

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: P638283

Luminaire Tested: **IFLD-S-SA3E-830-U-77-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638283  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3E-830-U-77-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor  
Light Source: (48) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16485.9 lumens  
Efficiency: N/A  
Efficacy: 71.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G2

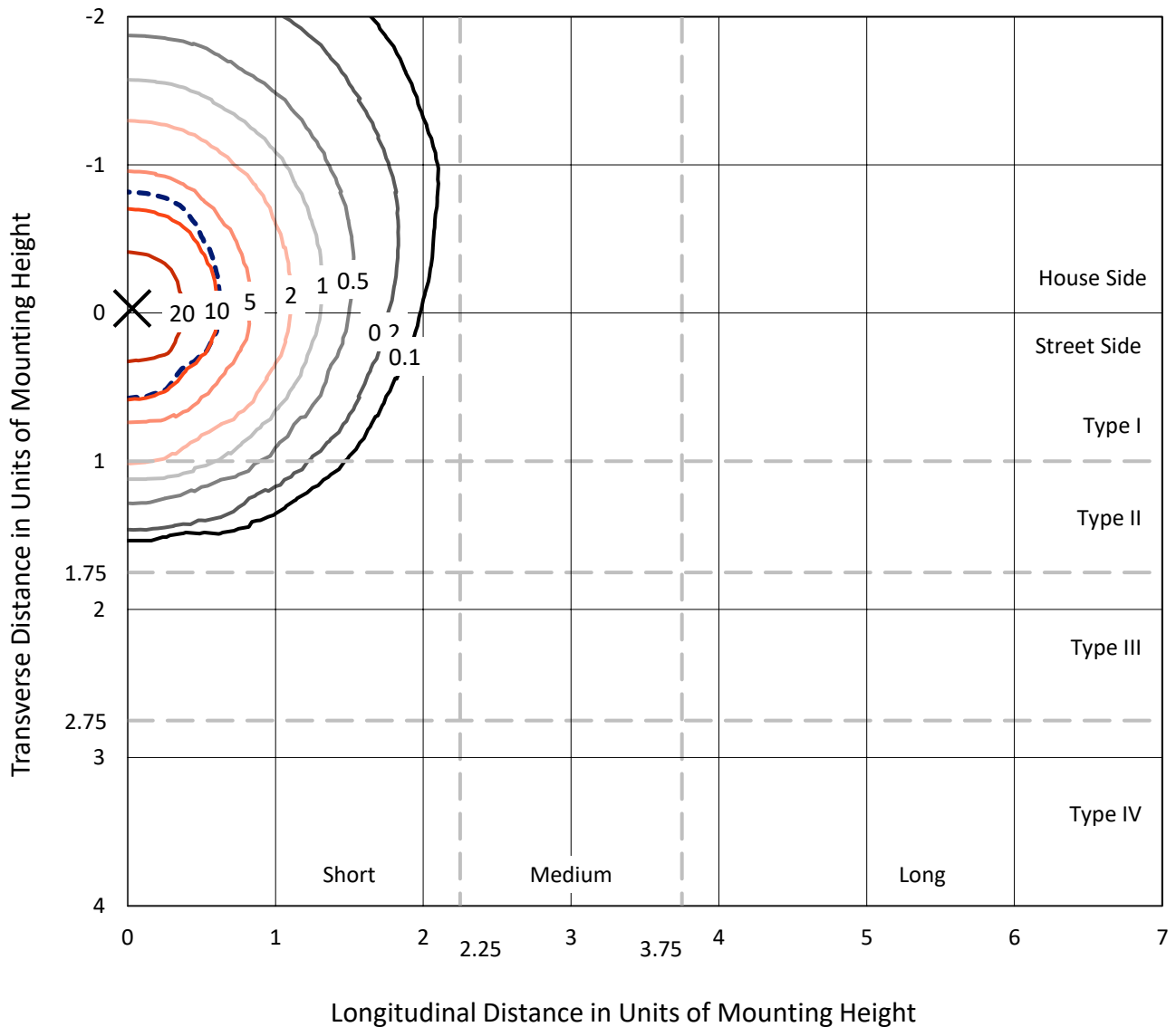
Input Watts (W): 232.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

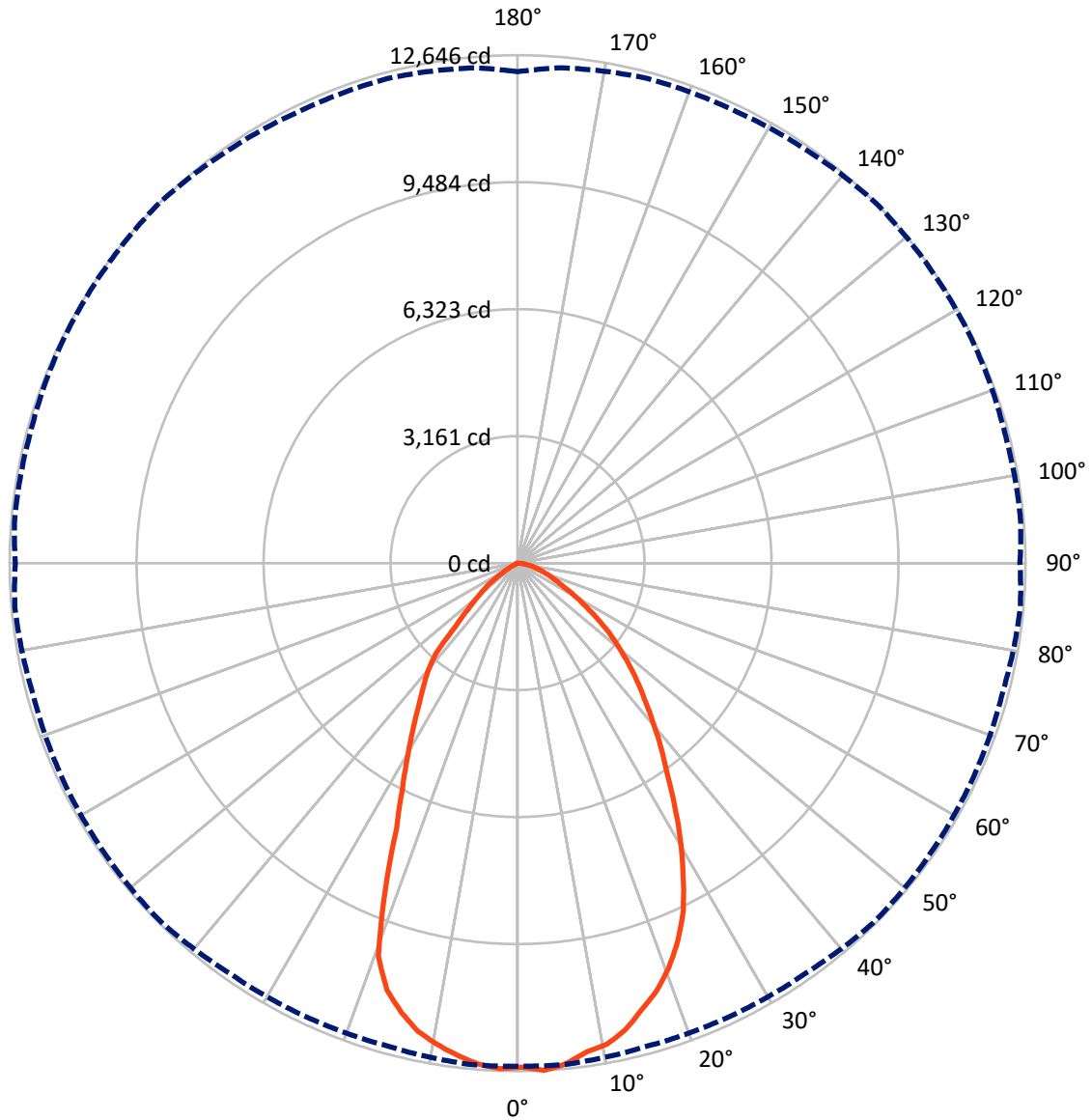
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 31.4 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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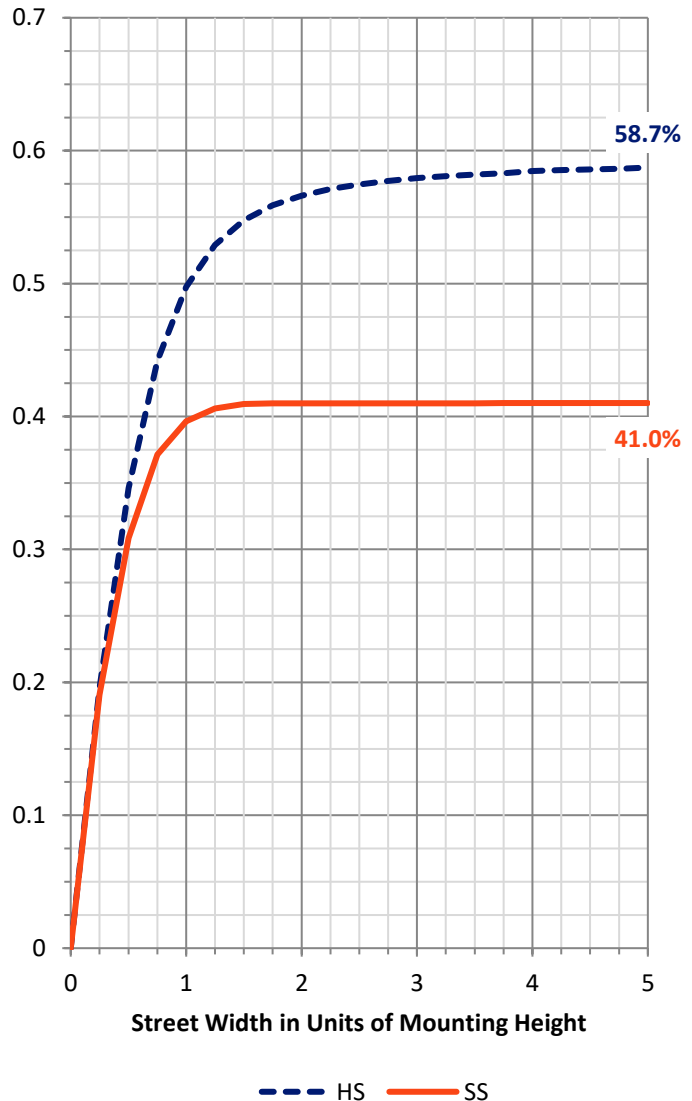
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9763.8	0.0	9763.8
	% Fixture	59.2	0.0	59.2
<b>Street Side</b>	Lumens	6722.1	0.0	6722.1
	% Fixture	40.8	0.0	40.8
<b>Total</b>	Lumens	16485.9	0.0	16485.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1176.6	7.1
10°-20°	3155.1	19.1
20°-30°	3847.8	23.3
30°-40°	3513.0	21.3
40°-50°	2538.8	15.4
50°-60°	1386.2	8.4
60°-70°	573.1	3.5
70°-80°	232.1	1.4
80°-90°	63.1	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°	16485.9	100.0
0°-180°	16485.9	100.0



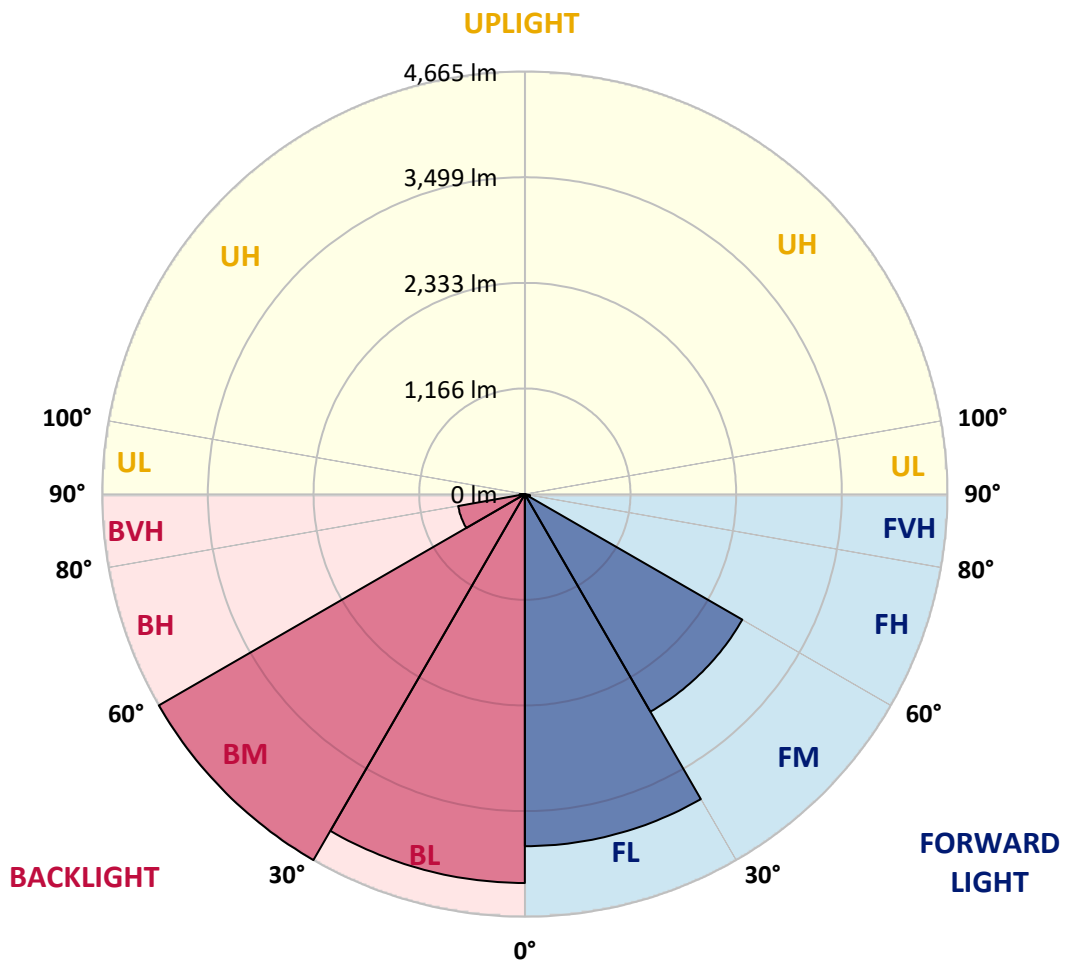
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3886.3	23.6			
FM (30°-60°)	2772.6	16.8			
FH (60°-80°)	58.1	0.4			G0/660
FVH (80°-90°)	5.1	0.0			G0/10
BL (0°-30°)	4293.2	26.0	B4/5000		
BM (30°-60°)	4665.4	28.3	B3/5000		
BH (60°-80°)	747.2	4.5	B2/1000		G2/1000
BVH (80°-90°)	58.1	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°	12545.8	12545.8	12545.8	12545.8	12545.8	12545.8	12545.8	12545.8	12545.8	12545.8
2.5°	12522.5	12538.8	12450.6	12459.9	12476.1	12594.5	12564.3	12536.5	12497.0	12564.3
5°	12506.3	12515.6	12422.7	12390.2	12404.1	12510.9	12413.4	12413.4	12404.1	12392.5
7.5°	12380.9	12385.6	12313.6	12255.6	12292.7	12341.5	12269.5	12304.3	12253.2	12292.7
10°	12192.9	12162.7	12076.8	12060.5	12102.3	12148.8	12100.0	12132.5	12086.1	12116.3
12.5°	11916.6	11870.2	11800.5	11779.6	11851.6	11914.3	11874.8	11856.2	11795.9	11870.2
15°	10851.0	10816.2	10974.1	11250.3	11498.7	11552.1	11510.3	11528.9	11403.5	11424.4
17.5°	8931.1	8866.1	9035.5	9690.2	10623.5	11115.7	11078.5	10957.8	10772.1	10813.9
20°	8116.2	8097.6	8079.1	8234.6	8887.0	10379.7	10430.8	10124.4	9859.7	9801.7
22.5°	7656.5	7649.6	7631.0	7665.8	7837.6	8796.4	9381.5	9098.2	8921.8	8905.5
25°	7236.3	7224.7	7169.0	7213.1	7213.1	7268.8	8018.7	8190.5	8034.9	8016.4
27.5°	6809.2	6788.3	6779.0	6799.9	6693.1	6317.0	6507.4	7345.4	7264.2	7268.8
30°	6347.2	6340.2	6314.7	6358.8	6029.1	5562.5	5441.8	6579.3	6595.6	6590.9
32.5°	5660.0	5690.2	5806.2	5855.0	5311.7	4926.4	4724.4	5692.5	6024.5	6017.5
35°	4111.5	4111.5	4489.9	5193.3	4654.7	4364.5	4255.4	4826.5	5460.3	5483.5
37.5°	3380.2	3391.8	3466.1	3786.5	4016.3	3914.2	3881.7	4062.7	4736.0	4773.1
40°	3041.3	3041.3	3041.3	2908.9	2902.0	3526.5	3507.9	3449.8	4090.6	4171.9
42.5°	2732.5	2739.4	2744.1	2409.8	2224.1	3048.2	3006.4	2918.2	3512.5	3607.7
45°	2414.4	2426.0	2440.0	2015.1	1933.9	2193.9	2544.4	2446.9	2941.4	3064.5
47.5°	1474.2	1492.8	1808.5	1708.7	1718.0	1692.4	2075.5	2059.2	2412.1	2586.2
50°	996.0	1002.9	1033.1	1084.2	1474.2	1330.3	1469.6	1704.0	1831.7	2096.4
52.5°	835.8	847.4	773.1	703.4	968.1	1040.1	1026.1	1265.3	1316.3	1643.7
55°	587.4	624.5	589.7	582.7	550.2	807.9	777.7	972.7	1005.2	1249.0
57.5°	60.4	69.6	120.7	434.1	359.8	457.3	554.9	712.7	745.2	921.7
60°	4.6	4.6	11.6	60.4	262.3	273.9	383.1	438.8	501.5	643.1
62.5°	0.0	2.3	4.6	9.3	41.8	146.3	192.7	229.8	301.8	415.6
65°	0.0	0.0	2.3	7.0	9.3	55.7	74.3	120.7	164.8	257.7
67.5°	0.0	0.0	2.3	4.6	7.0	13.9	25.5	44.1	88.2	146.3
70°	0.0	0.0	2.3	4.6	7.0	11.6	18.6	27.9	39.5	78.9
72.5°	0.0	0.0	2.3	2.3	4.6	11.6	13.9	18.6	27.9	39.5
75°	0.0	0.0	2.3	2.3	7.0	13.9	11.6	13.9	18.6	25.5
77.5°	0.0	0.0	2.3	4.6	7.0	13.9	11.6	13.9	13.9	16.3
80°	0.0	0.0	2.3	4.6	9.3	16.3	13.9	13.9	11.6	11.6
82.5°	0.0	0.0	2.3	7.0	9.3	20.9	20.9	18.6	9.3	7.0
85°	0.0	0.0	4.6	9.3	13.9	23.2	23.2	18.6	7.0	4.6
87.5°	0.0	0.0	4.6	7.0	11.6	16.3	23.2	18.6	7.0	2.3
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°
12545.8	0°	12545.8	12545.8	12545.8	12545.8	12545.8	12545.8	12545.8	12545.8	12545.8
12506.3	2.5°	12569.0	12555.0	12601.5	12620.0	12645.6	12548.1	12487.7	12490.0	12378.6
12364.7	5°	12439.0	12441.3	12501.6	12497.0	12522.5	12469.1	12445.9	12406.5	12309.0
12185.9	7.5°	12274.1	12253.2	12311.3	12355.4	12290.4	12327.5	12274.1	12292.7	12234.7
12028.0	10°	12146.4	12097.7	12151.1	12181.3	12183.6	12146.4	12095.4	12046.6	12025.7
11782.0	12.5°	11863.2	11800.5	11891.1	11932.9	11925.9	11853.9	11795.9	11807.5	11740.2
11350.1	15°	11473.2	11475.5	11540.5	11580.0	11542.8	11526.6	11531.2	11503.4	11445.3
10753.5	17.5°	10876.5	10911.4	11083.2	11178.3	11199.2	11166.7	11150.5	11118.0	11059.9
9801.7	20°	9882.9	10091.9	10398.3	10693.1	10751.2	10741.9	10683.9	10669.9	10637.4
8859.1	22.5°	9010.0	9165.5	9520.7	9980.4	10217.2	10240.4	10170.8	10149.9	10115.1
8016.4	25°	8106.9	8274.1	8594.4	9093.6	9583.4	9683.3	9671.7	9609.0	9571.8
7268.8	27.5°	7345.4	7512.6	7802.8	8253.2	8777.8	9098.2	9128.4	9028.6	9026.3
6602.5	30°	6658.3	6888.1	7108.6	7475.4	7983.9	8464.4	8515.5	8445.9	8452.8
5992.0	32.5°	6119.7	6310.0	6498.1	6744.2	7166.7	7726.2	7925.8	7860.8	7835.3
5483.5	35°	5569.4	5699.4	5892.1	6117.3	6405.2	6960.1	7306.0	7257.2	7231.7
4796.4	37.5°	4942.6	5165.5	5304.8	5557.8	5783.0	6224.1	6711.7	6704.7	6651.3
4211.3	40°	4299.5	4534.0	4745.3	5000.7	5174.8	5525.3	6066.3	6063.9	6070.9
3605.4	42.5°	3716.8	3932.7	4188.1	4466.7	4633.8	4889.2	5469.6	5502.1	5541.6
3106.3	45°	3189.8	3384.8	3621.6	3960.6	4162.6	4308.8	4824.2	4972.8	4970.5
2660.5	47.5°	2716.2	2899.6	3099.3	3429.0	3686.6	3819.0	4246.1	4457.4	4443.5
2182.3	50°	2279.8	2442.3	2651.2	2890.4	3236.3	3352.3	3670.4	3949.0	3928.1
1738.9	52.5°	1834.0	2059.2	2235.7	2453.9	2818.4	2932.1	3178.2	3449.8	3433.6
1304.7	55°	1430.1	1648.3	1861.9	2049.9	2356.4	2525.9	2702.3	2980.9	2976.2
1021.5	57.5°	1081.9	1321.0	1522.9	1701.7	1945.5	2154.4	2296.0	2549.1	2581.6
698.8	60°	800.9	984.3	1202.6	1402.2	1594.9	1810.8	1906.0	2154.4	2168.3
478.2	62.5°	545.6	747.5	961.1	1142.2	1286.1	1509.0	1594.9	1799.2	1824.8
306.4	65°	378.4	508.4	752.2	882.2	1058.6	1249.0	1334.9	1497.4	1548.5
176.4	67.5°	250.7	362.2	587.4	705.8	879.9	1009.9	1119.0	1251.3	1307.0
111.4	70°	137.0	267.0	420.2	557.2	708.1	833.4	940.2	1047.0	1095.8
51.1	72.5°	92.9	178.8	292.5	441.1	571.1	694.1	789.3	868.3	870.6
30.2	75°	46.4	120.7	222.9	341.3	445.7	566.5	652.4	698.8	643.1
18.6	77.5°	27.9	88.2	181.1	273.9	362.2	457.3	506.1	531.6	441.1
13.9	80°	16.3	62.7	141.6	218.2	250.7	336.6	383.1	390.0	294.8
9.3	82.5°	11.6	46.4	111.4	160.2	153.2	236.8	287.9	278.6	188.0
7.0	85°	7.0	32.5	69.6	99.8	92.9	155.5	167.2	171.8	109.1
4.6	87.5°	4.6	18.6	37.1	53.4	44.1	67.3	67.3	81.3	53.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
12545.8
12234.7
12285.7
12137.2
11932.9
11682.1
11387.3
11034.4
10563.1
10105.8
9532.4
9021.6
8418.0
7837.6
7196.9
6695.4
6070.9
5520.7
4975.1
4448.1
3946.7
3468.4
2987.9
2567.7
2189.2
1829.4
1536.9
1300.1
1077.2
849.7
601.3
424.8
276.3
174.1
99.8
46.4
0.0

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