

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: P575370

Luminaire Tested: **EPH-VN-04-735-U-SL2-HSS**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P575370  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 10/19/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-VN-04-735-U-SL2-HSS  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL2 distribution lens and House Side Shield  
Light Source: (64) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

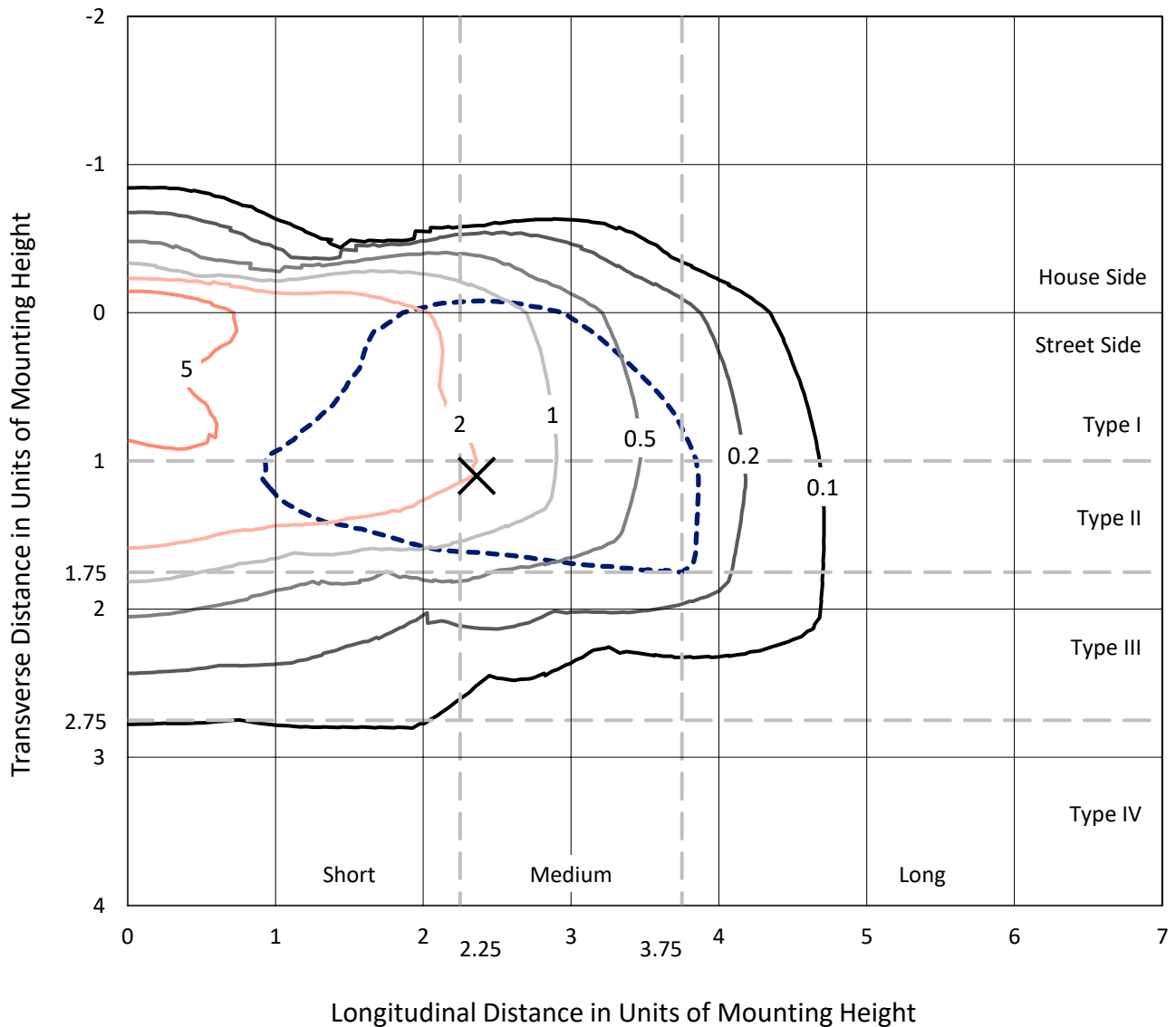
Lumens per Lamp: N/A  
Luminaire Lumens: 24533.2 lumens  
Efficiency: N/A  
Efficacy: 101.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G4

Input Watts (W): 241  
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

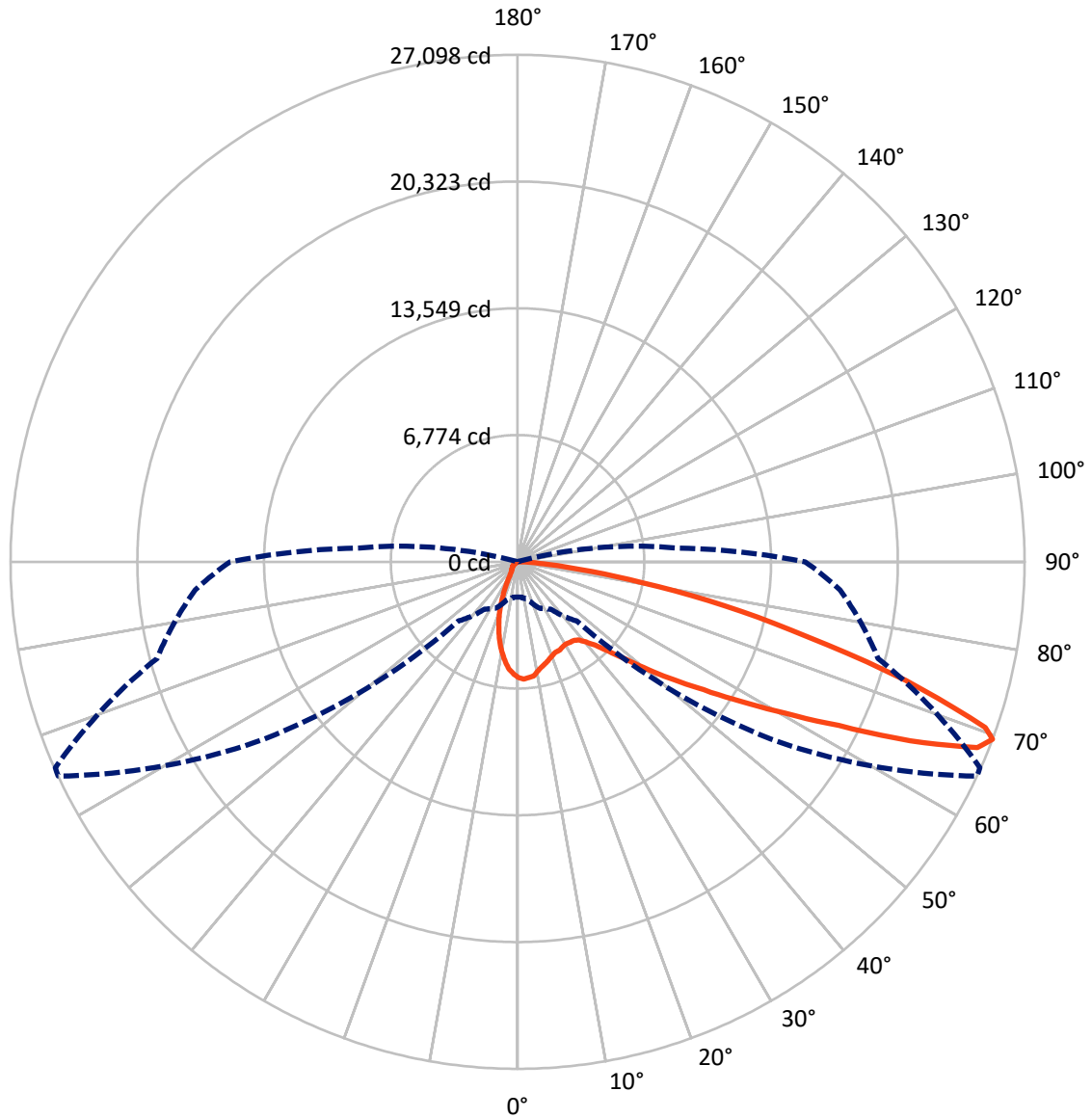
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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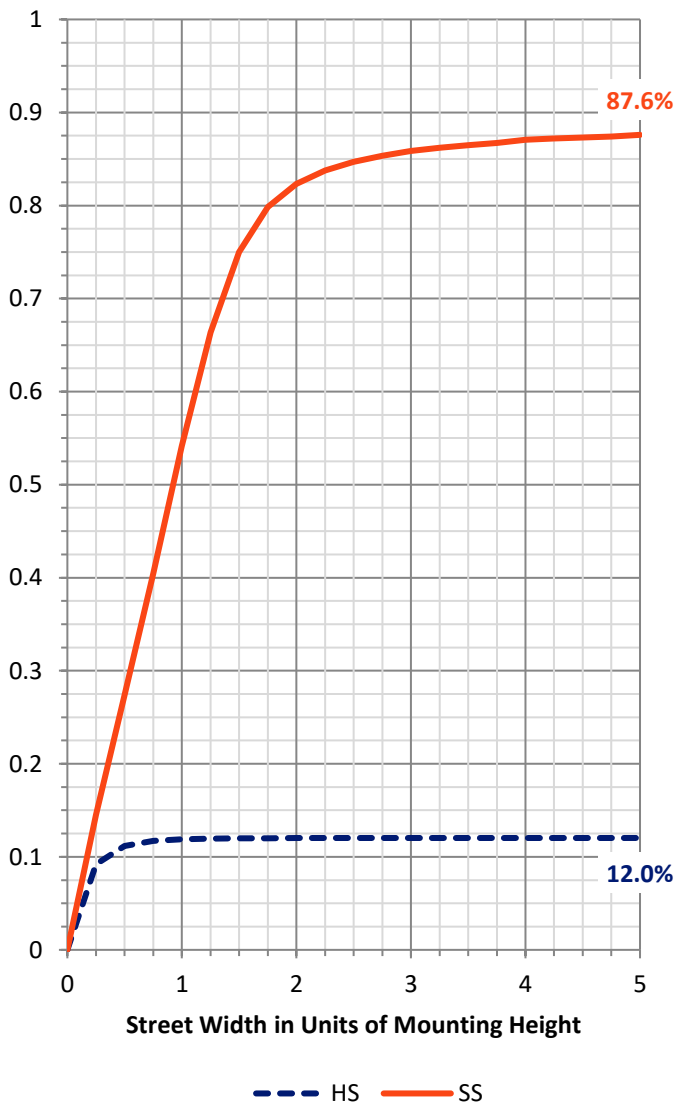
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2976.0	0.0	2976.0
	% Fixture	12.1	0.0	12.1
<b>Street Side</b>	Lumens	21557.2	0.0	21557.2
	% Fixture	87.9	0.0	87.9
<b>Total</b>	Lumens	24533.2	0.0	24533.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	506.2	2.1
10°-20°	1107.5	4.5
20°-30°	1541.9	6.3
30°-40°	2185.0	8.9
40°-50°	3443.4	14.0
50°-60°	5587.5	22.8
60°-70°	6240.1	25.4
70°-80°	3513.9	14.3
80°-90°	407.7	1.7
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°	24533.2	100.0
0°-180°	24533.2	100.0

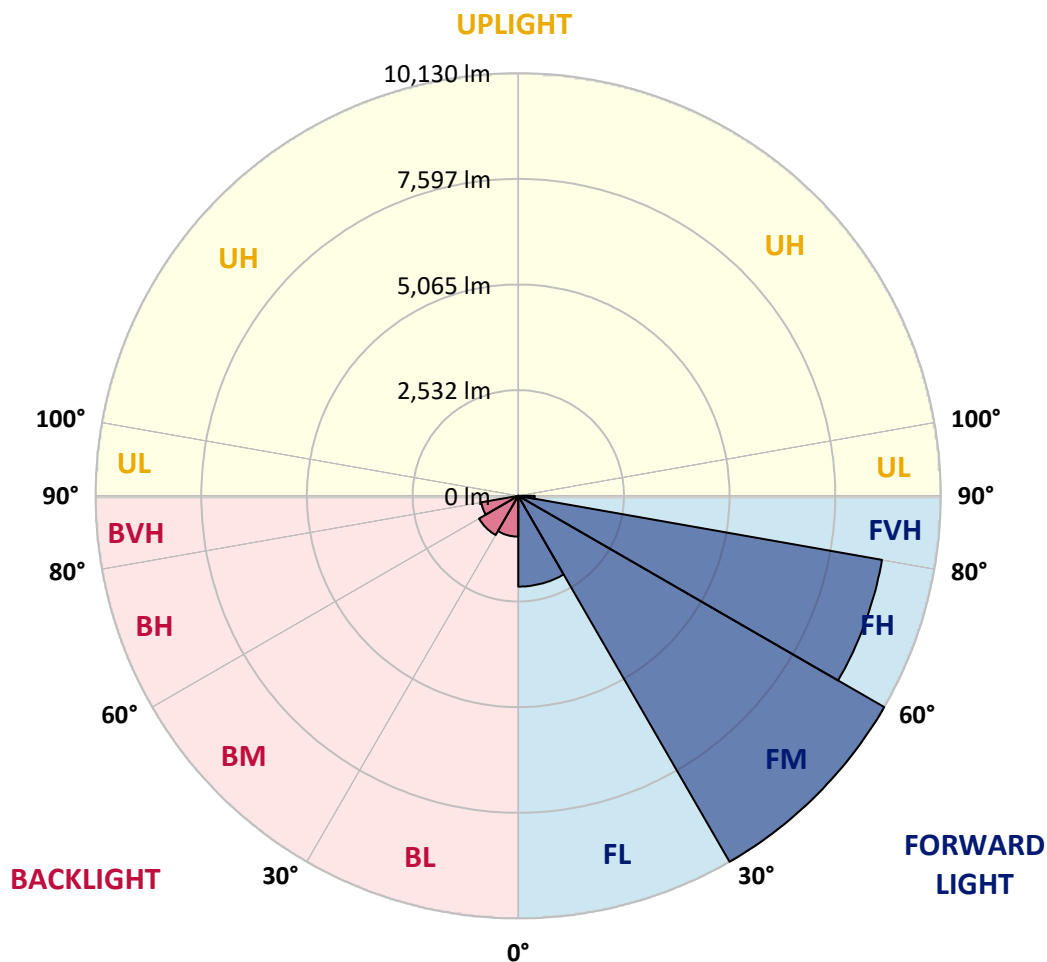


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2177.1	8.9			
FM (30°-60°)	10130.0	41.3			
FH (60°-80°)	8853.6	36.1			G4/12000
FVH (80°-90°)	396.5	1.6			G3/500
BL (0°-30°)	978.4	4.0	B2/1000		
BM (30°-60°)	1085.9	4.4	B2/2500		
BH (60°-80°)	900.4	3.7	B2/1000		G2/1000
BVH (80°-90°)	11.2	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**  
 Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	6185.4	6185.4	6185.4	6185.4	6185.4	6185.4	6185.4	6185.4	6185.4	6185.4
2.5°	5957.0	6003.4	6016.6	6062.9	6086.1	6185.4	6241.6	6274.7	6258.2	6294.6
5°	5533.4	5506.9	5576.4	5626.1	5732.0	5904.1	6079.5	6215.2	6278.1	6337.6
7.5°	5080.0	5066.8	5136.3	5248.8	5344.8	5553.3	5834.6	6168.8	6155.6	6301.2
10°	4768.9	4782.2	4805.3	4917.9	5060.2	5272.0	5622.8	5933.9	6003.4	6311.1
12.5°	4484.3	4507.5	4550.5	4666.3	4831.8	5050.2	5391.1	5755.2	5861.1	6254.9
15°	4391.7	4338.7	4424.8	4510.8	4682.9	4878.2	5166.1	5619.5	5665.8	6188.7
17.5°	4315.5	4282.4	4322.2	4391.7	4573.7	4732.5	5003.9	5473.9	5559.9	6162.2
20°	4338.7	4308.9	4325.5	4378.4	4461.2	4610.1	4861.6	5334.9	5427.5	6039.8
22.5°	4404.9	4428.1	4398.3	4411.5	4438.0	4514.1	4785.5	5235.6	5315.0	6016.6
25°	4702.7	4663.0	4623.3	4606.8	4451.2	4484.3	4762.3	5229.0	5285.2	5933.9
27.5°	5013.8	4980.7	4964.2	4868.2	4656.4	4557.1	4765.6	5136.3	5212.4	5900.8
30°	5391.1	5434.1	5368.0	5252.1	4957.6	4712.7	4802.0	5090.0	5195.9	5775.0
32.5°	5788.3	5811.4	5844.5	5758.5	5377.9	4947.6	4911.2	5133.0	5139.6	5775.0
35°	6238.3	6205.2	6291.3	6297.9	5963.7	5364.6	5119.7	5162.8	5232.3	5748.5
37.5°	6625.5	6681.8	6781.1	6939.9	6595.8	5953.7	5444.1	5301.8	5331.5	5871.0
40°	7049.2	7105.4	7330.5	7489.3	7294.1	6615.6	5937.2	5626.1	5649.3	6053.0
42.5°	7515.8	7625.0	7893.1	8171.1	8118.1	7456.2	6572.6	6102.7	6092.7	6506.4
45°	8147.9	8293.5	8584.7	8905.8	8952.1	8419.3	7419.8	6814.2	6847.3	7098.8
47.5°	9028.2	9021.6	9306.2	9663.6	9931.7	9418.7	8432.5	7770.6	7767.3	8035.4
50°	9878.8	9882.1	9958.2	10371.9	11066.8	10805.4	9686.8	9041.5	9005.1	9137.4
52.5°	10272.6	10226.2	10170.0	10669.7	11940.5	12552.8	11275.3	10481.1	10451.3	10371.9
55°	9858.9	9875.4	9872.1	10391.7	12400.6	14396.2	13314.0	12066.3	12016.7	11768.5
57.5°	8531.8	8478.8	8594.7	9405.5	11874.4	15653.8	16229.6	14065.2	13936.2	13112.1
60°	6350.9	6367.4	6463.4	7419.8	10567.1	15918.5	19019.5	16411.6	15855.6	14058.6
62.5°	4434.7	4401.6	4438.0	4974.1	7555.5	14859.5	20905.9	19264.4	18728.3	15134.2
65°	3173.8	3130.8	3276.4	3604.0	4537.3	11361.4	21174.0	23063.7	22583.8	16851.8
67.5°	2283.5	2276.9	2445.7	3041.4	3223.4	6542.8	19188.3	26505.5	26214.3	18890.4
69°	1889.7	1893.0	2055.2	2723.7	3077.8	4467.8	16510.9	27097.9	27044.9	19942.8
70°	1648.1	1661.4	1850.0	2535.0	3018.2	3673.5	14234.0	26515.4	26462.5	20148.0
72.5°	1016.0	1025.9	1274.1	2032.0	2869.3	2998.4	8511.9	21693.5	21875.6	19208.1
75°	486.5	489.8	668.5	1469.4	2766.7	2842.8	4560.4	16007.9	16391.8	15508.1
77.5°	258.1	258.1	321.0	781.0	2240.5	2674.0	2707.1	11291.9	11609.6	9805.9
80°	129.1	132.4	195.3	407.1	1390.0	2621.1	2114.7	6734.8	6906.9	4001.1
82.5°	49.6	53.0	92.7	244.9	721.5	2214.0	1856.6	3312.8	3269.8	936.6
85°	6.6	6.6	33.1	145.6	307.8	976.3	1532.3	1383.4	1337.0	205.2
87.5°	0.0	0.0	6.6	43.0	92.7	284.6	592.4	380.6	423.6	56.3
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):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
6185.4	0°	6185.4	6185.4	6185.4	6185.4	6185.4	6185.4	6185.4	6185.4	6185.4	6185.4
6297.9	2.5°	6281.4	6211.9	6106.0	6003.4	5894.2	5761.8	5616.2	5563.2	5470.5	5463.9
6327.7	5°	6274.7	6162.2	5976.9	5758.5	5447.4	5212.4	4957.6	4772.2	4629.9	4537.3
6344.2	7.5°	6307.8	6172.2	5851.1	5381.2	4980.7	4514.1	4120.3	3848.9	3600.7	3478.2
6397.2	10°	6254.9	6072.9	5602.9	4944.3	4355.3	3703.3	3127.4	2763.4	2392.7	2257.1
6427.0	12.5°	6284.7	6029.8	5334.9	4494.3	3683.4	2836.2	2147.8	1651.4	1303.9	1191.4
6476.6	15°	6304.5	5937.2	5076.7	3954.8	2938.8	1932.7	1244.4	936.6	827.4	807.5
6470.0	17.5°	6228.4	5824.7	4712.7	3422.0	2177.6	1174.9	827.4	764.5	744.6	731.4
6460.1	20°	6225.1	5758.5	4398.3	2875.9	1452.9	800.9	714.8	691.7	661.9	652.0
6516.3	22.5°	6168.8	5619.5	4021.0	2276.9	926.6	688.4	642.0	605.6	572.5	559.3
6470.0	25°	6152.3	5457.3	3666.9	1711.0	704.9	615.6	569.2	516.3	476.6	456.7
6413.7	27.5°	6106.0	5318.3	3309.5	1204.6	615.6	549.4	489.8	433.5	387.2	357.4
6377.3	30°	5940.5	5172.7	2912.3	834.0	559.3	486.5	420.3	354.1	307.8	287.9
6294.6	32.5°	5871.0	5037.0	2478.8	642.0	509.7	430.2	354.1	294.5	258.1	238.3
6264.8	35°	5788.3	4838.4	2058.5	559.3	463.3	374.0	297.9	248.2	218.4	201.9
6288.0	37.5°	5798.2	4679.6	1664.7	506.3	413.7	321.0	254.8	211.8	185.3	168.8
6407.1	40°	5768.4	4553.8	1294.0	460.0	367.4	274.7	215.1	178.7	155.5	139.0
6652.0	42.5°	5904.1	4520.7	976.3	420.3	321.0	235.0	185.3	152.2	129.1	109.2
7158.4	45°	6132.4	4573.7	761.2	383.9	274.7	201.9	158.9	125.8	102.6	89.4
7909.6	47.5°	6741.4	4782.2	595.7	354.1	235.0	175.4	132.4	102.6	82.7	69.5
8935.6	50°	7625.0	5248.8	506.3	311.1	198.6	148.9	109.2	79.4	66.2	53.0
10318.9	52.5°	8882.6	6033.2	460.0	274.7	165.5	122.5	86.0	62.9	49.6	39.7
11841.3	55°	10252.7	7012.8	417.0	231.7	139.0	99.3	69.5	49.6	36.4	26.5
12946.6	57.5°	11321.7	7860.0	380.6	191.9	112.5	79.4	53.0	36.4	26.5	16.5
13830.3	60°	12489.9	8455.7	334.3	152.2	92.7	59.6	39.7	26.5	19.9	9.9
15001.8	62.5°	13694.6	9154.0	274.7	119.1	72.8	46.3	29.8	19.9	13.2	3.3
16534.1	65°	15369.2	9700.0	211.8	92.7	56.3	33.1	23.2	16.5	6.6	0.0
17467.4	67.5°	15842.4	9432.0	155.5	72.8	39.7	23.2	16.5	9.9	3.3	0.0
17291.9	69°	15369.2	8495.4	135.7	62.9	33.1	19.9	13.2	6.6	3.3	0.0
16712.8	70°	14505.4	7767.3	119.1	53.0	29.8	19.9	9.9	6.6	3.3	0.0
14399.5	72.5°	12132.5	5957.0	92.7	39.7	23.2	16.5	9.9	6.6	0.0	0.0
11252.2	75°	8899.1	3680.1	69.5	29.8	19.9	13.2	9.9	6.6	0.0	0.0
6397.2	77.5°	4768.9	1343.6	49.6	19.9	13.2	9.9	9.9	6.6	0.0	0.0
1992.3	80°	1307.2	397.1	36.4	13.2	9.9	6.6	6.6	3.3	0.0	0.0
486.5	82.5°	357.4	102.6	23.2	13.2	9.9	6.6	3.3	0.0	0.0	0.0
235.0	85°	191.9	39.7	13.2	9.9	6.6	3.3	0.0	0.0	0.0	0.0
115.8	87.5°	99.3	13.2	9.9	6.6	6.6	3.3	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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