

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: P575404

Luminaire Tested: **EPH-VN-04-730-U-SL3-HSS**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P575404  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 10/19/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-VN-04-730-U-SL3-HSS  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL3 distribution lens and House Side Shield  
Light Source: (64) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

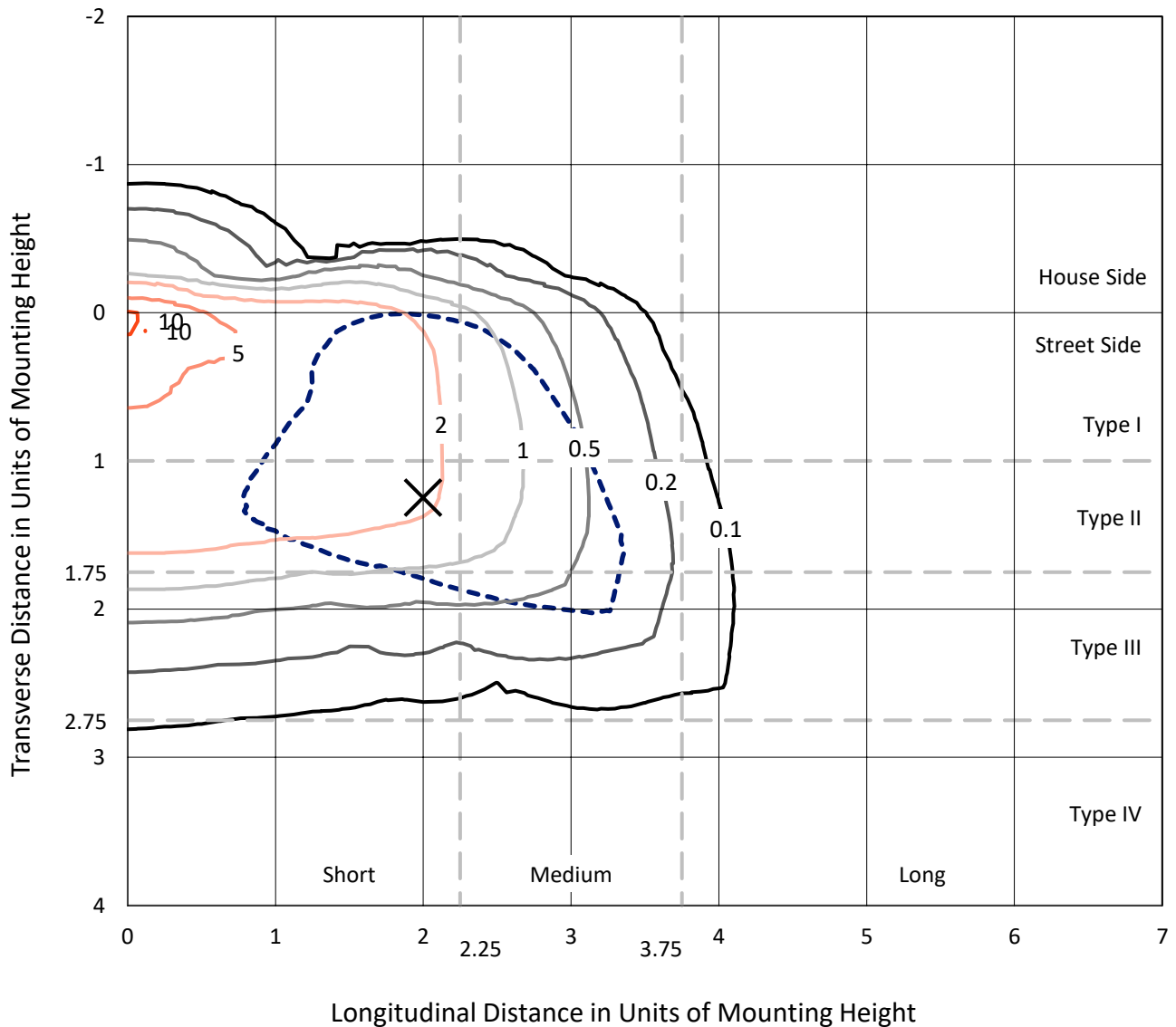
Lumens per Lamp: N/A  
Luminaire Lumens: 23014.7 lumens  
Efficiency: N/A  
Efficacy: 95.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

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

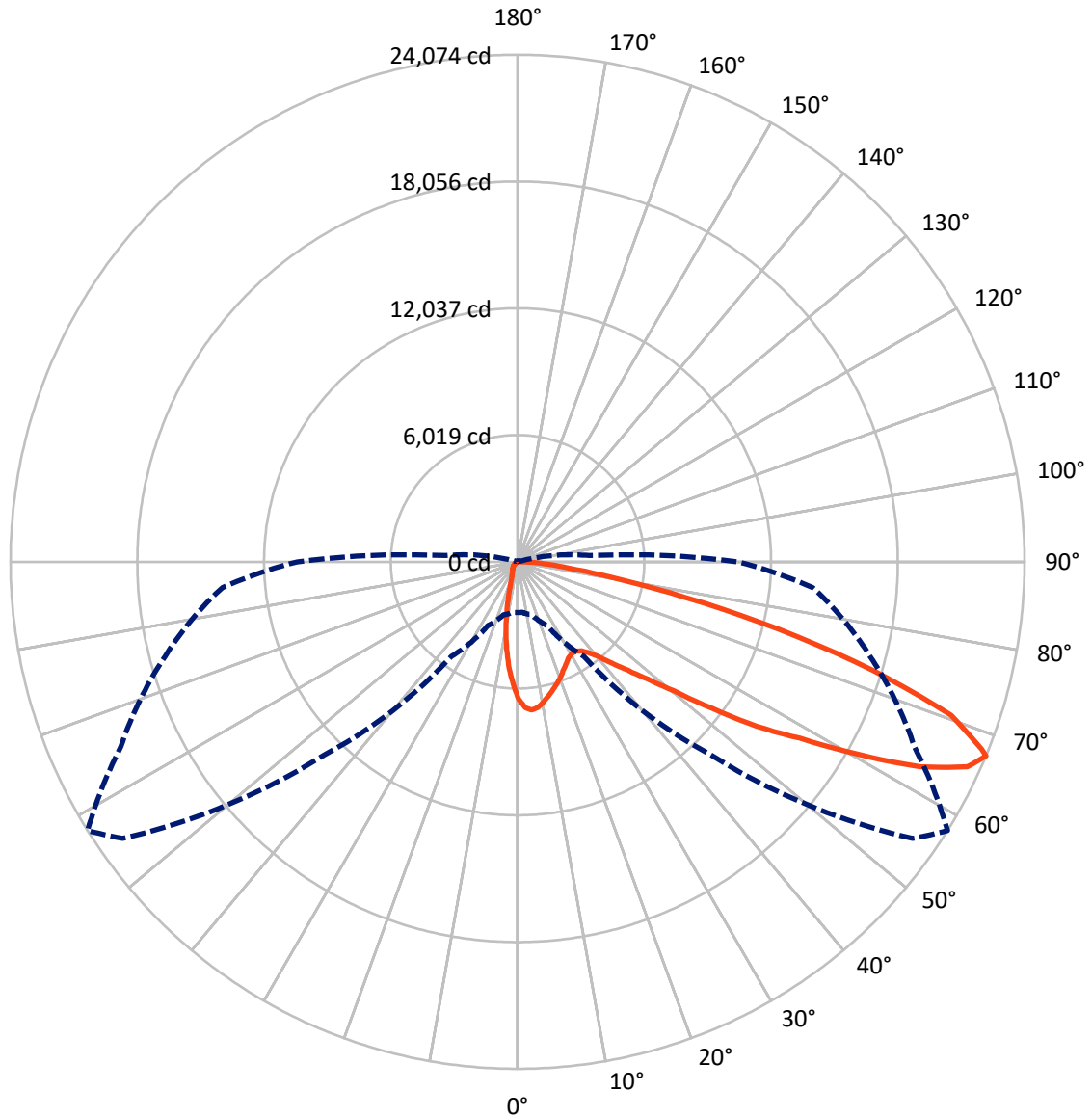
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 67-Deg Vertical

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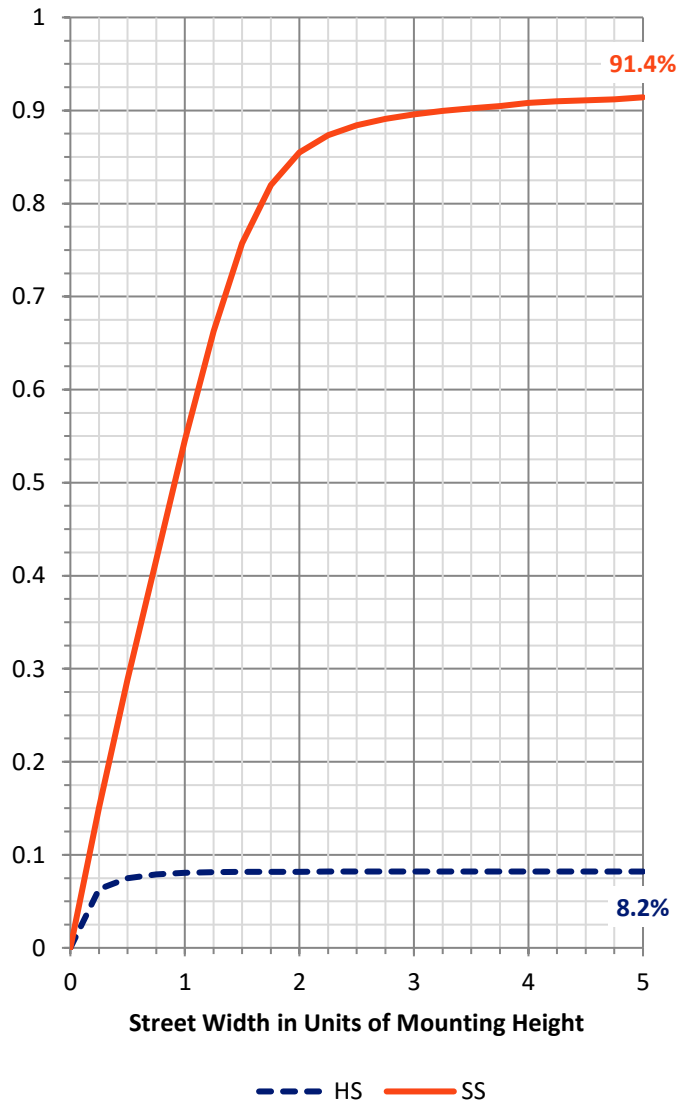
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1902.3	0.0	1902.3
	% Fixture	8.3	0.0	8.3
<b>Street Side</b>	Lumens	21112.4	0.0	21112.4
	% Fixture	91.7	0.0	91.7
<b>Total</b>	Lumens	23014.7	0.0	23014.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	517.4	2.2
10°-20°	1073.1	4.7
20°-30°	1423.8	6.2
30°-40°	1972.9	8.6
40°-50°	3219.2	14.0
50°-60°	5658.3	24.6
60°-70°	6267.0	27.2
70°-80°	2597.1	11.3
80°-90°	285.9	1.2
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°	23014.7	100.0
0°-180°	23014.7	100.0

**Coefficient of Utilization**



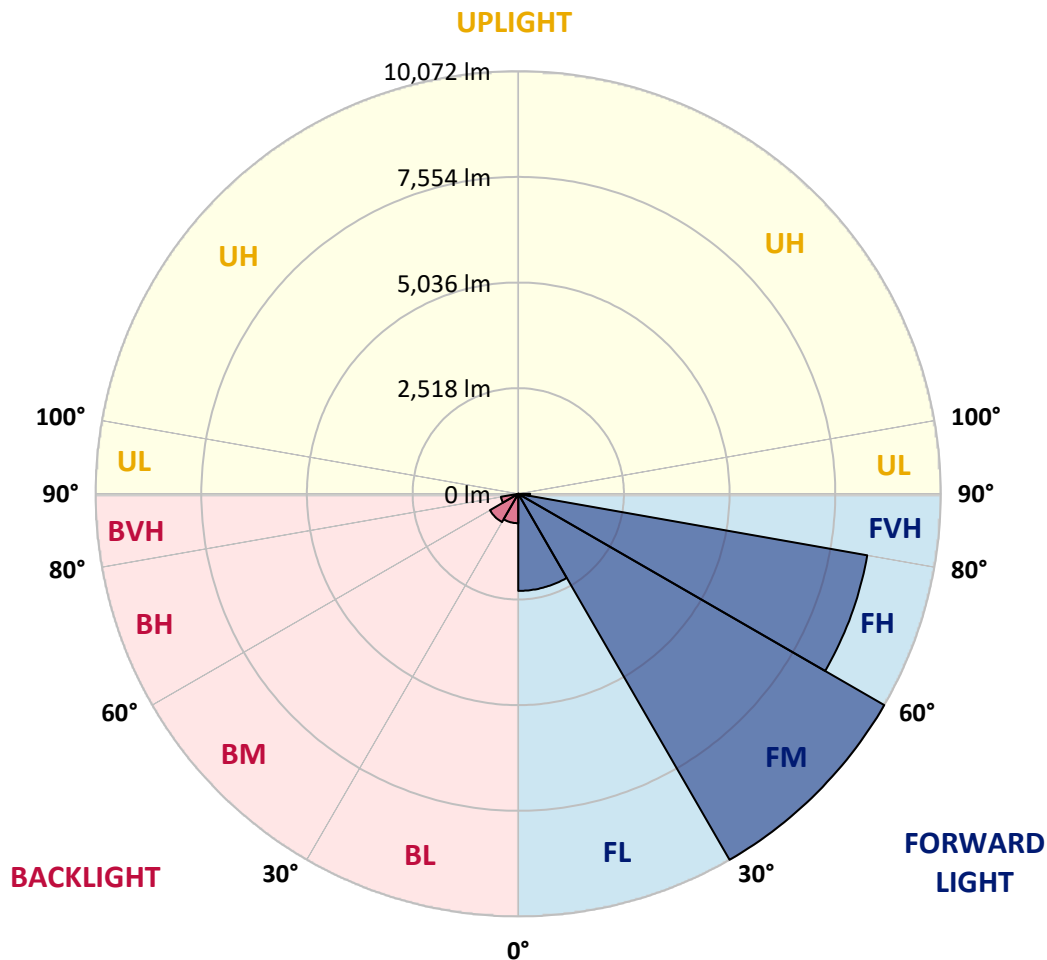
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2313.6	10.1			
FM (30°-60°)	10071.7	43.8			
FH (60°-80°)	8445.9	36.7			G4/12000
FVH (80°-90°)	281.2	1.2			G3/500
BL (0°-30°)	700.6	3.0	B2/1000		
BM (30°-60°)	778.7	3.4	B1/1000		
BH (60°-80°)	418.2	1.8	B1/500		G1/500
BVH (80°-90°)	4.7	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-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°
0°	6520.4	6520.4	6520.4	6520.4	6520.4	6520.4	6520.4	6520.4	6520.4	6520.4
2.5°	7094.8	7119.2	7140.6	7100.9	7134.5	7085.6	6960.4	6932.9	6911.5	6725.1
5°	7091.7	7064.2	7085.6	7104.0	7058.1	7094.8	7064.2	7067.3	6984.8	6816.8
7.5°	6618.1	6605.9	6618.1	6706.8	6807.6	6887.0	6932.9	6978.7	6923.7	6673.1
10°	5979.6	6040.7	6074.3	6233.2	6389.0	6535.6	6679.3	6764.8	6749.5	6648.7
12.5°	5533.5	5515.1	5637.3	5741.2	5897.1	6193.4	6444.0	6523.4	6615.1	6474.5
15°	5121.0	5072.1	5145.4	5325.7	5591.5	5826.8	6178.2	6297.3	6413.4	6450.1
17.5°	4726.8	4751.3	4827.6	4989.6	5240.1	5570.1	5900.1	6071.2	6349.3	6300.4
20°	4537.4	4589.3	4616.8	4699.3	4873.5	5203.5	5695.4	5832.9	6129.3	6297.3
22.5°	4546.5	4546.5	4482.4	4531.3	4690.1	4946.8	5417.3	5570.1	6040.7	6138.4
25°	4644.3	4583.2	4586.3	4528.2	4595.4	4736.0	5166.8	5353.2	5860.4	6153.7
27.5°	4717.6	4705.4	4687.1	4671.8	4586.3	4607.6	5001.8	5154.6	5790.1	6135.4
30°	4983.5	4928.5	4910.1	4876.5	4763.5	4659.6	4870.4	5062.9	5735.1	6178.2
32.5°	5206.5	5215.7	5231.0	5133.2	5035.4	4778.8	4907.1	5059.9	5695.4	6275.9
35°	5487.6	5527.3	5533.5	5502.9	5399.0	5145.4	5059.9	5191.2	5762.6	6450.1
37.5°	5915.4	5872.6	5988.7	6000.9	5927.6	5591.5	5414.3	5466.2	5961.2	6728.1
40°	6193.4	6245.4	6462.3	6596.8	6471.5	6165.9	5927.6	5918.4	6248.4	7165.1
42.5°	6502.0	6618.1	6856.5	7146.7	7131.5	6847.3	6605.9	6566.2	6758.7	7797.6
45°	6923.7	7027.6	7360.6	7797.6	8035.9	7794.5	7430.9	7351.5	7379.0	8659.2
47.5°	7623.4	7595.9	8075.6	8506.4	8897.5	8711.1	8555.3	8323.1	8301.7	9673.6
50°	8414.8	8408.7	8836.4	9325.3	9777.5	10141.1	9881.4	9627.8	9633.9	11051.6
52.5°	9166.4	9285.6	9746.9	10232.8	11008.9	11400.0	11650.5	11549.7	11063.9	12283.0
55°	9563.6	9667.5	10125.8	10963.0	12188.3	13193.5	13871.8	13786.3	12848.2	13670.2
57.5°	9187.8	9258.1	9878.3	10975.2	13013.2	15256.0	15906.8	15799.8	14693.8	14730.4
60°	7614.2	7724.2	8647.0	9933.3	12692.4	16844.8	18708.6	18546.7	16374.3	16071.8
62.5°	5273.7	5347.1	6104.8	7705.9	11170.8	17397.8	21354.7	21443.3	18146.4	17116.7
65°	3416.0	3409.9	3843.8	4928.5	7916.7	15723.4	22919.1	23469.1	19857.5	17275.6
67°	2413.8	2404.7	2609.4	3342.7	5481.5	12955.2	22891.6	24074.0	20786.4	17321.5
67.5°	2227.4	2218.3	2413.8	3073.8	4946.8	12047.7	22549.4	23762.4	21113.3	17257.3
70°	1729.4	1705.0	1778.3	2117.4	2881.3	7791.4	19298.3	21828.3	20435.0	15656.2
72.5°	1249.7	1277.2	1393.3	1738.6	2261.0	4192.1	14709.0	17651.4	17067.9	11800.2
75°	870.8	895.3	1081.6	1417.7	2074.7	2542.2	9945.6	12802.4	11888.8	6514.3
77.5°	455.3	485.8	690.5	1133.6	1885.2	1967.7	5942.9	8118.4	6300.4	2319.1
80°	210.8	226.1	345.3	803.6	1576.6	1729.4	3464.9	4516.0	2520.8	519.4
82.5°	91.7	100.8	158.9	461.4	1118.3	1512.5	2144.9	2368.0	913.6	168.1
85°	18.3	21.4	61.1	244.4	540.8	916.6	1506.3	1405.5	458.3	82.5
87.5°	0.0	0.0	15.3	70.3	146.7	271.9	638.6	638.6	140.6	42.8
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°
6520.4	0°	6520.4	6520.4	6520.4	6520.4	6520.4	6520.4	6520.4	6520.4	6520.4	6520.4
6618.1	2.5°	6523.4	6413.4	6172.0	5949.0	5790.1	5609.8	5371.5	5264.6	5224.9	5169.9
6517.3	5°	6352.3	6217.9	5805.4	5389.8	4934.6	4589.3	4222.7	4008.8	3846.8	3746.0
6382.9	7.5°	6110.9	5835.9	5279.9	4613.8	4024.1	3510.7	2954.6	2578.8	2337.4	2239.7
6236.2	10°	5918.4	5561.0	4714.6	3886.6	3101.3	2349.7	1723.3	1393.3	1142.7	1048.0
6043.7	12.5°	5667.9	5240.1	4186.0	3144.1	2157.2	1399.4	953.3	828.0	757.8	745.5
5939.8	15°	5460.1	4949.9	3684.9	2435.2	1396.3	873.9	742.5	711.9	693.6	687.5
5784.0	17.5°	5319.6	4638.2	3171.6	1772.2	919.7	715.0	684.4	666.1	656.9	653.9
5631.2	20°	5041.5	4375.4	2664.4	1240.5	718.0	660.0	635.5	620.3	611.1	608.0
5493.7	22.5°	4882.6	4042.4	2157.2	864.7	638.6	598.9	580.5	568.3	553.0	543.9
5420.4	25°	4723.8	3797.9	1705.0	672.2	580.5	553.0	525.5	510.3	485.8	473.6
5307.4	27.5°	4537.4	3556.6	1313.9	583.6	522.5	495.0	467.5	443.0	412.5	400.3
5243.2	30°	4430.4	3321.3	990.0	522.5	479.7	443.0	409.4	378.9	345.3	323.9
5307.4	32.5°	4375.4	3107.4	742.5	476.7	433.9	394.2	351.4	314.7	284.2	265.8
5313.5	35°	4308.2	2899.6	583.6	433.9	391.1	348.3	305.5	268.9	238.3	223.0
5545.7	37.5°	4378.5	2777.4	485.8	400.3	357.5	308.6	262.8	226.1	201.7	186.4
5832.9	40°	4571.0	2676.6	421.7	369.7	323.9	271.9	229.2	192.5	171.1	158.9
6288.2	42.5°	4867.4	2676.6	381.9	339.2	293.3	238.3	195.6	168.1	146.7	134.4
7064.2	45°	5405.1	2759.1	348.3	308.6	256.7	204.7	168.1	140.6	119.2	106.9
8136.7	47.5°	6159.8	2948.5	320.8	281.1	229.2	180.3	146.7	119.2	97.8	85.6
9398.6	50°	7174.2	3379.3	293.3	247.5	204.7	155.8	122.2	94.7	76.4	64.2
10749.1	52.5°	8439.2	3990.4	265.8	229.2	174.2	131.4	97.8	76.4	58.1	48.9
12081.3	55°	9777.5	4739.0	232.2	204.7	149.7	110.0	79.4	58.1	42.8	36.7
13691.6	57.5°	11125.0	5316.5	204.7	177.2	122.2	88.6	64.2	45.8	30.6	24.4
14727.4	60°	11839.9	5371.5	177.2	146.7	97.8	70.3	48.9	33.6	21.4	15.3
15036.0	62.5°	11949.9	4882.6	152.8	119.2	79.4	55.0	33.6	24.4	12.2	6.1
14941.2	65°	11384.7	4069.9	131.4	94.7	61.1	39.7	24.4	15.3	6.1	3.1
14064.3	67°	10468.0	3409.9	113.1	79.4	48.9	30.6	18.3	9.2	3.1	0.0
13679.3	67.5°	10113.6	3226.6	106.9	73.3	45.8	27.5	15.3	9.2	3.1	0.0
10923.3	70°	7849.5	2303.8	79.4	51.9	33.6	21.4	12.2	6.1	0.0	0.0
6942.0	72.5°	4809.3	1347.5	61.1	36.7	24.4	15.3	9.2	3.1	0.0	0.0
2957.7	75°	2016.6	464.4	51.9	27.5	18.3	9.2	6.1	3.1	0.0	0.0
815.8	77.5°	525.5	174.2	36.7	18.3	12.2	9.2	6.1	3.1	0.0	0.0
281.1	80°	213.9	79.4	24.4	12.2	12.2	9.2	6.1	3.1	0.0	0.0
174.2	82.5°	140.6	36.7	15.3	12.2	9.2	6.1	3.1	0.0	0.0	0.0
137.5	85°	106.9	21.4	9.2	9.2	6.1	3.1	0.0	0.0	0.0	0.0
51.9	87.5°	45.8	12.2	9.2	6.1	6.1	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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