

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: P638202

Luminaire Tested: **IFLD-M-SA4A-750-U-77-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638202  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4A-750-U-77-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor  
Light Source: (64) 5000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14530.1 lumens  
Efficiency: N/A  
Efficacy: 113.0 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G2

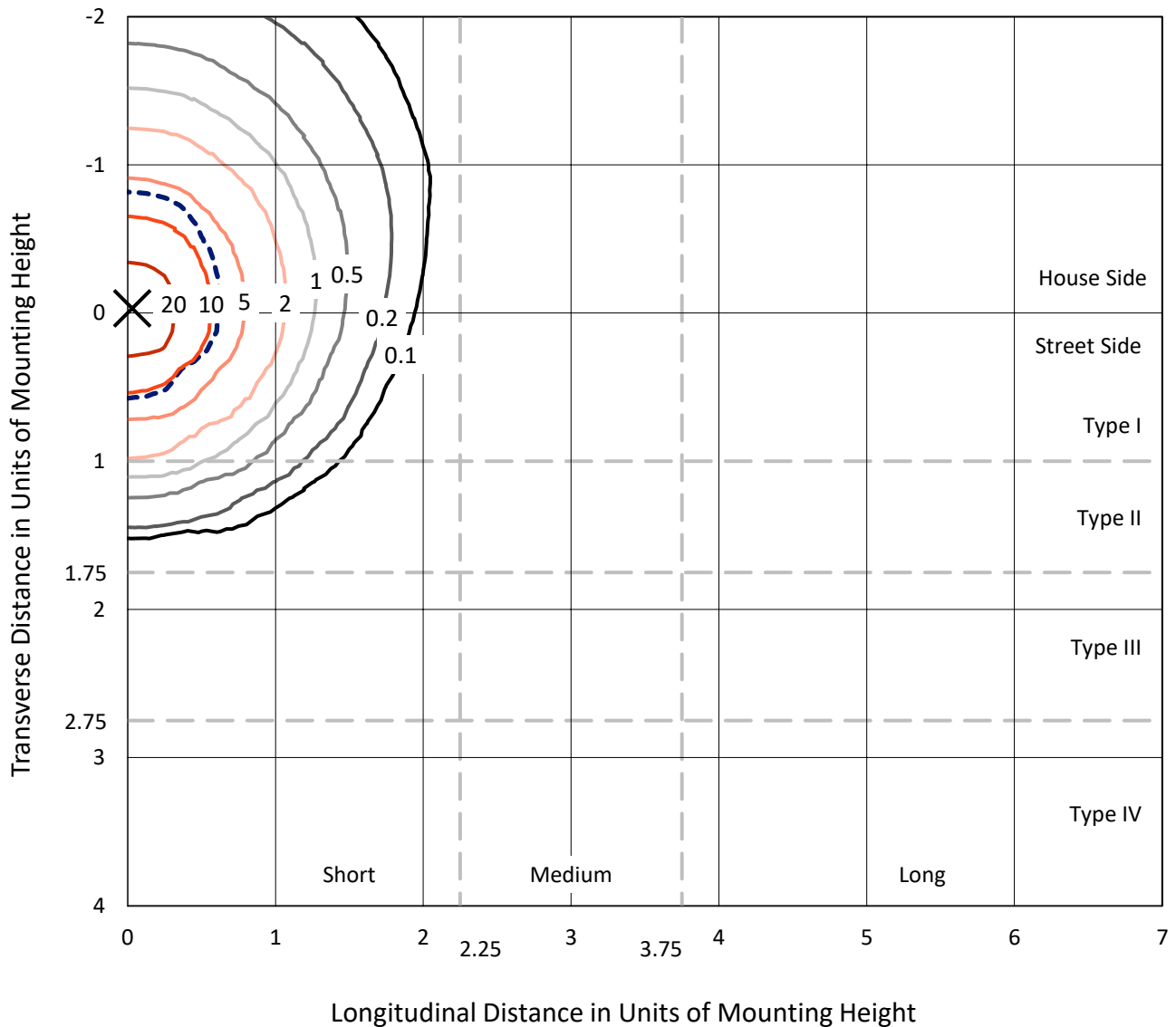
Input Watts (W): 128.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

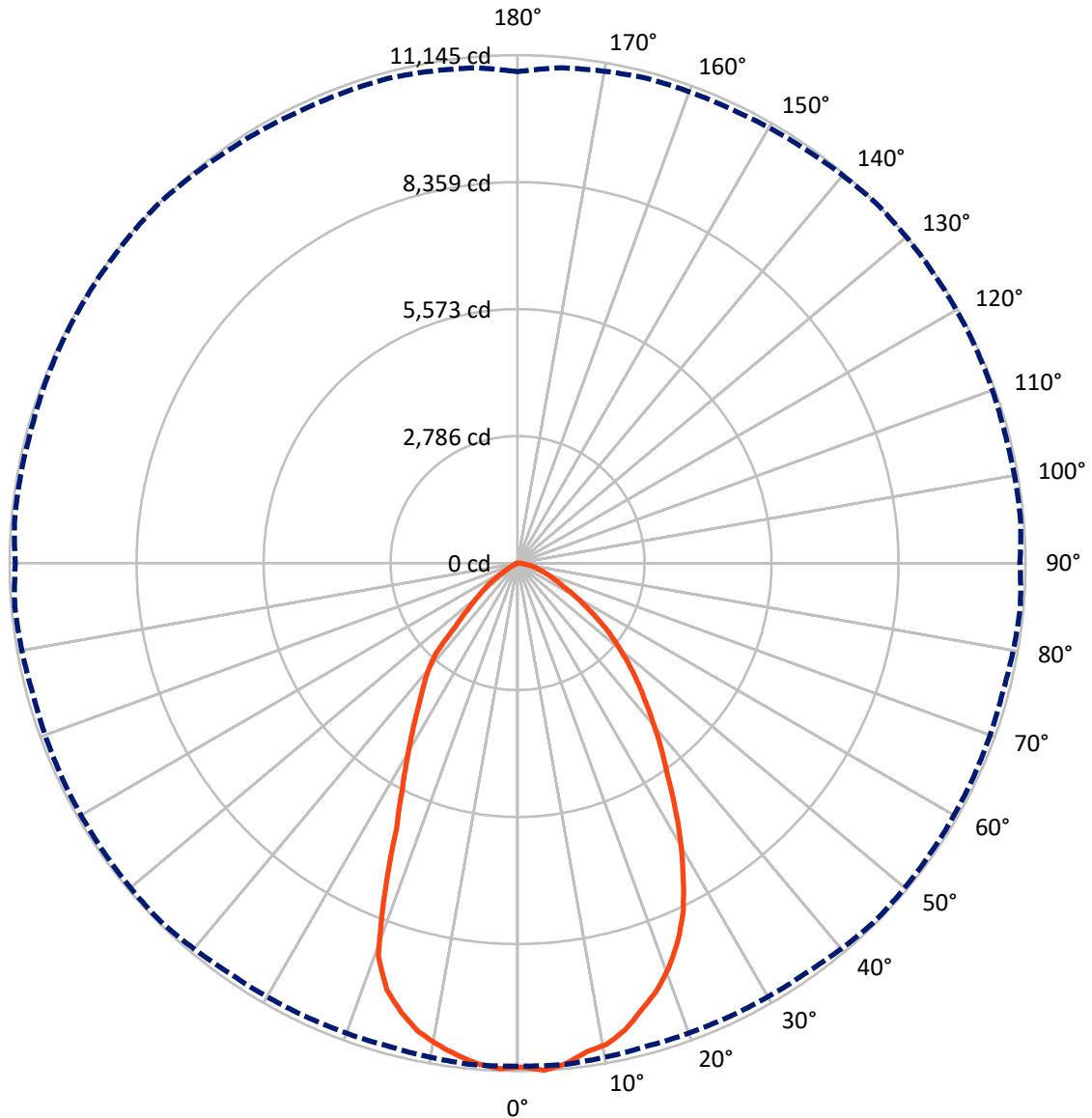
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 27.6 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 135-Deg Lateral    - - - Horizontal Cone Through 2.5-Deg Vertical

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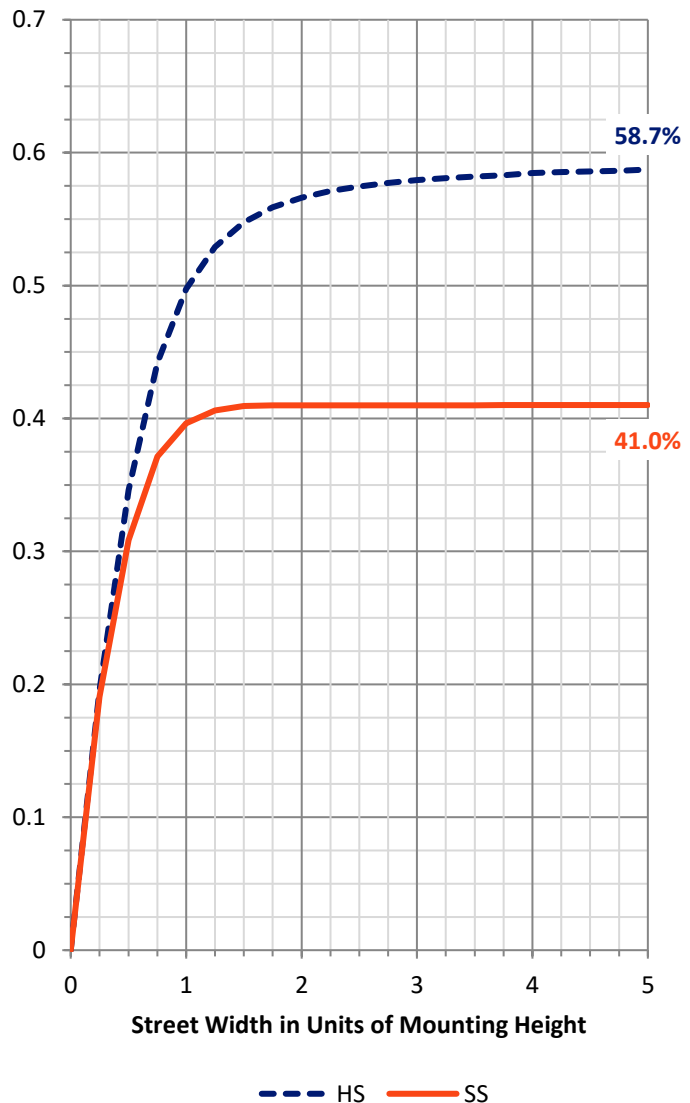
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8605.5	0.0	8605.5
	% Fixture	59.2	0.0	59.2
<b>Street Side</b>	Lumens	5924.6	0.0	5924.6
	% Fixture	40.8	0.0	40.8
<b>Total</b>	Lumens	14530.1	0.0	14530.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1037.0	7.1
10°-20°	2780.8	19.1
20°-30°	3391.3	23.3
30°-40°	3096.2	21.3
40°-50°	2237.6	15.4
50°-60°	1221.7	8.4
60°-70°	505.1	3.5
70°-80°	204.6	1.4
80°-90°	55.6	0.4
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°	14530.1	100.0
0°-180°	14530.1	100.0



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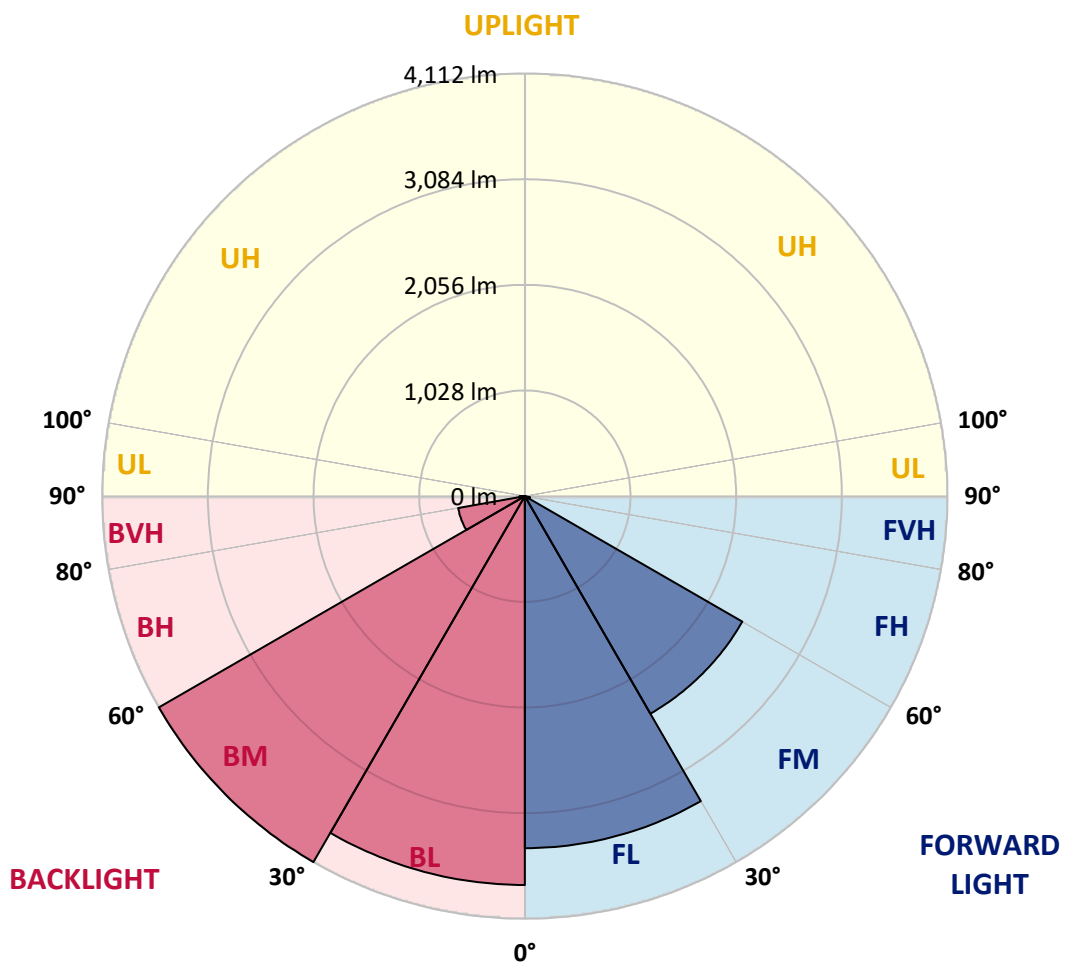
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3425.3	23.6			
FM (30°-60°)	2443.7	16.8			
FH (60°-80°)	51.2	0.4			G0/660
FVH (80°-90°)	4.5	0.0			G0/10
BL (0°-30°)	3783.8	26.0	B4/5000		
BM (30°-60°)	4111.9	28.3	B3/5000		
BH (60°-80°)	658.5	4.5	B2/1000		G2/1000
BVH (80°-90°)	51.2	0.4			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°	11057.4	11057.4	11057.4	11057.4	11057.4	11057.4	11057.4	11057.4	11057.4	11057.4
2.5°	11036.9	11051.2	10973.5	10981.7	10996.0	11100.3	11073.7	11049.2	11014.4	11073.7
5°	11022.6	11030.8	10948.9	10920.3	10932.5	11026.7	10940.7	10940.7	10932.5	10922.3
7.5°	10912.1	10916.2	10852.7	10801.6	10834.3	10877.3	10813.9	10844.6	10799.5	10834.3
10°	10746.3	10719.7	10644.0	10629.7	10666.5	10707.5	10664.5	10693.1	10652.2	10678.8
12.5°	10502.9	10461.9	10400.5	10382.1	10445.6	10500.8	10466.0	10449.7	10396.5	10461.9
15°	9563.7	9533.0	9672.1	9915.6	10134.5	10181.6	10144.8	10161.1	10050.7	10069.1
17.5°	7871.5	7814.2	7963.6	8540.6	9363.2	9796.9	9764.2	9657.8	9494.1	9530.9
20°	7153.3	7136.9	7120.6	7257.7	7832.6	9148.3	9193.3	8923.2	8690.0	8638.8
22.5°	6748.2	6742.0	6725.7	6756.4	6907.8	7752.8	8268.5	8018.8	7863.3	7849.0
25°	6377.8	6367.6	6318.5	6357.4	6357.4	6406.5	7067.4	7218.8	7081.7	7065.3
27.5°	6001.3	5982.9	5974.7	5993.2	5899.0	5567.6	5735.3	6474.0	6402.4	6406.5
30°	5594.2	5588.0	5565.5	5604.4	5313.8	4902.6	4796.2	5798.8	5813.1	5809.0
32.5°	4988.5	5015.1	5117.4	5160.4	4681.6	4341.9	4163.9	5017.1	5309.7	5303.6
35°	3623.7	3623.7	3957.2	4577.2	4102.5	3846.7	3750.6	4253.9	4812.5	4833.0
37.5°	2979.2	2989.4	3054.9	3337.3	3539.8	3449.8	3421.2	3580.8	4174.1	4206.9
40°	2680.4	2680.4	2680.4	2563.8	2557.7	3108.1	3091.7	3040.6	3605.3	3676.9
42.5°	2408.3	2414.4	2418.5	2123.9	1960.2	2686.6	2649.8	2572.0	3095.8	3179.7
45°	2128.0	2138.2	2150.5	1776.1	1704.4	1933.6	2242.6	2156.6	2592.5	2700.9
47.5°	1299.3	1315.7	1593.9	1506.0	1514.1	1491.6	1829.3	1814.9	2125.9	2279.4
50°	877.8	883.9	910.5	955.5	1299.3	1172.4	1295.2	1501.9	1614.4	1847.7
52.5°	736.6	746.8	681.4	620.0	853.2	916.7	904.4	1115.1	1160.2	1448.7
55°	517.7	550.4	519.7	513.6	484.9	712.1	685.5	857.3	886.0	1100.8
57.5°	53.2	61.4	106.4	382.6	317.2	403.1	489.0	628.2	656.8	812.3
60°	4.1	4.1	10.2	53.2	231.2	241.4	337.6	386.7	442.0	566.8
62.5°	0.0	2.0	4.1	8.2	36.8	128.9	169.8	202.6	266.0	366.3
65°	0.0	0.0	2.0	6.1	8.2	49.1	65.5	106.4	145.3	227.1
67.5°	0.0	0.0	2.0	4.1	6.1	12.3	22.5	38.9	77.8	128.9
70°	0.0	0.0	2.0	4.1	6.1	10.2	16.4	24.6	34.8	69.6
72.5°	0.0	0.0	2.0	2.0	4.1	10.2	12.3	16.4	24.6	34.8
75°	0.0	0.0	2.0	2.0	6.1	12.3	10.2	12.3	16.4	22.5
77.5°	0.0	0.0	2.0	4.1	6.1	12.3	10.2	12.3	12.3	14.3
80°	0.0	0.0	2.0	4.1	8.2	14.3	12.3	12.3	10.2	10.2
82.5°	0.0	0.0	2.0	6.1	8.2	18.4	18.4	16.4	8.2	6.1
85°	0.0	0.0	4.1	8.2	12.3	20.5	20.5	16.4	6.1	4.1
87.5°	0.0	0.0	4.1	6.1	10.2	14.3	20.5	16.4	6.1	2.0
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°
11057.4	0°	11057.4	11057.4	11057.4	11057.4	11057.4	11057.4	11057.4	11057.4	11057.4
11022.6	2.5°	11077.8	11065.5	11106.5	11122.8	11145.3	11059.4	11006.2	11008.3	10910.0
10897.8	5°	10963.2	10965.3	11018.5	11014.4	11036.9	10989.8	10969.4	10934.6	10848.7
10740.2	7.5°	10818.0	10799.5	10850.7	10889.6	10832.3	10865.0	10818.0	10834.3	10783.2
10601.1	10°	10705.4	10662.5	10709.5	10736.1	10738.2	10705.4	10660.4	10617.4	10599.0
10384.2	12.5°	10455.8	10400.5	10480.3	10517.2	10511.0	10447.6	10396.5	10406.7	10347.3
10003.6	15°	10112.0	10114.1	10171.4	10206.2	10173.4	10159.1	10163.2	10138.6	10087.5
9477.7	17.5°	9586.2	9616.9	9768.3	9852.2	9870.6	9842.0	9827.6	9799.0	9747.8
8638.8	20°	8710.4	8894.6	9164.7	9424.5	9475.7	9467.5	9416.4	9404.1	9375.4
7808.1	22.5°	7941.1	8078.2	8391.2	8796.4	9005.1	9025.5	8964.2	8945.7	8915.0
7065.3	25°	7145.1	7292.5	7574.8	8014.7	8446.5	8534.5	8524.2	8469.0	8436.3
6406.5	27.5°	6474.0	6621.3	6877.1	7274.0	7736.5	8018.8	8045.4	7957.5	7955.4
5819.2	30°	5868.3	6070.9	6265.3	6588.6	7036.7	7460.2	7505.3	7443.9	7450.0
5281.1	32.5°	5393.6	5561.4	5727.2	5944.0	6316.4	6809.6	6985.5	6928.2	6905.7
4833.0	35°	4908.7	5023.3	5193.1	5391.6	5645.3	6134.3	6439.2	6396.2	6373.7
4227.3	37.5°	4356.2	4552.7	4675.4	4898.5	5096.9	5485.7	5915.4	5909.3	5862.2
3711.7	40°	3789.5	3996.1	4182.3	4407.4	4560.9	4869.8	5346.6	5344.5	5350.7
3177.7	42.5°	3275.9	3466.2	3691.2	3936.8	4084.1	4309.2	4820.7	4849.4	4884.1
2737.7	45°	2811.4	2983.3	3192.0	3490.7	3668.7	3797.6	4251.9	4382.8	4380.8
2344.9	47.5°	2394.0	2555.6	2731.6	3022.2	3249.3	3365.9	3742.4	3928.6	3916.3
1923.4	50°	2009.3	2152.5	2336.7	2547.4	2852.3	2954.6	3235.0	3480.5	3462.1
1532.6	52.5°	1616.5	1814.9	1970.4	2162.8	2484.0	2584.3	2801.2	3040.6	3026.2
1149.9	55°	1260.4	1452.8	1641.0	1806.7	2076.8	2226.2	2381.7	2627.2	2623.2
900.3	57.5°	953.5	1164.3	1342.3	1499.8	1714.7	1898.8	2023.6	2246.7	2275.3
615.9	60°	705.9	867.6	1059.9	1235.9	1405.7	1596.0	1679.9	1898.8	1911.1
421.5	62.5°	480.8	658.9	847.1	1006.7	1133.6	1330.0	1405.7	1585.8	1608.3
270.1	65°	333.5	448.1	663.0	777.5	933.0	1100.8	1176.5	1319.8	1364.8
155.5	67.5°	221.0	319.2	517.7	622.0	775.5	890.1	986.2	1102.9	1152.0
98.2	70°	120.7	235.3	370.4	491.1	624.1	734.6	828.7	922.8	965.8
45.0	72.5°	81.8	157.6	257.8	388.8	503.4	611.8	695.7	765.3	767.3
26.6	75°	40.9	106.4	196.4	300.8	392.9	499.3	575.0	615.9	566.8
16.4	77.5°	24.6	77.8	159.6	241.4	319.2	403.1	446.1	468.6	388.8
12.3	80°	14.3	55.2	124.8	192.3	221.0	296.7	337.6	343.8	259.9
8.2	82.5°	10.2	40.9	98.2	141.2	135.0	208.7	253.7	245.5	165.7
6.1	85°	6.1	28.6	61.4	88.0	81.8	137.1	147.3	151.4	96.2
4.1	87.5°	4.1	16.4	32.7	47.1	38.9	59.3	59.3	71.6	47.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
11057.4
10783.2
10828.2
10697.2
10517.2
10296.2
10036.3
9725.3
9310.0
8906.9
8401.5
7951.3
7419.3
6907.8
6343.0
5901.1
5350.7
4865.7
4384.9
3920.4
3478.4
3056.9
2633.4
2263.0
1929.5
1612.4
1354.5
1145.8
949.4
748.9
530.0
374.4
243.5
153.5
88.0
40.9
0.0

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