

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: P637878

Luminaire Tested: **IFLD-S-SA6A-735-U-66-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637878  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6A-735-U-66-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor  
Light Source: (96) 3500K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22446.5 lumens  
Efficiency: N/A  
Efficacy: 118.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G2

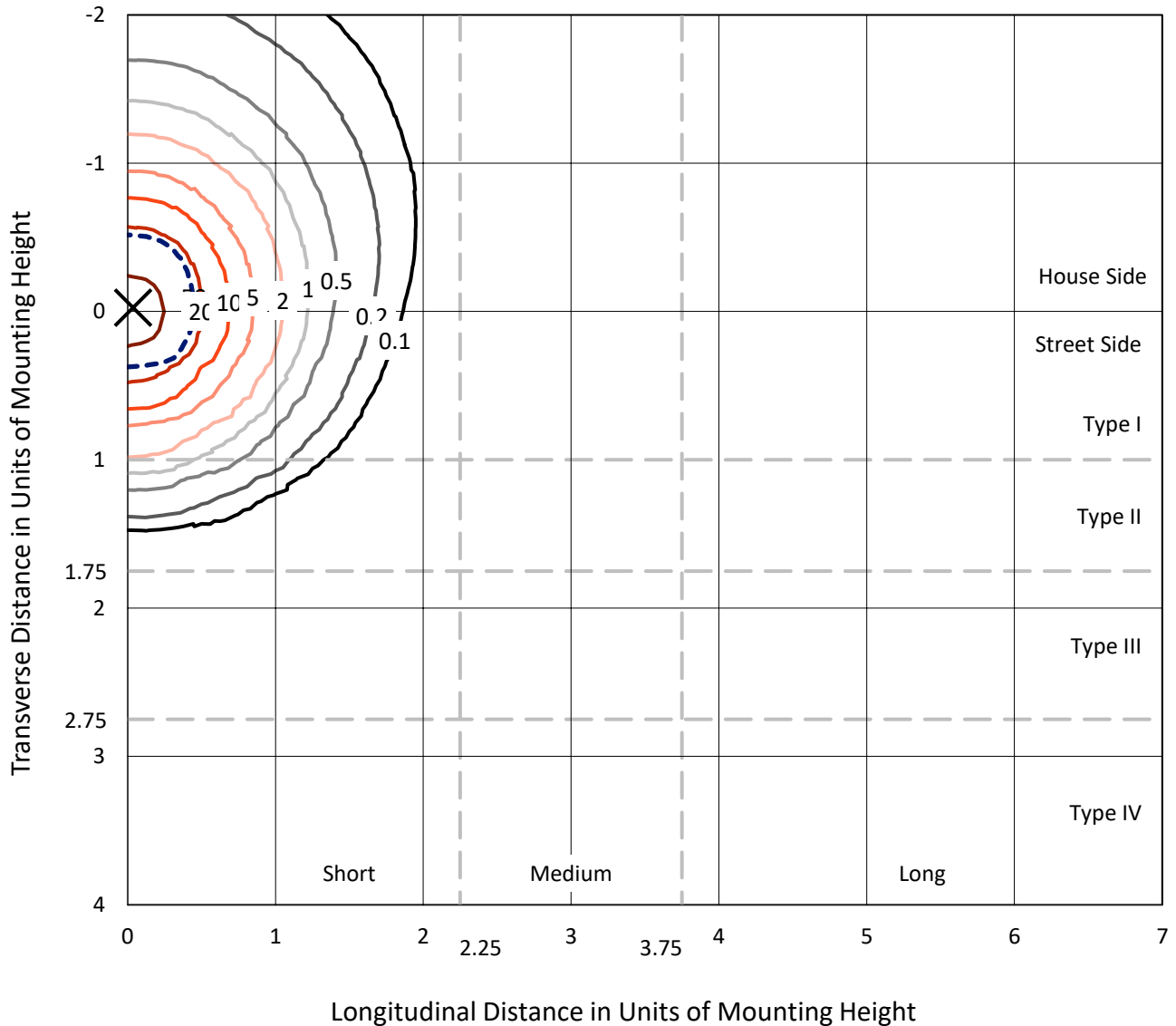
Input Watts (W): 189.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

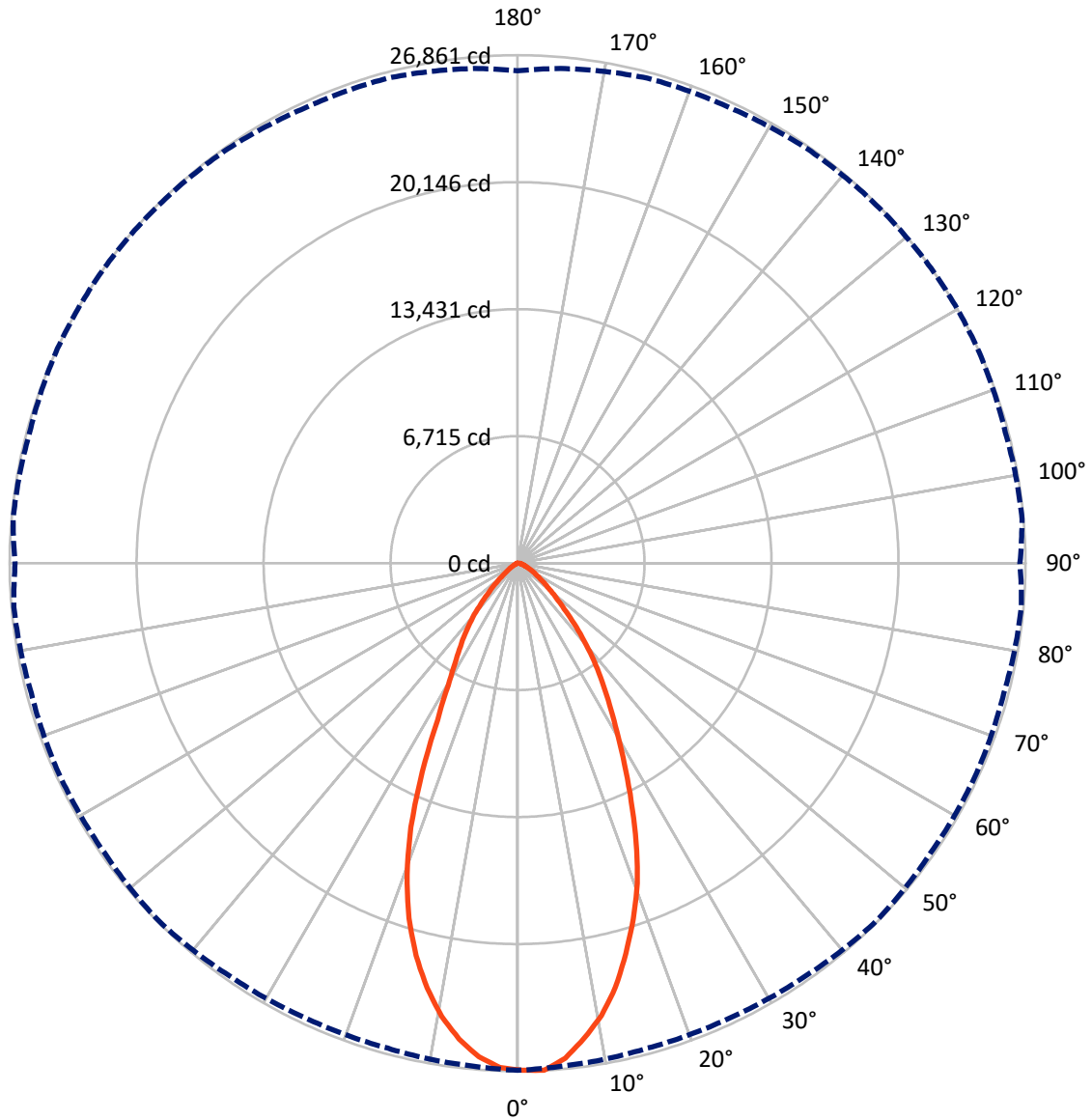
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 67 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 125-Deg Lateral    - - - Horizontal Cone Through 2.5-Deg Vertical

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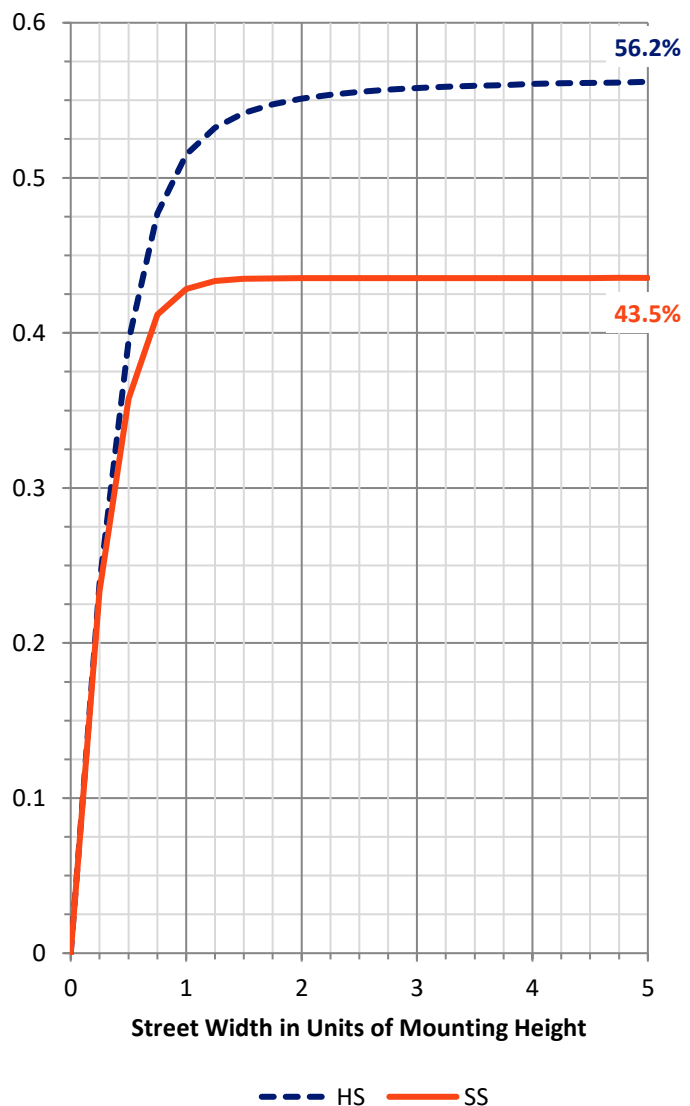
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12737.0	0.0	12737.0
	% Fixture	56.7	0.0	56.7
<b>Street Side</b>	Lumens	9709.5	0.0	9709.5
	% Fixture	43.3	0.0	43.3
<b>Total</b>	Lumens	22446.5	0.0	22446.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2435.2	10.8
10°-20°	5804.9	25.9
20°-30°	5912.2	26.3
30°-40°	4408.7	19.6
40°-50°	2303.2	10.3
50°-60°	968.8	4.3
60°-70°	395.6	1.8
70°-80°	166.5	0.7
80°-90°	51.3	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°	22446.5	100.0
0°-180°	22446.5	100.0



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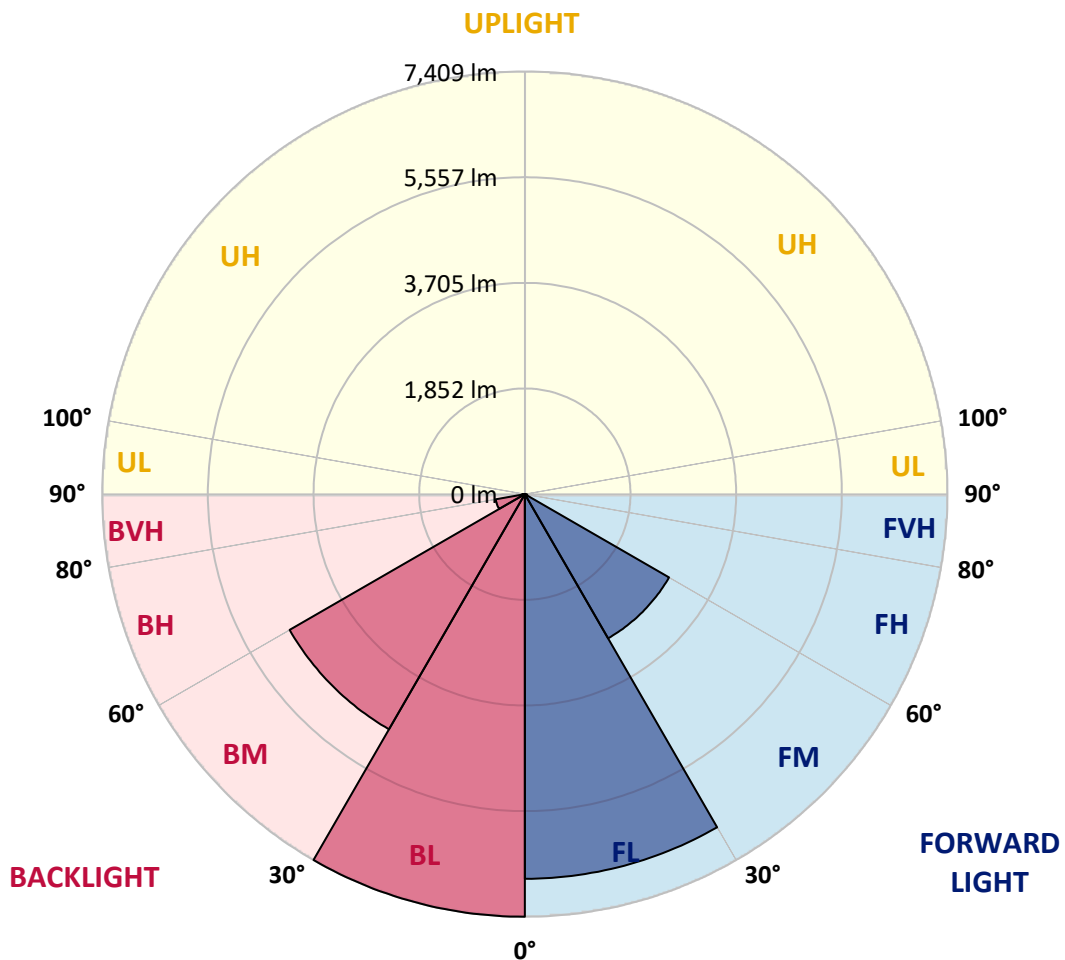
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6743.2	30.0			
FM (30°-60°)	2919.3	13.0			
FH (60°-80°)	42.2	0.2			G0/660
FVH (80°-90°)	4.8	0.0			G0/10
BL (0°-30°)	7409.1	33.0	B5		
BM (30°-60°)	4761.4	21.2	B3/5000		
BH (60°-80°)	519.9	2.3	B2/1000		G2/1000
BVH (80°-90°)	46.5	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G2**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	26818.1	26818.1	26818.1	26818.1	26818.1	26818.1	26818.1	26818.1	26818.1	26818.1
2.5°	26821.0	26711.4	26555.7	26541.3	26622.0	26797.9	26685.5	26691.2	26622.0	26740.2
5°	26400.0	26296.2	26189.5	26048.2	26166.4	26241.4	26183.7	26120.3	26030.9	26146.3
7.5°	25604.2	25546.5	25387.9	25324.5	25396.6	25480.2	25356.2	25338.9	25214.9	25364.9
10°	24387.4	24364.4	24208.7	24171.2	24234.6	24361.5	24306.7	24295.2	24217.3	24202.9
12.5°	23124.5	23035.1	22841.9	22830.4	22925.6	23115.9	22968.8	22827.5	22870.8	22908.3
15°	19872.1	19776.9	20255.6	21008.1	21403.1	21388.7	21432.0	21261.9	21210.0	21227.3
17.5°	15797.9	15636.4	15809.4	16974.3	18851.4	19941.3	19641.4	19275.2	19079.2	18949.4
20°	13635.4	13644.0	13612.3	13912.2	15082.8	17568.3	17496.2	16789.8	16533.2	16426.5
22.5°	12320.6	12271.6	12202.4	12297.5	12611.8	14070.8	15048.2	14399.5	14310.1	14191.9
25°	11031.7	11031.7	10948.1	11043.3	11132.6	11152.8	12133.2	12398.4	12225.4	12225.4
27.5°	9915.9	9858.2	9820.7	9864.0	9745.7	9177.7	9301.7	10659.8	10541.5	10469.5
30°	8808.7	8791.4	8727.9	8785.6	8347.3	7707.2	7447.7	8996.1	9120.1	9094.1
32.5°	7271.8	7341.0	7623.6	7713.0	6963.3	6447.2	6199.2	7467.9	7963.8	7943.6
35°	4942.1	4999.7	5322.7	6389.5	5772.5	5403.4	5331.3	5939.7	6755.7	6833.6
37.5°	3935.8	3927.1	4019.4	4209.7	4639.3	4549.9	4529.8	4688.3	5510.1	5544.7
40°	3243.8	3232.2	3229.4	3073.7	2967.0	3783.0	3728.2	3633.0	4345.2	4414.4
42.5°	2615.2	2626.7	2635.4	2295.2	2139.4	2918.0	2886.2	2788.2	3408.1	3488.9
45°	2052.9	2050.1	2067.4	1709.8	1666.6	1865.5	2156.7	2078.9	2572.0	2658.5
47.5°	1064.0	1101.4	1335.0	1323.5	1343.6	1323.5	1632.0	1611.8	1934.7	2073.1
50°	715.1	726.6	746.8	749.7	1058.2	974.6	1107.2	1254.3	1355.2	1568.5
52.5°	553.6	562.3	510.4	478.6	648.8	720.8	726.6	867.9	945.7	1162.0
55°	308.5	346.0	372.0	374.8	357.5	533.4	530.5	643.0	703.5	847.7
57.5°	40.4	49.0	75.0	242.2	239.3	297.0	372.0	467.1	501.7	619.9
60°	2.9	5.8	8.7	37.5	158.6	173.0	253.7	291.2	348.9	435.4
62.5°	0.0	0.0	2.9	8.7	31.7	100.9	132.6	152.8	204.7	285.5
65°	0.0	0.0	2.9	5.8	11.5	37.5	51.9	83.6	121.1	175.9
67.5°	0.0	0.0	2.9	5.8	8.7	14.4	23.1	37.5	63.4	106.7
70°	0.0	0.0	2.9	5.8	8.7	11.5	17.3	23.1	34.6	57.7
72.5°	0.0	0.0	2.9	2.9	5.8	14.4	14.4	17.3	23.1	31.7
75°	0.0	0.0	2.9	5.8	8.7	14.4	14.4	14.4	17.3	20.2
77.5°	0.0	0.0	2.9	5.8	8.7	14.4	11.5	14.4	14.4	14.4
80°	0.0	0.0	2.9	5.8	8.7	14.4	17.3	14.4	11.5	11.5
82.5°	0.0	0.0	2.9	8.7	8.7	20.2	20.2	20.2	8.7	8.7
85°	0.0	0.0	5.8	8.7	14.4	23.1	23.1	17.3	8.7	5.8
87.5°	0.0	0.0	2.9	5.8	5.8	11.5	17.3	14.4	5.8	2.9
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°
26818.1	0°	26818.1	26818.1	26818.1	26818.1	26818.1	26818.1	26818.1	26818.1	26818.1
26567.2	2.5°	26780.6	26708.5	26844.0	26861.3	26803.7	26731.6	26564.4	26549.9	26258.7
25979.0	5°	26273.1	26154.9	26241.4	26299.1	26278.9	26201.0	26131.8	26068.4	25806.0
25024.6	7.5°	25327.4	25284.1	25324.5	25367.8	25451.4	25367.8	25338.9	25272.6	25013.1
24084.7	10°	24277.9	24197.1	24349.9	24329.8	24306.7	24283.6	24162.5	24174.1	23868.4
22804.5	12.5°	22989.0	22853.5	23000.5	23017.8	23000.5	22919.8	22784.3	22841.9	22562.3
21074.4	15°	21256.1	21241.7	21348.4	21417.6	21466.6	21380.1	21333.9	21362.8	21195.5
18848.5	17.5°	19128.2	19315.6	19664.5	19782.7	19785.6	19875.0	19849.0	19814.4	19690.4
16383.2	20°	16625.4	16985.8	17522.1	18072.9	18231.5	18156.5	18121.9	18185.3	18000.8
14067.9	22.5°	14315.9	14624.4	15247.2	16051.6	16515.9	16562.0	16553.3	16498.6	16426.5
12213.9	25°	12355.2	12629.1	13226.0	13961.2	14852.2	14984.8	14990.6	14973.3	14909.8
10532.9	27.5°	10700.1	11031.7	11360.4	12017.8	12966.4	13514.3	13445.1	13424.9	13401.8
9114.3	30°	9200.8	9618.9	9927.4	10336.8	11187.4	11928.4	12000.5	11965.9	11911.1
7940.8	32.5°	8012.8	8260.8	8652.9	8929.8	9541.0	10380.1	10656.9	10630.9	10581.9
6882.6	35°	6980.6	7078.6	7387.2	7695.7	8102.2	8915.3	9324.8	9267.1	9258.5
5608.1	37.5°	5749.4	6078.1	6248.2	6559.6	6845.1	7476.5	8041.7	8015.7	8018.6
4509.6	40°	4642.2	4832.5	5169.9	5432.2	5694.6	6156.0	6784.5	6801.8	6796.1
3491.7	42.5°	3563.8	3748.4	4103.0	4388.5	4622.0	4907.5	5507.2	5527.4	5553.3
2719.0	45°	2782.4	2900.7	3160.2	3457.1	3705.1	3878.1	4333.7	4463.4	4466.3
2107.7	47.5°	2159.6	2295.2	2479.7	2765.1	3007.3	3131.3	3462.9	3638.8	3630.1
1617.6	50°	1695.4	1819.4	1969.3	2194.2	2456.6	2554.7	2799.7	2972.7	2964.1
1219.7	52.5°	1297.5	1456.1	1588.7	1761.7	2018.3	2102.0	2277.9	2476.8	2448.0
893.8	55°	983.2	1144.7	1268.7	1412.8	1646.4	1753.1	1874.2	2032.8	2038.5
692.0	57.5°	741.0	908.3	1020.7	1167.8	1343.6	1461.9	1554.1	1724.2	1721.4
472.9	60°	530.5	674.7	810.2	963.0	1098.6	1234.1	1297.5	1459.0	1464.7
334.5	62.5°	383.5	519.0	648.8	781.4	902.5	1035.1	1092.8	1219.7	1237.0
219.1	65°	268.2	363.3	513.2	614.2	749.7	847.7	922.7	1032.2	1052.4
129.8	67.5°	173.0	262.4	406.6	495.9	619.9	703.5	781.4	867.9	893.8
83.6	70°	103.8	199.0	302.8	397.9	510.4	585.3	660.3	735.3	749.7
40.4	72.5°	66.3	138.4	219.1	322.9	409.4	490.2	556.5	611.3	568.0
26.0	75°	37.5	95.2	173.0	253.7	331.6	409.4	464.2	493.1	395.0
17.3	77.5°	23.1	69.2	141.3	204.7	256.6	328.7	363.3	380.6	282.6
11.5	80°	14.4	51.9	118.2	167.2	167.2	242.2	282.6	297.0	204.7
8.7	82.5°	11.5	37.5	92.3	126.9	112.5	181.7	222.0	224.9	144.2
5.8	85°	8.7	28.8	57.7	83.6	77.9	126.9	129.8	144.2	95.2
5.8	87.5°	5.8	17.3	34.6	49.0	43.3	60.6	69.2	77.9	51.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
26818.1
26030.9
25595.5
24958.3
23764.6
22481.5
20993.7
19505.9
17868.2
16288.1
14696.5
13266.3
11841.9
10452.2
9163.3
7926.3
6695.2
5466.8
4391.4
3598.4
2964.1
2450.9
2038.5
1715.6
1450.3
1231.2
1046.7
891.0
738.1
527.7
374.8
265.3
190.3
132.6
86.5
46.1
0.0

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