

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: P575416

Luminaire Tested: **EPH-VN-04-740-U-SL3-HSS**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P575416  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 10/19/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-VN-04-740-U-SL3-HSS  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL3 distribution lens and House Side Shield  
Light Source: (64) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

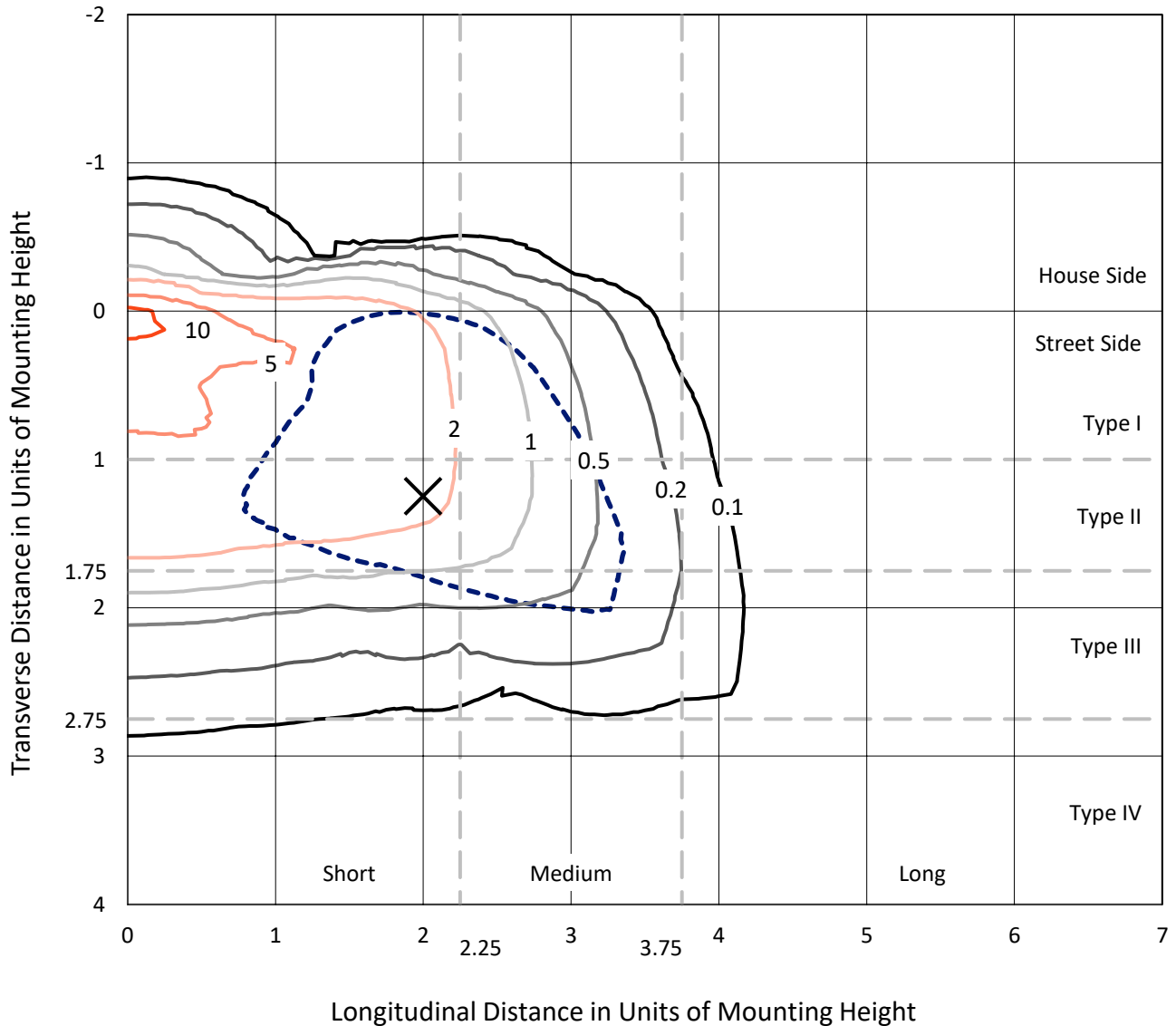
Lumens per Lamp: N/A  
Luminaire Lumens: 25274.2 lumens  
Efficiency: N/A  
Efficacy: 104.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

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

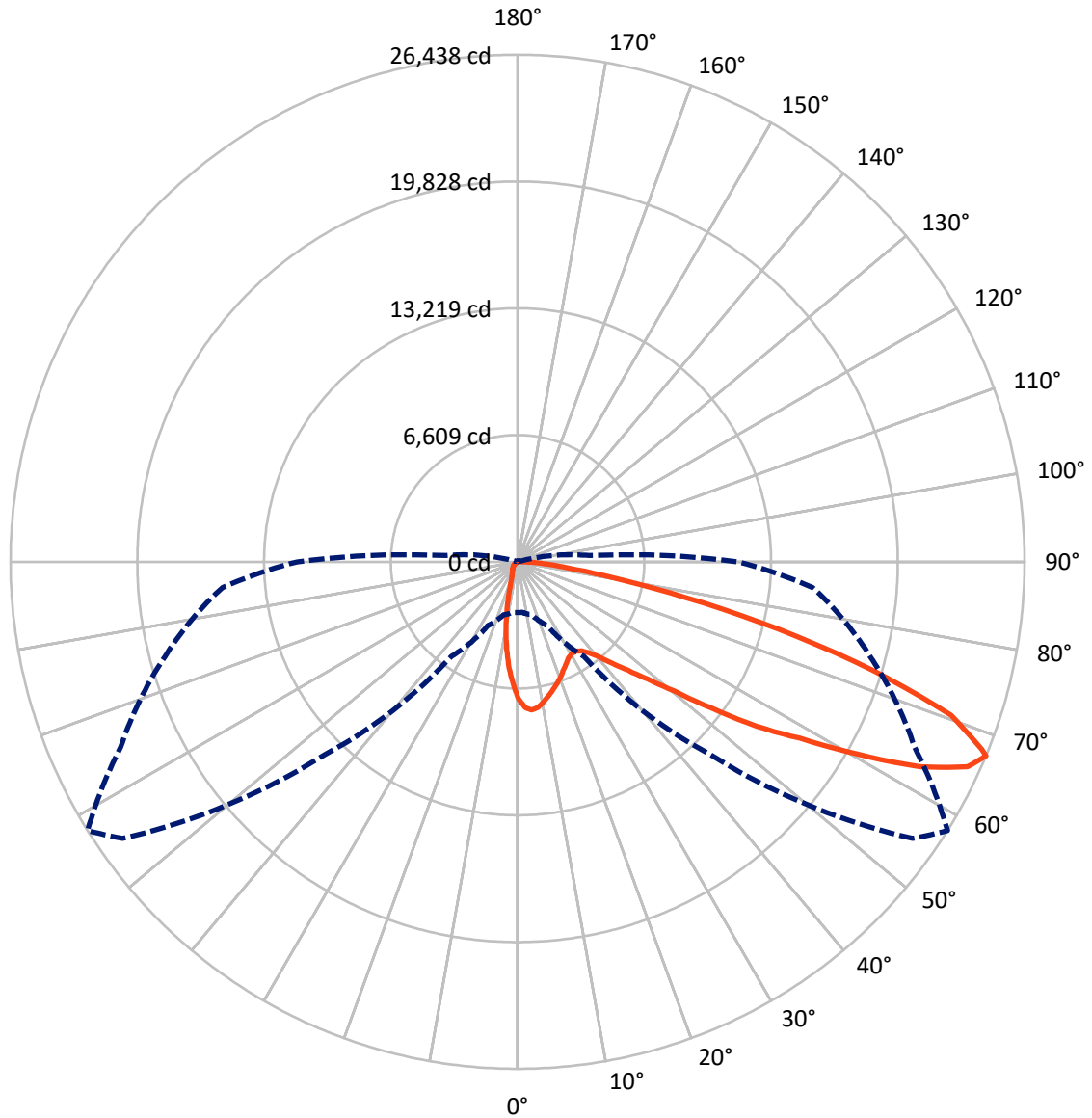
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 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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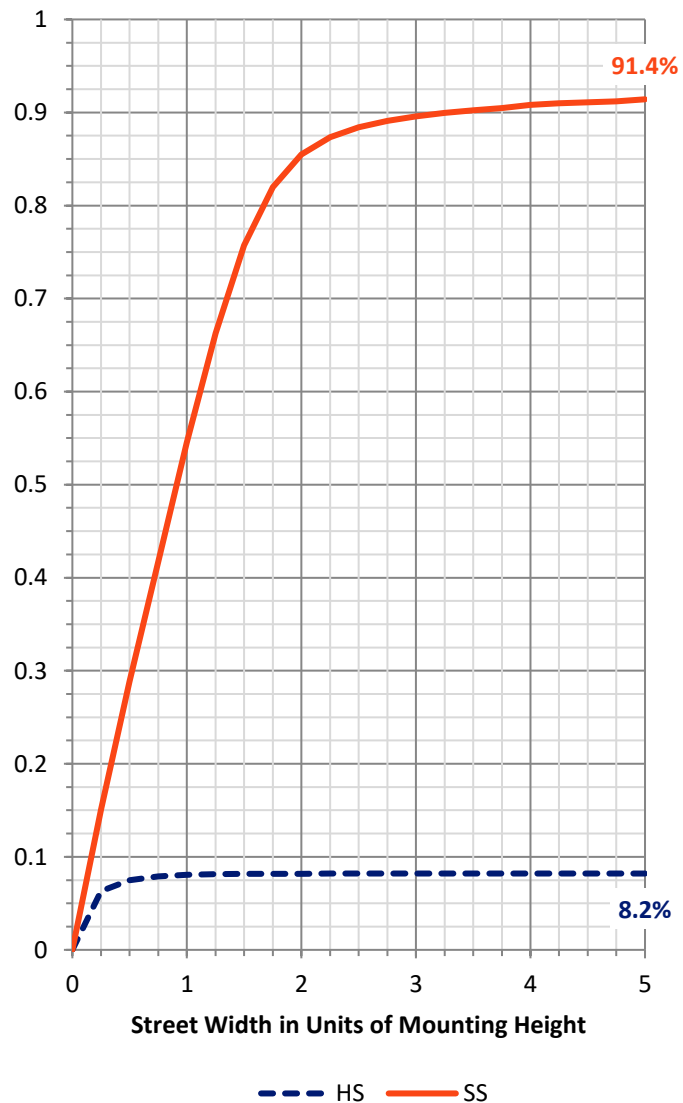
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2089.1	0.0	2089.1
	% Fixture	8.3	0.0	8.3
<b>Street Side</b>	Lumens	23185.1	0.0	23185.1
	% Fixture	91.7	0.0	91.7
<b>Total</b>	Lumens	25274.2	0.0	25274.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	568.2	2.2
10°-20°	1178.5	4.7
20°-30°	1563.6	6.2
30°-40°	2166.6	8.6
40°-50°	3535.2	14.0
50°-60°	6213.8	24.6
60°-70°	6882.3	27.2
70°-80°	2852.0	11.3
80°-90°	314.0	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°	25274.2	100.0
0°-180°	25274.2	100.0

**Coefficient of Utilization**



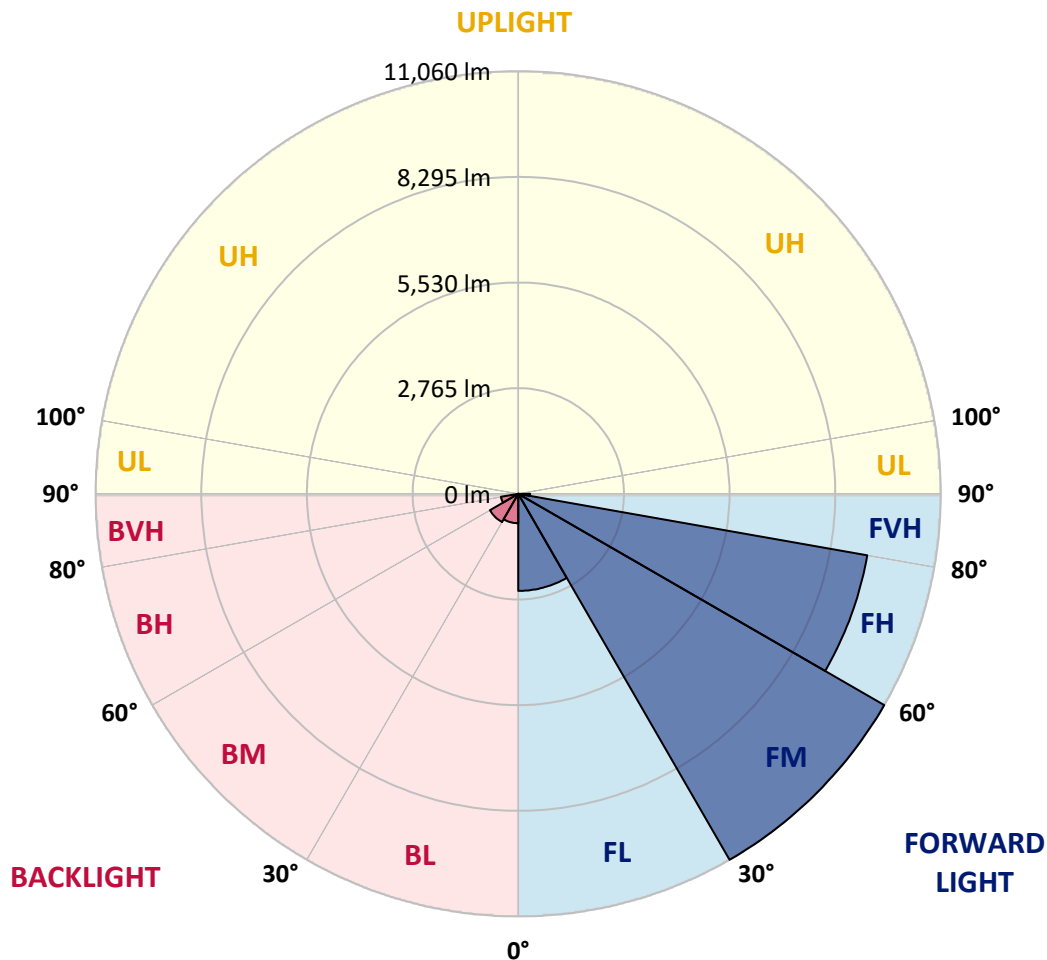
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2540.8	10.1			
FM (30°-60°)	11060.5	43.8			
FH (60°-80°)	9275.1	36.7			G4/12000
FVH (80°-90°)	308.8	1.2			G3/500
BL (0°-30°)	769.4	3.0	B2/1000		
BM (30°-60°)	855.2	3.4	B1/1000		
BH (60°-80°)	459.3	1.8	B1/500		G1/500
BVH (80°-90°)	5.2	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-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°
0°	7160.5	7160.5	7160.5	7160.5	7160.5	7160.5	7160.5	7160.5	7160.5	7160.5
2.5°	7791.3	7818.2	7841.7	7798.1	7835.0	7781.3	7643.7	7613.5	7590.0	7385.3
5°	7788.0	7757.8	7781.3	7801.4	7751.1	7791.3	7757.8	7761.1	7670.6	7486.0
7.5°	7267.9	7254.5	7267.9	7365.2	7475.9	7563.2	7613.5	7663.8	7603.4	7328.3
10°	6566.6	6633.7	6670.6	6845.1	7016.2	7177.3	7335.0	7429.0	7412.2	7301.5
12.5°	6076.7	6056.6	6190.8	6304.9	6476.0	6801.5	7076.6	7163.9	7264.5	7110.2
15°	5623.7	5570.0	5650.6	5848.5	6140.5	6398.8	6784.7	6915.6	7043.1	7083.3
17.5°	5190.9	5217.7	5301.6	5479.4	5754.6	6117.0	6479.4	6667.3	6972.6	6918.9
20°	4982.8	5039.9	5070.1	5160.7	5351.9	5714.3	6254.6	6405.5	6731.0	6915.6
22.5°	4992.9	4992.9	4922.4	4976.1	5150.6	5432.5	5949.2	6117.0	6633.7	6741.1
25°	5100.3	5033.2	5036.5	4972.8	5046.6	5200.9	5674.1	5878.7	6435.7	6757.9
27.5°	5180.8	5167.4	5147.3	5130.5	5036.5	5060.0	5492.9	5660.6	6358.6	6737.7
30°	5472.7	5412.3	5392.2	5355.3	5231.1	5117.1	5348.6	5560.0	6298.2	6784.7
32.5°	5717.7	5727.7	5744.5	5637.1	5529.8	5247.9	5388.8	5556.6	6254.6	6892.1
35°	6026.4	6070.0	6076.7	6043.2	5929.1	5650.6	5556.6	5700.9	6328.4	7083.3
37.5°	6496.1	6449.2	6576.7	6590.1	6509.6	6140.5	5945.9	6002.9	6546.5	7388.7
40°	6801.5	6858.5	7096.8	7244.4	7106.8	6771.3	6509.6	6499.5	6861.9	7868.5
42.5°	7140.4	7267.9	7529.6	7848.4	7831.6	7519.6	7254.5	7210.9	7422.2	8563.1
45°	7603.4	7717.5	8083.3	8563.1	8824.8	8559.7	8160.4	8073.2	8103.4	9509.3
47.5°	8371.8	8341.6	8868.4	9341.6	9771.1	9566.4	9395.2	9140.2	9116.7	10623.3
50°	9240.9	9234.2	9704.0	10240.8	10737.4	11136.7	10851.5	10573.0	10579.7	12136.6
52.5°	10066.3	10197.2	10703.9	11237.4	12089.7	12519.2	12794.3	12683.6	12150.1	13488.9
55°	10502.5	10616.6	11119.9	12039.3	13384.9	14488.8	15233.7	15139.8	14109.7	15012.3
57.5°	10089.8	10167.0	10848.2	12052.8	14290.8	16753.7	17468.5	17351.0	16136.3	16176.6
60°	8361.8	8482.6	9495.9	10908.6	13938.5	18498.6	20545.4	20367.6	17981.8	17649.6
62.5°	5791.5	5872.0	6704.2	8462.4	12267.5	19105.9	23451.2	23548.5	19928.0	18797.2
65°	3751.4	3744.7	4221.2	5412.3	8694.0	17267.1	25169.2	25773.2	21807.0	18971.7
67°	2650.8	2640.7	2865.6	3670.9	6019.7	14227.1	25139.0	26437.6	22827.1	19022.0
67.5°	2446.1	2436.1	2650.8	3375.6	5432.5	13230.5	24763.2	26095.3	23186.1	18951.6
70°	1899.2	1872.3	1952.9	2325.3	3164.2	8556.4	21193.0	23971.3	22441.2	17193.3
72.5°	1372.4	1402.6	1530.1	1909.2	2483.0	4603.7	16153.1	19384.4	18743.5	12958.7
75°	956.3	983.1	1187.8	1556.9	2278.3	2791.7	10922.0	14059.3	13056.0	7153.8
77.5°	500.0	533.5	758.3	1244.9	2070.3	2160.9	6526.3	8915.4	6918.9	2546.8
80°	231.5	248.3	379.2	882.5	1731.4	1899.2	3805.1	4959.3	2768.2	570.4
82.5°	100.7	110.7	174.5	506.7	1228.1	1660.9	2355.5	2600.5	1003.3	184.5
85°	20.1	23.5	67.1	268.4	593.9	1006.6	1654.2	1543.5	503.3	90.6
87.5°	0.0	0.0	16.8	77.2	161.1	298.6	701.3	701.3	154.4	47.0
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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**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
7160.5	0°	7160.5	7160.5	7160.5	7160.5	7160.5	7160.5	7160.5	7160.5	7160.5	7160.5
7267.9	2.5°	7163.9	7043.1	6778.0	6533.1	6358.6	6160.6	5898.9	5781.4	5737.8	5677.4
7157.2	5°	6976.0	6828.3	6375.3	5919.0	5419.0	5039.9	4637.2	4402.3	4224.5	4113.8
7009.5	7.5°	6710.9	6408.9	5798.2	5066.7	4419.1	3855.4	3244.7	2832.0	2566.9	2459.5
6848.5	10°	6499.5	6106.9	5177.5	4268.1	3405.8	2580.3	1892.5	1530.1	1254.9	1150.9
6637.1	12.5°	6224.4	5754.6	4597.0	3452.8	2368.9	1536.8	1046.9	909.3	832.2	818.7
6523.0	15°	5996.2	5435.8	4046.7	2674.3	1533.4	959.7	815.4	781.8	761.7	755.0
6351.9	17.5°	5841.8	5093.6	3483.0	1946.2	1010.0	785.2	751.6	731.5	721.4	718.1
6184.1	20°	5536.5	4805.0	2925.9	1362.3	788.5	724.8	697.9	681.2	671.1	667.7
6033.1	22.5°	5362.0	4439.3	2368.9	949.6	701.3	657.7	637.5	624.1	607.3	597.3
5952.6	25°	5187.5	4170.8	1872.3	738.2	637.5	607.3	577.1	560.4	533.5	520.1
5828.4	27.5°	4982.8	3905.7	1442.8	640.9	573.8	543.6	513.4	486.5	453.0	439.6
5757.9	30°	4865.4	3647.4	1087.2	573.8	526.8	486.5	449.6	416.1	379.2	355.7
5828.4	32.5°	4805.0	3412.5	815.4	523.4	476.5	432.9	385.9	345.6	312.1	291.9
5835.1	35°	4731.2	3184.3	640.9	476.5	429.5	382.5	335.5	295.3	261.7	244.9
6090.1	37.5°	4808.4	3050.1	533.5	439.6	392.6	338.9	288.6	248.3	221.5	204.7
6405.5	40°	5019.7	2939.4	463.1	406.0	355.7	298.6	251.7	211.4	187.9	174.5
6905.5	42.5°	5345.2	2939.4	419.4	372.5	322.1	261.7	214.7	184.5	161.1	147.6
7757.8	45°	5935.8	3030.0	382.5	338.9	281.9	224.8	184.5	154.4	130.9	117.4
8935.6	47.5°	6764.6	3238.0	352.3	308.7	251.7	198.0	161.1	130.9	107.4	94.0
10321.4	50°	7878.6	3711.1	322.1	271.8	224.8	171.1	134.2	104.0	83.9	70.5
11804.5	52.5°	9267.7	4382.2	291.9	251.7	191.3	144.3	107.4	83.9	63.8	53.7
13267.4	55°	10737.4	5204.3	255.0	224.8	164.4	120.8	87.2	63.8	47.0	40.3
15035.8	57.5°	12217.2	5838.5	224.8	194.6	134.2	97.3	70.5	50.3	33.6	26.8
16173.3	60°	13002.4	5898.9	194.6	161.1	107.4	77.2	53.7	36.9	23.5	16.8
16512.2	62.5°	13123.2	5362.0	167.8	130.9	87.2	60.4	36.9	26.8	13.4	6.7
16408.1	65°	12502.4	4469.5	144.3	104.0	67.1	43.6	26.8	16.8	6.7	3.4
15445.1	67°	11495.8	3744.7	124.2	87.2	53.7	33.6	20.1	10.1	3.4	0.0
15022.3	67.5°	11106.5	3543.4	117.4	80.5	50.3	30.2	16.8	10.1	3.4	0.0
11995.7	70°	8620.1	2530.0	87.2	57.0	36.9	23.5	13.4	6.7	0.0	0.0
7623.6	72.5°	5281.5	1479.8	67.1	40.3	26.8	16.8	10.1	3.4	0.0	0.0
3248.1	75°	2214.6	510.0	57.0	30.2	20.1	10.1	6.7	3.4	0.0	0.0
895.9	77.5°	577.1	191.3	40.3	20.1	13.4	10.1	6.7	3.4	0.0	0.0
308.7	80°	234.9	87.2	26.8	13.4	13.4	10.1	6.7	3.4	0.0	0.0
191.3	82.5°	154.4	40.3	16.8	13.4	10.1	6.7	3.4	0.0	0.0	0.0
151.0	85°	117.4	23.5	10.1	10.1	6.7	3.4	0.0	0.0	0.0	0.0
57.0	87.5°	50.3	13.4	10.1	6.7	6.7	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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