

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: P638464

Luminaire Tested: **IFLD-M-SA4B-750-U-LAM-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638464  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4B-750-U-LAM-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens and Visor  
Light Source: (64) 5000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17219 lumens  
Efficiency: N/A  
Efficacy: 103.7 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G2

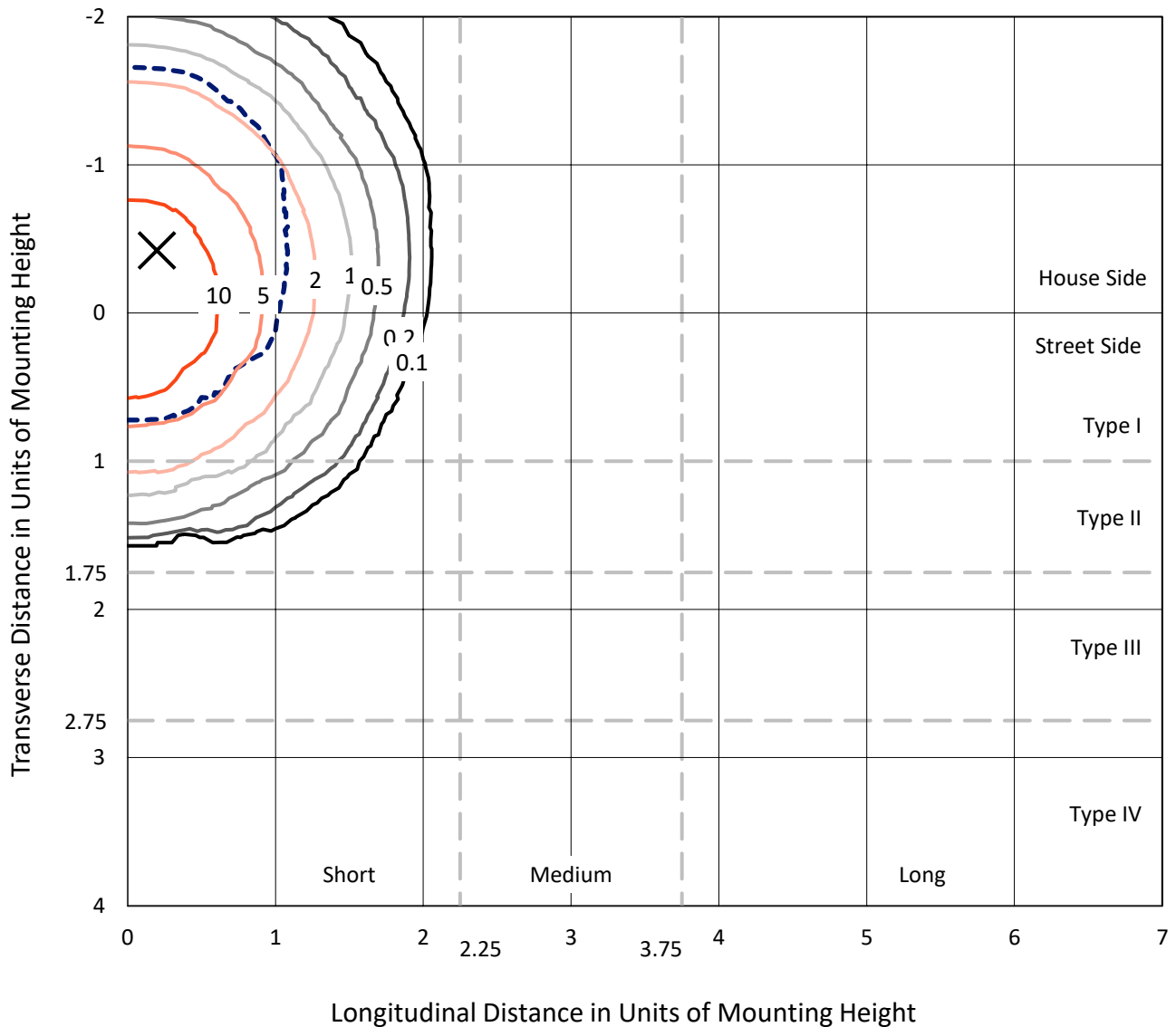
Input Watts (W): 166.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

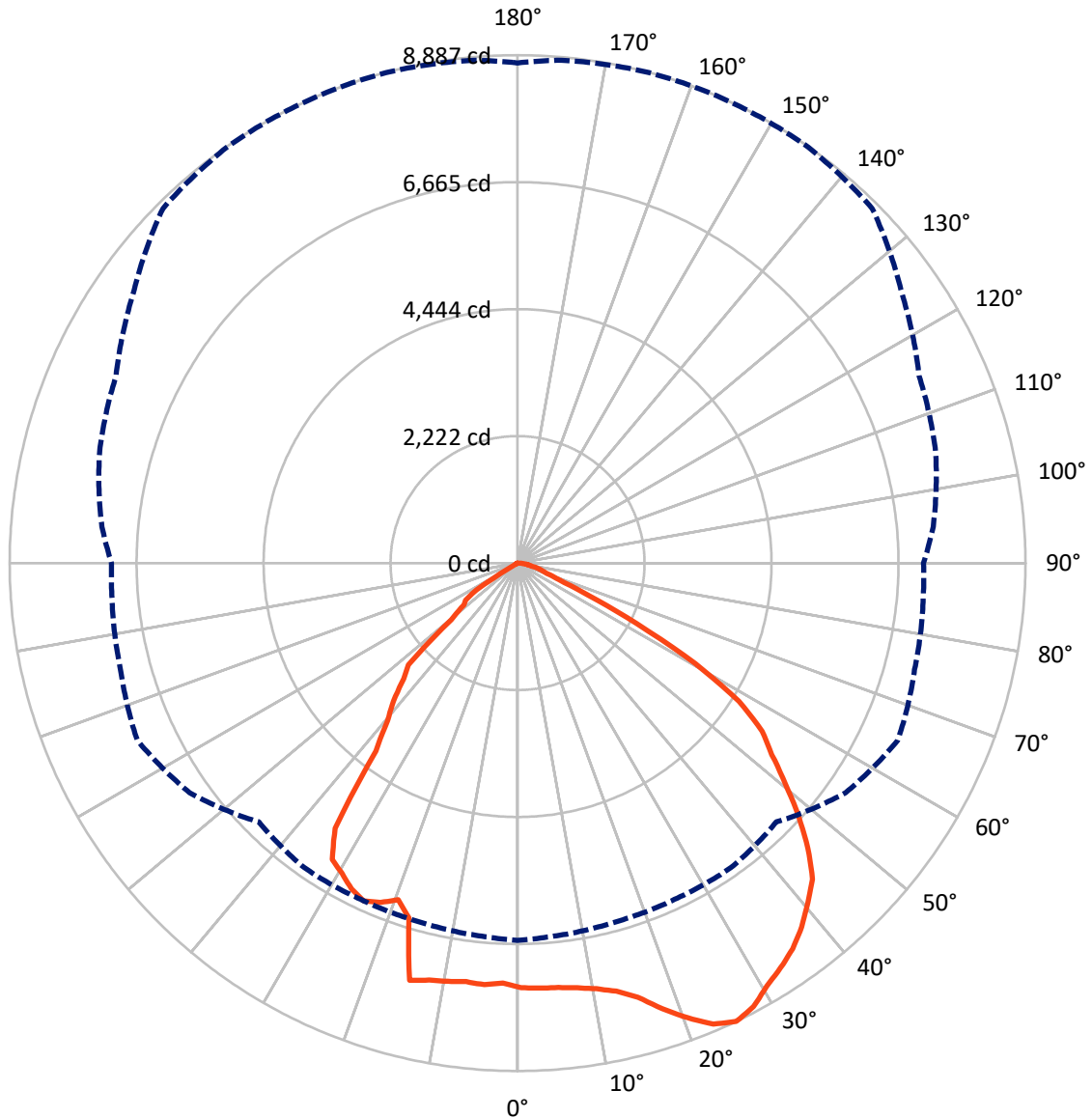
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 18.6 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	10660.3	0.0	10660.3
	% Fixture	61.9	0.0	61.9
<b>Street Side</b>	Lumens	6558.7	0.0	6558.7
	% Fixture	38.1	0.0	38.1
<b>Total</b>	Lumens	17219.0	0.0	17219.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	712.8	4.1
10°-20°	2176.4	12.6
20°-30°	3440.8	20.0
30°-40°	3886.7	22.6
40°-50°	3640.0	21.1
50°-60°	2509.5	14.6
60°-70°	674.2	3.9
70°-80°	140.5	0.8
80°-90°	38.0	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°	17219.0	100.0
0°-180°	17219.0	100.0



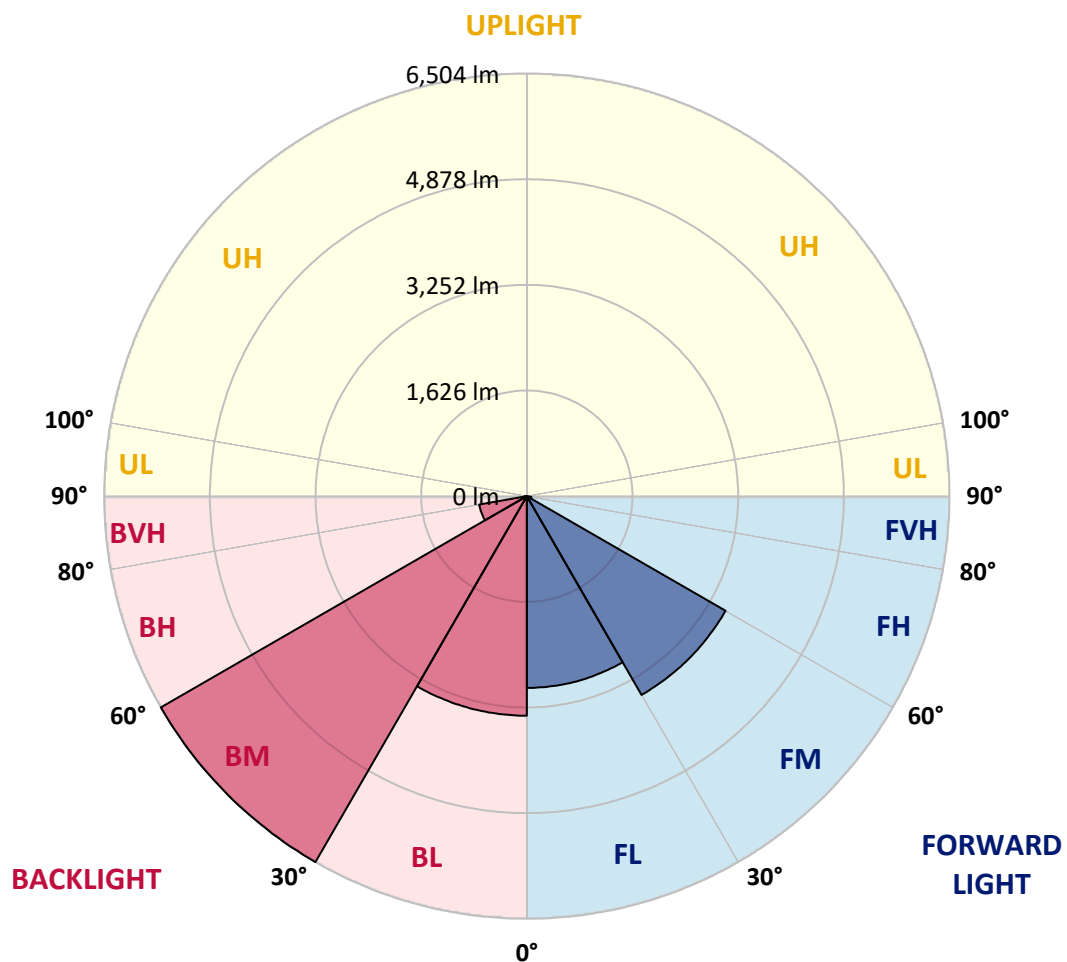
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2950.8	17.1			
FM (30°-60°)	3532.0	20.5			
FH (60°-80°)	70.8	0.4			G0/660
FVH (80°-90°)	5.1	0.0			G0/10
BL (0°-30°)	3379.3	19.6	B4/5000		
BM (30°-60°)	6504.2	37.8	B4/8500		
BH (60°-80°)	744.0	4.3	B2/1000		G2/1000
BVH (80°-90°)	32.9	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°	7429.7	7429.7	7429.7	7429.7	7429.7	7429.7	7429.7	7429.7	7429.7	7429.7
2.5°	7462.6	7414.5	7369.0	7353.8	7417.0	7485.4	7442.3	7444.9	7429.7	7457.5
5°	7518.3	7452.5	7422.1	7399.3	7409.4	7480.3	7419.6	7442.3	7417.0	7449.9
7.5°	7498.0	7452.5	7422.1	7379.1	7412.0	7495.5	7437.3	7439.8	7427.2	7457.5
10°	7485.4	7452.5	7414.5	7419.6	7457.5	7528.4	7482.8	7508.1	7490.4	7508.1
12.5°	7515.7	7480.3	7460.1	7460.1	7493.0	7573.9	7551.2	7573.9	7566.3	7581.5
15°	7229.8	7262.7	7455.0	7541.0	7606.8	7687.8	7677.7	7700.5	7705.5	7728.3
17.5°	6098.6	6065.7	6050.5	6493.4	7670.1	7920.6	7913.0	7910.5	7885.2	7867.5
20°	6247.9	6235.3	6217.6	6250.5	6382.0	8042.1	8092.7	7781.4	7690.3	7682.7
22.5°	6485.8	6465.6	6399.8	6402.3	6442.8	6991.9	7842.2	7558.7	7528.4	7510.7
25°	6602.2	6561.7	6508.6	6493.4	6506.0	6404.8	7004.6	7341.1	7191.8	7123.5
27.5°	6397.2	6399.8	6356.7	6397.2	6349.1	5893.6	5638.1	6916.0	6910.9	6880.6
30°	6242.9	6235.3	6184.7	6235.3	5903.8	5395.1	5286.3	6450.4	6397.2	6356.7
32.5°	5769.6	5774.7	5921.5	6118.9	5574.8	5172.4	4843.5	5762.1	6265.6	6242.9
35°	4127.3	4137.4	4658.7	5633.0	5076.3	4729.6	4704.3	4980.1	6058.1	6068.3
37.5°	3973.0	3973.0	3960.3	4119.7	4684.0	4549.9	4600.5	4572.7	5549.5	5574.8
40°	3861.6	3838.8	3821.1	3570.6	3256.8	4423.4	4458.8	4332.3	5245.8	5250.9
42.5°	3727.5	3702.2	3707.3	3244.2	2915.2	4109.6	4010.9	3841.4	4739.7	4744.8
45°	3482.0	3525.1	3555.4	2839.3	2814.0	2935.4	3699.7	3593.4	4398.1	4491.7
47.5°	1771.4	1809.3	2776.0	2611.5	2669.7	2609.0	3125.2	3127.8	3659.2	3970.4
50°	1606.9	1596.8	1599.3	1523.4	2464.8	2110.5	2259.8	2867.1	2930.4	3375.8
52.5°	1498.1	1495.6	1341.2	1191.9	1548.7	1857.4	1639.8	2075.0	2178.8	2859.5
55°	1108.4	1189.4	1057.8	1121.0	969.2	1488.0	1480.4	1872.6	1908.0	2292.7
57.5°	10.1	12.7	30.4	852.8	670.6	744.0	1022.3	1277.9	1341.2	1786.6
60°	2.5	5.1	12.7	25.3	435.3	458.0	683.2	738.9	832.6	1065.4
62.5°	0.0	0.0	5.1	12.7	22.8	187.3	217.6	237.9	366.9	544.1
65°	0.0	0.0	2.5	7.6	12.7	30.4	53.1	111.3	159.4	197.4
67.5°	0.0	0.0	2.5	5.1	10.1	15.2	30.4	43.0	68.3	116.4
70°	0.0	0.0	2.5	5.1	7.6	12.7	20.2	30.4	40.5	58.2
72.5°	0.0	0.0	2.5	5.1	5.1	15.2	15.2	22.8	30.4	38.0
75°	0.0	0.0	2.5	2.5	5.1	10.1	15.2	17.7	20.2	30.4
77.5°	0.0	0.0	2.5	5.1	7.6	10.1	12.7	20.2	17.7	17.7
80°	0.0	0.0	2.5	7.6	7.6	12.7	15.2	20.2	12.7	12.7
82.5°	0.0	0.0	2.5	10.1	7.6	25.3	25.3	27.8	10.1	10.1
85°	0.0	0.0	7.6	5.1	15.2	25.3	22.8	15.2	12.7	7.6
87.5°	0.0	0.0	2.5	2.5	5.1	7.6	17.7	15.2	5.1	5.1
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°
7429.7	0°	7429.7	7429.7	7429.7	7429.7	7429.7	7429.7	7429.7	7429.7	7429.7
7384.1	2.5°	7485.4	7452.5	7520.8	7513.2	7480.3	7465.1	7447.4	7432.2	7320.9
7389.2	5°	7487.9	7437.3	7520.8	7505.6	7500.5	7475.2	7460.1	7482.8	7381.6
7409.4	7.5°	7487.9	7437.3	7528.4	7533.4	7525.8	7505.6	7503.1	7518.3	7434.8
7444.9	10°	7538.5	7518.3	7594.2	7601.8	7591.6	7586.6	7573.9	7563.8	7475.2
7566.3	12.5°	7644.8	7604.3	7690.3	7713.1	7705.5	7718.2	7687.8	7703.0	7611.9
7690.3	15°	7773.8	7776.4	7842.2	7892.8	7887.7	7928.2	7882.7	7923.1	7857.4
7832.0	17.5°	7971.2	7999.1	8092.7	8168.6	8196.4	8226.8	8196.4	8209.1	8115.5
7675.2	20°	7763.7	7867.5	8317.9	8457.1	8515.3	8543.1	8492.5	8507.7	8414.1
7482.8	22.5°	7576.5	7710.6	8110.4	8545.7	8725.3	8781.0	8763.3	8760.8	8725.3
7103.2	25°	7300.6	7571.4	7751.1	8211.6	8775.9	8877.2	8887.3	8884.8	8831.6
6870.4	27.5°	6961.5	7022.3	7487.9	7768.8	8421.7	8806.3	8791.1	8717.7	8646.9
6387.1	30°	6528.8	6804.6	7014.7	7462.6	7963.6	8588.7	8588.7	8533.0	8459.6
6215.0	32.5°	6308.7	6665.5	6860.3	7022.3	7449.9	8345.7	8447.0	8388.8	8330.6
6080.9	35°	6192.3	6245.4	6700.9	6847.7	7209.5	7877.6	8287.5	8229.3	8186.3
5724.1	37.5°	5936.7	6060.7	6273.2	6665.5	6776.8	7495.5	8075.0	8044.6	7994.0
5261.0	40°	5367.3	5698.8	6025.2	6397.2	6513.6	7004.6	7816.9	7829.5	7761.2
4767.6	42.5°	5030.7	5255.9	5767.1	6017.6	6331.4	6688.2	7566.3	7586.6	7538.5
4517.0	45°	4636.0	4886.5	5245.8	5701.3	6129.0	6253.0	7123.5	7336.1	7295.6
4018.5	47.5°	4274.1	4476.5	4916.9	5377.4	5850.6	5832.9	6614.9	7014.7	6959.0
3636.4	50°	3760.4	4114.7	4322.2	4744.8	5450.8	5498.9	6073.3	6637.6	6592.1
3089.8	52.5°	3170.8	3616.2	4013.4	4400.6	5045.9	5159.8	5569.7	6253.0	6222.6
2361.0	55°	2771.0	3094.9	3542.8	3854.0	4555.0	4858.7	5192.7	5886.1	5870.9
1940.9	57.5°	1971.3	2596.3	2965.8	3401.1	3770.5	4319.6	4567.6	5139.5	4997.8
1075.5	60°	1336.1	1629.7	2080.1	2548.3	2796.3	3345.4	3575.7	4033.7	3995.7
642.8	62.5°	706.0	976.8	1298.2	1533.5	1713.2	2247.1	2343.3	2836.7	2824.1
258.1	65°	311.3	412.5	703.5	825.0	1009.7	1257.7	1341.2	1518.3	1475.3
126.5	67.5°	162.0	245.5	397.3	488.4	614.9	708.6	776.9	832.6	868.0
83.5	70°	98.7	179.7	245.5	339.1	422.6	498.5	551.7	627.6	673.1
43.0	72.5°	73.4	113.9	169.5	260.6	306.2	394.8	447.9	503.6	544.1
35.4	75°	40.5	75.9	136.6	205.0	245.5	321.4	369.5	407.4	420.1
20.2	77.5°	25.3	58.2	113.9	159.4	192.3	260.6	248.0	283.4	313.8
15.2	80°	17.7	43.0	88.6	131.6	134.1	167.0	197.4	227.7	248.0
10.1	82.5°	12.7	35.4	65.8	101.2	88.6	129.1	154.4	177.1	129.1
7.6	85°	10.1	25.3	32.9	60.7	50.6	91.1	78.4	75.9	50.6
5.1	87.5°	7.6	12.7	22.8	27.8	20.2	20.2	25.3	30.4	25.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
7429.7  
7245.0  
7295.6  
7338.6  
7401.9  
7530.9  
7748.5  
8034.5  
8348.3  
8611.5  
*8750.6*  
8591.2  
8431.8  
8282.5  
8125.6  
7943.4  
7746.0  
7533.4  
7300.6  
6999.5  
6599.7  
6242.9  
5888.6  
4982.6  
3998.3  
2826.6  
1457.6  
868.0  
675.7  
551.7  
412.5  
318.8  
250.5  
93.6  
50.6  
25.3  
0.0

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