

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: P638342

Luminaire Tested: **IFLD-S-SA6A-727-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638342
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-727-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (96) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16636.1 lumens
Efficiency: N/A
Efficacy: 87.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

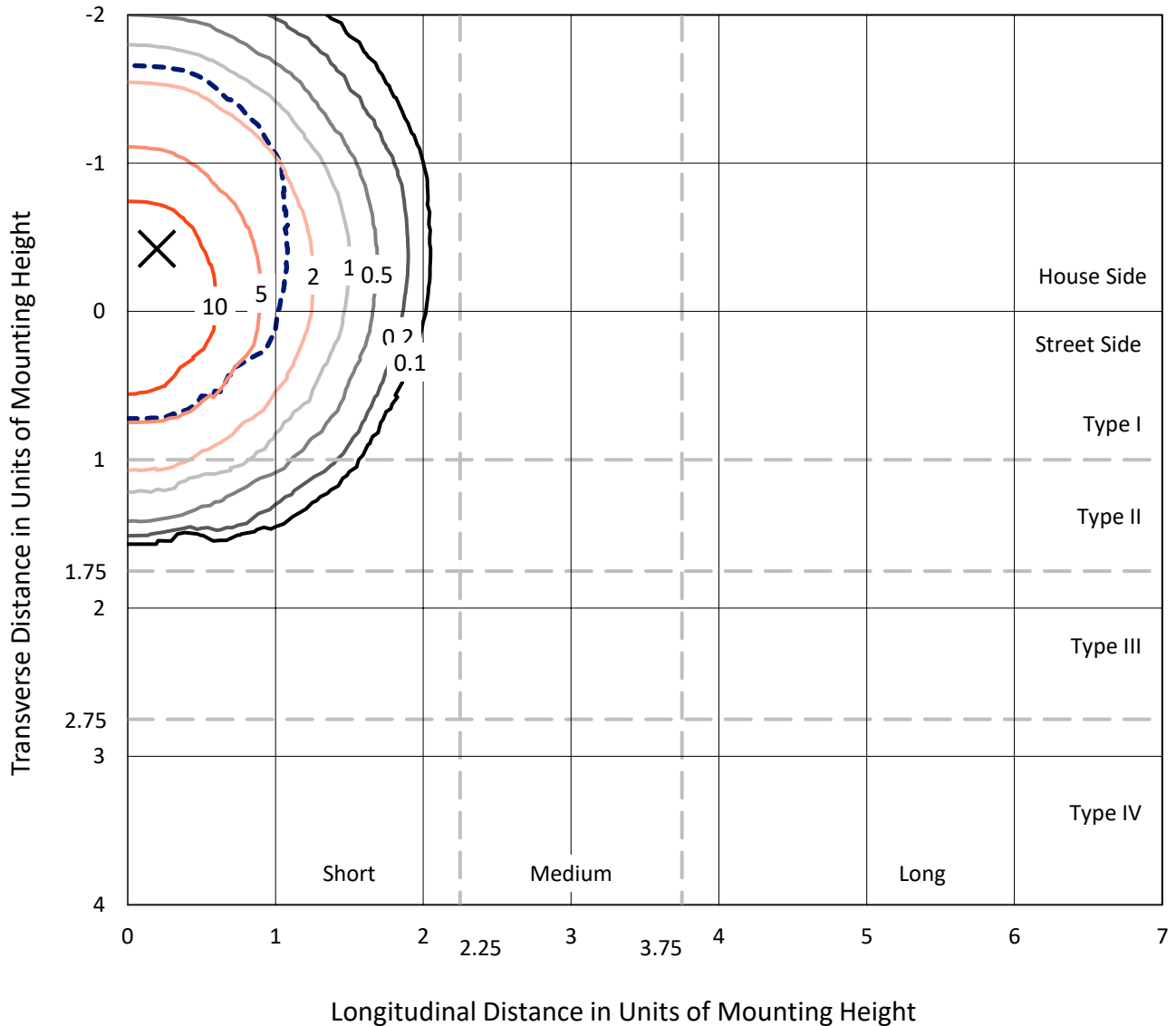
Input Watts (W): 189.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

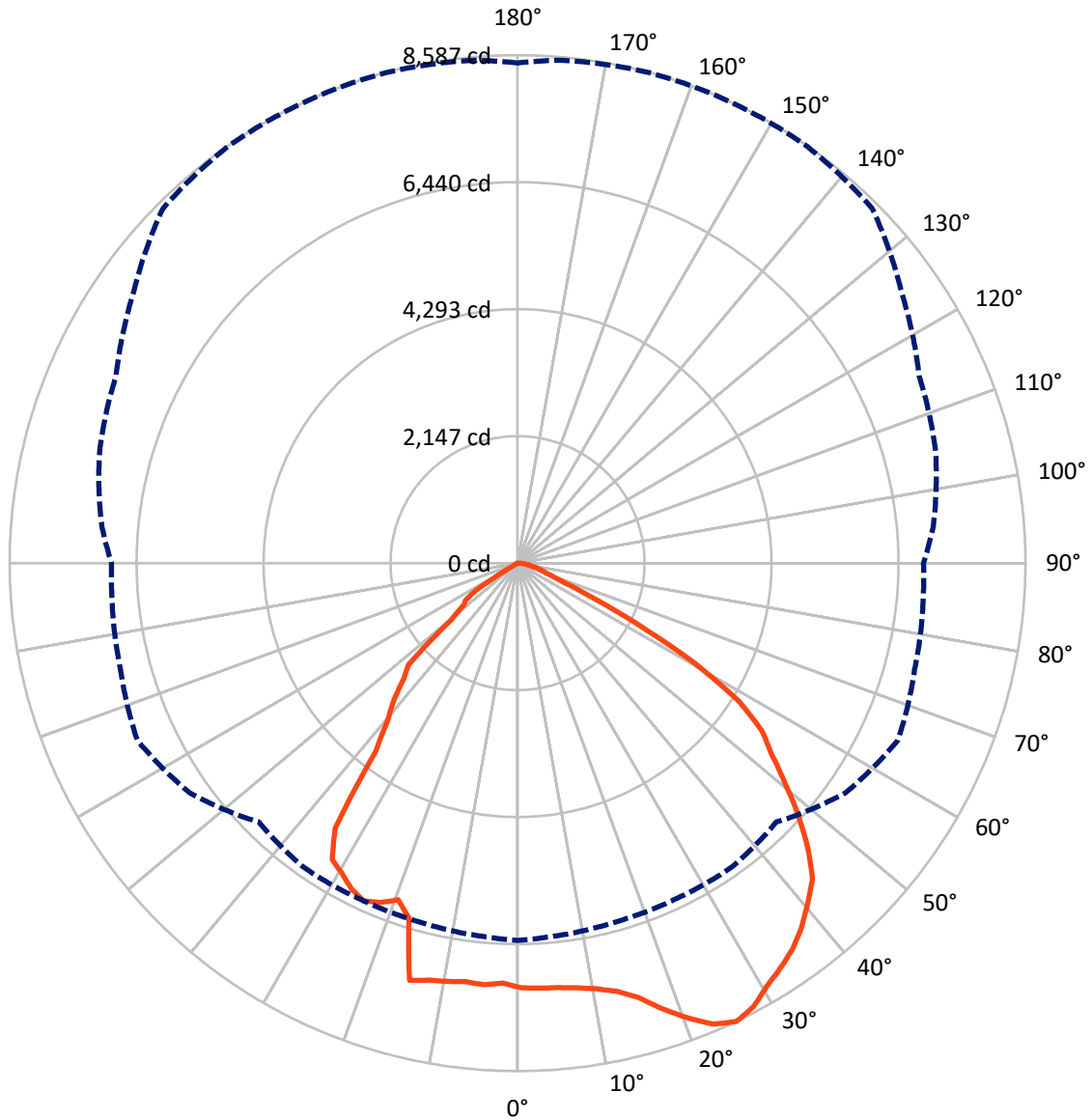
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 17.9 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
House Side	Lumens	10299.5	0.0	10299.5
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	6336.7	0.0	6336.7
	% Fixture	38.1	0.0	38.1
Total	Lumens	16636.1	0.0	16636.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	688.7	4.1
10°-20°	2102.8	12.6
20°-30°	3324.4	20.0
30°-40°	3755.2	22.6
40°-50°	3516.8	21.1
50°-60°	2424.6	14.6
60°-70°	651.4	3.9
70°-80°	135.7	0.8
80°-90°	36.7	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°	16636.1	100.0
0°-180°	16636.1	100.0



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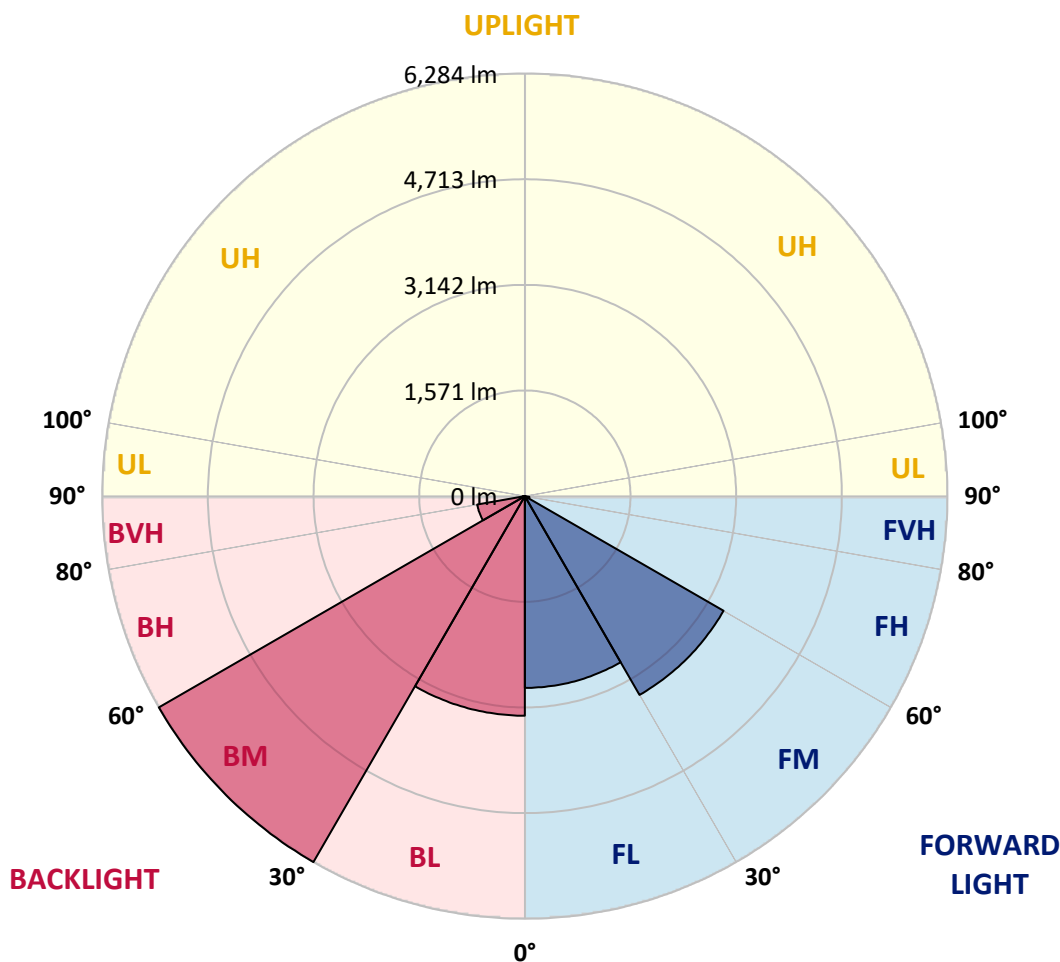
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2850.9	17.1			
FM (30°-60°)	3412.5	20.5			
FH (60°-80°)	68.4	0.4			G0/660
FVH (80°-90°)	4.9	0.0			G0/10
BL (0°-30°)	3264.9	19.6	B4/5000		
BM (30°-60°)	6284.1	37.8	B4/8500		
BH (60°-80°)	718.8	4.3	B2/1000		G2/1000
BVH (80°-90°)	31.8	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7178.2	7178.2	7178.2	7178.2	7178.2	7178.2	7178.2	7178.2	7178.2	7178.2
2.5°	7210.0	7163.5	7119.5	7104.9	7166.0	7232.0	7190.4	7192.9	7178.2	7205.1
5°	7263.8	7200.2	7170.9	7148.9	7158.6	7227.1	7168.4	7190.4	7166.0	7197.8
7.5°	7244.2	7200.2	7170.9	7129.3	7161.1	7241.8	7185.5	7188.0	7175.8	7205.1
10°	7232.0	7200.2	7163.5	7168.4	7205.1	7273.6	7229.5	7254.0	7236.9	7254.0
12.5°	7261.3	7227.1	7207.5	7207.5	7239.3	7317.6	7295.6	7317.6	7310.2	7324.9
15°	6985.1	7016.8	7202.7	7285.8	7349.3	7427.6	7417.8	7439.8	7444.7	7466.7
17.5°	5892.2	5860.4	5845.7	6273.6	7410.5	7652.5	7645.2	7642.7	7618.3	7601.2
20°	6036.4	6024.2	6007.1	6038.9	6166.0	7769.9	7818.8	7518.0	7430.0	7422.7
22.5°	6266.3	6246.7	6183.1	6185.6	6224.7	6755.2	7576.7	7302.9	7273.6	7256.4
25°	6378.7	6339.6	6288.3	6273.6	6285.8	6188.0	6767.5	7092.6	6948.4	6882.4
27.5°	6180.7	6183.1	6141.6	6180.7	6134.2	5694.2	5447.2	6681.9	6677.0	6647.7
30°	6031.6	6024.2	5975.3	6024.2	5703.9	5212.5	5107.4	6232.0	6180.7	6141.6
32.5°	5574.4	5579.2	5721.1	5911.8	5386.1	4997.4	4679.5	5567.0	6053.6	6031.6
35°	3987.6	3997.4	4501.0	5442.3	4904.5	4569.5	4545.1	4811.5	5853.1	5862.9
37.5°	3838.5	3838.5	3826.3	3980.3	4525.5	4395.9	4444.8	4417.9	5361.7	5386.1
40°	3730.9	3708.9	3691.8	3449.7	3146.6	4273.7	4307.9	4185.7	5068.3	5073.2
42.5°	3601.3	3576.9	3581.8	3134.4	2816.5	3970.5	3875.2	3711.3	4579.3	4584.2
45°	3364.2	3405.7	3435.1	2743.2	2718.7	2836.1	3574.4	3471.7	4249.2	4339.7
47.5°	1711.4	1748.1	2682.0	2523.1	2579.4	2520.7	3019.4	3021.9	3535.3	3836.0
50°	1552.5	1542.7	1545.2	1471.8	2381.3	2039.0	2183.3	2770.1	2831.2	3261.5
52.5°	1447.4	1444.9	1295.8	1151.5	1496.3	1794.6	1584.3	2004.8	2105.1	2762.7
55°	1070.9	1149.1	1022.0	1083.1	936.4	1437.6	1430.3	1809.2	1843.4	2215.1
57.5°	9.8	12.2	29.3	823.9	647.9	718.8	987.7	1234.7	1295.8	1726.1
60°	2.4	4.9	12.2	24.4	420.5	442.5	660.1	713.9	804.4	1029.3
62.5°	0.0	0.0	4.9	12.2	22.0	180.9	210.3	229.8	354.5	525.7
65°	0.0	0.0	2.4	7.3	12.2	29.3	51.3	107.6	154.0	190.7
67.5°	0.0	0.0	2.4	4.9	9.8	14.7	29.3	41.6	66.0	112.5
70°	0.0	0.0	2.4	4.9	7.3	12.2	19.6	29.3	39.1	56.2
72.5°	0.0	0.0	2.4	4.9	4.9	14.7	14.7	22.0	29.3	36.7
75°	0.0	0.0	2.4	2.4	4.9	9.8	14.7	17.1	19.6	29.3
77.5°	0.0	0.0	2.4	4.9	7.3	9.8	12.2	19.6	17.1	17.1
80°	0.0	0.0	2.4	7.3	7.3	12.2	14.7	19.6	12.2	12.2
82.5°	0.0	0.0	2.4	9.8	7.3	24.4	24.4	26.9	9.8	9.8
85°	0.0	0.0	7.3	4.9	14.7	24.4	22.0	14.7	12.2	7.3
87.5°	0.0	0.0	2.4	2.4	4.9	7.3	17.1	14.7	4.9	4.9
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°
7178.2	0°	7178.2	7178.2	7178.2	7178.2	7178.2	7178.2	7178.2	7178.2	7178.2
7134.2	2.5°	7232.0	7200.2	7266.2	7258.9	7227.1	7212.4	7195.3	7180.7	7073.1
7139.1	5°	7234.4	7185.5	7266.2	7251.6	7246.7	7222.2	7207.5	7229.5	7131.8
7158.6	7.5°	7234.4	7185.5	7273.6	7278.4	7271.1	7251.6	7249.1	7263.8	7183.1
7192.9	10°	7283.3	7263.8	7337.1	7344.5	7334.7	7329.8	7317.6	7307.8	7222.2
7310.2	12.5°	7386.0	7346.9	7430.0	7452.0	7444.7	7456.9	7427.6	7442.3	7354.2
7430.0	15°	7510.7	7513.2	7576.7	7625.6	7620.7	7659.9	7615.8	7655.0	7591.4
7566.9	17.5°	7701.4	7728.3	7818.8	7892.1	7919.0	7948.3	7919.0	7931.2	7840.8
7415.4	20°	7500.9	7601.2	8036.4	8170.8	8227.1	8254.0	8205.1	8219.7	8129.3
7229.5	22.5°	7320.0	7449.6	7835.9	8256.4	8430.0	8483.8	8466.7	8464.2	8430.0
6862.8	25°	7053.5	7315.1	7488.7	7933.7	8478.9	8576.7	8586.5	8584.0	8532.7
6637.9	27.5°	6725.9	6784.6	7234.4	7505.8	8136.6	8508.2	8493.6	8422.7	8354.2
6170.9	30°	6307.8	6574.3	6777.2	7210.0	7694.1	8298.0	8298.0	8244.2	8173.3
6004.7	32.5°	6095.1	6439.8	6628.1	6784.6	7197.8	8063.3	8161.1	8104.8	8048.6
5875.1	35°	5982.7	6034.0	6474.1	6615.9	6965.5	7611.0	8007.0	7950.8	7909.2
5530.3	37.5°	5735.7	5855.5	6060.9	6439.8	6547.4	7241.8	7801.7	7772.3	7723.4
5082.9	40°	5185.6	5505.9	5821.3	6180.7	6293.2	6767.5	7552.3	7564.5	7498.5
4606.2	42.5°	4860.4	5078.0	5571.9	5814.0	6117.1	6461.9	7310.2	7329.8	7283.3
4364.1	45°	4479.0	4721.1	5068.3	5508.3	5921.5	6041.3	6882.4	7087.7	7048.6
3882.5	47.5°	4129.4	4325.0	4750.4	5195.4	5652.6	5635.5	6391.0	6777.2	6723.5
3513.3	50°	3633.1	3975.4	4175.9	4584.2	5266.3	5312.8	5867.7	6413.0	6368.9
2985.2	52.5°	3063.5	3493.8	3877.6	4251.7	4875.1	4985.1	5381.2	6041.3	6012.0
2281.1	55°	2677.2	2990.1	3422.9	3723.6	4400.8	4694.2	5016.9	5686.8	5672.2
1875.2	57.5°	1904.6	2508.5	2865.4	3285.9	3642.9	4173.4	4413.0	4965.6	4828.7
1039.1	60°	1290.9	1574.5	2009.7	2462.0	2701.6	3232.1	3454.6	3897.2	3860.5
621.0	62.5°	682.1	943.7	1254.2	1481.6	1655.2	2171.1	2264.0	2740.7	2728.5
249.4	65°	300.7	398.5	679.7	797.0	975.5	1215.1	1295.8	1466.9	1425.4
122.2	67.5°	156.5	237.2	383.8	471.9	594.1	684.6	750.6	804.4	838.6
80.7	70°	95.4	173.6	237.2	327.6	408.3	481.6	533.0	606.3	650.3
41.6	72.5°	70.9	110.0	163.8	251.8	295.8	381.4	432.7	486.5	525.7
34.2	75°	39.1	73.3	132.0	198.0	237.2	310.5	357.0	393.6	405.9
19.6	77.5°	24.4	56.2	110.0	154.0	185.8	251.8	239.6	273.8	303.2
14.7	80°	17.1	41.6	85.6	127.1	129.6	161.4	190.7	220.0	239.6
9.8	82.5°	12.2	34.2	63.6	97.8	85.6	124.7	149.1	171.1	124.7
7.3	85°	9.8	24.4	31.8	58.7	48.9	88.0	75.8	73.3	48.9
4.9	87.5°	7.3	12.2	22.0	26.9	19.6	19.6	24.4	29.3	24.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
7178.2
6999.7
7048.6
7090.2
7151.3
7276.0
7486.3
7762.5
8065.7
8320.0
8454.4
8300.4
8146.4
8002.1
7850.6
7674.5
7483.8
7278.4
7053.5
6762.6
6376.3
6031.6
5689.3
4814.0
3862.9
2730.9
1408.3
838.6
652.8
533.0
398.5
308.1
242.0
90.5
48.9
24.4
0.0

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