

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: P636865

Luminaire Tested: **IFLD-S-SA6C-927-U-LAM-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P636865  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6C-927-U-LAM-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens and Visor  
Light Source: (96) 2700K CCT, 90 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19388.8 lumens  
Efficiency: N/A  
Efficacy: 60.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G2

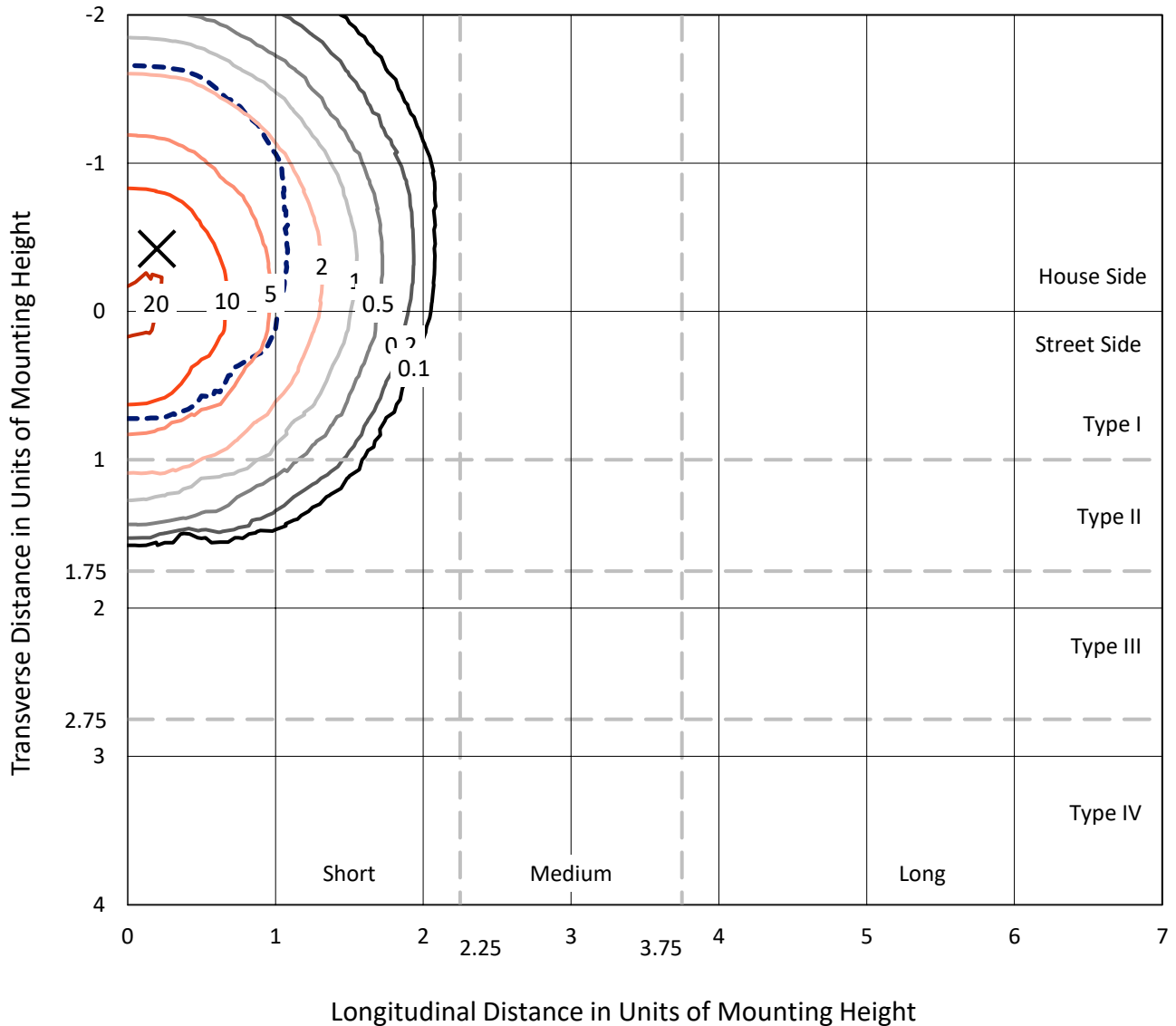
Input Watts (W): 321.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

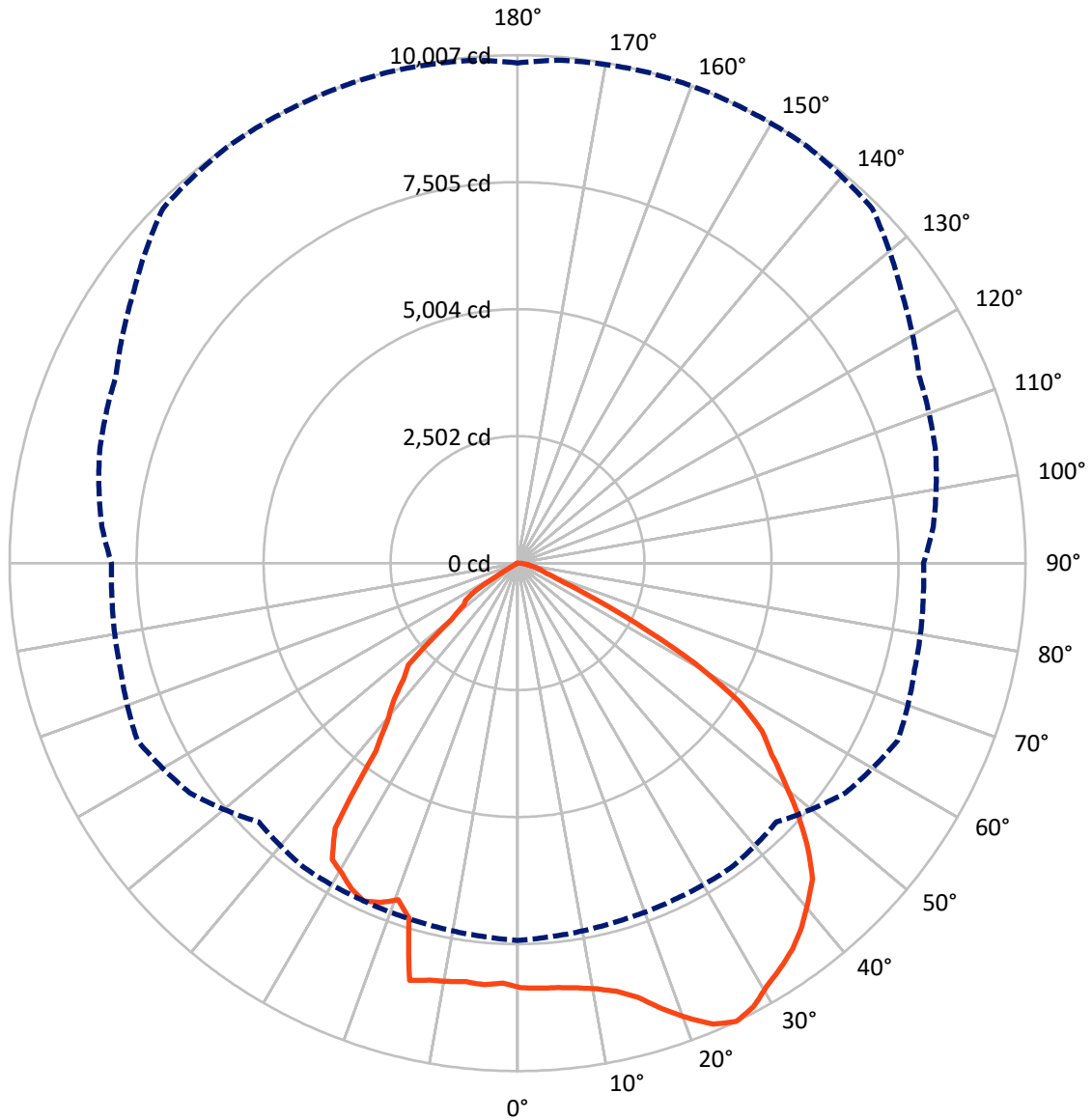
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 20.9 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	12003.7	0.0	12003.7
	% Fixture	61.9	0.0	61.9
<b>Street Side</b>	Lumens	7385.1	0.0	7385.1
	% Fixture	38.1	0.0	38.1
<b>Total</b>	Lumens	19388.8	0.0	19388.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	802.6	4.1
10°-20°	2450.7	12.6
20°-30°	3874.4	20.0
30°-40°	4376.5	22.6
40°-50°	4098.7	21.1
50°-60°	2825.7	14.6
60°-70°	759.2	3.9
70°-80°	158.2	0.8
80°-90°	42.8	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°	19388.8	100.0
0°-180°	19388.8	100.0



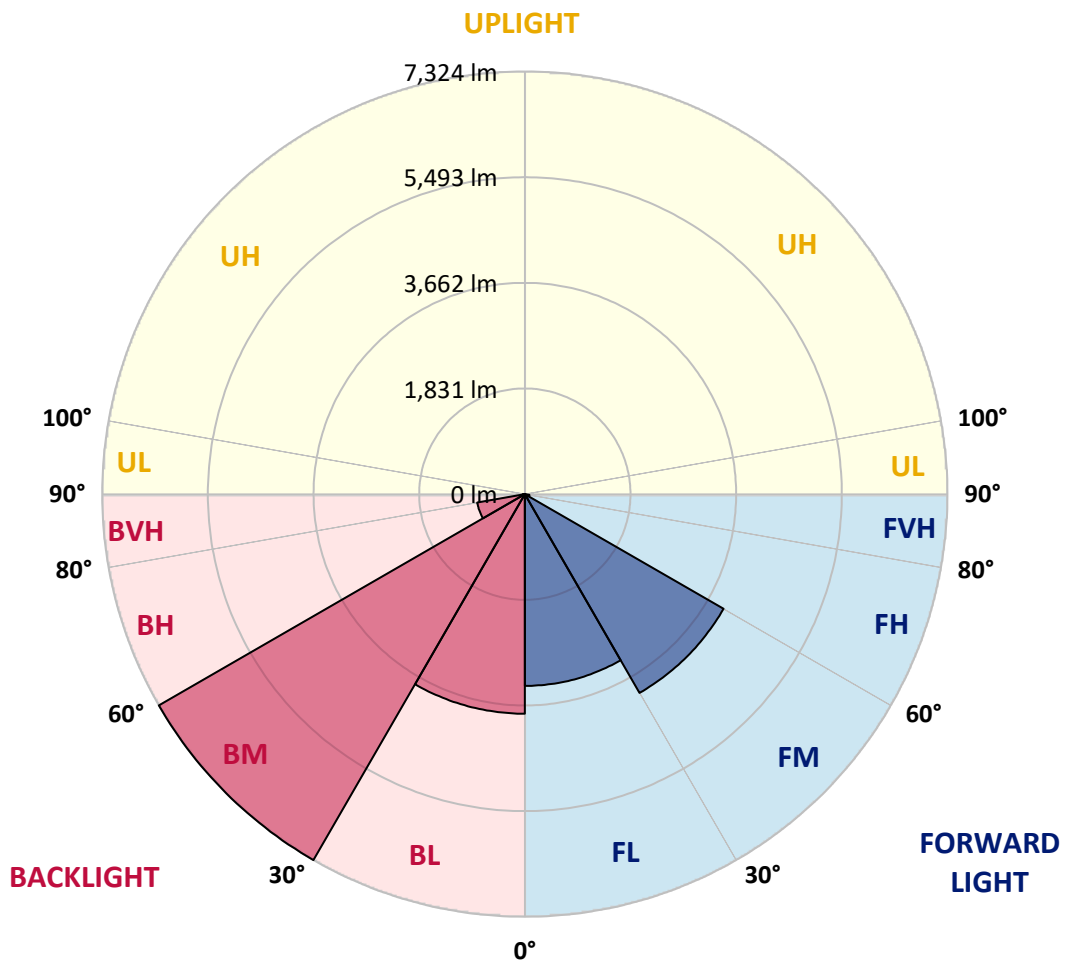
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3322.6	17.1			
FM (30°-60°)	3977.1	20.5			
FH (60°-80°)	79.7	0.4			G0/660
FVH (80°-90°)	5.7	0.0			G0/10
BL (0°-30°)	3805.1	19.6	B4/5000		
BM (30°-60°)	7323.8	37.8	B4/8500		
BH (60°-80°)	837.7	4.3	B2/1000		G2/1000
BVH (80°-90°)	37.1	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G2**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8365.9	8365.9	8365.9	8365.9	8365.9	8365.9	8365.9	8365.9	8365.9	8365.9
2.5°	8403.0	8348.8	8297.5	8280.4	8351.7	8428.6	8380.2	8383.0	8365.9	8397.3
5°	8465.7	8391.6	8357.4	8331.7	8343.1	8422.9	8354.5	8380.2	8351.7	8388.7
7.5°	8442.9	8391.6	8357.4	8308.9	8346.0	8440.0	8374.5	8377.3	8363.1	8397.3
10°	8428.6	8391.6	8348.8	8354.5	8397.3	8477.1	8425.8	8454.3	8434.3	8454.3
12.5°	8462.8	8422.9	8400.1	8400.1	8437.2	8528.3	8502.7	8528.3	8519.8	8536.9
15°	8140.8	8177.9	8394.4	8491.3	8565.4	8656.6	8645.2	8670.8	8676.5	8702.2
17.5°	6867.1	6830.1	6813.0	7311.6	8636.6	8918.7	8910.2	8907.3	8878.8	8858.9
20°	7035.2	7021.0	7001.1	7038.1	7186.3	9055.5	9112.5	8762.0	8659.4	8650.9
22.5°	7303.1	7280.3	7206.2	7209.1	7254.7	7873.0	8830.4	8511.3	8477.1	8457.1
25°	7434.2	7388.6	7328.7	7311.6	7325.9	7211.9	7887.2	8266.2	8098.1	8021.1
27.5°	7203.4	7206.2	7157.8	7203.4	7149.2	6636.3	6348.5	7787.5	7781.8	7747.6
30°	7029.5	7021.0	6964.0	7021.0	6647.7	6075.0	5952.5	7263.2	7203.4	7157.8
32.5°	6496.7	6502.4	6667.7	6889.9	6277.3	5824.2	5453.8	6488.2	7055.2	7029.5
35°	4647.4	4658.8	5245.8	6342.8	5716.0	5325.6	5297.1	5607.7	6821.5	6832.9
37.5°	4473.6	4473.6	4459.4	4638.9	5274.3	5123.3	5180.3	5148.9	6248.8	6277.3
40°	4348.2	4322.6	4302.6	4020.5	3667.2	4980.8	5020.7	4878.2	5906.9	5912.6
42.5°	4197.2	4168.7	4174.4	3653.0	3282.5	4627.5	4516.3	4325.4	5337.0	5342.7
45°	3920.8	3969.3	4003.5	3197.1	3168.6	3305.3	4165.9	4046.2	4952.3	5057.7
47.5°	1994.6	2037.3	3125.8	2940.6	3006.2	2937.8	3519.0	3521.9	4120.3	4470.8
50°	1809.4	1798.0	1800.8	1715.4	2775.3	2376.4	2544.5	3228.4	3299.6	3801.1
52.5°	1686.9	1684.0	1510.2	1342.1	1743.9	2091.5	1846.4	2336.5	2453.4	3219.9
55°	1248.1	1339.2	1191.1	1262.3	1091.3	1675.5	1666.9	2108.6	2148.5	2581.6
57.5°	11.4	14.2	34.2	960.3	755.1	837.7	1151.2	1439.0	1510.2	2011.7
60°	2.8	5.7	14.2	28.5	490.1	515.7	769.3	832.0	937.5	1199.6
62.5°	0.0	0.0	5.7	14.2	25.6	210.9	245.1	267.8	413.2	612.6
65°	0.0	0.0	2.8	8.5	14.2	34.2	59.8	125.4	179.5	222.3
67.5°	0.0	0.0	2.8	5.7	11.4	17.1	34.2	48.4	76.9	131.1
70°	0.0	0.0	2.8	5.7	8.5	14.2	22.8	34.2	45.6	65.5
72.5°	0.0	0.0	2.8	5.7	5.7	17.1	17.1	25.6	34.2	42.7
75°	0.0	0.0	2.8	2.8	5.7	11.4	17.1	19.9	22.8	34.2
77.5°	0.0	0.0	2.8	5.7	8.5	11.4	14.2	22.8	19.9	19.9
80°	0.0	0.0	2.8	8.5	8.5	14.2	17.1	22.8	14.2	14.2
82.5°	0.0	0.0	2.8	11.4	8.5	28.5	28.5	31.3	11.4	11.4
85°	0.0	0.0	8.5	5.7	17.1	28.5	25.6	17.1	14.2	8.5
87.5°	0.0	0.0	2.8	2.8	5.7	8.5	19.9	17.1	5.7	5.7
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°
8365.9	0°	8365.9	8365.9	8365.9	8365.9	8365.9	8365.9	8365.9	8365.9	8365.9
8314.6	2.5°	8428.6	8391.6	8468.5	8460.0	8422.9	8405.8	8385.9	8368.8	8243.4
8320.3	5°	8431.5	8374.5	8468.5	8451.4	8445.7	8417.2	8400.1	8425.8	8311.8
8343.1	7.5°	8431.5	8374.5	8477.1	8482.8	8474.2	8451.4	8448.6	8465.7	8371.6
8383.0	10°	8488.5	8465.7	8551.1	8559.7	8548.3	8542.6	8528.3	8517.0	8417.2
8519.8	12.5°	8608.1	8562.5	8659.4	8685.1	8676.5	8690.8	8656.6	8673.7	8571.1
8659.4	15°	8753.5	8756.3	8830.4	8887.4	8881.7	8927.3	8876.0	8921.6	8847.5
8819.0	17.5°	8975.7	9007.1	9112.5	9198.0	9229.3	9263.5	9229.3	9243.6	9138.1
8642.3	20°	8742.1	8858.9	9366.1	9522.8	9588.3	9619.7	9562.7	9579.8	9474.4
8425.8	22.5°	8531.2	8682.2	9132.4	9622.5	9824.8	9887.5	9867.6	9864.7	9824.8
7998.4	25°	8220.6	8525.5	8727.8	9246.4	9881.8	9995.8	10007.2	10004.4	9944.5
7736.2	27.5°	7838.8	7907.2	8431.5	8747.8	9482.9	9916.0	9898.9	9816.3	9736.5
7192.0	30°	7351.5	7662.1	7898.6	8403.0	8967.2	9671.0	9671.0	9608.3	9525.6
6998.2	32.5°	7103.6	7505.4	7724.8	7907.2	8388.7	9397.4	9511.4	9445.9	9380.3
6847.2	35°	6972.6	7032.4	7545.3	7710.6	8118.0	8870.3	9331.9	9266.4	9217.9
6445.4	37.5°	6684.8	6824.4	7063.7	7505.4	7630.8	8440.0	9092.5	9058.3	9001.4
5924.0	40°	6043.6	6416.9	6784.5	7203.4	7334.4	7887.2	8801.9	8816.1	8739.2
5368.3	42.5°	5664.7	5918.3	6493.9	6775.9	7129.3	7531.0	8519.8	8542.6	8488.5
5086.2	45°	5220.2	5502.3	5906.9	6419.8	6901.3	7040.9	8021.1	8260.5	8214.9
4524.9	47.5°	4812.7	5040.6	5536.4	6055.0	6587.9	6567.9	7448.4	7898.6	7835.9
4094.6	50°	4234.3	4633.2	4866.8	5342.7	6137.7	6191.8	6838.6	7474.1	7422.8
3479.2	52.5°	3570.3	4071.8	4519.2	4955.2	5681.8	5810.0	6271.6	7040.9	7006.8
2658.5	55°	3120.1	3484.9	3989.2	4339.7	5129.0	5470.9	5847.0	6627.8	6610.7
2185.5	57.5°	2219.7	2923.5	3339.5	3829.6	4245.7	4864.0	5143.2	5787.2	5627.6
1211.0	60°	1504.5	1835.0	2342.2	2869.4	3148.6	3766.9	4026.2	4542.0	4499.3
723.8	62.5°	795.0	1099.9	1461.8	1726.8	1929.1	2530.3	2638.6	3194.2	3180.0
290.6	65°	350.5	464.5	792.1	928.9	1136.9	1416.2	1510.2	1709.7	1661.2
142.5	67.5°	182.4	276.4	447.4	549.9	692.4	797.8	874.8	937.5	977.4
94.0	70°	111.1	202.3	276.4	381.8	475.9	561.3	621.2	706.7	757.9
48.4	72.5°	82.6	128.2	190.9	293.5	344.8	444.5	504.3	567.0	612.6
39.9	75°	45.6	85.5	153.9	230.8	276.4	361.9	416.0	458.8	473.0
22.8	77.5°	28.5	65.5	128.2	179.5	216.6	293.5	279.2	319.1	353.3
17.1	80°	19.9	48.4	99.7	148.2	151.0	188.1	222.3	256.4	279.2
11.4	82.5°	14.2	39.9	74.1	114.0	99.7	145.3	173.8	199.5	145.3
8.5	85°	11.4	28.5	37.0	68.4	57.0	102.6	88.3	85.5	57.0
5.7	87.5°	8.5	14.2	25.6	31.3	22.8	22.8	28.5	34.2	28.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
8365.9
8157.9
8214.9
8263.4
8334.6
8479.9
8725.0
9046.9
9400.3
9696.6
9853.3
9673.8
9494.3
9326.2
9149.5
8944.4
8722.1
8482.8
8220.6
7881.5
7431.3
7029.5
6630.6
5610.5
4502.1
3182.8
1641.3
977.4
760.8
621.2
464.5
359.0
282.1
105.4
57.0
28.5
0.0

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