

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: EPHESUS

Report Number: P575326

Luminaire Tested: **EPH-VN-06-730-U-T4W-HSS**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P575326  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 10/19/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-VN-06-730-U-T4W-HSS  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T4W distribution lens and House Side Shield  
Light Source: (96) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

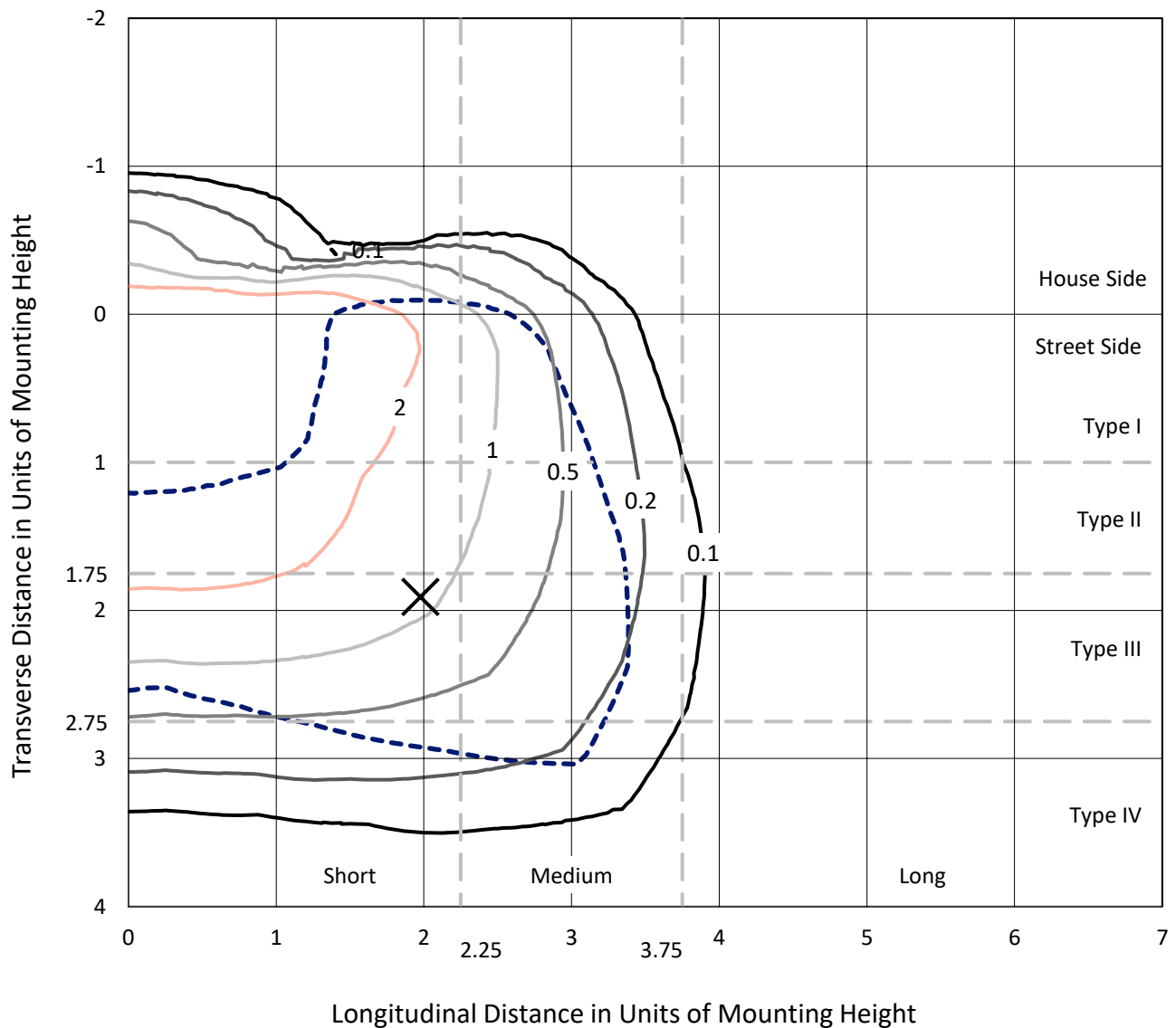
Lumens per Lamp: N/A  
Luminaire Lumens: 30719.4 lumens  
Efficiency: N/A  
Efficacy: 83.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5

Input Watts (W): 368.2  
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: 24 FT

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### Iso-Footcandle Lines of Horizontal Illumination

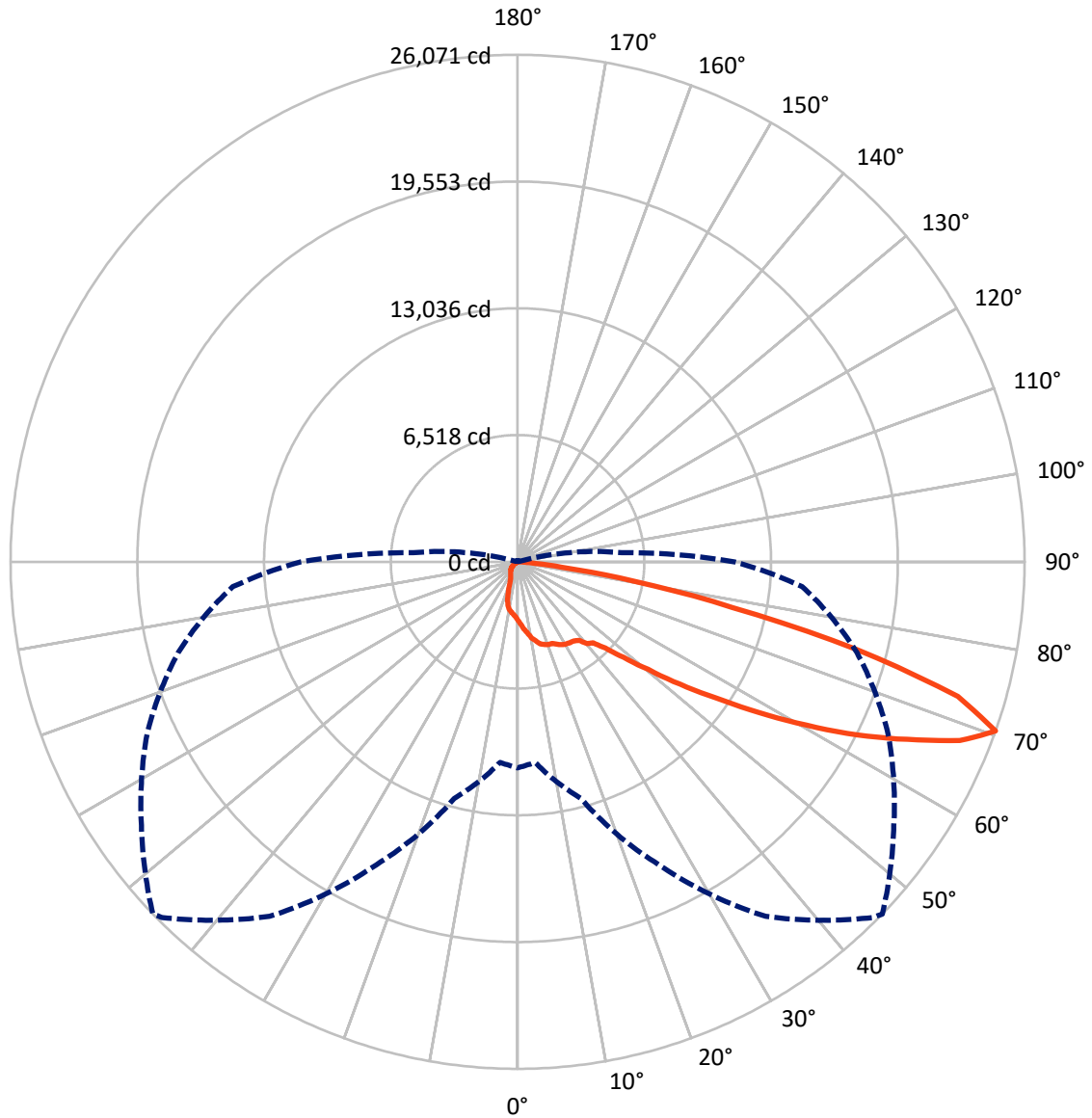
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.9 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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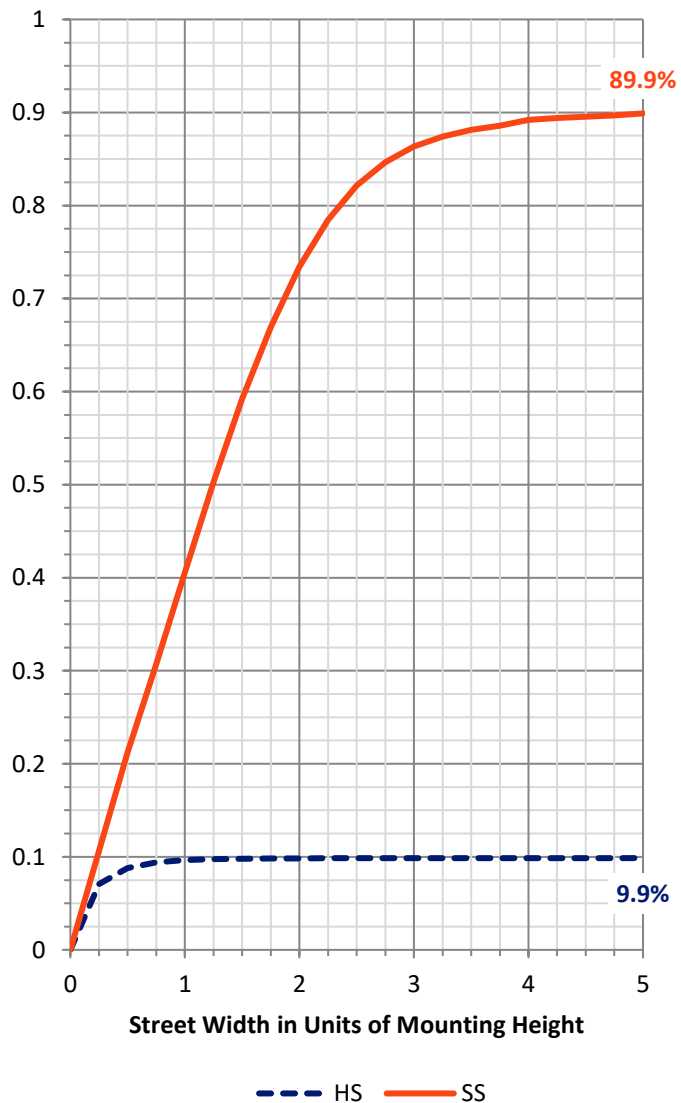
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3056.7	0.0	3056.7
	% Fixture	10.0	0.0	10.0
<b>Street Side</b>	Lumens	27662.8	0.0	27662.8
	% Fixture	90.0	0.0	90.0
<b>Total</b>	Lumens	30719.4	0.0	30719.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	300.7	1.0
10°-20°	908.1	3.0
20°-30°	1454.6	4.7
30°-40°	2076.2	6.8
40°-50°	3585.0	11.7
50°-60°	6863.8	22.3
60°-70°	10164.2	33.1
70°-80°	5034.2	16.4
80°-90°	332.6	1.1
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°	30719.4	100.0
0°-180°	30719.4	100.0

**Coefficient of Utilization**



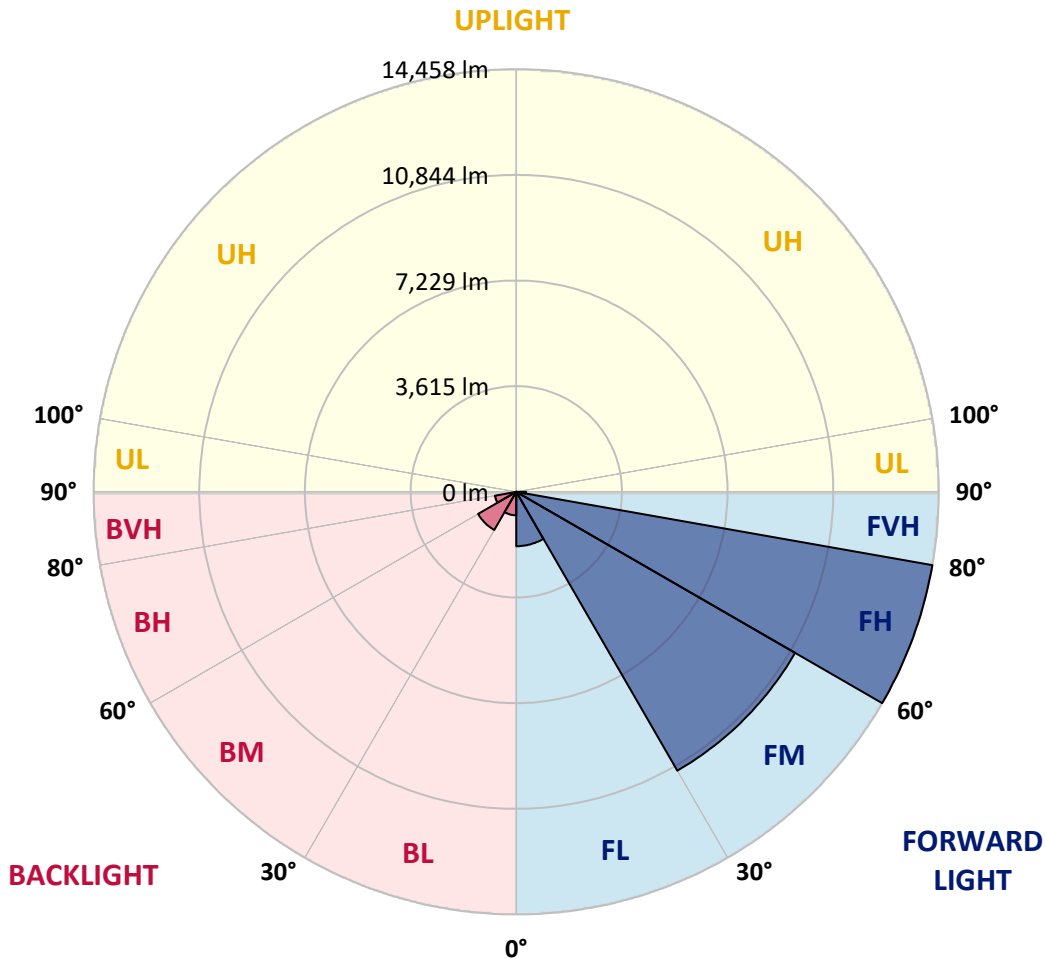
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1860.3	6.1			
FM (30°-60°)	11015.9	35.9			
FH (60°-80°)	14458.2	47.1			G5
FVH (80°-90°)	328.4	1.1			G3/500
BL (0°-30°)	803.0	2.6	B2/1000		
BM (30°-60°)	1509.1	4.9	B2/2500		
BH (60°-80°)	740.3	2.4	B2/1000		G2/1000
BVH (80°-90°)	4.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	3015.7	3015.7	3015.7	3015.7	3015.7	3015.7	3015.7	3015.7	3015.7	3015.7
2.5°	3365.0	3342.9	3307.5	3294.3	3258.9	3241.2	3214.7	3201.4	3152.8	3104.1
5°	3776.2	3723.2	3740.9	3687.8	3572.8	3480.0	3475.6	3373.9	3263.3	3174.9
7.5°	4191.9	4147.7	4081.4	4006.2	3878.0	3740.9	3701.1	3603.8	3449.0	3294.3
10°	4505.9	4474.9	4417.4	4311.3	4134.4	3979.7	3984.1	3820.5	3656.9	3480.0
12.5°	4700.4	4713.7	4629.7	4523.5	4368.8	4174.2	4169.8	4059.2	3873.5	3687.8
15°	4895.0	4943.6	4815.4	4691.6	4492.6	4351.1	4377.6	4245.0	4063.7	3851.4
17.5°	4925.9	4939.2	4912.7	4731.4	4585.4	4466.1	4470.5	4382.0	4245.0	4015.0
20°	4872.9	4864.0	4833.1	4700.4	4603.1	4532.4	4536.8	4514.7	4439.5	4253.8
22.5°	4718.1	4718.1	4678.3	4589.9	4545.6	4612.0	4558.9	4642.9	4563.3	4452.8
25°	4594.3	4642.9	4620.8	4563.3	4581.0	4669.5	4696.0	4775.6	4762.3	4625.2
27.5°	4726.9	4669.5	4682.7	4616.4	4682.7	4815.4	4828.6	4886.1	4881.7	4771.2
30°	4815.4	4868.4	4766.7	4620.8	4691.6	4917.1	4908.2	4983.4	5018.8	4886.1
32.5°	5098.4	5054.2	4970.1	4775.6	4784.4	4912.7	4952.5	5049.7	5071.8	4992.3
35°	5677.6	5611.3	5244.3	4952.5	4908.2	4970.1	4996.7	5186.8	5226.6	5138.2
37.5°	6570.9	6420.5	5978.3	5332.7	5133.8	5120.5	5120.5	5372.5	5522.9	5319.5
40°	7848.8	7636.5	7159.0	6035.8	5430.0	5483.1	5536.1	5673.2	5655.5	5522.9
42.5°	9476.0	9312.4	8795.0	7216.4	5996.0	5730.7	5686.5	5872.2	6150.8	6097.7
45°	10833.5	10842.3	10510.7	8834.8	6973.2	6301.1	6332.1	6473.6	6942.3	6902.5
47.5°	11824.0	11700.2	11651.5	10395.7	8397.1	7384.5	7340.3	7437.5	8047.7	8299.8
50°	12726.1	12642.0	12527.1	11912.4	10108.3	8742.0	8697.8	8706.6	9639.6	9993.4
52.5°	13844.8	13950.9	13570.6	13194.8	12323.7	10506.3	10457.6	10285.2	11443.7	11930.1
55°	15224.4	15025.4	14596.5	14791.0	14441.7	12412.1	12323.7	12120.3	13499.9	13703.3
57.5°	15529.5	15379.2	15821.3	16511.1	16847.2	14649.5	14614.2	14247.2	15228.8	15043.1
60°	16290.1	16329.8	16944.5	18315.3	18898.9	17231.9	17059.5	16413.9	16904.7	16940.1
62.5°	17072.7	16979.9	18355.1	19672.8	20570.4	19677.2	19619.7	18337.4	18894.5	18443.5
65°	16497.9	16639.4	18607.1	20813.6	22737.1	22069.4	22020.8	20190.1	20495.2	19933.6
67.5°	14455.0	14167.6	16922.4	20291.8	23851.4	24576.6	24523.5	22210.9	21397.3	19924.8
70°	10594.7	10347.1	12593.4	17183.3	22255.1	25858.9	26071.2	23617.0	21030.3	18067.6
72.5°	5191.2	5195.7	7057.3	11651.5	17607.8	23568.4	23674.5	21653.7	18067.6	13318.6
75°	1534.4	1552.1	2613.3	5713.0	11381.8	17899.6	18019.0	16436.0	12522.6	6880.4
77.5°	561.6	561.6	866.7	2144.6	5677.6	11297.8	11289.0	10090.6	6340.9	2330.3
80°	291.8	305.1	451.0	875.5	2458.5	5885.5	6106.6	4939.2	2409.9	981.6
82.5°	119.4	132.7	247.6	451.0	1180.6	2065.0	2259.6	1936.8	1048.0	685.4
85°	35.4	39.8	119.4	252.0	464.3	517.4	574.8	650.0	658.9	530.6
87.5°	4.4	4.4	48.6	84.0	101.7	110.5	128.2	128.2	336.1	371.4
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):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3015.7	0°	3015.7	3015.7	3015.7	3015.7	3015.7	3015.7	3015.7	3015.7	3015.7	3015.7
3073.2	2.5°	3037.8	3015.7	2980.3	2900.7	2883.0	2825.6	2821.1	2768.1	2785.8	2750.4
3055.5	5°	3015.7	2967.1	2869.8	2807.9	2746.0	2706.2	2679.6	2657.5	2653.1	2635.4
3135.1	7.5°	3055.5	2989.2	2838.8	2741.5	2635.4	2600.0	2542.6	2538.1	2507.2	2476.2
3263.3	10°	3188.1	3068.8	2905.1	2741.5	2604.5	2489.5	2356.8	2259.6	2224.2	2144.6
3431.3	12.5°	3294.3	3188.1	2949.4	2781.3	2573.5	2312.6	2020.8	1795.3	1689.1	1587.4
3568.4	15°	3444.6	3289.8	3033.4	2790.2	2454.1	2003.1	1525.5	1273.5	1176.2	1154.1
3771.8	17.5°	3608.2	3444.6	3139.5	2768.1	2210.9	1547.6	1123.1	977.2	994.9	1021.4
3922.2	20°	3789.5	3590.5	3219.1	2692.9	1826.2	1123.1	919.7	915.3	941.9	981.6
4178.6	22.5°	3979.7	3807.2	3316.4	2467.4	1361.9	902.1	884.4	884.4	902.1	950.7
4355.5	25°	4191.9	3962.0	3365.0	2118.1	977.2	831.3	840.1	857.8	866.7	906.5
4514.7	27.5°	4355.5	4134.4	3378.3	1698.0	795.9	769.4	791.5	813.6	826.9	857.8
4665.0	30°	4505.9	4351.1	3307.5	1264.6	729.6	716.3	725.2	756.1	782.7	809.2
4811.0	32.5°	4696.0	4474.9	3143.9	897.6	689.8	667.7	663.3	676.5	707.5	738.4
4965.7	35°	4890.6	4682.7	2883.0	720.8	654.4	623.5	605.8	592.5	605.8	627.9
5195.7	37.5°	5173.6	4996.7	2555.8	663.3	627.9	583.7	548.3	517.4	495.2	490.8
5496.3	40°	5575.9	5350.4	2135.7	623.5	596.9	543.9	490.8	437.8	389.1	358.2
6080.0	42.5°	6186.2	5872.2	1680.3	601.4	574.8	499.7	424.5	349.3	287.4	256.5
6898.1	45°	7057.3	6562.0	1233.7	579.3	548.3	446.6	349.3	260.9	199.0	181.3
8414.8	47.5°	8370.5	7393.3	884.4	543.9	512.9	389.1	274.2	185.7	145.9	137.1
10276.4	50°	10086.2	8379.4	689.8	504.1	468.7	327.2	203.4	137.1	115.0	110.5
12266.2	52.5°	11885.9	9374.3	605.8	468.7	402.4	260.9	150.3	110.5	97.3	92.9
14057.0	55°	13424.7	10015.5	526.2	415.7	322.8	194.6	119.4	97.3	84.0	70.7
16042.4	57.5°	14981.2	10338.3	415.7	344.9	238.8	145.9	101.7	84.0	70.7	57.5
18005.7	60°	16245.8	10568.2	296.3	256.5	168.0	115.0	88.4	75.2	57.5	44.2
19854.1	62.5°	17077.1	9909.3	216.7	194.6	123.8	97.3	75.2	61.9	44.2	31.0
20605.8	65°	16665.9	8998.4	168.0	137.1	92.9	75.2	61.9	44.2	31.0	17.7
19044.9	67.5°	14954.7	7331.4	137.1	101.7	70.7	57.5	48.6	35.4	17.7	4.4
14693.8	70°	11156.3	5372.5	110.5	75.2	57.5	44.2	35.4	22.1	8.8	4.4
8321.9	72.5°	6102.1	2940.5	88.4	61.9	44.2	35.4	26.5	17.7	8.8	0.0
2838.8	75°	2016.4	782.7	66.3	44.2	26.5	22.1	17.7	13.3	4.4	0.0
663.3	77.5°	486.4	203.4	53.1	39.8	22.1	13.3	8.8	4.4	4.4	0.0
194.6	80°	150.3	84.0	39.8	26.5	17.7	13.3	4.4	0.0	0.0	0.0
88.4	82.5°	61.9	39.8	17.7	17.7	13.3	4.4	0.0	0.0	0.0	0.0
39.8	85°	31.0	22.1	13.3	8.8	8.8	4.4	0.0	0.0	0.0	0.0
22.1	87.5°	22.1	8.8	4.4	4.4	0.0	0.0	0.0	0.0	0.0	0.0
0.0	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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<u>180°</u>
3015.7
2737.1
2626.6
2476.2
2153.4
1627.2
1149.7
1017.0
990.5
941.9
910.9
871.1
809.2
738.4
645.6
504.1
362.6
256.5
185.7
141.5
115.0
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70.7
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