

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: P636879

Luminaire Tested: **IFLD-L-SA8B-927-U-LAM-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P636879  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8B-927-U-LAM-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens and Visor  
Light Source: (128) 2700K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18990.7 lumens  
Efficiency: N/A  
Efficacy: 59.3 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G2

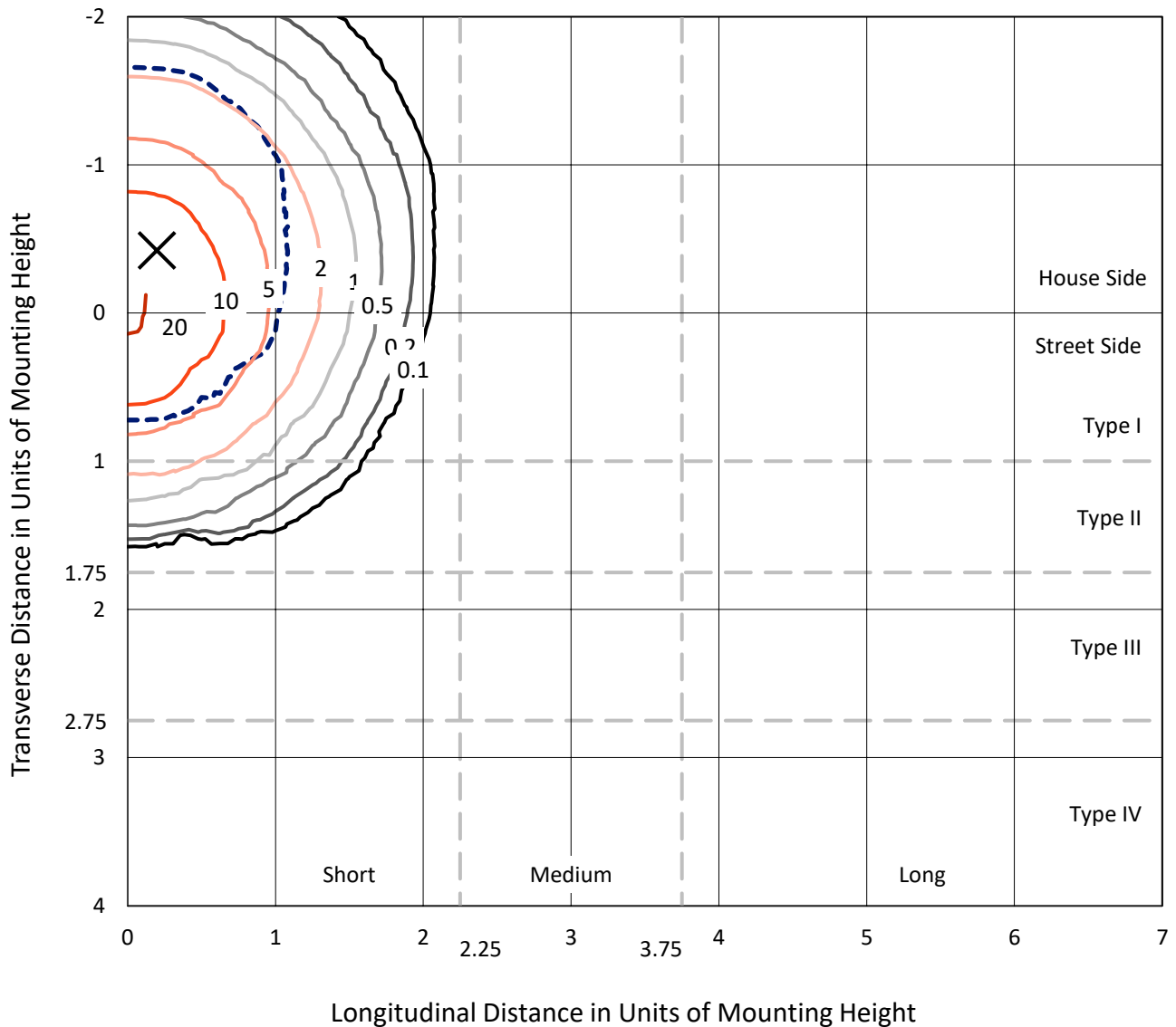
Input Watts (W): 320  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

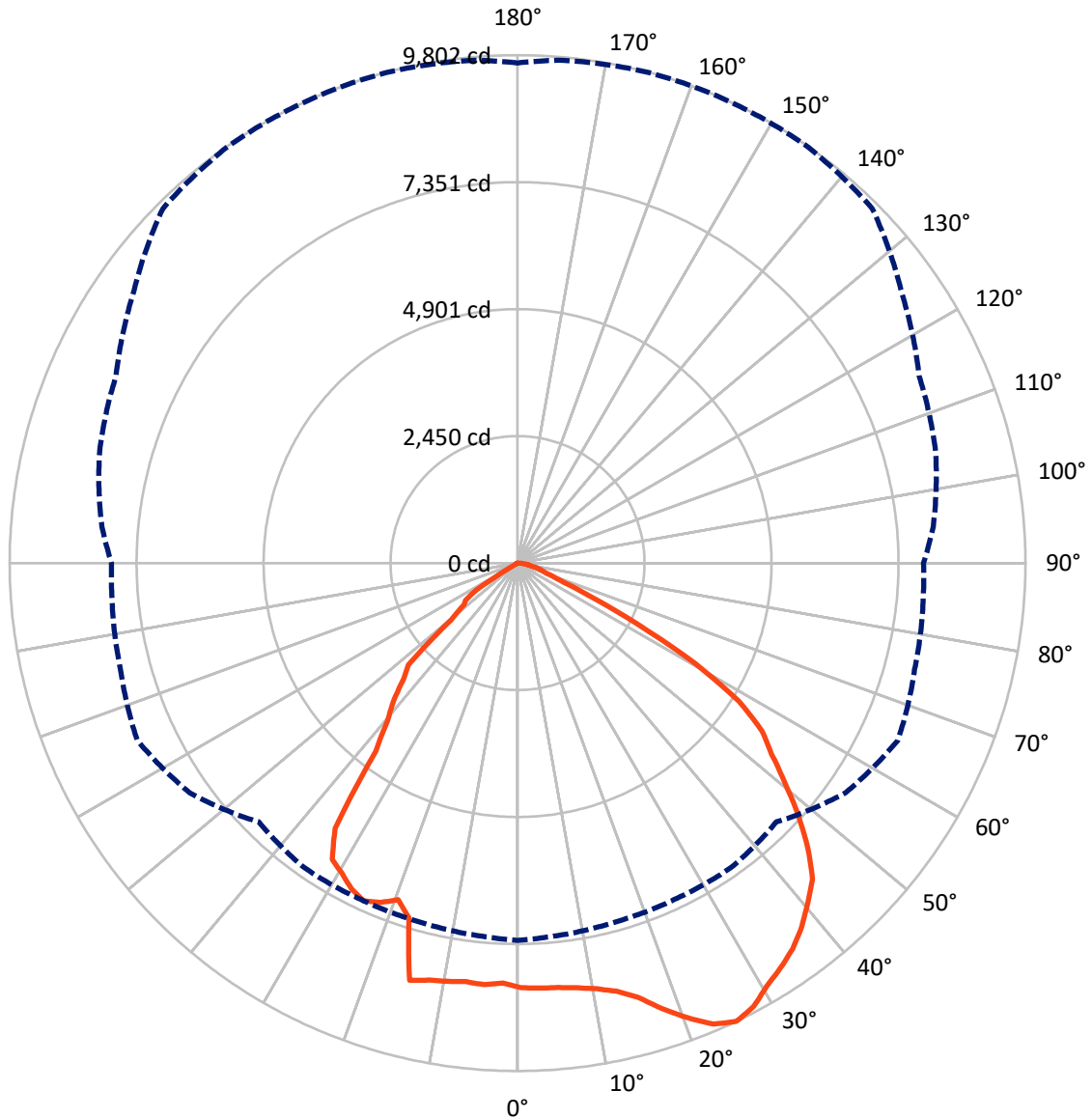
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 20.5 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	11757.2	0.0	11757.2
	% Fixture	61.9	0.0	61.9
<b>Street Side</b>	Lumens	7233.5	0.0	7233.5
	% Fixture	38.1	0.0	38.1
<b>Total</b>	Lumens	18990.7	0.0	18990.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	786.1	4.1
10°-20°	2400.4	12.6
20°-30°	3794.9	20.0
30°-40°	4286.6	22.6
40°-50°	4014.5	21.1
50°-60°	2767.7	14.6
60°-70°	743.6	3.9
70°-80°	155.0	0.8
80°-90°	41.9	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°	18990.7	100.0
0°-180°	18990.7	100.0



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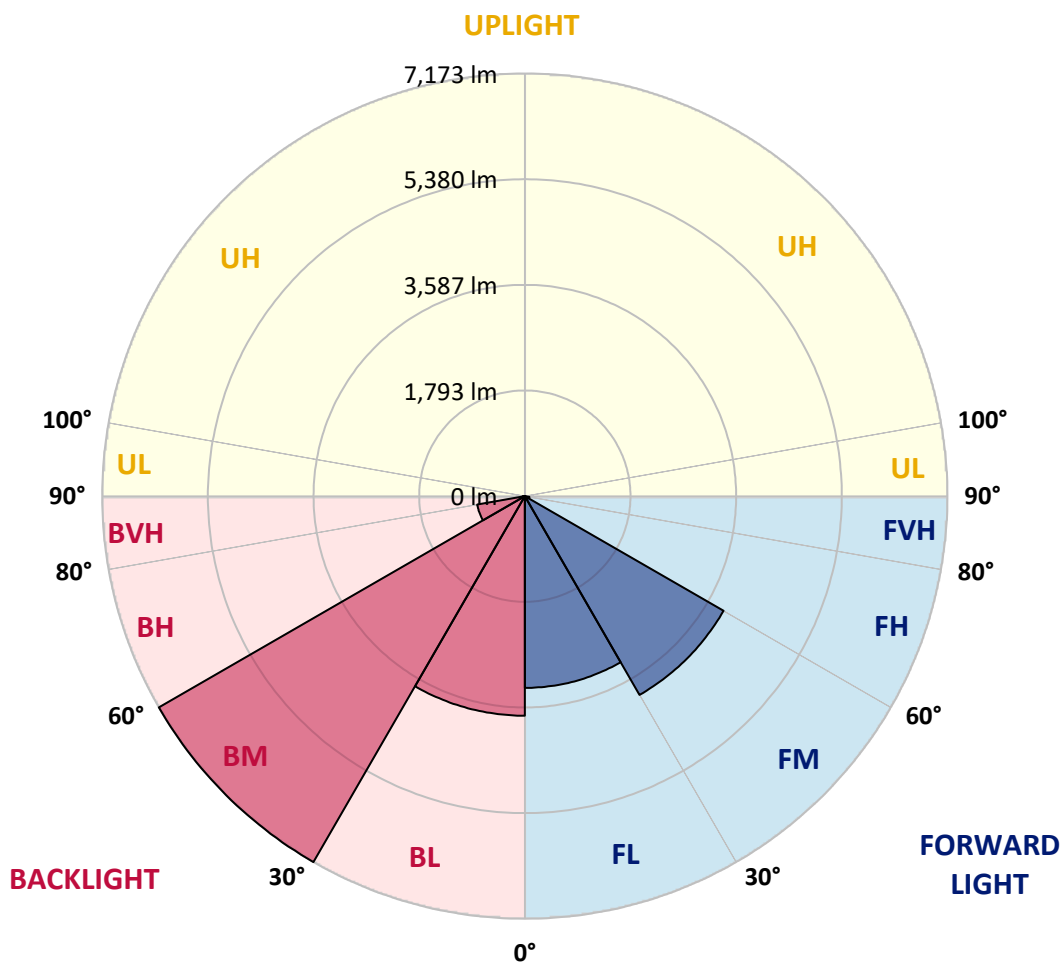
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3254.4	17.1			
FM (30°-60°)	3895.4	20.5			
FH (60°-80°)	78.1	0.4			G0/660
FVH (80°-90°)	5.6	0.0			G0/10
BL (0°-30°)	3727.0	19.6	B4/5000		
BM (30°-60°)	7173.5	37.8	B4/8500		
BH (60°-80°)	820.5	4.3	B2/1000		G2/1000
BVH (80°-90°)	36.3	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°	8194.2	8194.2	8194.2	8194.2	8194.2	8194.2	8194.2	8194.2	8194.2	8194.2
2.5°	8230.4	8177.4	8127.2	8110.4	8180.2	8255.6	8208.1	8210.9	8194.2	8224.9
5°	8291.8	8219.3	8185.8	8160.7	8171.8	8250.0	8183.0	8208.1	8180.2	8216.5
7.5°	8269.5	8219.3	8185.8	8138.3	8174.6	8266.7	8202.5	8205.3	8191.4	8224.9
10°	8255.6	8219.3	8177.4	8183.0	8224.9	8303.0	8252.8	8280.7	8261.1	8280.7
12.5°	8289.1	8250.0	8227.7	8227.7	8263.9	8353.2	8328.1	8353.2	8344.9	8361.6
15°	7973.7	8010.0	8222.1	8317.0	8389.5	8478.8	8467.7	8492.8	8498.4	8523.5
17.5°	6726.1	6689.9	6673.1	7161.5	8459.3	8735.6	8727.2	8724.4	8696.5	8677.0
20°	6890.8	6876.8	6857.3	6893.6	7038.7	8869.6	8925.4	8582.1	8481.6	8473.3
22.5°	7153.1	7130.8	7058.3	7061.0	7105.7	7711.3	8649.1	8336.5	8303.0	8283.5
25°	7281.5	7236.9	7178.3	7161.5	7175.5	7063.8	7725.3	8096.5	7931.8	7856.5
27.5°	7055.5	7058.3	7010.8	7055.5	7002.4	6500.1	6218.2	7627.6	7622.0	7588.5
30°	6885.2	6876.8	6821.0	6876.8	6511.2	5950.3	5830.2	7114.1	7055.5	7010.8
32.5°	6363.3	6368.9	6530.8	6748.5	6148.4	5704.7	5341.8	6354.9	6910.3	6885.2
35°	4552.0	4563.2	5138.1	6212.6	5598.6	5216.2	5188.3	5492.5	6681.5	6692.6
37.5°	4381.8	4381.8	4367.8	4543.6	5166.0	5018.1	5073.9	5043.2	6120.5	6148.4
40°	4259.0	4233.8	4214.3	3938.0	3591.9	4878.5	4917.6	4778.1	5785.6	5791.2
42.5°	4111.0	4083.1	4088.7	3578.0	3215.1	4532.5	4423.6	4236.6	5227.4	5233.0
45°	3840.3	3887.8	3921.3	3131.4	3103.5	3237.5	4080.3	3963.1	4850.6	4953.9
47.5°	1953.6	1995.5	3061.6	2880.2	2944.4	2877.4	3446.8	3449.6	4035.7	4379.0
50°	1772.2	1761.1	1763.9	1680.1	2718.4	2327.6	2492.3	3162.1	3231.9	3723.1
52.5°	1652.2	1649.4	1479.2	1314.5	1708.0	2048.5	1808.5	2288.6	2403.0	3153.7
55°	1222.4	1311.7	1166.6	1236.4	1068.9	1641.1	1632.7	2065.3	2104.4	2528.6
57.5°	11.2	14.0	33.5	940.5	739.6	820.5	1127.5	1409.4	1479.2	1970.4
60°	2.8	5.6	14.0	27.9	480.0	505.2	753.6	815.0	918.2	1175.0
62.5°	0.0	0.0	5.6	14.0	25.1	206.5	240.0	262.3	404.7	600.0
65°	0.0	0.0	2.8	8.4	14.0	33.5	58.6	122.8	175.8	217.7
67.5°	0.0	0.0	2.8	5.6	11.2	16.7	33.5	47.4	75.4	128.4
70°	0.0	0.0	2.8	5.6	8.4	14.0	22.3	33.5	44.7	64.2
72.5°	0.0	0.0	2.8	5.6	5.6	16.7	16.7	25.1	33.5	41.9
75°	0.0	0.0	2.8	2.8	5.6	11.2	16.7	19.5	22.3	33.5
77.5°	0.0	0.0	2.8	5.6	8.4	11.2	14.0	22.3	19.5	19.5
80°	0.0	0.0	2.8	8.4	8.4	14.0	16.7	22.3	14.0	14.0
82.5°	0.0	0.0	2.8	11.2	8.4	27.9	27.9	30.7	11.2	11.2
85°	0.0	0.0	8.4	5.6	16.7	27.9	25.1	16.7	14.0	8.4
87.5°	0.0	0.0	2.8	2.8	5.6	8.4	19.5	16.7	5.6	5.6
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°
8194.2	0°	8194.2	8194.2	8194.2	8194.2	8194.2	8194.2	8194.2	8194.2	8194.2
8143.9	2.5°	8255.6	8219.3	8294.6	8286.3	8250.0	8233.2	8213.7	8197.0	8074.2
8149.5	5°	8258.4	8202.5	8294.6	8277.9	8272.3	8244.4	8227.7	8252.8	8141.1
8171.8	7.5°	8258.4	8202.5	8303.0	8308.6	8300.2	8277.9	8275.1	8291.8	8199.7
8210.9	10°	8314.2	8291.8	8375.6	8383.9	8372.8	8367.2	8353.2	8342.1	8244.4
8344.9	12.5°	8431.4	8386.7	8481.6	8506.7	8498.4	8512.3	8478.8	8495.6	8395.1
8481.6	15°	8573.7	8576.5	8649.1	8704.9	8699.3	8744.0	8693.7	8738.4	8665.8
8637.9	17.5°	8791.4	8822.1	8925.4	9009.1	9039.8	9073.3	9039.8	9053.8	8950.5
8464.9	20°	8562.6	8677.0	9173.8	9327.3	9391.5	9422.2	9366.4	9383.1	9279.8
8252.8	22.5°	8356.0	8504.0	8944.9	9425.0	9623.1	9684.5	9665.0	9662.2	9623.1
7834.1	25°	8051.8	8350.5	8548.6	9056.6	9678.9	9790.6	9801.7	9798.9	9740.3
7577.4	27.5°	7677.8	7744.8	8258.4	8568.1	9288.2	9712.4	9695.7	9614.7	9536.6
7044.3	30°	7200.6	7504.8	7736.5	8230.4	8783.0	9472.4	9472.4	9411.0	9330.1
6854.5	32.5°	6957.8	7351.3	7566.2	7744.8	8216.5	9204.5	9316.1	9251.9	9187.7
6706.6	35°	6829.4	6888.0	7390.4	7552.2	7951.4	8688.2	9140.3	9076.1	9028.7
6313.1	37.5°	6547.5	6684.3	6918.7	7351.3	7474.1	8266.7	8905.8	8872.4	8816.5
5802.3	40°	5919.6	6285.2	6645.2	7055.5	7183.8	7725.3	8621.2	8635.1	8559.8
5258.1	42.5°	5548.4	5796.8	6360.5	6636.8	6982.9	7376.4	8344.9	8367.2	8314.2
4981.8	45°	5113.0	5389.3	5785.6	6288.0	6759.6	6896.4	7856.5	8090.9	8046.2
4432.0	47.5°	4713.9	4937.2	5422.8	5930.7	6452.6	6433.1	7295.5	7736.5	7675.1
4010.6	50°	4147.3	4538.0	4766.9	5233.0	6011.7	6064.7	6698.2	7320.6	7270.4
3407.7	52.5°	3497.0	3988.2	4426.4	4853.4	5565.1	5690.7	6142.8	6896.4	6862.9
2603.9	55°	3056.1	3413.3	3907.3	4250.6	5023.7	5358.6	5727.0	6491.7	6475.0
2140.6	57.5°	2174.1	2863.5	3271.0	3751.0	4158.5	4764.1	5037.6	5668.4	5512.1
1186.1	60°	1473.6	1797.4	2294.1	2810.5	3084.0	3689.6	3943.6	4448.7	4406.9
708.9	62.5°	778.7	1077.3	1431.7	1691.3	1889.5	2478.3	2584.4	3128.6	3114.7
284.7	65°	343.3	454.9	775.9	909.8	1113.6	1387.1	1479.2	1674.6	1627.1
139.5	67.5°	178.6	270.7	438.2	538.6	678.2	781.5	856.8	918.2	957.3
92.1	70°	108.8	198.2	270.7	374.0	466.1	549.8	608.4	692.2	742.4
47.4	72.5°	80.9	125.6	187.0	287.5	337.7	435.4	494.0	555.4	600.0
39.1	75°	44.7	83.7	150.7	226.1	270.7	354.4	407.5	449.3	463.3
22.3	77.5°	27.9	64.2	125.6	175.8	212.1	287.5	273.5	312.6	346.1
16.7	80°	19.5	47.4	97.7	145.1	147.9	184.2	217.7	251.2	273.5
11.2	82.5°	14.0	39.1	72.6	111.6	97.7	142.3	170.2	195.4	142.3
8.4	85°	11.2	27.9	36.3	67.0	55.8	100.5	86.5	83.7	55.8
5.6	87.5°	8.4	14.0	25.1	30.7	22.3	22.3	27.9	33.5	27.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
8194.2  
7990.4  
8046.2  
8093.7  
8163.5  
8305.8  
8545.8  
8861.2  
9207.3  
9497.5  
9651.0  
9475.2  
9299.4  
9134.7  
8961.7  
8760.7  
8543.0  
8308.6  
8051.8  
7719.7  
7278.7  
6885.2  
6494.5  
5495.3  
4409.7  
3117.5  
1607.6  
957.3  
745.2  
608.4  
454.9  
351.7  
276.3  
103.3  
55.8  
27.9  
0.0

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