

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: P638367

Luminaire Tested: **IFLD-S-SA3B-730-U-LAM-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638367  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3B-730-U-LAM-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens and Visor  
Light Source: (48) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11420.1 lumens  
Efficiency: N/A  
Efficacy: 93.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B3 - U0 - G1

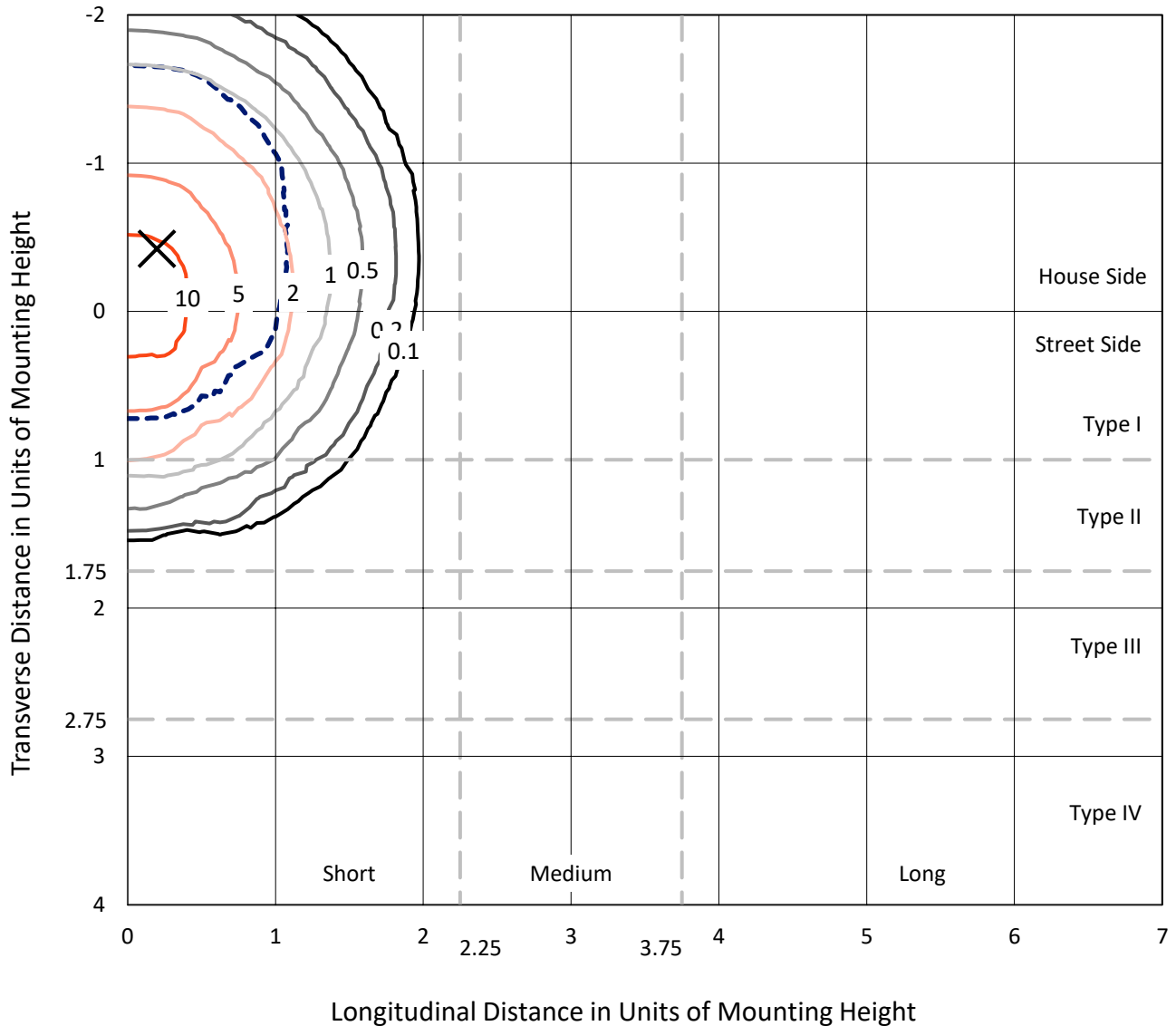
Input Watts (W): 122.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

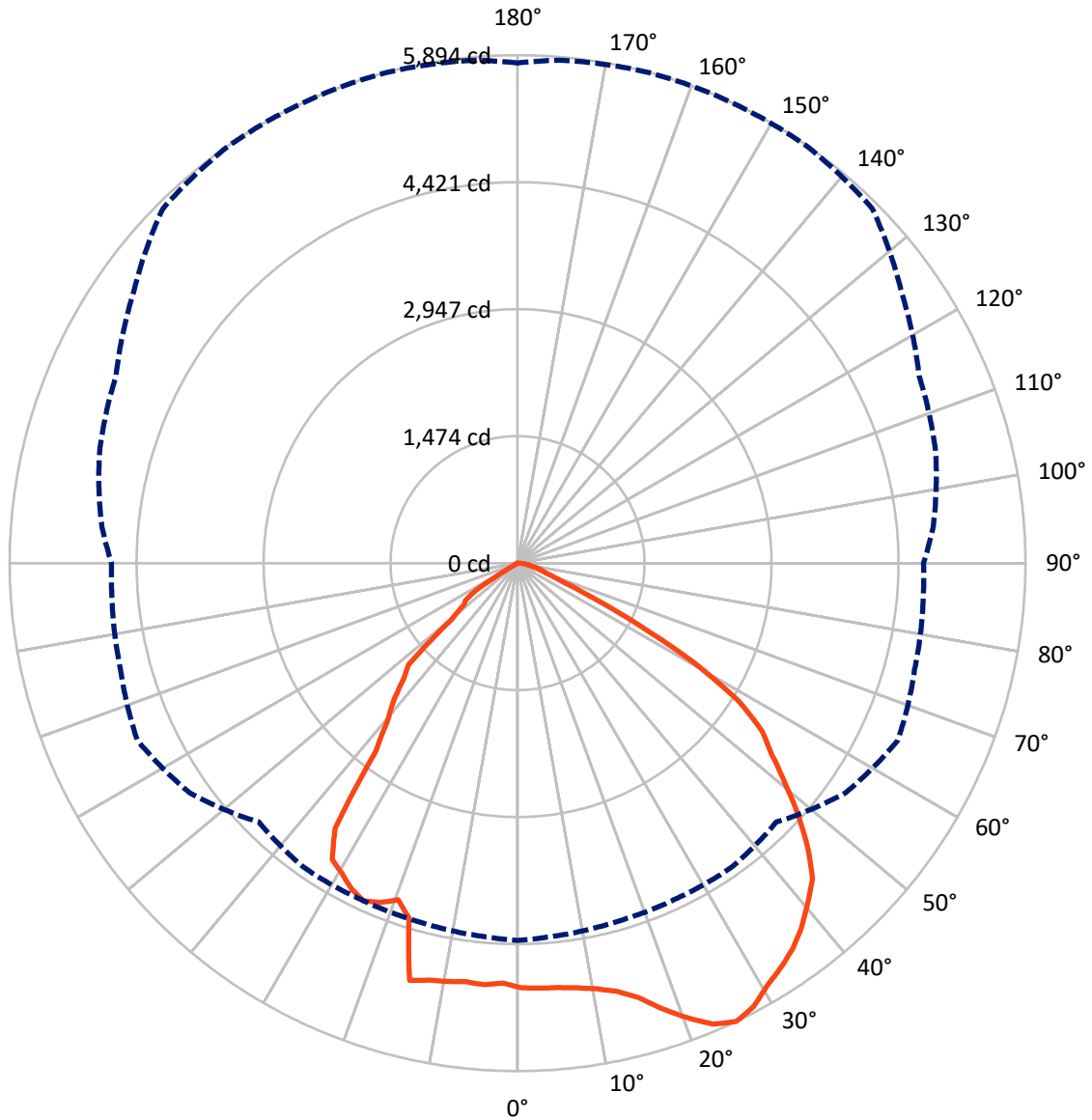
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 12.3 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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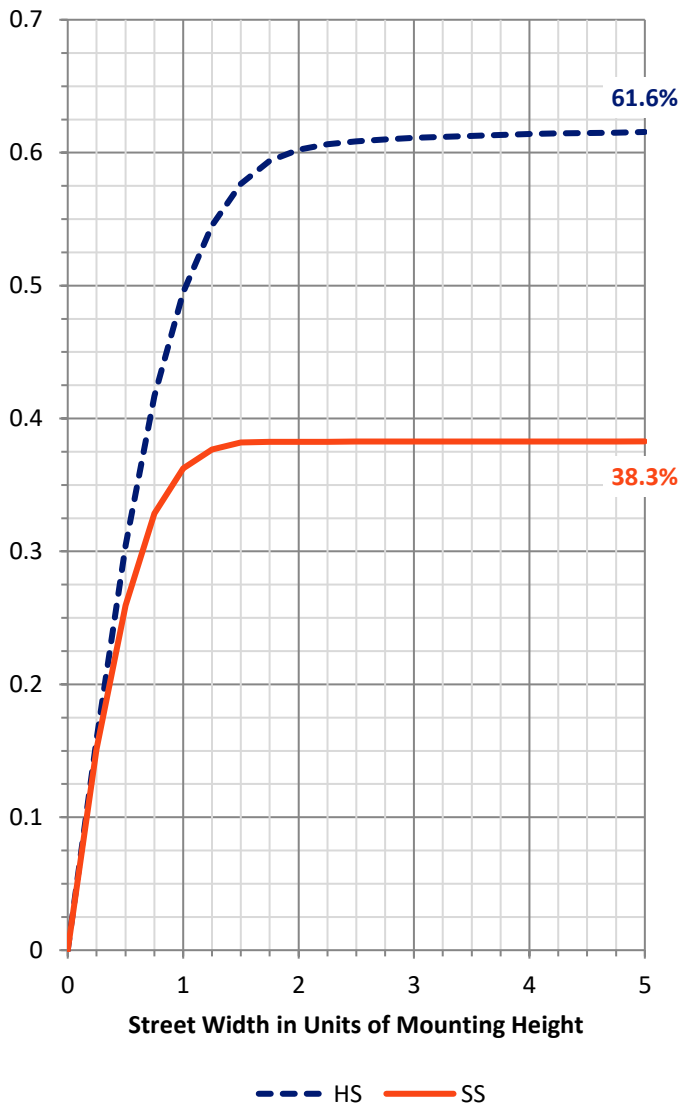
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7070.2	0.0	7070.2
	% Fixture	61.9	0.0	61.9
<b>Street Side</b>	Lumens	4349.9	0.0	4349.9
	% Fixture	38.1	0.0	38.1
<b>Total</b>	Lumens	11420.1	0.0	11420.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	472.7	4.1
10°-20°	1443.5	12.6
20°-30°	2282.1	20.0
30°-40°	2577.8	22.6
40°-50°	2414.1	21.1
50°-60°	1664.4	14.6
60°-70°	447.2	3.9
70°-80°	93.2	0.8
80°-90°	25.2	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°	11420.1	100.0
0°-180°	11420.1	100.0



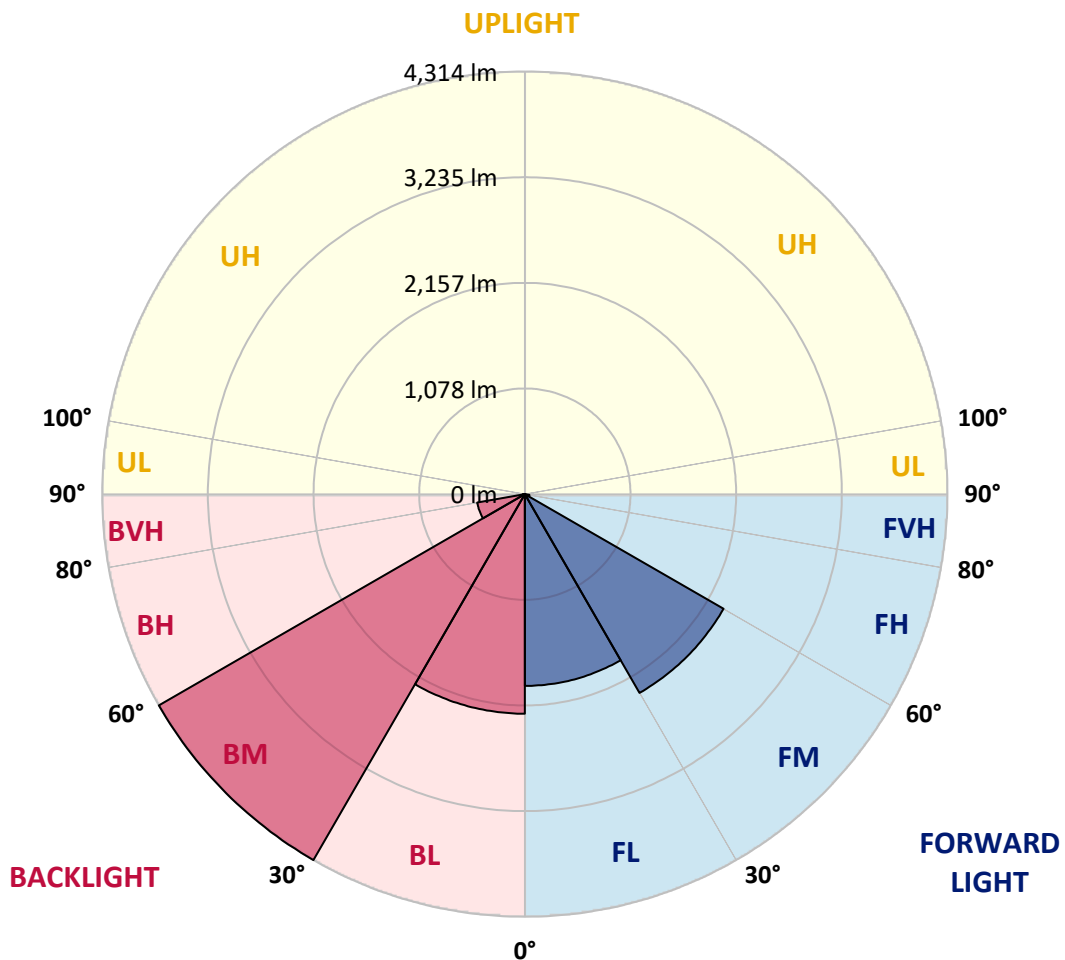
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1957.0	17.1			
FM (30°-60°)	2342.5	20.5			
FH (60°-80°)	46.9	0.4			G0/660
FVH (80°-90°)	3.4	0.0			G0/10
BL (0°-30°)	2241.2	19.6	B3/2500		
BM (30°-60°)	4313.8	37.8	B3/5000		
BH (60°-80°)	493.4	4.3	B1/500		G1/500
BVH (80°-90°)	21.8	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4927.6	4927.6	4927.6	4927.6	4927.6	4927.6	4927.6	4927.6	4927.6	4927.6
2.5°	4949.4	4917.5	4887.3	4877.2	4919.2	4964.5	4936.0	4937.6	4927.6	4946.0
5°	4986.3	4942.7	4922.5	4907.4	4914.2	4961.1	4920.9	4936.0	4919.2	4941.0
7.5°	4972.9	4942.7	4922.5	4894.0	4915.8	4971.2	4932.6	4934.3	4925.9	4946.0
10°	4964.5	4942.7	4917.5	4920.9	4946.0	4993.0	4962.8	4979.6	4967.9	4979.6
12.5°	4984.6	4961.1	4947.7	4947.7	4969.5	5023.2	5008.1	5023.2	5018.2	5028.3
15°	4795.0	4816.8	4944.4	5001.4	5045.1	5098.8	5092.1	5107.2	5110.5	5125.6
17.5°	4044.8	4023.0	4012.9	4306.6	5087.0	5253.2	5248.1	5246.5	5229.7	5217.9
20°	4143.8	4135.4	4123.7	4145.5	4232.7	5333.7	5367.3	5160.9	5100.4	5095.4
22.5°	4301.6	4288.1	4244.5	4246.2	4273.0	4637.2	5201.1	5013.2	4993.0	4981.3
25°	4378.8	4351.9	4316.7	4306.6	4315.0	4247.9	4645.6	4868.8	4769.8	4724.5
27.5°	4242.8	4244.5	4216.0	4242.8	4210.9	3908.8	3739.3	4586.9	4583.5	4563.4
30°	4140.4	4135.4	4101.8	4135.4	3915.5	3578.2	3506.0	4278.1	4242.8	4216.0
32.5°	3826.6	3830.0	3927.3	4058.2	3697.4	3430.5	3212.3	3821.6	4155.5	4140.4
35°	2737.4	2744.1	3089.8	3736.0	3366.7	3136.8	3120.0	3303.0	4017.9	4024.6
37.5°	2635.0	2635.0	2626.6	2732.3	3106.6	3017.6	3051.2	3032.7	3680.6	3697.4
40°	2561.1	2546.0	2534.3	2368.1	2160.0	2933.7	2957.2	2873.3	3479.2	3482.5
42.5°	2472.2	2455.4	2458.8	2151.6	1933.4	2725.6	2660.2	2547.7	3143.5	3146.9
45°	2309.4	2337.9	2358.1	1883.1	1866.3	1946.9	2453.7	2383.2	2916.9	2979.0
47.5°	1174.8	1200.0	1841.1	1732.0	1770.6	1730.4	2072.7	2074.4	2426.9	2633.3
50°	1065.7	1059.0	1060.7	1010.4	1634.7	1399.7	1498.7	1901.5	1943.5	2238.9
52.5°	993.6	991.9	889.5	790.5	1027.1	1231.9	1087.6	1376.2	1445.0	1896.5
55°	735.1	788.8	701.5	743.5	642.8	986.9	981.8	1242.0	1265.5	1520.6
57.5°	6.7	8.4	20.1	565.6	444.8	493.4	678.0	847.6	889.5	1184.9
60°	1.7	3.4	8.4	16.8	288.7	303.8	453.1	490.1	552.2	706.6
62.5°	0.0	0.0	3.4	8.4	15.1	124.2	144.3	157.8	243.4	360.8
65°	0.0	0.0	1.7	5.0	8.4	20.1	35.2	73.8	105.7	130.9
67.5°	0.0	0.0	1.7	3.4	6.7	10.1	20.1	28.5	45.3	77.2
70°	0.0	0.0	1.7	3.4	5.0	8.4	13.4	20.1	26.9	38.6
72.5°	0.0	0.0	1.7	3.4	3.4	10.1	10.1	15.1	20.1	25.2
75°	0.0	0.0	1.7	1.7	3.4	6.7	10.1	11.7	13.4	20.1
77.5°	0.0	0.0	1.7	3.4	5.0	6.7	8.4	13.4	11.7	11.7
80°	0.0	0.0	1.7	5.0	5.0	8.4	10.1	13.4	8.4	8.4
82.5°	0.0	0.0	1.7	6.7	5.0	16.8	16.8	18.5	6.7	6.7
85°	0.0	0.0	5.0	3.4	10.1	16.8	15.1	10.1	8.4	5.0
87.5°	0.0	0.0	1.7	1.7	3.4	5.0	11.7	10.1	3.4	3.4
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°
4927.6	0°	4927.6	4927.6	4927.6	4927.6	4927.6	4927.6	4927.6	4927.6	4927.6
4897.4	2.5°	4964.5	4942.7	4988.0	4983.0	4961.1	4951.1	4939.3	4929.3	4855.4
4900.7	5°	4966.2	4932.6	4988.0	4977.9	4974.6	4957.8	4947.7	4962.8	4895.7
4914.2	7.5°	4966.2	4932.6	4993.0	4996.4	4991.4	4977.9	4976.3	4986.3	4930.9
4937.6	10°	4999.7	4986.3	5036.7	5041.7	5035.0	5031.6	5023.2	5016.5	4957.8
5018.2	12.5°	5070.2	5043.4	5100.4	5115.6	5110.5	5118.9	5098.8	5108.8	5048.4
5100.4	15°	5155.8	5157.5	5201.1	5234.7	5231.4	5258.2	5228.0	5254.9	5211.2
5194.4	17.5°	5286.7	5305.2	5367.3	5417.7	5436.1	5456.3	5436.1	5444.5	5382.4
5090.4	20°	5149.1	5217.9	5516.7	5609.0	5647.6	5666.0	5632.5	5642.5	5580.4
4962.8	22.5°	5024.9	5113.9	5379.0	5667.7	5786.9	5823.8	5812.1	5810.4	5786.9
4711.1	25°	4842.0	5021.6	5140.7	5446.2	5820.5	5887.6	5894.3	5892.6	5857.4
4556.7	27.5°	4617.1	4657.4	4966.2	5152.5	5585.5	5840.6	5830.5	5781.8	5734.9
4236.1	30°	4330.1	4513.0	4652.3	4949.4	5281.7	5696.3	5696.3	5659.3	5610.7
4122.0	32.5°	4184.1	4420.7	4550.0	4657.4	4941.0	5535.1	5602.3	5563.7	5525.1
4033.0	35°	4106.9	4142.1	4444.2	4541.6	4781.6	5224.6	5496.5	5457.9	5429.4
3796.4	37.5°	3937.4	4019.6	4160.6	4420.7	4494.6	4971.2	5355.6	5335.4	5301.8
3489.2	40°	3559.7	3779.6	3996.1	4242.8	4320.0	4645.6	5184.4	5192.8	5147.4
3162.0	42.5°	3336.5	3485.9	3824.9	3991.1	4199.2	4435.8	5018.2	5031.6	4999.7
2995.8	45°	3074.7	3240.9	3479.2	3781.3	4064.9	4147.2	4724.5	4865.5	4838.6
2665.2	47.5°	2834.7	2969.0	3261.0	3566.5	3880.3	3868.6	4387.2	4652.3	4615.4
2411.8	50°	2494.0	2729.0	2866.6	3146.9	3615.1	3647.0	4028.0	4402.3	4372.1
2049.2	52.5°	2102.9	2398.3	2661.8	2918.6	3346.6	3422.1	3694.0	4147.2	4127.0
1565.9	55°	1837.8	2052.6	2349.7	2556.1	3021.0	3222.4	3443.9	3903.8	3893.7
1287.3	57.5°	1307.4	1722.0	1967.0	2255.7	2500.7	2864.9	3029.4	3408.7	3314.7
713.3	60°	886.2	1080.8	1379.6	1690.1	1854.6	2218.8	2371.5	2675.3	2650.1
426.3	62.5°	468.3	647.8	861.0	1017.1	1136.2	1490.4	1554.1	1881.4	1873.0
171.2	65°	206.4	273.6	466.6	547.1	669.7	834.1	889.5	1007.0	978.5
83.9	67.5°	107.4	162.8	263.5	323.9	407.8	469.9	515.2	552.2	575.7
55.4	70°	65.5	119.2	162.8	224.9	280.3	330.6	365.9	416.2	446.4
28.5	72.5°	48.7	75.5	112.4	172.9	203.1	261.8	297.1	334.0	360.8
23.5	75°	26.9	50.3	90.6	135.9	162.8	213.1	245.0	270.2	278.6
13.4	77.5°	16.8	38.6	75.5	105.7	127.6	172.9	164.5	188.0	208.1
10.1	80°	11.7	28.5	58.7	87.3	89.0	110.8	130.9	151.0	164.5
6.7	82.5°	8.4	23.5	43.6	67.1	58.7	85.6	102.4	117.5	85.6
5.0	85°	6.7	16.8	21.8	40.3	33.6	60.4	52.0	50.3	33.6
3.4	87.5°	5.0	8.4	15.1	18.5	13.4	13.4	16.8	20.1	16.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
4927.6  
4805.1  
4838.6  
4867.2  
4909.1  
4994.7  
5139.0  
5328.7  
5536.8  
5711.4  
**5803.7**  
5697.9  
5592.2  
5493.2  
5389.1  
5268.3  
5137.4  
4996.4  
4842.0  
4642.3  
4377.1  
4140.4  
3905.5  
3304.6  
2651.8  
1874.7  
966.7  
575.7  
448.1  
365.9  
273.6  
211.5  
166.2  
62.1  
33.6  
16.8  
0.0

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