

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: P636901

Luminaire Tested: **IFLD-M-SA4E-930-U-LAM-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P636901  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4E-930-U-LAM-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens and Visor  
Light Source: (64) 3000K CCT, 90 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17077.8 lumens  
Efficiency: N/A  
Efficacy: 54.2 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G2

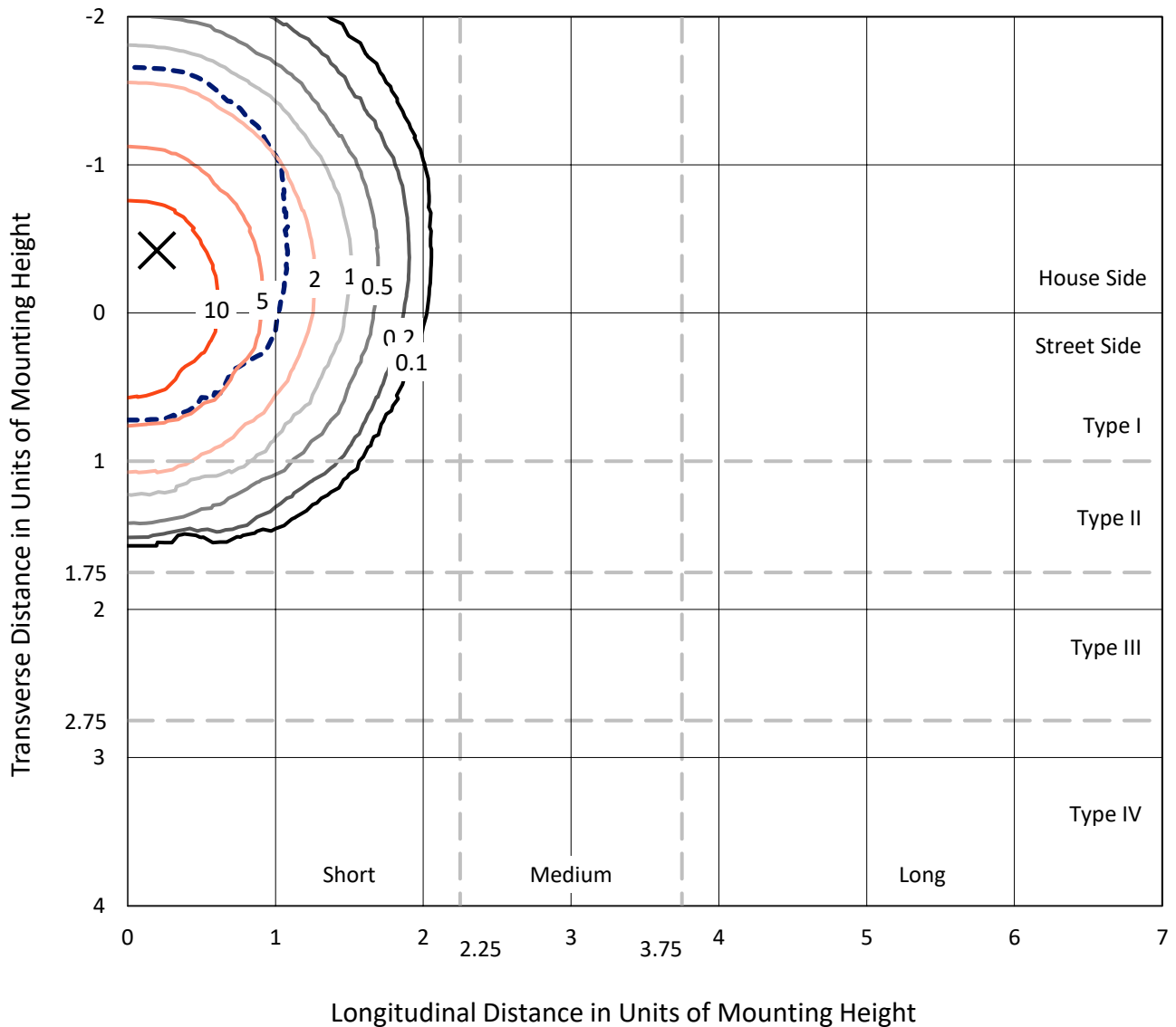
Input Watts (W): 314.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

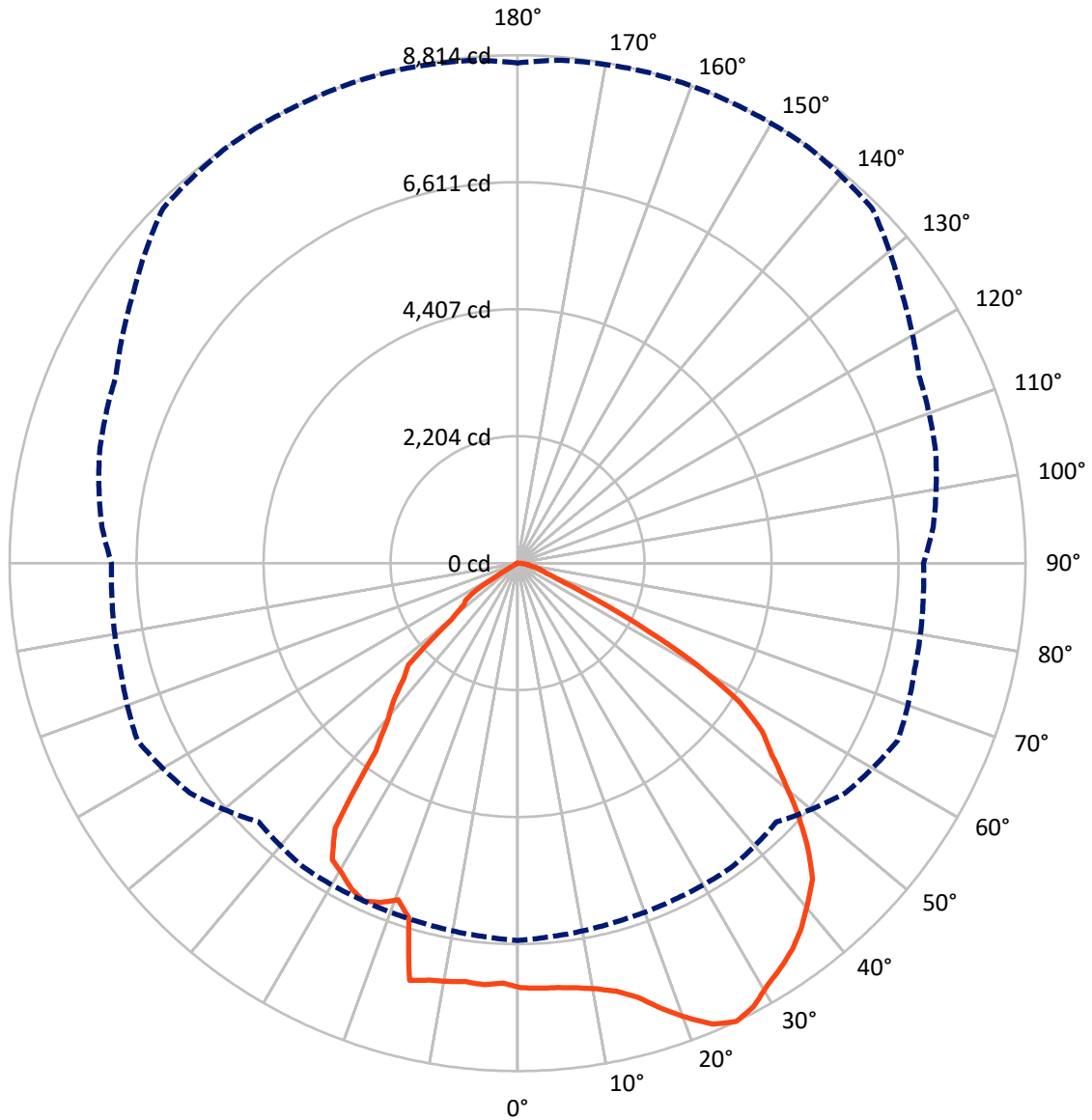
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 18.4 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	10572.9	0.0	10572.9
	% Fixture	61.9	0.0	61.9
<b>Street Side</b>	Lumens	6504.9	0.0	6504.9
	% Fixture	38.1	0.0	38.1
<b>Total</b>	Lumens	17077.8	0.0	17077.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	706.9	4.1
10°-20°	2158.6	12.6
20°-30°	3412.6	20.0
30°-40°	3854.9	22.6
40°-50°	3610.1	21.1
50°-60°	2488.9	14.6
60°-70°	668.7	3.9
70°-80°	139.3	0.8
80°-90°	37.7	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°	17077.8	100.0
0°-180°	17077.8	100.0



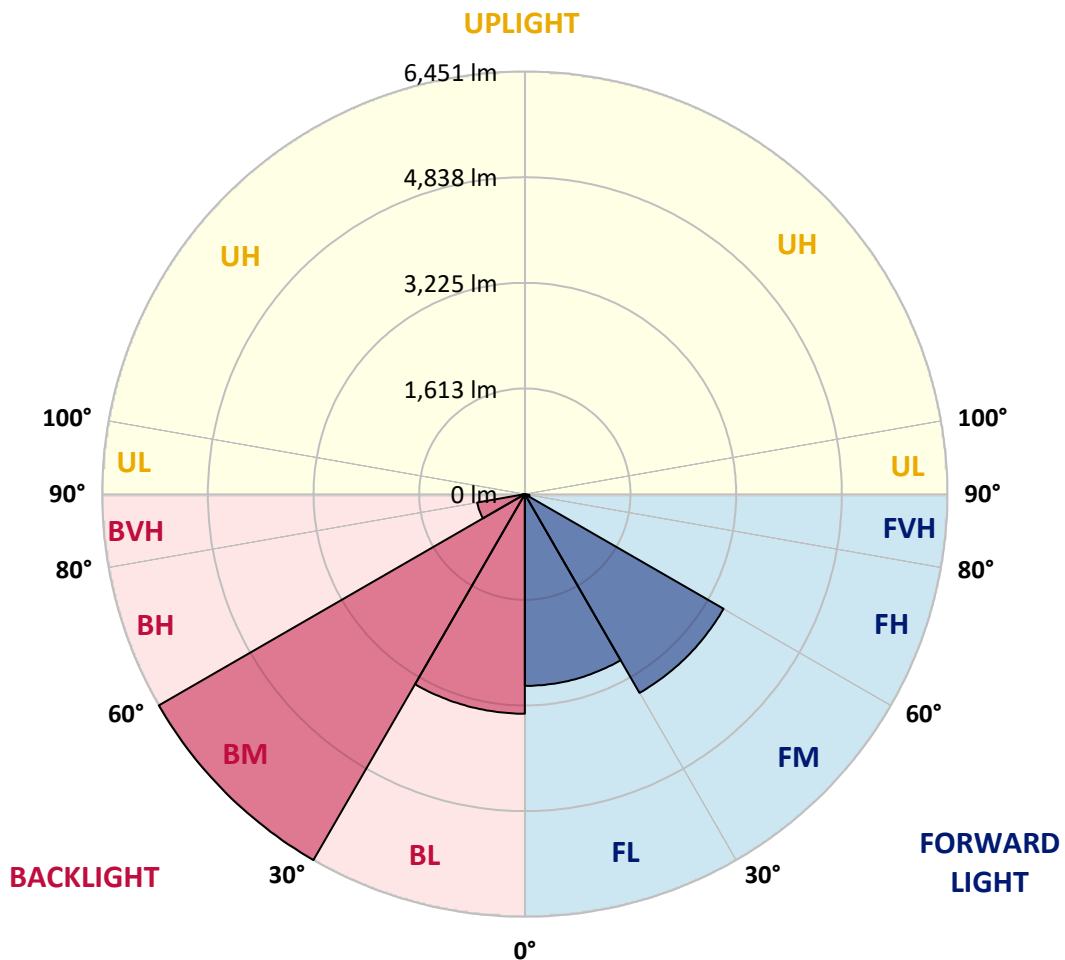
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2926.6	17.1			
FM (30°-60°)	3503.0	20.5			
FH (60°-80°)	70.2	0.4			G0/660
FVH (80°-90°)	5.1	0.0			G0/10
BL (0°-30°)	3351.6	19.6	B4/5000		
BM (30°-60°)	6450.9	37.8	B4/8500		
BH (60°-80°)	737.8	4.3	B2/1000		G2/1000
BVH (80°-90°)	32.6	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°	7368.8	7368.8	7368.8	7368.8	7368.8	7368.8	7368.8	7368.8	7368.8	7368.8
2.5°	7401.4	7353.7	7308.5	7293.5	7356.2	7424.0	7381.3	7383.8	7368.8	7396.4
5°	7456.6	7391.4	7361.2	7338.7	7348.7	7419.0	7358.7	7381.3	7356.2	7388.9
7.5°	7436.5	7391.4	7361.2	7318.6	7351.2	7434.0	7376.3	7378.8	7366.3	7396.4
10°	7424.0	7391.4	7353.7	7358.7	7396.4	7466.7	7421.5	7446.6	7429.0	7446.6
12.5°	7454.1	7419.0	7398.9	7398.9	7431.5	7511.8	7489.2	7511.8	7504.3	7519.4
15°	7170.5	7203.1	7393.9	7479.2	7544.5	7624.8	7614.7	7637.3	7642.3	7664.9
17.5°	6048.6	6016.0	6000.9	6440.2	7607.2	7855.7	7848.2	7845.6	7820.5	7803.0
20°	6196.7	6184.2	6166.6	6199.2	6329.7	7976.2	8026.3	7717.6	7627.3	7619.8
22.5°	6432.6	6412.5	6347.3	6349.8	6390.0	6934.6	7777.9	7496.8	7466.7	7449.1
25°	6548.1	6507.9	6455.2	6440.2	6452.7	6352.3	6947.1	7280.9	7132.9	7065.1
27.5°	6344.8	6347.3	6304.6	6344.8	6297.1	5845.3	5591.8	6859.3	6854.3	6824.2
30°	6191.7	6184.2	6134.0	6184.2	5855.4	5350.9	5243.0	6397.5	6344.8	6304.6
32.5°	5722.3	5727.4	5872.9	6068.7	5529.1	5130.0	4803.8	5714.8	6214.3	6191.7
35°	4093.5	4103.5	4620.5	5586.8	5034.7	4690.8	4665.7	4939.3	6008.5	6018.5
37.5°	3940.4	3940.4	3927.8	4086.0	4645.6	4512.6	4562.8	4535.2	5504.0	5529.1
40°	3830.0	3807.4	3789.8	3541.3	3230.1	4387.1	4422.3	4296.8	5202.8	5207.8
42.5°	3696.9	3671.8	3676.9	3217.6	2891.3	4075.9	3978.0	3809.9	4700.9	4705.9
45°	3453.5	3496.2	3526.3	2816.0	2790.9	2911.4	3669.3	3563.9	4362.0	4454.9
47.5°	1756.9	1794.5	2753.3	2590.1	2647.8	2587.6	3099.6	3102.1	3629.2	3937.9
50°	1593.7	1583.7	1586.2	1510.9	2444.5	2093.2	2241.3	2843.6	2906.4	3348.1
52.5°	1485.8	1483.3	1330.2	1182.1	1536.0	1842.2	1626.4	2058.0	2160.9	2836.1
55°	1099.3	1179.6	1049.1	1111.8	961.3	1475.8	1468.2	1857.3	1892.4	2273.9
57.5°	10.0	12.5	30.1	845.8	665.1	737.9	1014.0	1267.5	1330.2	1771.9
60°	2.5	5.0	12.5	25.1	431.7	454.3	677.6	732.9	825.7	1056.6
62.5°	0.0	0.0	5.0	12.5	22.6	185.7	215.8	235.9	363.9	539.6
65°	0.0	0.0	2.5	7.5	12.5	30.1	52.7	110.4	158.1	195.8
67.5°	0.0	0.0	2.5	5.0	10.0	15.1	30.1	42.7	67.8	115.5
70°	0.0	0.0	2.5	5.0	7.5	12.5	20.1	30.1	40.2	57.7
72.5°	0.0	0.0	2.5	5.0	5.0	15.1	15.1	22.6	30.1	37.6
75°	0.0	0.0	2.5	2.5	5.0	10.0	15.1	17.6	20.1	30.1
77.5°	0.0	0.0	2.5	5.0	7.5	10.0	12.5	20.1	17.6	17.6
80°	0.0	0.0	2.5	7.5	7.5	12.5	15.1	20.1	12.5	12.5
82.5°	0.0	0.0	2.5	10.0	7.5	25.1	25.1	27.6	10.0	10.0
85°	0.0	0.0	7.5	5.0	15.1	25.1	22.6	15.1	12.5	7.5
87.5°	0.0	0.0	2.5	2.5	5.0	7.5	17.6	15.1	5.0	5.0
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°
7368.8	0°	7368.8	7368.8	7368.8	7368.8	7368.8	7368.8	7368.8	7368.8	7368.8
7323.6	2.5°	7424.0	7391.4	7459.1	7451.6	7419.0	7403.9	7386.3	7371.3	7260.9
7328.6	5°	7426.5	7376.3	7459.1	7444.1	7439.1	7414.0	7398.9	7421.5	7321.1
7348.7	7.5°	7426.5	7376.3	7466.7	7471.7	7464.2	7444.1	7441.6	7456.6	7373.8
7383.8	10°	7476.7	7456.6	7531.9	7539.4	7529.4	7524.4	7511.8	7501.8	7414.0
7504.3	12.5°	7582.1	7542.0	7627.3	7649.9	7642.3	7654.9	7624.8	7639.8	7549.5
7627.3	15°	7710.1	7712.6	7777.9	7828.1	7823.1	7863.2	7818.0	7858.2	7792.9
7767.8	17.5°	7905.9	7933.5	8026.3	8101.6	8129.2	8159.4	8129.2	8141.8	8048.9
7612.2	20°	7700.1	7803.0	8249.7	8387.8	8445.5	8473.1	8422.9	8438.0	8345.1
7421.5	22.5°	7514.3	7647.4	8043.9	8475.6	8653.8	8709.0	8691.4	8688.9	8653.8
7045.0	25°	7240.8	7509.3	7687.5	8144.3	8704.0	8804.4	8814.4	8811.9	8759.2
6814.1	27.5°	6904.5	6964.7	7426.5	7705.1	8352.6	8734.1	8719.1	8646.3	8576.0
6334.7	30°	6475.3	6748.9	6957.2	7401.4	7898.3	8518.3	8518.3	8463.1	8390.3
6164.1	32.5°	6256.9	6610.8	6804.1	6964.7	7388.9	8277.3	8377.7	8320.0	8262.3
6031.1	35°	6141.5	6194.2	6646.0	6791.5	7150.4	7813.0	8219.6	8161.9	8119.2
5677.2	37.5°	5888.0	6011.0	6221.8	6610.8	6721.2	7434.0	8008.8	7978.7	7928.5
5217.9	40°	5323.3	5652.1	5975.8	6344.8	6460.2	6947.1	7752.8	7765.3	7697.6
4728.5	42.5°	4989.5	5212.9	5719.8	5968.3	6279.5	6633.4	7504.3	7524.4	7476.7
4480.0	45°	4598.0	4846.4	5202.8	5654.6	6078.7	6201.7	7065.1	7275.9	7235.8
3985.6	47.5°	4239.1	4439.8	4876.5	5333.3	5802.7	5785.1	6560.6	6957.2	6902.0
3606.6	50°	3729.6	4080.9	4286.7	4705.9	5406.1	5453.8	6023.5	6583.2	6538.0
3064.5	52.5°	3144.8	3586.5	3980.5	4364.5	5004.5	5117.5	5524.1	6201.7	6171.6
2341.6	55°	2748.2	3069.5	3513.7	3822.4	4517.6	4818.8	5150.1	5837.8	5822.7
1925.0	57.5°	1955.1	2575.1	2941.5	3373.2	3739.6	4284.2	4530.2	5097.4	4956.9
1066.7	60°	1325.2	1616.3	2063.1	2527.4	2773.3	3318.0	3546.4	4000.6	3963.0
637.5	62.5°	700.2	968.8	1287.5	1520.9	1699.1	2228.7	2324.1	2813.5	2800.9
256.0	65°	308.7	409.1	697.7	818.2	1001.4	1247.4	1330.2	1505.9	1463.2
125.5	67.5°	160.6	243.5	394.0	484.4	609.9	702.7	770.5	825.7	860.9
82.8	70°	97.9	178.2	243.5	336.3	419.1	494.4	547.1	622.4	667.6
42.7	72.5°	72.8	112.9	168.2	258.5	303.7	391.5	444.2	499.5	539.6
35.1	75°	40.2	75.3	135.5	203.3	243.5	318.7	366.4	404.1	416.6
20.1	77.5°	25.1	57.7	112.9	158.1	190.7	258.5	246.0	281.1	311.2
15.1	80°	17.6	42.7	87.8	130.5	133.0	165.6	195.8	225.9	246.0
10.0	82.5°	12.5	35.1	65.3	100.4	87.8	128.0	153.1	175.7	128.0
7.5	85°	10.0	25.1	32.6	60.2	50.2	90.4	77.8	75.3	50.2
5.0	87.5°	7.5	12.5	22.6	27.6	20.1	20.1	25.1	30.1	25.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
7368.8  
7185.6  
7235.8  
7278.4  
7341.2  
7469.2  
7685.0  
7968.6  
8279.8  
8540.9  
8678.9  
8520.8  
8362.7  
8214.6  
8059.0  
7878.3  
7682.5  
7471.7  
7240.8  
6942.1  
6545.6  
6191.7  
5840.3  
4941.8  
3965.5  
2803.4  
1445.6  
860.9  
670.1  
547.1  
409.1  
316.2  
248.5  
92.9  
50.2  
25.1  
0.0

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