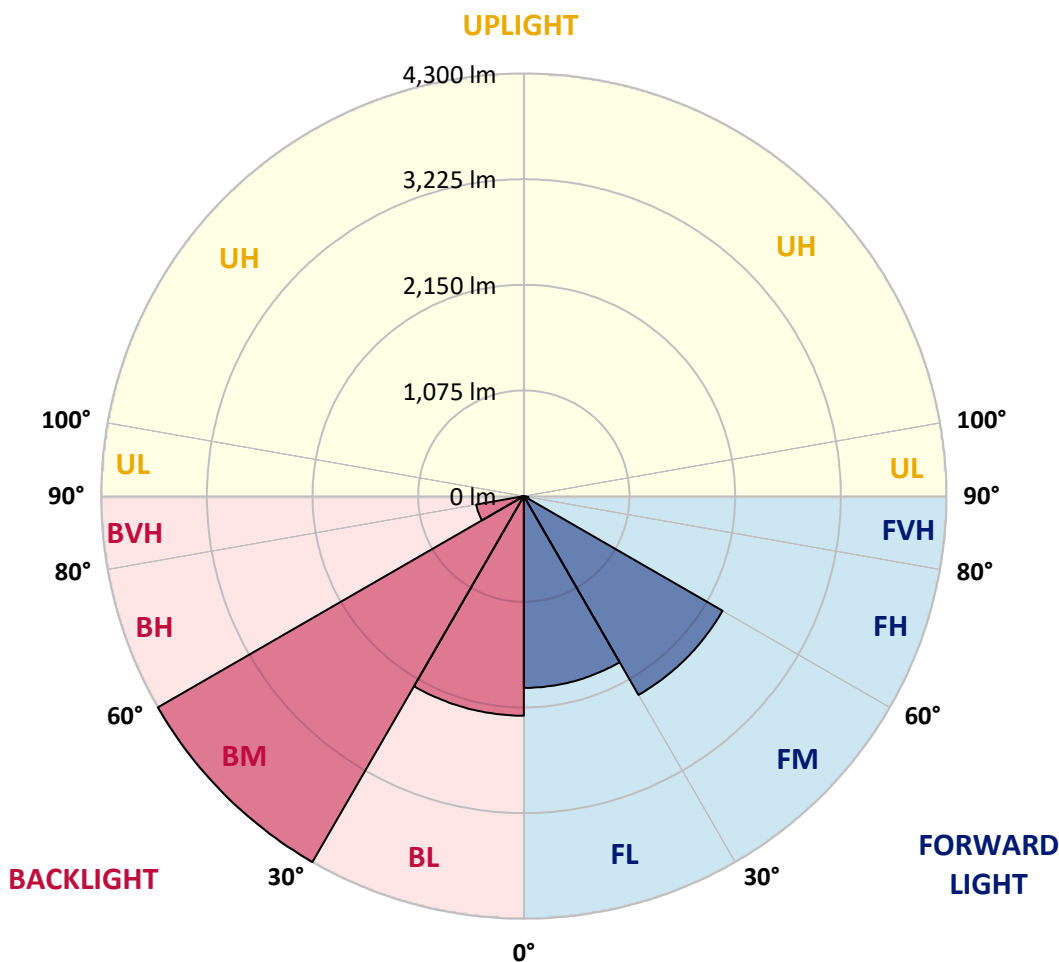
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1950.7	17.1			
FM (30°-60°)	2334.9	20.5			
FH (60°-80°)	46.8	0.4			G0/660
FVH (80°-90°)	3.4	0.0			G0/10
BL (0°-30°)	2233.9	19.6	B3/2500		
BM (30°-60°)	4299.7	37.8	B3/5000		
BH (60°-80°)	491.8	4.3	B1/500		G1/500
BVH (80°-90°)	21.8	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4911.6	4911.6	4911.6	4911.6	4911.6	4911.6	4911.6	4911.6	4911.6	4911.6
2.5°	4933.3	4901.5	4871.4	4861.4	4903.2	4948.4	4919.9	4921.6	4911.6	4930.0
5°	4970.1	4926.6	4906.5	4891.5	4898.2	4945.0	4904.9	4919.9	4903.2	4924.9
7.5°	4956.7	4926.6	4906.5	4878.1	4899.8	4955.0	4916.6	4918.2	4909.9	4930.0
10°	4948.4	4926.6	4901.5	4904.9	4930.0	4976.8	4946.7	4963.4	4951.7	4963.4
12.5°	4968.4	4945.0	4931.6	4931.6	4953.4	5006.9	4991.9	5006.9	5001.9	5011.9
15°	4779.4	4801.1	4928.3	4985.2	5028.7	5082.2	5075.5	5090.6	5093.9	5109.0
17.5°	4031.6	4009.9	3999.8	4292.6	5070.5	5236.1	5231.1	5229.4	5212.7	5201.0
20°	4130.3	4122.0	4110.2	4132.0	4219.0	5316.4	5349.8	5144.1	5083.9	5078.8
22.5°	4287.6	4274.2	4230.7	4232.4	4259.1	4622.1	5184.2	4996.9	4976.8	4965.1
25°	4364.5	4337.8	4302.6	4292.6	4301.0	4234.0	4630.5	4853.0	4754.3	4709.1
27.5°	4229.0	4230.7	4202.3	4229.0	4197.2	3896.1	3727.2	4572.0	4568.6	4548.5
30°	4127.0	4122.0	4088.5	4122.0	3902.8	3566.6	3494.6	4264.2	4229.0	4202.3
32.5°	3814.2	3817.5	3914.5	4045.0	3685.3	3419.4	3201.9	3809.1	4142.0	4127.0
35°	2728.5	2735.1	3079.8	3723.8	3355.8	3126.6	3109.9	3292.2	4004.9	4011.5
37.5°	2626.4	2626.4	2618.0	2723.4	3096.5	3007.8	3041.3	3022.9	3668.6	3685.3
40°	2552.8	2537.7	2526.0	2360.4	2153.0	2924.2	2947.6	2864.0	3467.9	3471.2
42.5°	2464.1	2447.4	2450.8	2144.6	1927.1	2716.7	2651.5	2539.4	3133.3	3136.6
45°	2301.9	2330.3	2350.4	1877.0	1860.2	1940.5	2445.7	2375.5	2907.5	2969.3
47.5°	1171.0	1196.1	1835.1	1726.4	1764.9	1724.7	2066.0	2067.7	2419.0	2624.7
50°	1062.3	1055.6	1057.3	1007.1	1629.4	1395.2	1493.9	1895.4	1937.2	2231.6
52.5°	990.3	988.7	886.6	787.9	1023.8	1227.9	1084.0	1371.8	1440.3	1890.3
55°	732.7	786.3	699.3	741.1	640.7	983.6	978.6	1237.9	1261.3	1515.6
57.5°	6.7	8.4	20.1	563.8	443.3	491.8	675.8	844.8	886.6	1181.0
60°	1.7	3.3	8.4	16.7	287.7	302.8	451.7	488.5	550.4	704.3
62.5°	0.0	0.0	3.3	8.4	15.1	123.8	143.9	157.3	242.6	359.7
65°	0.0	0.0	1.7	5.0	8.4	20.1	35.1	73.6	105.4	130.5
67.5°	0.0	0.0	1.7	3.3	6.7	10.0	20.1	28.4	45.2	77.0
70°	0.0	0.0	1.7	3.3	5.0	8.4	13.4	20.1	26.8	38.5
72.5°	0.0	0.0	1.7	3.3	3.3	10.0	10.0	15.1	20.1	25.1
75°	0.0	0.0	1.7	1.7	3.3	6.7	10.0	11.7	13.4	20.1
77.5°	0.0	0.0	1.7	3.3	5.0	6.7	8.4	13.4	11.7	11.7
80°	0.0	0.0	1.7	5.0	5.0	8.4	10.0	13.4	8.4	8.4
82.5°	0.0	0.0	1.7	6.7	5.0	16.7	16.7	18.4	6.7	6.7
85°	0.0	0.0	5.0	3.3	10.0	16.7	15.1	10.0	8.4	5.0
87.5°	0.0	0.0	1.7	1.7	3.3	5.0	11.7	10.0	3.3	3.3
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°
4911.6	0°	4911.6	4911.6	4911.6	4911.6	4911.6	4911.6	4911.6	4911.6	4911.6
4881.4	2.5°	4948.4	4926.6	4971.8	4966.8	4945.0	4935.0	4923.3	4913.2	4839.6
4884.8	5°	4950.0	4916.6	4971.8	4961.7	4958.4	4941.7	4931.6	4946.7	4879.8
4898.2	7.5°	4950.0	4916.6	4976.8	4980.1	4975.1	4961.7	4960.1	4970.1	4914.9
4921.6	10°	4983.5	4970.1	5020.3	5025.3	5018.6	5015.3	5006.9	5000.2	4941.7
5001.9	12.5°	5053.7	5027.0	5083.9	5098.9	5093.9	5102.3	5082.2	5092.2	5032.0
5083.9	15°	5139.1	5140.7	5184.2	5217.7	5214.3	5241.1	5211.0	5237.8	5194.3
5177.5	17.5°	5269.5	5288.0	5349.8	5400.0	5418.4	5438.5	5418.4	5426.8	5364.9
5073.8	20°	5132.4	5201.0	5498.7	5590.7	5629.2	5647.6	5614.2	5624.2	5562.3
4946.7	22.5°	5008.6	5097.2	5361.6	5649.3	5768.1	5804.9	5793.2	5791.5	5768.1
4695.8	25°	4826.2	5005.2	5124.0	5428.5	5801.5	5868.4	5875.1	5873.5	5838.3
4541.8	27.5°	4602.1	4642.2	4950.0	5135.7	5567.3	5821.6	5811.6	5763.0	5716.2
4222.3	30°	4316.0	4498.4	4637.2	4933.3	5264.5	5677.7	5677.7	5640.9	5592.4
4108.6	32.5°	4170.5	4406.3	4535.2	4642.2	4924.9	5517.1	5584.0	5545.6	5507.1
4019.9	35°	4093.5	4128.7	4429.8	4526.8	4766.0	5207.7	5478.7	5440.2	5411.7
3784.0	37.5°	3924.6	4006.5	4147.1	4406.3	4480.0	4955.0	5338.1	5318.1	5284.6
3477.9	40°	3548.2	3767.3	3983.1	4229.0	4306.0	4630.5	5167.5	5175.9	5130.7
3151.7	42.5°	3325.7	3474.6	3812.5	3978.1	4185.5	4421.4	5001.9	5015.3	4983.5
2986.1	45°	3064.7	3230.3	3467.9	3769.0	4051.7	4133.7	4709.1	4849.7	4822.9
2656.5	47.5°	2825.5	2959.3	3250.4	3554.9	3867.7	3856.0	4372.9	4637.2	4600.4
2403.9	50°	2485.9	2720.1	2857.3	3136.6	3603.4	3635.2	4014.9	4387.9	4357.8
2042.6	52.5°	2096.1	2390.5	2653.2	2909.1	3335.7	3411.0	3682.0	4133.7	4113.6
1560.8	55°	1831.8	2045.9	2342.0	2547.8	3011.2	3211.9	3432.7	3891.1	3881.1
1283.1	57.5°	1303.2	1716.4	1960.6	2248.3	2492.6	2855.6	3019.5	3397.6	3303.9
711.0	60°	883.3	1077.3	1375.1	1684.6	1848.5	2211.5	2363.8	2666.6	2641.5
424.9	62.5°	466.7	645.7	858.2	1013.8	1132.5	1485.5	1549.1	1875.3	1866.9
170.6	65°	205.8	272.7	465.1	545.4	667.5	831.4	886.6	1003.7	975.3
83.6	67.5°	107.1	162.3	262.6	322.9	406.5	468.4	513.6	550.4	573.8
55.2	70°	65.2	118.8	162.3	224.2	279.4	329.6	364.7	414.9	445.0
28.4	72.5°	48.5	75.3	112.1	172.3	202.4	261.0	296.1	332.9	359.7
23.4	75°	26.8	50.2	90.3	135.5	162.3	212.5	244.2	269.3	277.7
13.4	77.5°	16.7	38.5	75.3	105.4	127.1	172.3	163.9	187.4	207.4
10.0	80°	11.7	28.4	58.6	87.0	88.7	110.4	130.5	150.6	163.9
6.7	82.5°	8.4	23.4	43.5	66.9	58.6	85.3	102.0	117.1	85.3
5.0	85°	6.7	16.7	21.7	40.1	33.5	60.2	51.9	50.2	33.5
3.3	87.5°	5.0	8.4	15.1	18.4	13.4	13.4	16.7	20.1	16.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
4911.6  
4789.4  
4822.9  
4851.3  
4893.2  
4978.5  
5122.3  
5311.4  
5518.8  
5692.8  
*5784.8*  
5679.4  
5574.0  
5475.3  
5371.6  
5251.1  
5120.7  
4980.1  
4826.2  
4627.2  
4362.9  
4127.0  
3892.8  
3293.9  
2643.1  
1868.6  
963.6  
573.8  
446.7  
364.7  
272.7  
210.8  
165.6  
61.9  
33.5  
16.7  
0.0

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