

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: P636905

Luminaire Tested: **IFLD-L-SA7D-930-U-LAM-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P636905  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7D-930-U-LAM-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens and Visor  
Light Source: (112) 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23009.3 lumens  
Efficiency: N/A  
Efficacy: 54.4 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G2

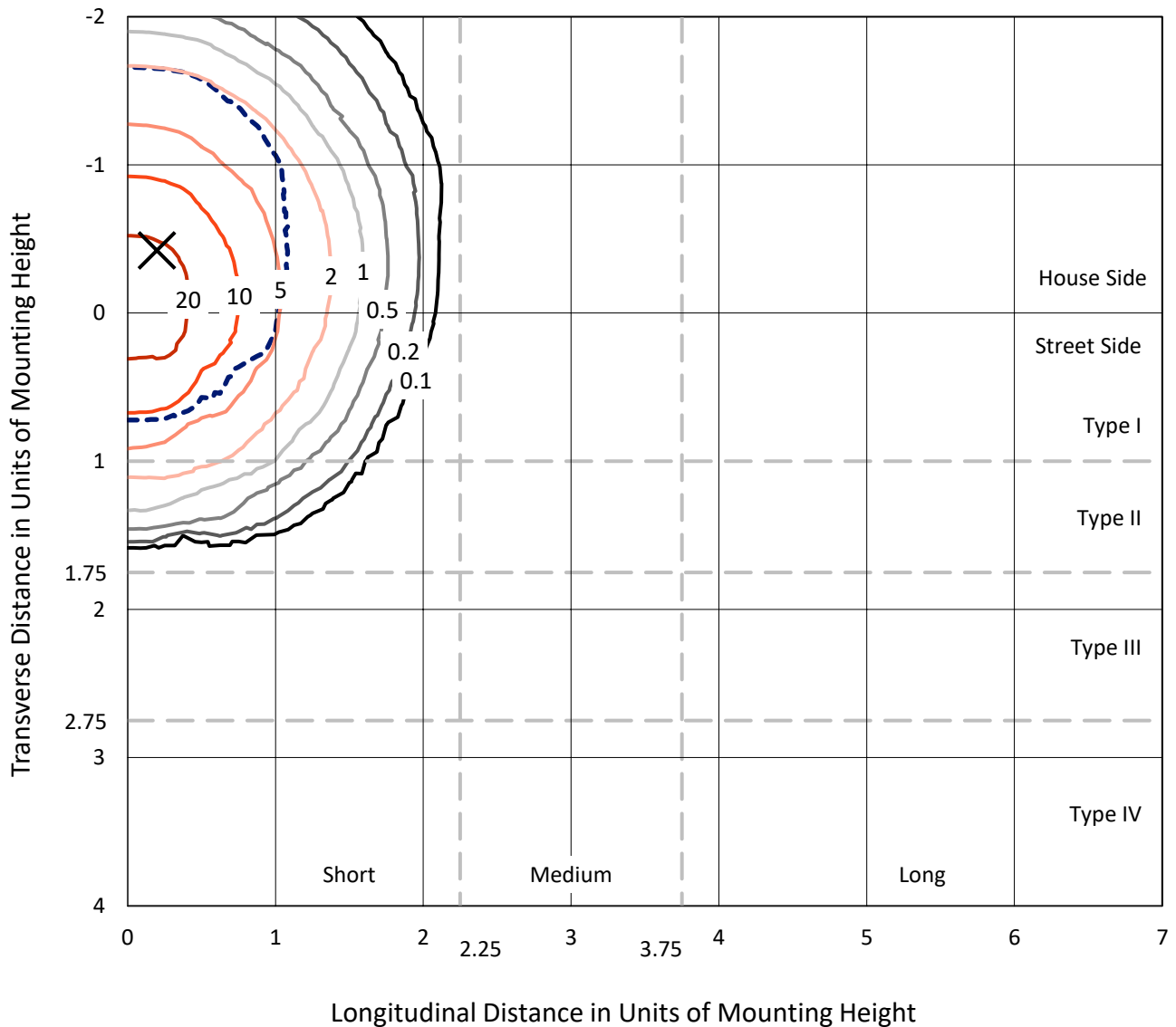
Input Watts (W): 422.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

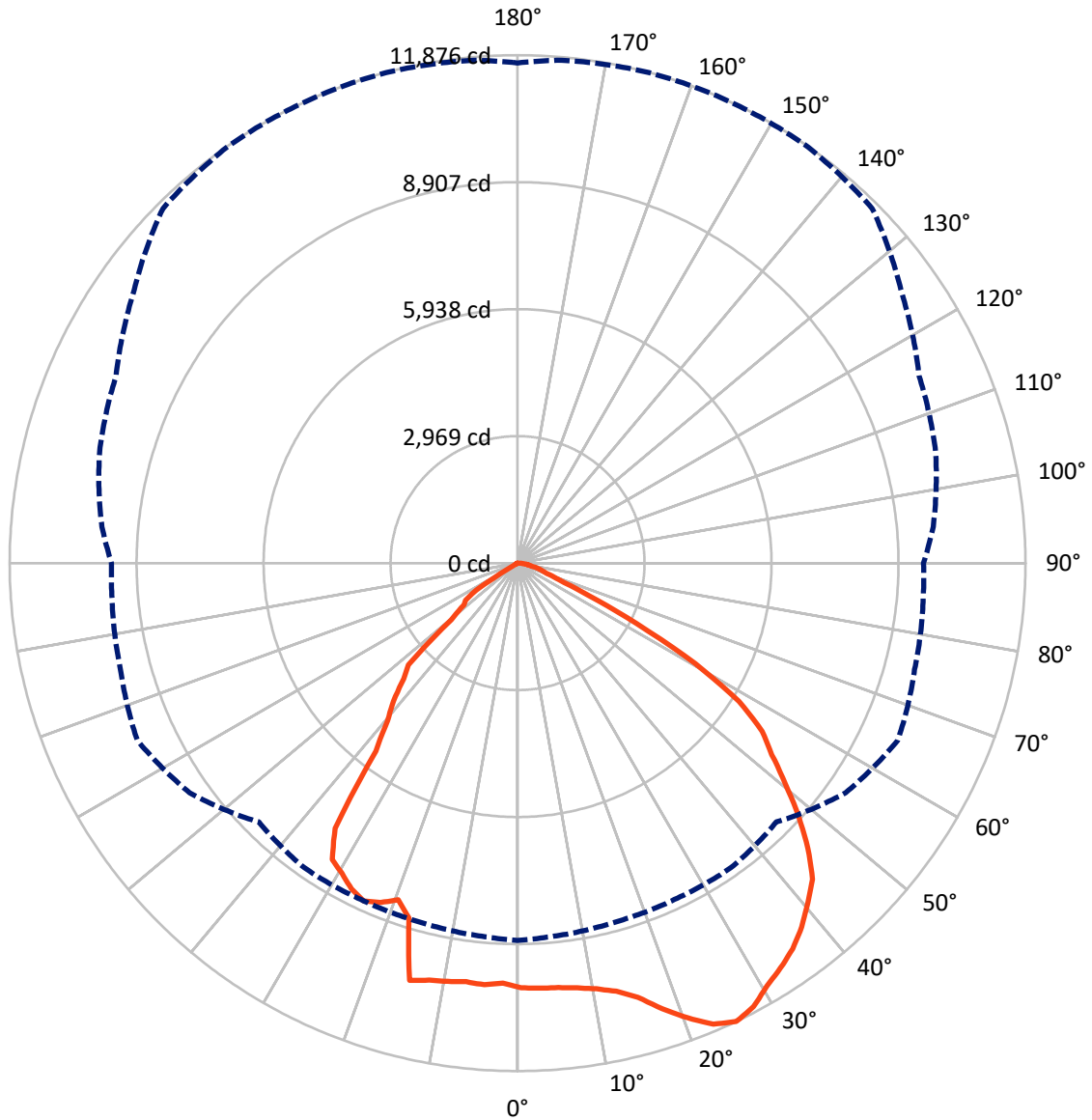
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 24.8 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	14245.1	0.0	14245.1
	% Fixture	61.9	0.0	61.9
<b>Street Side</b>	Lumens	8764.2	0.0	8764.2
	% Fixture	38.1	0.0	38.1
<b>Total</b>	Lumens	23009.3	0.0	23009.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	952.5	4.1
10°-20°	2908.3	12.6
20°-30°	4597.9	20.0
30°-40°	5193.7	22.6
40°-50°	4864.0	21.1
50°-60°	3353.4	14.6
60°-70°	900.9	3.9
70°-80°	187.8	0.8
80°-90°	50.8	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°	23009.3	100.0
0°-180°	23009.3	100.0

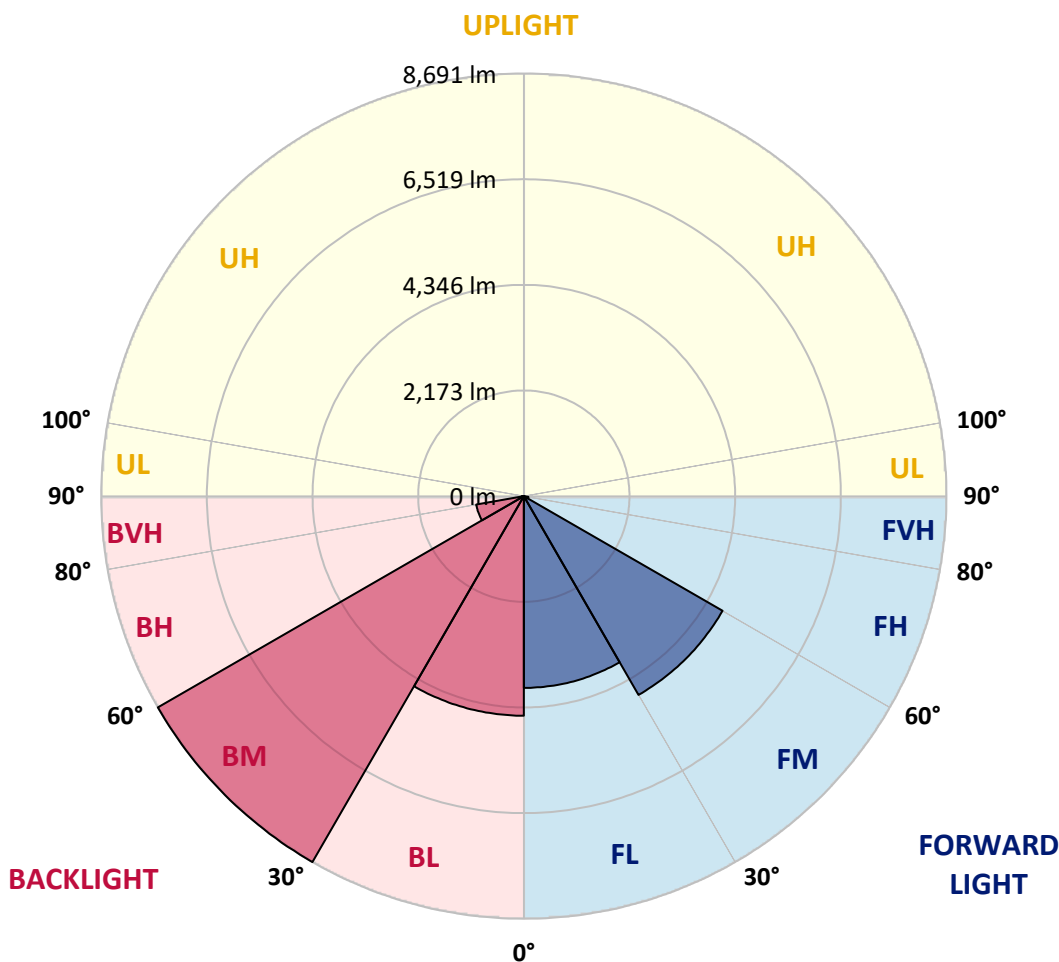


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3943.1	17.1			
FM (30°-60°)	4719.7	20.5			
FH (60°-80°)	94.6	0.4			G0/660
FVH (80°-90°)	6.8	0.0			G0/10
BL (0°-30°)	4515.6	19.6	B4/5000		
BM (30°-60°)	8691.4	37.8	B5		
BH (60°-80°)	994.1	4.3	B2/1000		G2/1000
BVH (80°-90°)	44.0	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-G2**  
 Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	9928.1	9928.1	9928.1	9928.1	9928.1	9928.1	9928.1	9928.1	9928.1	9928.1
2.5°	9972.0	9907.8	9846.9	9826.6	9911.2	10002.5	9945.0	9948.4	9928.1	9965.3
5°	10046.4	9958.5	9917.9	9887.5	9901.0	9995.7	9914.6	9945.0	9911.2	9955.1
7.5°	10019.4	9958.5	9917.9	9860.5	9904.4	10016.0	9938.2	9941.6	9924.7	9965.3
10°	10002.5	9958.5	9907.8	9914.6	9965.3	10060.0	9999.1	10032.9	10009.2	10032.9
12.5°	10043.1	9995.7	9968.7	9968.7	10012.6	10120.8	10090.4	10120.8	10110.7	10131.0
15°	9660.9	9704.9	9961.9	10076.9	10164.8	10273.0	10259.5	10289.9	10296.7	10327.1
17.5°	8149.4	8105.5	8085.2	8676.9	10249.3	10584.1	10574.0	10570.6	10536.8	10513.1
20°	8348.9	8332.0	8308.3	8352.3	8528.1	10746.4	10814.0	10398.1	10276.4	10266.2
22.5°	8666.8	8639.7	8551.8	8555.2	8609.3	9343.1	10479.3	10100.5	10060.0	10036.3
25°	8822.3	8768.2	8697.2	8676.9	8693.8	8558.6	9360.0	9809.7	9610.2	9518.9
27.5°	8548.4	8551.8	8494.3	8548.4	8484.2	7875.5	7534.0	9241.6	9234.9	9194.3
30°	8342.2	8332.0	8264.4	8332.0	7889.0	7209.4	7064.0	8619.4	8548.4	8494.3
32.5°	7709.8	7716.6	7912.7	8176.5	7449.4	6911.8	6472.2	7699.7	8372.6	8342.2
35°	5515.2	5528.8	6225.3	7527.2	6783.3	6320.0	6286.2	6654.8	8095.3	8108.8
37.5°	5309.0	5309.0	5292.0	5505.1	6259.2	6079.9	6147.6	6110.4	7415.6	7449.4
40°	5160.2	5129.7	5106.1	4771.3	4352.0	5910.9	5958.2	5789.1	7009.8	7016.6
42.5°	4980.9	4947.1	4953.9	4335.1	3895.5	5491.6	5359.7	5133.1	6333.5	6340.3
45°	4652.9	4710.4	4751.0	3794.0	3760.2	3922.5	4943.8	4801.7	5877.0	6002.2
47.5°	2367.0	2417.8	3709.5	3489.7	3567.5	3486.3	4176.2	4179.5	4889.6	5305.6
50°	2147.3	2133.7	2137.1	2035.7	3293.6	2820.2	3019.7	3831.2	3915.8	4510.9
52.5°	2001.8	1998.5	1792.2	1592.7	2069.5	2482.0	2191.2	2772.8	2911.5	3821.1
55°	1481.1	1589.3	1413.5	1498.0	1295.1	1988.3	1978.2	2502.3	2549.7	3063.6
57.5°	13.5	16.9	40.6	1139.6	896.1	994.2	1366.1	1707.7	1792.2	2387.3
60°	3.4	6.8	16.9	33.8	581.6	612.1	913.0	987.4	1112.5	1423.6
62.5°	0.0	0.0	6.8	16.9	30.4	250.2	290.8	317.9	490.3	727.0
65°	0.0	0.0	3.4	10.1	16.9	40.6	71.0	148.8	213.0	263.8
67.5°	0.0	0.0	3.4	6.8	13.5	20.3	40.6	57.5	91.3	155.5
70°	0.0	0.0	3.4	6.8	10.1	16.9	27.1	40.6	54.1	77.8
72.5°	0.0	0.0	3.4	6.8	6.8	20.3	20.3	30.4	40.6	50.7
75°	0.0	0.0	3.4	3.4	6.8	13.5	20.3	23.7	27.1	40.6
77.5°	0.0	0.0	3.4	6.8	10.1	13.5	16.9	27.1	23.7	23.7
80°	0.0	0.0	3.4	10.1	10.1	16.9	20.3	27.1	16.9	16.9
82.5°	0.0	0.0	3.4	13.5	10.1	33.8	33.8	37.2	13.5	13.5
85°	0.0	0.0	10.1	6.8	20.3	33.8	30.4	20.3	16.9	10.1
87.5°	0.0	0.0	3.4	3.4	6.8	10.1	23.7	20.3	6.8	6.8
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°
9928.1	0°	9928.1	9928.1	9928.1	9928.1	9928.1	9928.1	9928.1	9928.1	9928.1
9867.2	2.5°	10002.5	9958.5	10049.8	10039.7	9995.7	9975.4	9951.8	9931.5	9782.7
9874.0	5°	10005.9	9938.2	10049.8	10029.5	10022.8	9989.0	9968.7	9999.1	9863.8
9901.0	7.5°	10005.9	9938.2	10060.0	10066.7	10056.6	10029.5	10026.1	10046.4	9934.8
9948.4	10°	10073.5	10046.4	10147.9	10158.0	10144.5	10137.7	10120.8	10107.3	9989.0
10110.7	12.5°	10215.5	10161.4	10276.4	10306.8	10296.7	10313.6	10273.0	10293.3	10171.6
10276.4	15°	10388.0	10391.3	10479.3	10546.9	10540.1	10594.2	10533.4	10587.5	10499.6
10465.7	17.5°	10651.7	10688.9	10814.0	10915.5	10952.7	10993.3	10952.7	10969.6	10844.5
10256.1	20°	10374.4	10513.1	11115.0	11301.0	11378.7	11415.9	11348.3	11368.6	11243.5
9999.1	22.5°	10124.2	10303.4	10837.7	11419.3	11659.4	11733.8	11710.1	11706.8	11659.4
9491.9	25°	9755.6	10117.4	10357.5	10973.0	11727.0	11862.3	11875.8	11872.4	11801.4
9180.8	27.5°	9302.5	9383.7	10005.9	10381.2	11253.6	11767.6	11747.3	11649.3	11554.6
8534.9	30°	8724.3	9092.9	9373.5	9972.0	10641.6	11476.8	11476.8	11402.4	11304.4
8305.0	32.5°	8430.1	8906.9	9167.2	9383.7	9955.1	11152.2	11287.4	11209.7	11131.9
8125.7	35°	8274.5	8345.5	8954.2	9150.3	9633.9	10526.6	11074.4	10996.6	10939.2
7649.0	37.5°	7933.0	8098.7	8382.7	8906.9	9055.7	10016.0	10790.4	10749.8	10682.2
7030.1	40°	7172.2	7615.1	8051.4	8548.4	8704.0	9360.0	10445.5	10462.4	10371.1
6370.7	42.5°	6722.4	7023.4	7706.4	8041.2	8460.5	8937.3	10110.7	10137.7	10073.5
6036.0	45°	6194.9	6529.7	7009.8	7618.5	8190.0	8355.7	9518.9	9803.0	9748.9
5369.8	47.5°	5711.4	5981.9	6570.3	7185.7	7818.0	7794.4	8839.2	9373.5	9299.1
4859.2	50°	5024.9	5498.3	5775.6	6340.3	7283.8	7348.0	8115.6	8869.7	8808.8
4128.8	52.5°	4237.0	4832.2	5363.1	5880.4	6742.7	6894.9	7442.7	8355.7	8315.1
3154.9	55°	3702.7	4135.6	4734.1	5150.0	6086.7	6492.5	6938.8	7865.4	7845.1
2593.6	57.5°	2634.2	3469.4	3963.1	4544.7	5038.4	5772.2	6103.6	6867.8	6678.5
1437.1	60°	1785.4	2177.7	2779.6	3405.2	3736.6	4470.3	4778.1	5390.1	5339.4
858.9	62.5°	943.4	1305.3	1734.7	2049.2	2289.3	3002.8	3131.3	3790.7	3773.8
344.9	65°	415.9	551.2	940.1	1102.4	1349.2	1680.6	1792.2	2028.9	1971.4
169.1	67.5°	216.4	328.0	530.9	652.6	821.7	946.8	1038.1	1112.5	1159.9
111.6	70°	131.9	240.1	328.0	453.1	564.7	666.2	737.2	838.6	899.5
57.5	72.5°	98.1	152.2	226.6	348.3	409.2	527.5	598.5	672.9	727.0
47.3	75°	54.1	101.4	182.6	273.9	328.0	429.5	493.7	544.4	561.3
27.1	77.5°	33.8	77.8	152.2	213.0	257.0	348.3	331.4	378.7	419.3
20.3	80°	23.7	57.5	118.4	175.8	179.2	223.2	263.8	304.3	331.4
13.5	82.5°	16.9	47.3	87.9	135.3	118.4	172.5	206.3	236.7	172.5
10.1	85°	13.5	33.8	44.0	81.2	67.6	121.7	104.8	101.4	67.6
6.8	87.5°	10.1	16.9	30.4	37.2	27.1	27.1	33.8	40.6	33.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
9928.1  
9681.2  
9748.9  
9806.3  
9890.9  
10063.3  
10354.2  
10736.3  
11155.6  
11507.2  
*11693.2*  
11480.2  
11267.2  
11067.6  
10858.0  
10614.5  
10350.8  
10066.7  
9755.6  
9353.2  
8819.0  
8342.2  
7868.8  
6658.2  
5342.8  
3777.1  
1947.7  
1159.9  
902.9  
737.2  
551.2  
426.1  
334.8  
125.1  
67.6  
33.8  
0.0

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