

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: P575334

Luminaire Tested: **EPH-VN-08-735-U-T4W-HSS**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P575334  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 10/19/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-VN-08-735-U-T4W-HSS  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T4W distribution lens and House Side Shield  
Light Source: (128) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 35055.7 lumens  
Efficiency: N/A  
Efficacy: 71.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5

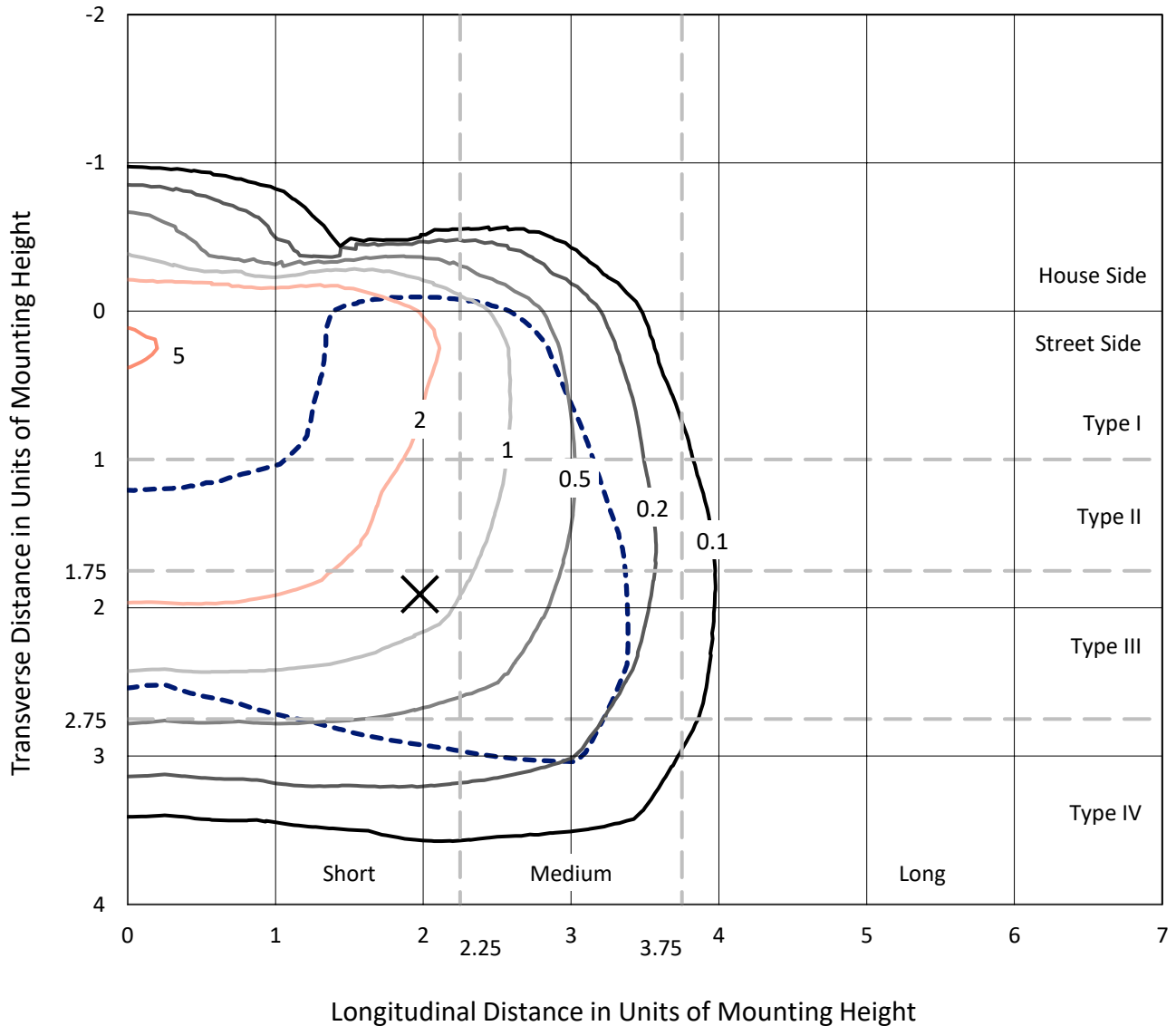
Input Watts (W): 488.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

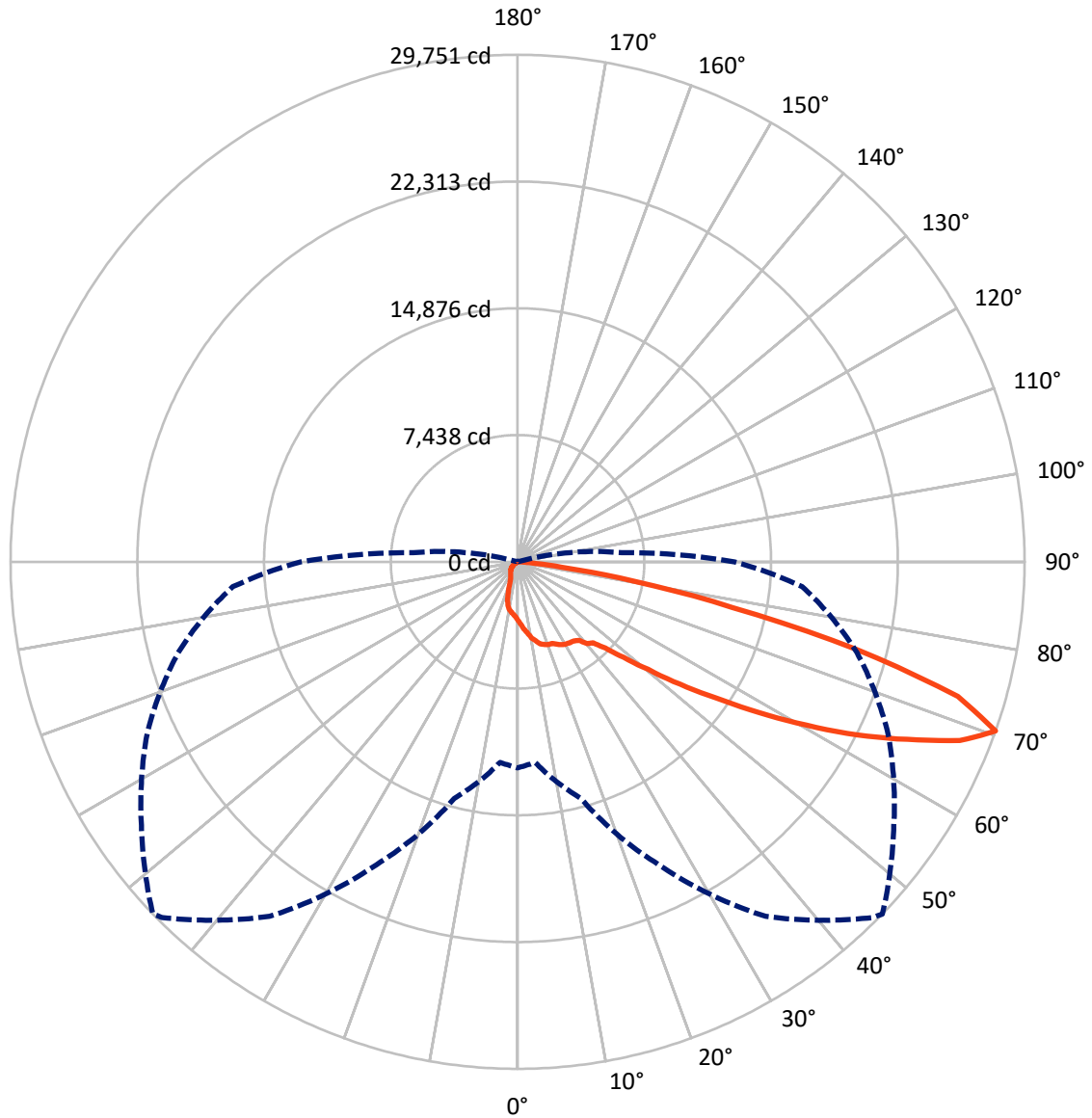
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.6 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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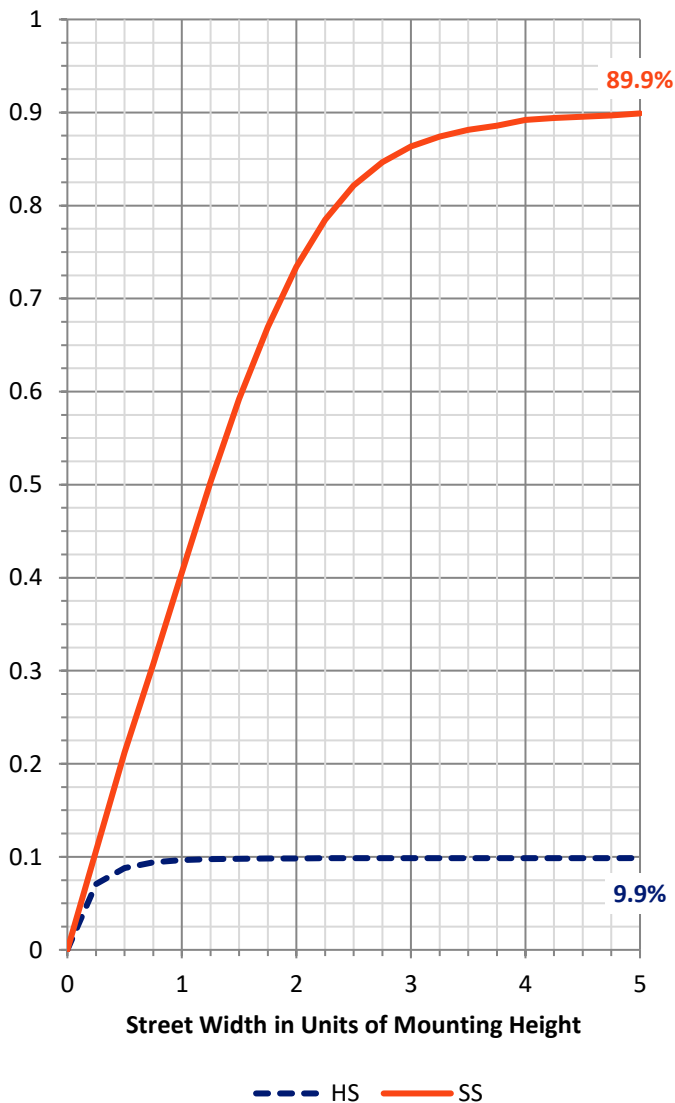
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3488.1	0.0	3488.1
	% Fixture	10.0	0.0	10.0
<b>Street Side</b>	Lumens	31567.6	0.0	31567.6
	% Fixture	90.0	0.0	90.0
<b>Total</b>	Lumens	35055.7	0.0	35055.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	343.1	1.0
10°-20°	1036.3	3.0
20°-30°	1659.9	4.7
30°-40°	2369.3	6.8
40°-50°	4091.1	11.7
50°-60°	7832.7	22.3
60°-70°	11599.0	33.1
70°-80°	5744.9	16.4
80°-90°	379.6	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°	35055.7	100.0
0°-180°	35055.7	100.0

**Coefficient of Utilization**

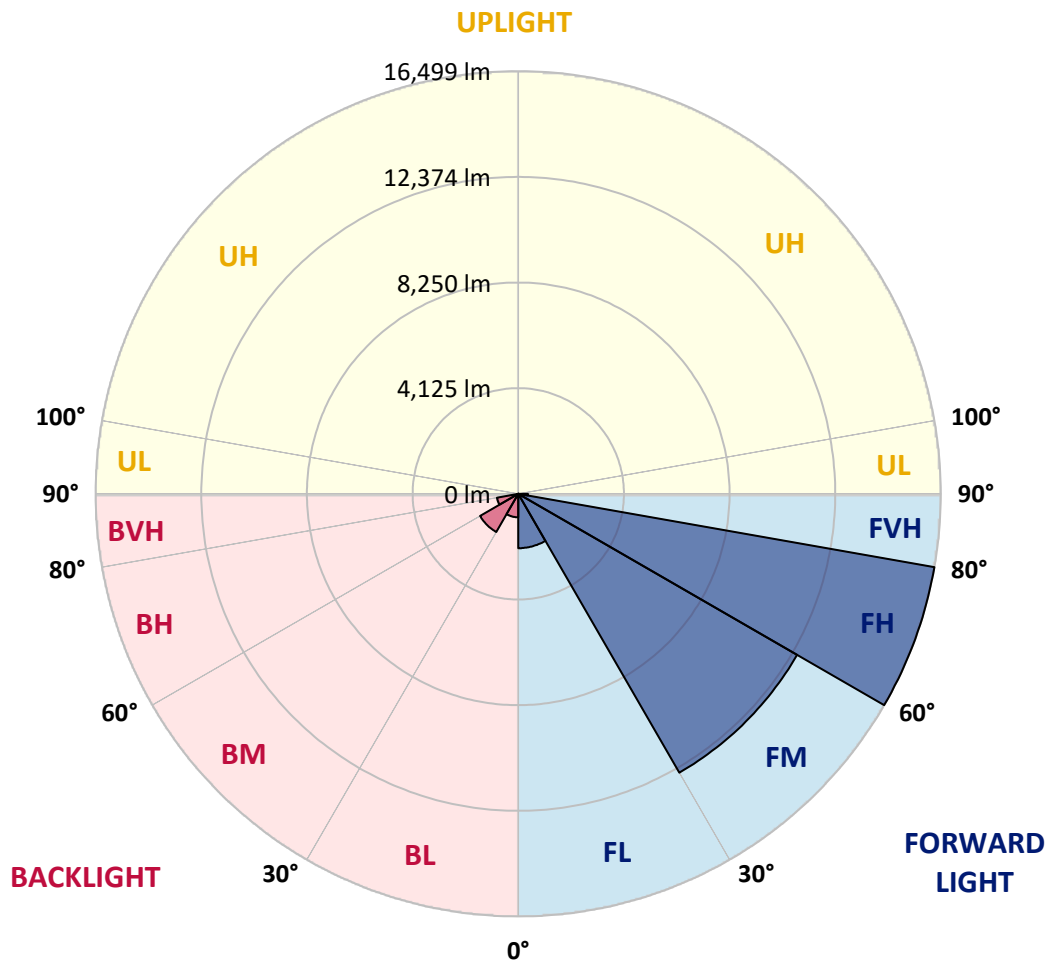


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2122.9	6.1			
FM (30°-60°)	12570.9	35.9			
FH (60°-80°)	16499.0	47.1			G5
FVH (80°-90°)	374.8	1.1			G3/500
BL (0°-30°)	916.4	2.6	B2/1000		
BM (30°-60°)	1722.1	4.9	B2/2500		
BH (60°-80°)	844.8	2.4	B2/1000		G2/1000
BVH (80°-90°)	4.8	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°	3441.4	3441.4	3441.4	3441.4	3441.4	3441.4	3441.4	3441.4	3441.4	3441.4
2.5°	3840.0	3814.8	3774.4	3759.3	3718.9	3698.7	3668.5	3653.3	3597.8	3542.3
5°	4309.3	4248.7	4268.9	4208.4	4077.2	3971.2	3966.2	3850.1	3724.0	3623.0
7.5°	4783.6	4733.2	4657.5	4571.7	4425.4	4268.9	4223.5	4112.5	3935.9	3759.3
10°	5141.9	5106.6	5041.0	4919.9	4718.0	4541.4	4546.5	4359.8	4173.1	3971.2
12.5°	5363.9	5379.1	5283.2	5162.1	4985.5	4763.4	4758.4	4632.2	4420.3	4208.4
15°	5585.9	5641.4	5495.1	5353.8	5126.8	4965.3	4995.6	4844.2	4637.3	4395.1
17.5°	5621.3	5636.4	5606.1	5399.2	5232.7	5096.5	5101.5	5000.6	4844.2	4581.8
20°	5560.7	5550.6	5515.3	5363.9	5252.9	5172.2	5177.2	5152.0	5066.2	4854.3
22.5°	5384.1	5384.1	5338.7	5237.8	5187.3	5263.0	5202.4	5298.3	5207.5	5081.3
25°	5242.8	5298.3	5273.1	5207.5	5227.7	5328.6	5358.9	5449.7	5434.6	5278.1
27.5°	5394.2	5328.6	5343.7	5268.0	5343.7	5495.1	5510.2	5575.8	5570.8	5444.7
30°	5495.1	5555.7	5439.6	5273.1	5353.8	5611.2	5601.1	5686.9	5727.2	5575.8
32.5°	5818.1	5767.6	5671.7	5449.7	5459.8	5606.1	5651.5	5762.6	5787.8	5697.0
35°	6479.1	6403.4	5984.6	5651.5	5601.1	5671.7	5702.0	5919.0	5964.4	5863.5
37.5°	7498.4	7326.8	6822.2	6085.5	5858.4	5843.3	5843.3	6130.9	6302.5	6070.4
40°	8956.7	8714.5	8169.5	6887.8	6196.5	6257.1	6317.6	6474.0	6453.9	6302.5
42.5°	10813.6	10626.9	10036.5	8235.1	6842.4	6539.6	6489.2	6701.1	7019.0	6958.5
45°	12362.7	12372.8	11994.4	10081.9	7957.6	7190.6	7225.9	7387.4	7922.2	7876.8
47.5°	13493.0	13351.8	13296.3	11863.2	9582.4	8426.8	8376.4	8487.4	9183.7	9471.4
50°	14522.4	14426.6	14295.4	13594.0	11535.2	9976.0	9925.5	9935.6	11000.3	11404.0
52.5°	15799.1	15920.2	15486.2	15057.3	14063.2	11989.3	11933.8	11737.0	13059.1	13614.2
55°	17373.4	17146.4	16656.9	16878.9	16480.3	14164.2	14063.2	13831.1	15405.5	15637.6
57.5°	17721.6	17550.0	18054.6	18841.8	19225.3	16717.5	16677.1	16258.3	17378.5	17166.5
60°	18589.5	18634.9	19336.3	20900.6	21566.7	19664.3	19467.5	18730.8	19290.9	19331.3
62.5°	19482.7	19376.7	20946.0	22449.7	23474.1	22454.8	22389.2	20925.8	21561.6	21046.9
65°	18826.7	18988.2	21233.6	23751.6	25946.6	25184.7	25129.2	23040.1	23388.3	22747.4
67.5°	16495.4	16167.4	19311.1	23156.2	27218.2	28045.8	27985.2	25346.1	24417.7	22737.3
70°	12090.3	11807.7	14371.1	19608.8	25396.6	29509.1	29751.3	26950.8	23998.9	20618.0
72.5°	5924.0	5929.1	8053.4	13296.3	20093.2	26895.3	27016.4	24710.3	20618.0	15198.6
75°	1751.0	1771.2	2982.2	6519.5	12988.4	20426.3	20562.5	18756.0	14290.3	7851.6
77.5°	640.8	640.8	989.0	2447.3	6479.1	12892.6	12882.5	11515.0	7236.0	2659.3
80°	333.0	348.2	514.7	999.1	2805.6	6716.2	6968.5	5636.4	2750.1	1120.2
82.5°	136.2	151.4	282.6	514.7	1347.3	2356.5	2578.5	2210.2	1195.9	782.1
85°	40.4	45.4	136.2	287.6	529.8	590.4	656.0	741.8	751.9	605.5
87.5°	5.0	5.0	55.5	95.9	116.1	126.2	146.3	146.3	383.5	423.9
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):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3441.4	0°	3441.4	3441.4	3441.4	3441.4	3441.4	3441.4	3441.4	3441.4	3441.4	3441.4
3507.0	2.5°	3466.6	3441.4	3401.0	3310.2	3290.0	3224.4	3219.4	3158.8	3179.0	3138.6
3486.8	5°	3441.4	3385.9	3274.9	3204.2	3133.6	3088.2	3057.9	3032.7	3027.6	3007.4
3577.6	7.5°	3486.8	3411.1	3239.5	3128.5	3007.4	2967.1	2901.5	2896.4	2861.1	2825.8
3724.0	10°	3638.2	3501.9	3315.2	3128.5	2972.1	2840.9	2689.5	2578.5	2538.1	2447.3
3915.7	12.5°	3759.3	3638.2	3365.7	3173.9	2936.8	2639.1	2306.0	2048.7	1927.6	1811.5
4072.1	15°	3930.8	3754.2	3461.6	3184.0	2800.5	2285.8	1740.9	1453.3	1342.2	1317.0
4304.3	17.5°	4117.5	3930.8	3582.7	3158.8	2523.0	1766.1	1281.7	1115.2	1135.4	1165.6
4475.8	20°	4324.4	4097.4	3673.5	3073.0	2084.0	1281.7	1049.6	1044.5	1074.8	1120.2
4768.5	22.5°	4541.4	4344.6	3784.5	2815.7	1554.2	1029.4	1009.2	1009.2	1029.4	1084.9
4970.3	25°	4783.6	4521.2	3840.0	2417.0	1115.2	948.7	958.7	978.9	989.0	1034.4
5152.0	27.5°	4970.3	4718.0	3855.2	1937.7	908.3	878.0	903.2	928.5	943.6	978.9
5323.5	30°	5141.9	4965.3	3774.4	1443.2	832.6	817.5	827.5	862.9	893.1	923.4
5490.1	32.5°	5358.9	5106.6	3587.7	1024.3	787.2	761.9	756.9	772.0	807.4	842.7
5666.7	35°	5580.9	5343.7	3290.0	822.5	746.8	711.5	691.3	676.2	691.3	716.5
5929.1	37.5°	5903.8	5702.0	2916.6	756.9	716.5	666.1	625.7	590.4	565.2	560.1
6272.2	40°	6363.0	6105.7	2437.2	711.5	681.2	620.7	560.1	499.6	444.0	408.7
6938.3	42.5°	7059.4	6701.1	1917.5	686.3	656.0	570.2	484.4	398.6	328.0	292.7
7871.8	45°	8053.4	7488.3	1407.8	661.0	625.7	509.6	398.6	297.7	227.1	206.9
9602.6	47.5°	9552.1	8436.9	1009.2	620.7	585.3	444.0	312.9	211.9	166.5	156.4
11726.9	50°	11510.0	9562.2	787.2	575.2	534.9	373.4	232.1	156.4	131.2	126.2
13997.6	52.5°	13563.7	10697.6	691.3	534.9	459.2	297.7	171.6	126.2	111.0	106.0
16041.3	55°	15319.7	11429.2	600.5	474.3	368.4	222.0	136.2	111.0	95.9	80.7
18306.9	57.5°	17095.9	11797.6	474.3	393.6	272.5	166.5	116.1	95.9	80.7	65.6
20547.4	60°	18539.1	12060.0	338.1	292.7	191.7	131.2	100.9	85.8	65.6	50.5
22656.6	62.5°	19487.7	11308.1	247.3	222.0	141.3	111.0	85.8	70.6	50.5	35.3
23514.4	65°	19018.4	10268.6	191.7	156.4	106.0	85.8	70.6	50.5	35.3	20.2
21733.2	67.5°	17065.6	8366.3	156.4	116.1	80.7	65.6	55.5	40.4	20.2	5.0
16767.9	70°	12731.1	6130.9	126.2	85.8	65.6	50.5	40.4	25.2	10.1	5.0
9496.6	72.5°	6963.5	3355.6	100.9	70.6	50.5	40.4	30.3	20.2	10.1	0.0
3239.5	75°	2301.0	893.1	75.7	50.5	30.3	25.2	20.2	15.1	5.0	0.0
756.9	77.5°	555.1	232.1	60.6	45.4	25.2	15.1	10.1	5.0	5.0	0.0
222.0	80°	171.6	95.9	45.4	30.3	20.2	15.1	5.0	0.0	0.0	0.0
100.9	82.5°	70.6	45.4	20.2	20.2	15.1	5.0	0.0	0.0	0.0	0.0
45.4	85°	35.3	25.2	15.1	10.1	10.1	5.0	0.0	0.0	0.0	0.0
25.2	87.5°	25.2	10.1	5.0	5.0	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>
3441.4
3123.5
2997.3
2825.8
2457.4
1856.9
1312.0
1160.6
1130.3
1074.8
1039.5
994.1
923.4
842.7
736.7
575.2
413.8
292.7
211.9
161.5
131.2
111.0
80.7
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