

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: P638405

Luminaire Tested: **IFLD-M-SA4A-735-U-LAM-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638405  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4A-735-U-LAM-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens and Visor  
Light Source: (64) 3500K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13424.7 lumens  
Efficiency: N/A  
Efficacy: 104.4 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G2

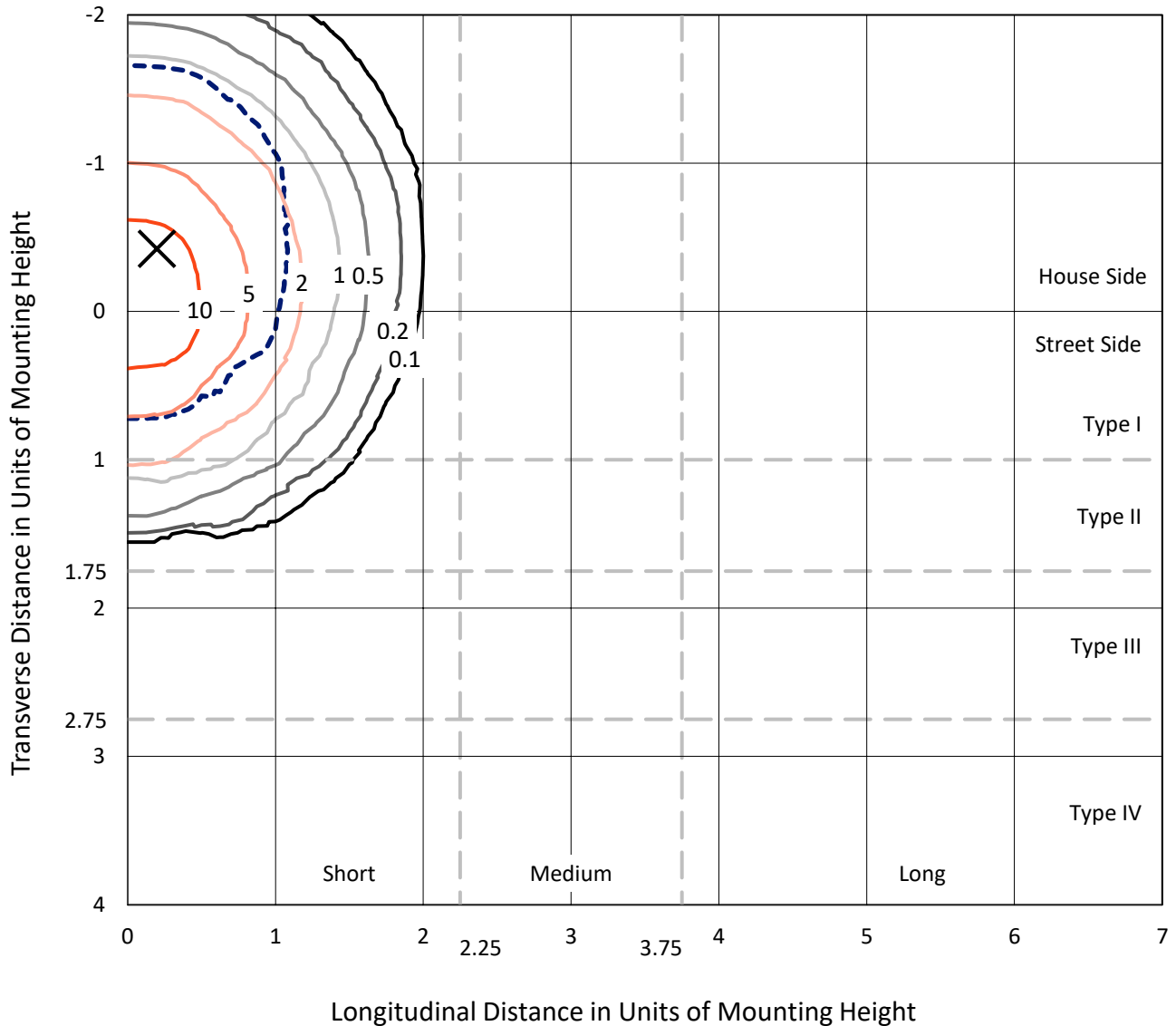
Input Watts (W): 128.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

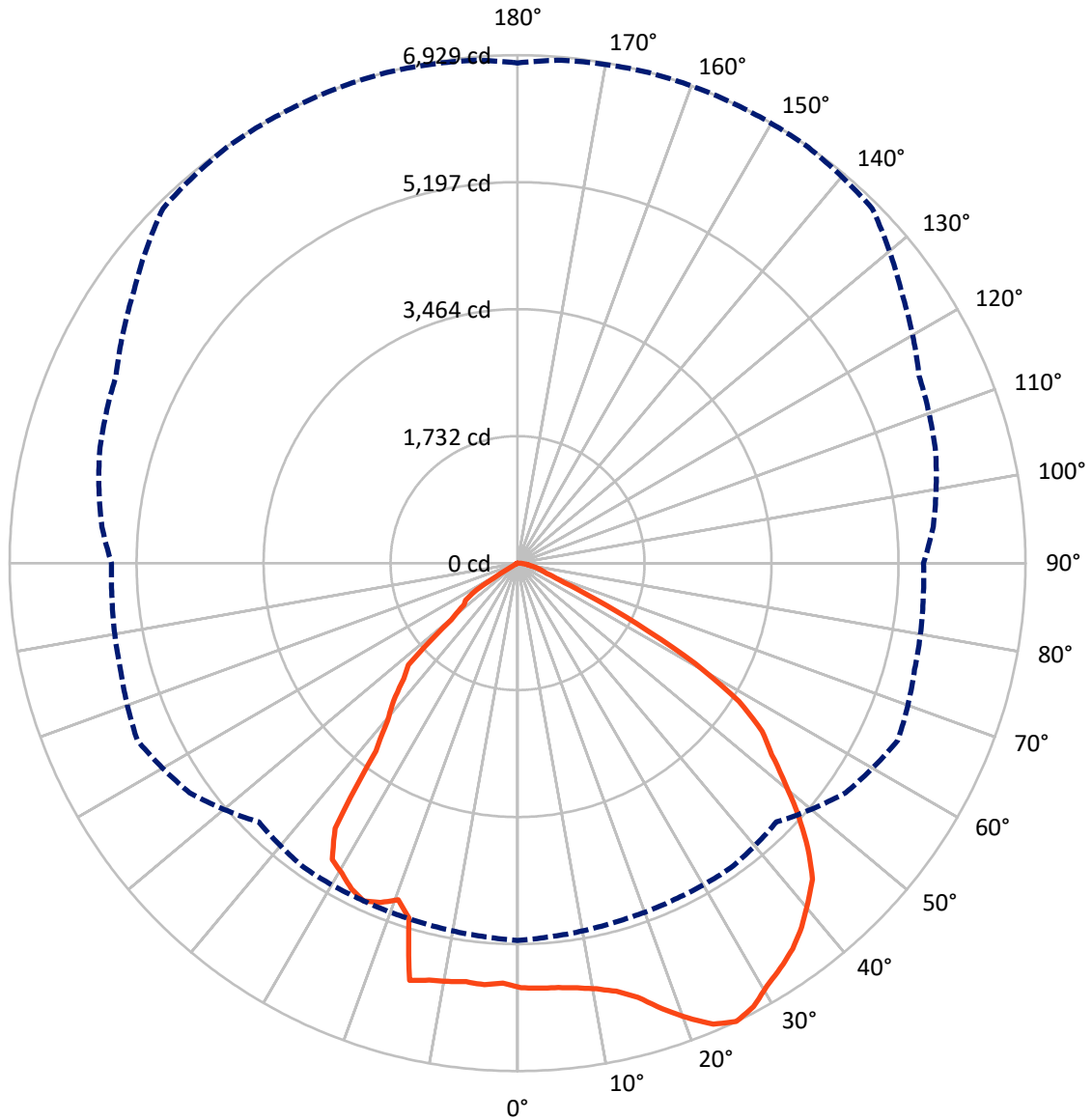
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 14.5 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	8311.2	0.0	8311.2
	% Fixture	61.9	0.0	61.9
<b>Street Side</b>	Lumens	5113.4	0.0	5113.4
	% Fixture	38.1	0.0	38.1
<b>Total</b>	Lumens	13424.7	0.0	13424.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	555.7	4.1
10°-20°	1696.8	12.6
20°-30°	2682.6	20.0
30°-40°	3030.2	22.6
40°-50°	2837.9	21.1
50°-60°	1956.5	14.6
60°-70°	525.7	3.9
70°-80°	109.5	0.8
80°-90°	29.6	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°	13424.7	100.0
0°-180°	13424.7	100.0



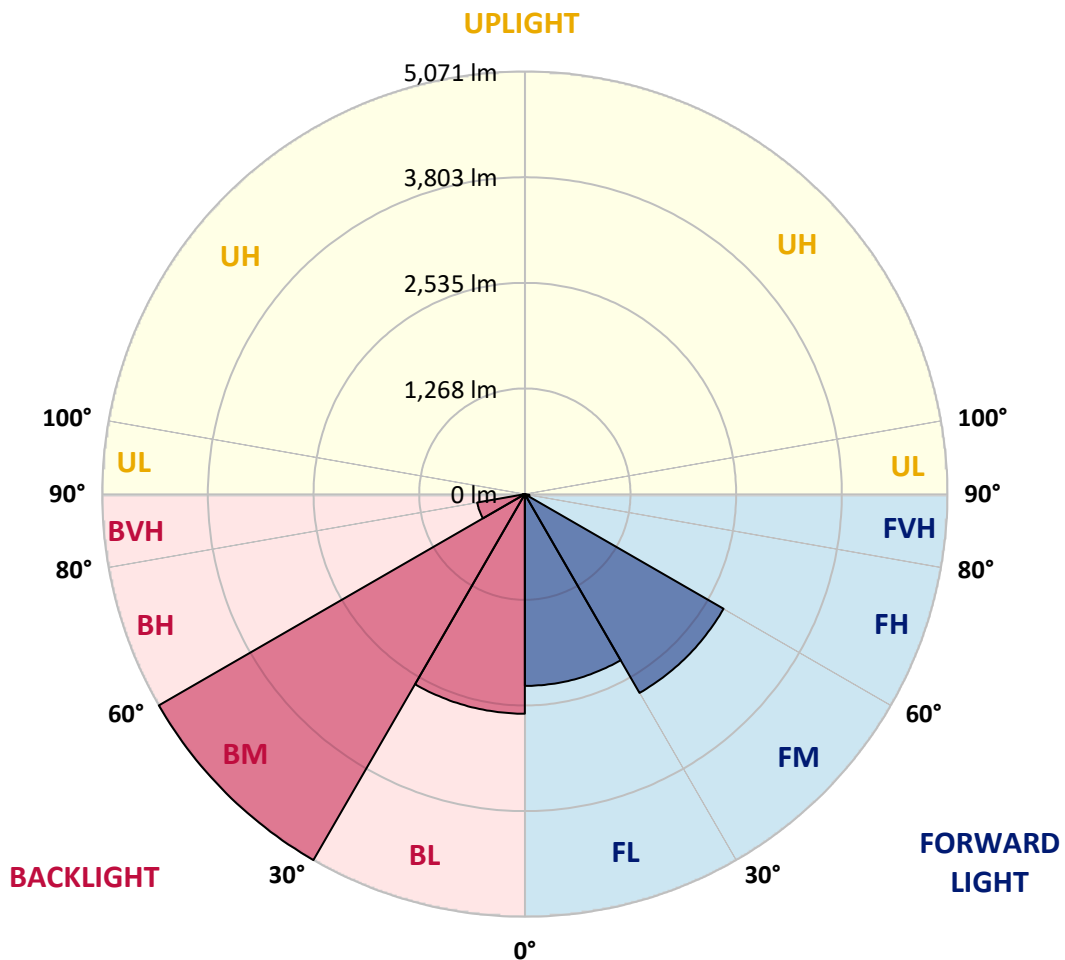
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2300.6	17.1			
FM	(30°-60°)	2753.7	20.5			
FH	(60°-80°)	55.2	0.4			G0/660
FVH	(80°-90°)	4.0	0.0			G0/10
BL	(0°-30°)	2634.6	19.6	B4/5000		
BM	(30°-60°)	5071.0	37.8	B4/8500		
BH	(60°-80°)	580.0	4.3	B2/1000		G2/1000
BVH	(80°-90°)	25.7	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°	5792.5	5792.5	5792.5	5792.5	5792.5	5792.5	5792.5	5792.5	5792.5	5792.5
2.5°	5818.1	5780.7	5745.1	5733.3	5782.6	5835.9	5802.4	5804.3	5792.5	5814.2
5°	5861.6	5810.3	5786.6	5768.8	5776.7	5832.0	5784.6	5802.4	5782.6	5808.3
7.5°	5845.8	5810.3	5786.6	5753.0	5778.7	5843.8	5798.4	5800.4	5790.5	5814.2
10°	5835.9	5810.3	5780.7	5784.6	5814.2	5869.4	5833.9	5853.7	5839.8	5853.7
12.5°	5859.6	5832.0	5816.2	5816.2	5841.8	5905.0	5887.2	5905.0	5899.0	5910.9
15°	5636.6	5662.3	5812.2	5879.3	5930.6	5993.7	5985.8	6003.6	6007.5	6025.3
17.5°	4754.7	4729.1	4717.3	5062.5	5979.9	6175.2	6169.3	6167.4	6147.6	6133.8
20°	4871.1	4861.3	4847.5	4873.1	4975.7	6269.9	6309.4	6066.7	5995.7	5989.8
22.5°	5056.6	5040.8	4989.5	4991.5	5023.1	5451.2	6114.1	5893.1	5869.4	5855.6
25°	5147.4	5115.8	5074.4	5062.5	5072.4	4993.5	5461.0	5723.4	5607.0	5553.8
27.5°	4987.5	4989.5	4956.0	4987.5	4950.1	4594.9	4395.7	5392.0	5388.0	5364.4
30°	4867.2	4861.3	4821.8	4861.3	4602.8	4206.3	4121.4	5029.0	4987.5	4956.0
32.5°	4498.3	4502.2	4616.6	4770.5	4346.3	4032.7	3776.2	4492.3	4885.0	4867.2
35°	3217.8	3225.7	3632.1	4391.7	3957.7	3687.4	3667.7	3882.7	4723.2	4731.1
37.5°	3097.5	3097.5	3087.6	3211.9	3651.9	3547.3	3586.8	3565.1	4326.6	4346.3
40°	3010.7	2992.9	2979.1	2783.8	2539.2	3448.7	3476.3	3377.6	4089.9	4093.8
42.5°	2906.1	2886.4	2890.3	2529.3	2272.8	3204.0	3127.1	2994.9	3695.3	3699.2
45°	2714.7	2748.3	2772.0	2213.6	2193.9	2288.6	2884.4	2801.5	3428.9	3501.9
47.5°	1381.0	1410.6	2164.3	2036.1	2081.4	2034.1	2436.6	2438.5	2852.8	3095.5
50°	1252.8	1244.9	1246.9	1187.7	1921.6	1645.4	1761.8	2235.3	2284.6	2631.9
52.5°	1168.0	1166.0	1045.6	929.2	1207.4	1448.1	1278.5	1617.8	1698.7	2229.4
55°	864.1	927.3	824.7	874.0	755.6	1160.1	1154.2	1460.0	1487.6	1787.5
57.5°	7.9	9.9	23.7	664.9	522.8	580.0	797.1	996.3	1045.6	1392.9
60°	2.0	3.9	9.9	19.7	339.3	357.1	532.7	576.1	649.1	830.6
62.5°	0.0	0.0	3.9	9.9	17.8	146.0	169.7	185.5	286.1	424.2
65°	0.0	0.0	2.0	5.9	9.9	23.7	41.4	86.8	124.3	153.9
67.5°	0.0	0.0	2.0	3.9	7.9	11.8	23.7	33.5	53.3	90.8
70°	0.0	0.0	2.0	3.9	5.9	9.9	15.8	23.7	31.6	45.4
72.5°	0.0	0.0	2.0	3.9	3.9	11.8	11.8	17.8	23.7	29.6
75°	0.0	0.0	2.0	2.0	3.9	7.9	11.8	13.8	15.8	23.7
77.5°	0.0	0.0	2.0	3.9	5.9	7.9	9.9	15.8	13.8	13.8
80°	0.0	0.0	2.0	5.9	5.9	9.9	11.8	15.8	9.9	9.9
82.5°	0.0	0.0	2.0	7.9	5.9	19.7	19.7	21.7	7.9	7.9
85°	0.0	0.0	5.9	3.9	11.8	19.7	17.8	11.8	9.9	5.9
87.5°	0.0	0.0	2.0	2.0	3.9	5.9	13.8	11.8	3.9	3.9
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°
5792.5	0°	5792.5	5792.5	5792.5	5792.5	5792.5	5792.5	5792.5	5792.5	5792.5
5757.0	2.5°	5835.9	5810.3	5863.5	5857.6	5832.0	5820.1	5806.3	5794.5	5707.7
5760.9	5°	5837.9	5798.4	5863.5	5851.7	5847.7	5828.0	5816.2	5833.9	5755.0
5776.7	7.5°	5837.9	5798.4	5869.4	5873.4	5867.5	5851.7	5849.7	5861.6	5796.4
5804.3	10°	5877.3	5861.6	5920.7	5926.7	5918.8	5914.8	5905.0	5897.1	5828.0
5899.0	12.5°	5960.2	5928.6	5995.7	6013.5	6007.5	6017.4	5993.7	6005.6	5934.5
5995.7	15°	6060.8	6062.8	6114.1	6153.5	6149.6	6181.2	6145.7	6177.2	6125.9
6106.2	17.5°	6214.7	6236.4	6309.4	6368.6	6390.3	6414.0	6390.3	6400.2	6327.2
5983.9	20°	6052.9	6133.8	6485.0	6593.5	6638.9	6660.6	6621.1	6633.0	6560.0
5833.9	22.5°	5906.9	6011.5	6323.2	6662.6	6802.6	6846.0	6832.2	6830.3	6802.6
5538.0	25°	5691.9	5903.0	6043.1	6402.1	6842.1	6921.0	6928.9	6926.9	6885.5
5356.5	27.5°	5427.5	5474.9	5837.9	6056.9	6565.9	6865.8	6853.9	6796.7	6741.5
4979.7	30°	5090.1	5305.2	5468.9	5818.1	6208.8	6696.1	6696.1	6652.7	6595.5
4845.5	32.5°	4918.5	5196.7	5348.6	5474.9	5808.3	6506.7	6585.6	6540.2	6494.9
4740.9	35°	4827.7	4869.2	5224.3	5338.7	5620.9	6141.7	6461.3	6415.9	6382.4
4462.7	37.5°	4628.5	4725.1	4890.9	5196.7	5283.5	5843.8	6295.6	6271.9	6232.5
4101.7	40°	4184.6	4443.0	4697.5	4987.5	5078.3	5461.0	6094.4	6104.2	6051.0
3717.0	42.5°	3922.2	4097.8	4496.3	4691.6	4936.3	5214.4	5899.0	5914.8	5877.3
3521.7	45°	3614.4	3809.7	4089.9	4445.0	4778.4	4875.1	5553.8	5719.5	5687.9
3133.0	47.5°	3332.3	3490.1	3833.4	4192.5	4561.4	4547.6	5157.2	5468.9	5425.5
2835.1	50°	2931.8	3208.0	3369.8	3699.2	4249.7	4287.2	4735.0	5175.0	5139.5
2408.9	52.5°	2472.1	2819.3	3129.1	3430.9	3934.0	4022.8	4342.4	4875.1	4851.4
1840.7	55°	2160.3	2412.9	2762.1	3004.8	3551.3	3788.0	4048.4	4589.0	4577.2
1513.2	57.5°	1536.9	2024.2	2312.3	2651.6	2939.7	3367.8	3561.1	4007.0	3896.5
838.5	60°	1041.7	1270.6	1621.7	1986.7	2180.1	2608.2	2787.7	3144.8	3115.2
501.1	62.5°	550.4	761.5	1012.1	1195.6	1335.7	1752.0	1826.9	2211.6	2201.8
201.2	65°	242.7	321.6	548.5	643.2	787.2	980.5	1045.6	1183.8	1150.2
98.6	67.5°	126.3	191.4	309.7	380.8	479.4	552.4	605.7	649.1	676.7
65.1	70°	76.9	140.1	191.4	264.4	329.5	388.7	430.1	489.3	524.8
33.5	72.5°	57.2	88.8	132.2	203.2	238.7	307.8	349.2	392.6	424.2
27.6	75°	31.6	59.2	106.5	159.8	191.4	250.6	288.0	317.6	327.5
15.8	77.5°	19.7	45.4	88.8	124.3	149.9	203.2	193.3	221.0	244.6
11.8	80°	13.8	33.5	69.1	102.6	104.6	130.2	153.9	177.6	193.3
7.9	82.5°	9.9	27.6	51.3	78.9	69.1	100.6	120.3	138.1	100.6
5.9	85°	7.9	19.7	25.6	47.4	39.5	71.0	61.2	59.2	39.5
3.9	87.5°	5.9	9.9	17.8	21.7	15.8	15.8	19.7	23.7	19.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
5792.5  
5648.5  
5687.9  
5721.5  
5770.8  
5871.4  
6041.1  
6264.0  
6508.7  
6713.9  
**6822.4**  
6698.1  
6573.8  
6457.4  
6335.1  
6193.0  
6039.1  
5873.4  
5691.9  
5457.1  
5145.4  
4867.2  
4591.0  
3884.7  
3117.2  
2203.8  
1136.4  
676.7  
526.8  
430.1  
321.6  
248.6  
195.3  
73.0  
39.5  
19.7  
0.0

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