

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: P636871

Luminaire Tested: **IFLD-M-SA4D-927-U-LAM-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P636871  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4D-927-U-LAM-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens and Visor  
Light Source: (64) 2700K CCT, 90 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14597.6 lumens  
Efficiency: N/A  
Efficacy: 58.5 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G2

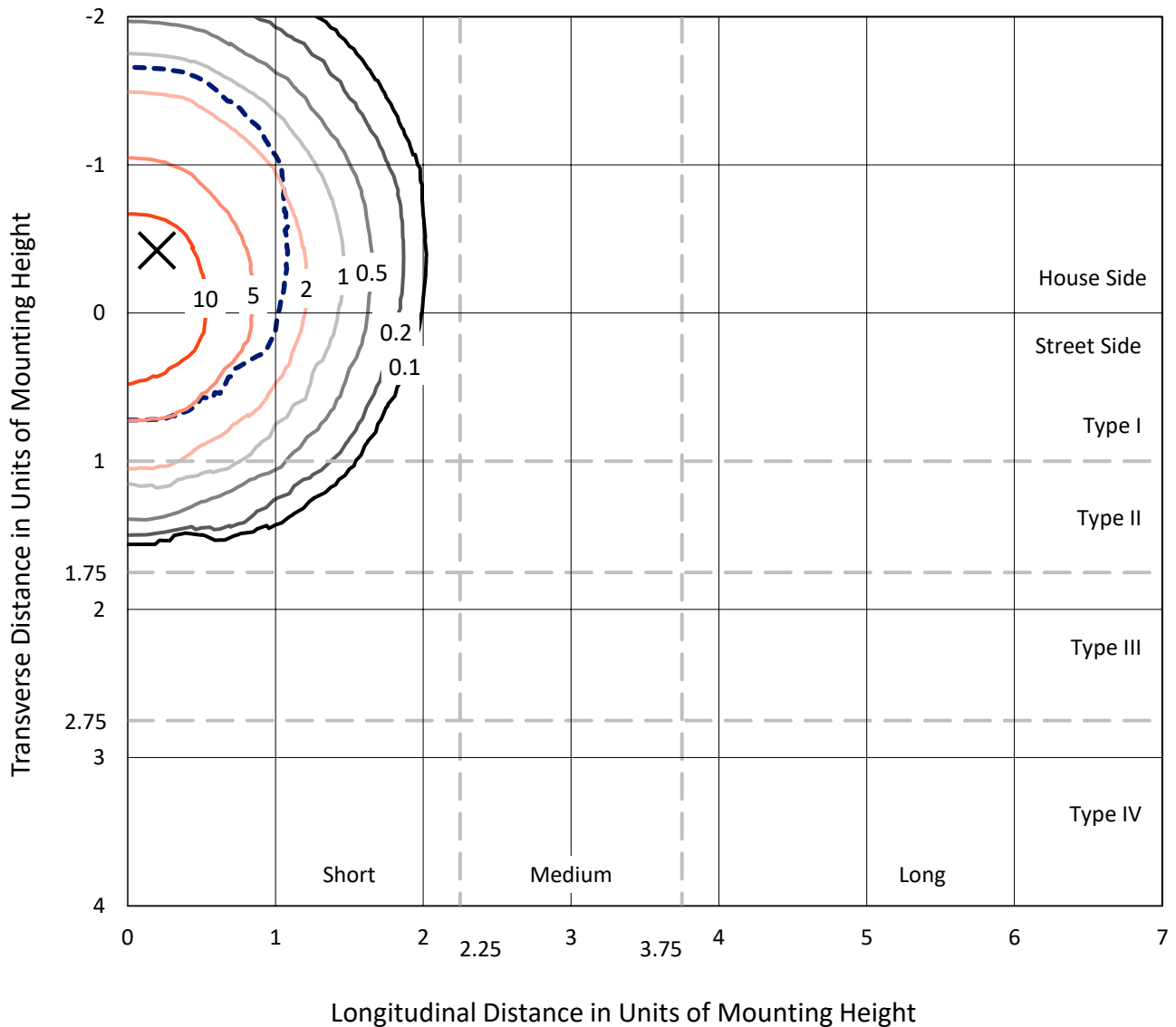
Input Watts (W): 249.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

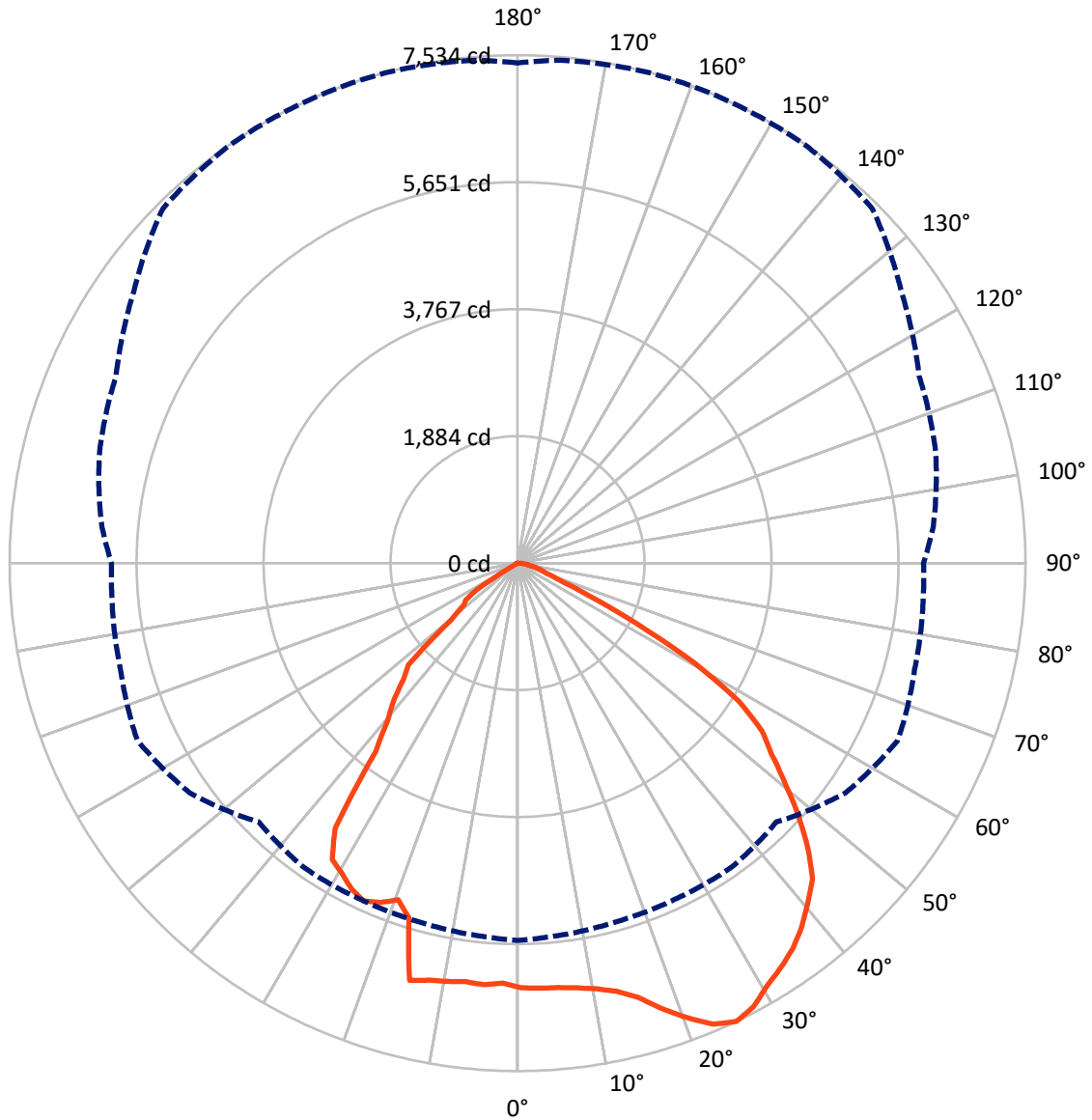
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 15.7 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	9037.4	0.0	9037.4
	% Fixture	61.9	0.0	61.9
<b>Street Side</b>	Lumens	5560.2	0.0	5560.2
	% Fixture	38.1	0.0	38.1
<b>Total</b>	Lumens	14597.6	0.0	14597.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	604.3	4.1
10°-20°	1845.1	12.6
20°-30°	2917.0	20.0
30°-40°	3295.0	22.6
40°-50°	3085.8	21.1
50°-60°	2127.5	14.6
60°-70°	571.6	3.9
70°-80°	119.1	0.8
80°-90°	32.2	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°	14597.6	100.0
0°-180°	14597.6	100.0



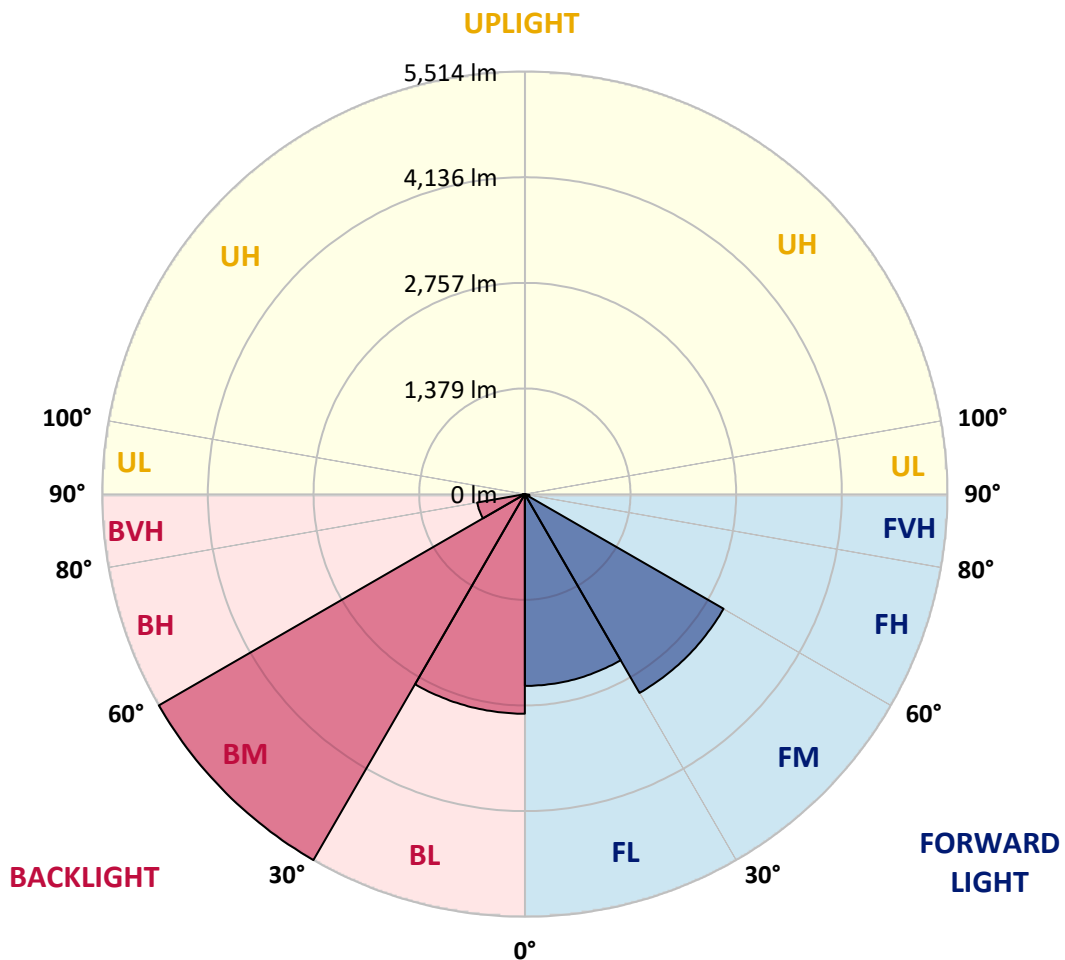
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2501.6	17.1			
FM (30°-60°)	2994.3	20.5			
FH (60°-80°)	60.0	0.4			G0/660
FVH (80°-90°)	4.3	0.0			G0/10
BL (0°-30°)	2864.8	19.6	B4/5000		
BM (30°-60°)	5514.0	37.8	B4/8500		
BH (60°-80°)	630.7	4.3	B2/1000		G2/1000
BVH (80°-90°)	27.9	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°	6298.6	6298.6	6298.6	6298.6	6298.6	6298.6	6298.6	6298.6	6298.6	6298.6
2.5°	6326.5	6285.7	6247.1	6234.3	6287.9	6345.8	6309.3	6311.5	6298.6	6322.2
5°	6373.7	6317.9	6292.2	6272.9	6281.5	6341.5	6290.0	6309.3	6287.9	6315.8
7.5°	6356.5	6317.9	6292.2	6255.7	6283.6	6354.4	6305.1	6307.2	6296.5	6322.2
10°	6345.8	6317.9	6285.7	6290.0	6322.2	6382.3	6343.7	6365.1	6350.1	6365.1
12.5°	6371.6	6341.5	6324.4	6324.4	6352.3	6420.9	6401.6	6420.9	6414.5	6427.3
15°	6129.1	6157.0	6320.1	6393.0	6448.8	6517.4	6508.9	6528.2	6532.5	6551.8
17.5°	5170.2	5142.3	5129.4	5504.9	6502.4	6714.8	6708.4	6706.2	6684.8	6669.8
20°	5296.8	5286.0	5271.0	5298.9	5410.5	6817.8	6860.7	6596.8	6519.6	6513.2
22.5°	5498.4	5481.3	5425.5	5427.6	5462.0	5927.5	6648.3	6408.0	6382.3	6367.3
25°	5597.1	5562.8	5517.7	5504.9	5515.6	5429.8	5938.2	6223.5	6097.0	6039.0
27.5°	5423.3	5425.5	5389.0	5423.3	5382.6	4996.4	4779.7	5863.1	5858.8	5833.1
30°	5292.5	5286.0	5243.1	5286.0	5005.0	4573.8	4481.5	5468.4	5423.3	5389.0
32.5°	4891.3	4895.6	5020.0	5187.4	4726.1	4385.0	4106.1	4884.9	5311.8	5292.5
35°	3499.0	3507.6	3949.5	4775.5	4303.5	4009.6	3988.1	4222.0	5135.9	5144.4
37.5°	3368.1	3368.1	3357.4	3492.6	3971.0	3857.3	3900.2	3876.6	4704.7	4726.1
40°	3273.7	3254.4	3239.4	3027.0	2761.0	3750.0	3780.0	3672.8	4447.2	4451.5
42.5°	3160.0	3138.6	3142.9	2750.3	2471.4	3484.0	3400.3	3256.6	4018.2	4022.5
45°	2951.9	2988.4	3014.2	2407.0	2385.6	2488.6	3136.4	3046.3	3728.5	3807.9
47.5°	1501.7	1533.9	2353.4	2214.0	2263.3	2211.8	2649.5	2651.6	3102.1	3366.0
50°	1362.3	1353.7	1355.8	1291.5	2089.5	1789.2	1915.8	2430.6	2484.3	2861.8
52.5°	1270.0	1267.9	1137.0	1010.4	1312.9	1574.7	1390.2	1759.2	1847.1	2424.2
55°	939.6	1008.3	896.7	950.4	821.7	1261.4	1255.0	1587.5	1617.6	1943.6
57.5°	8.6	10.7	25.7	723.0	568.5	630.7	866.7	1083.4	1137.0	1514.6
60°	2.1	4.3	10.7	21.5	369.0	388.3	579.2	626.4	705.8	903.2
62.5°	0.0	0.0	4.3	10.7	19.3	158.8	184.5	201.7	311.1	461.2
65°	0.0	0.0	2.1	6.4	10.7	25.7	45.1	94.4	135.2	167.3
67.5°	0.0	0.0	2.1	4.3	8.6	12.9	25.7	36.5	57.9	98.7
70°	0.0	0.0	2.1	4.3	6.4	10.7	17.2	25.7	34.3	49.3
72.5°	0.0	0.0	2.1	4.3	4.3	12.9	12.9	19.3	25.7	32.2
75°	0.0	0.0	2.1	2.1	4.3	8.6	12.9	15.0	17.2	25.7
77.5°	0.0	0.0	2.1	4.3	6.4	8.6	10.7	17.2	15.0	15.0
80°	0.0	0.0	2.1	6.4	6.4	10.7	12.9	17.2	10.7	10.7
82.5°	0.0	0.0	2.1	8.6	6.4	21.5	21.5	23.6	8.6	8.6
85°	0.0	0.0	6.4	4.3	12.9	21.5	19.3	12.9	10.7	6.4
87.5°	0.0	0.0	2.1	2.1	4.3	6.4	15.0	12.9	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°
6298.6	0°	6298.6	6298.6	6298.6	6298.6	6298.6	6298.6	6298.6	6298.6	6298.6
6260.0	2.5°	6345.8	6317.9	6375.9	6369.4	6341.5	6328.7	6313.6	6300.8	6206.4
6264.3	5°	6348.0	6305.1	6375.9	6363.0	6358.7	6337.2	6324.4	6343.7	6257.9
6281.5	7.5°	6348.0	6305.1	6382.3	6386.6	6380.1	6363.0	6360.8	6373.7	6302.9
6311.5	10°	6390.9	6373.7	6438.1	6444.5	6435.9	6431.6	6420.9	6412.3	6337.2
6414.5	12.5°	6481.0	6446.6	6519.6	6538.9	6532.5	6543.2	6517.4	6530.3	6453.1
6519.6	15°	6590.4	6592.5	6648.3	6691.2	6686.9	6721.2	6682.6	6717.0	6661.2
6639.7	17.5°	6757.7	6781.3	6860.7	6925.1	6948.6	6974.4	6948.6	6959.4	6880.0
6506.7	20°	6581.8	6669.8	7051.6	7169.6	7219.0	7242.6	7199.7	7212.5	7133.1
6343.7	22.5°	6423.0	6536.8	6875.7	7244.7	7397.0	7444.2	7429.2	7427.1	7397.0
6021.9	25°	6189.2	6418.8	6571.1	6961.5	7439.9	7525.7	7534.3	7532.2	7487.1
5824.5	27.5°	5901.7	5953.2	6348.0	6586.1	7139.6	7465.7	7452.8	7390.6	7330.5
5414.8	30°	5534.9	5768.7	5946.8	6326.5	6751.3	7281.2	7281.2	7234.0	7171.8
5268.9	32.5°	5348.3	5650.7	5815.9	5953.2	6315.8	7075.2	7161.0	7111.7	7062.4
5155.2	35°	5249.6	5294.6	5680.8	5805.2	6112.0	6678.3	7025.9	6976.5	6940.1
4852.7	37.5°	5032.9	5138.0	5318.2	5650.7	5745.1	6354.4	6845.7	6819.9	6777.0
4460.1	40°	4550.2	4831.2	5108.0	5423.3	5522.0	5938.2	6626.9	6637.6	6579.7
4041.8	42.5°	4264.9	4455.8	4889.2	5101.5	5367.6	5670.0	6414.5	6431.6	6390.9
3829.4	45°	3930.2	4142.6	4447.2	4833.4	5195.9	5301.1	6039.0	6219.2	6184.9
3406.7	47.5°	3623.4	3795.0	4168.3	4558.8	4959.9	4944.9	5607.8	5946.8	5899.6
3082.8	50°	3187.9	3488.3	3664.2	4022.5	4621.0	4661.8	5148.7	5627.1	5588.5
2619.4	52.5°	2688.1	3065.6	3402.5	3730.7	4277.7	4374.3	4721.8	5301.1	5275.3
2001.6	55°	2349.1	2623.7	3003.4	3267.3	3861.6	4119.0	4402.2	4990.0	4977.1
1645.5	57.5°	1671.2	2201.1	2514.3	2883.3	3196.5	3662.0	3872.3	4357.1	4237.0
911.8	60°	1132.7	1381.6	1763.4	2160.3	2370.6	2836.1	3031.3	3419.6	3387.4
544.9	62.5°	598.5	828.1	1100.5	1300.1	1452.4	1905.0	1986.6	2404.9	2394.2
218.8	65°	263.9	349.7	596.4	699.4	856.0	1066.2	1137.0	1287.2	1250.7
107.3	67.5°	137.3	208.1	336.8	414.0	521.3	600.7	658.6	705.8	735.8
70.8	70°	83.7	152.3	208.1	287.5	358.3	422.6	467.7	532.0	570.7
36.5	72.5°	62.2	96.5	143.7	221.0	259.6	334.7	379.7	426.9	461.2
30.0	75°	34.3	64.4	115.8	173.8	208.1	272.5	313.2	345.4	356.1
17.2	77.5°	21.5	49.3	96.5	135.2	163.0	221.0	210.2	240.3	266.0
12.9	80°	15.0	36.5	75.1	111.6	113.7	141.6	167.3	193.1	210.2
8.6	82.5°	10.7	30.0	55.8	85.8	75.1	109.4	130.9	150.2	109.4
6.4	85°	8.6	21.5	27.9	51.5	42.9	77.2	66.5	64.4	42.9
4.3	87.5°	6.4	10.7	19.3	23.6	17.2	17.2	21.5	25.7	21.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
6298.6
6142.0
6184.9
6221.4
6275.0
6384.4
6568.9
6811.3
7077.4
7300.5
7418.5
7283.3
7148.2
7021.6
6888.6
6734.1
6566.8
6386.6
6189.2
5933.9
5595.0
5292.5
4992.1
4224.1
3389.6
2396.3
1235.7
735.8
572.8
467.7
349.7
270.3
212.4
79.4
42.9
21.5
0.0

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