

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: P575410

Luminaire Tested: **EPH-VN-04-735-U-SL3-HSS**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P575410  
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-SL3-HSS  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL3 distribution lens and House Side Shield  
Light Source: (64) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

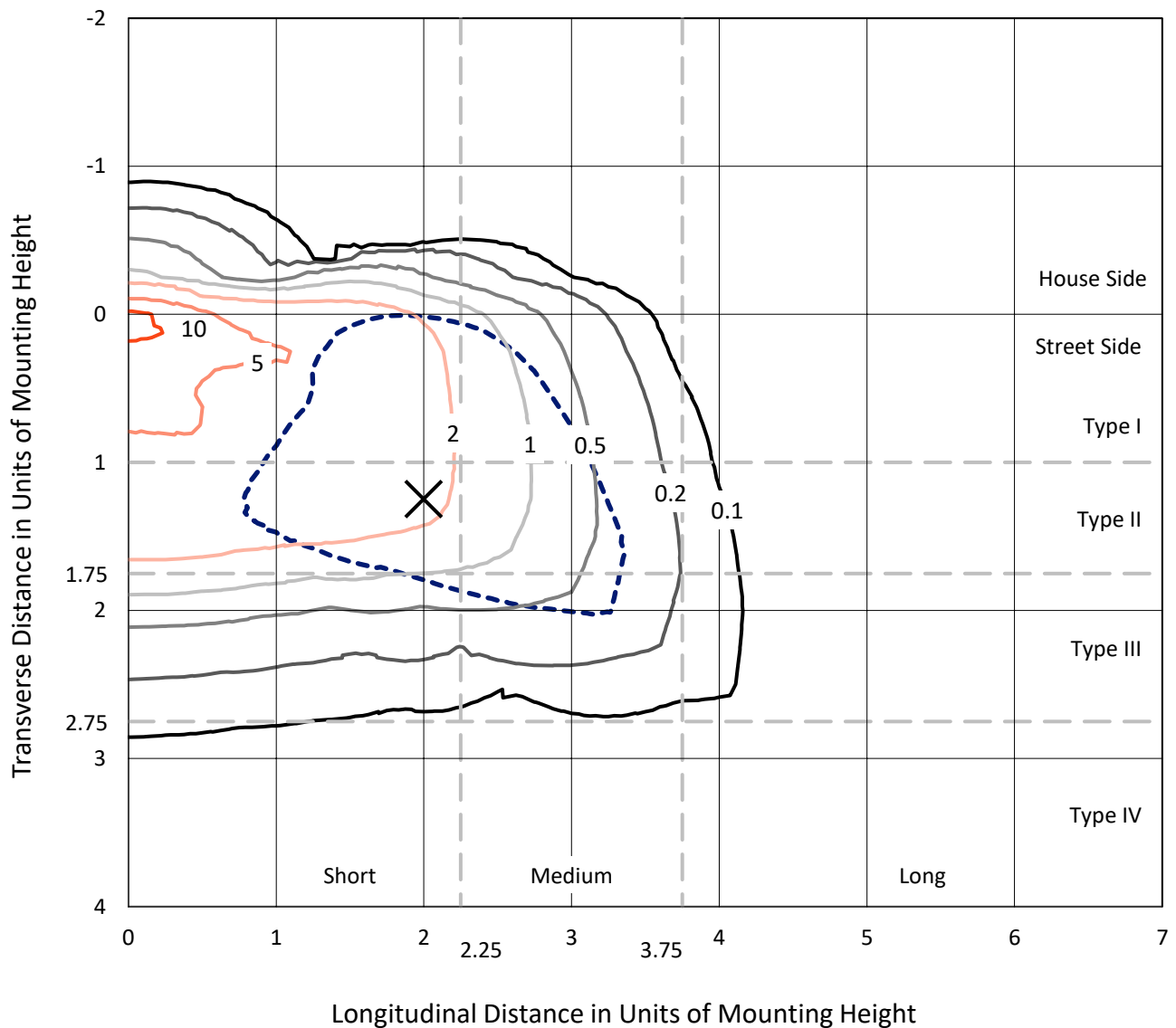
Lumens per Lamp: N/A  
Luminaire Lumens: 24927.9 lumens  
Efficiency: N/A  
Efficacy: 103.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

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

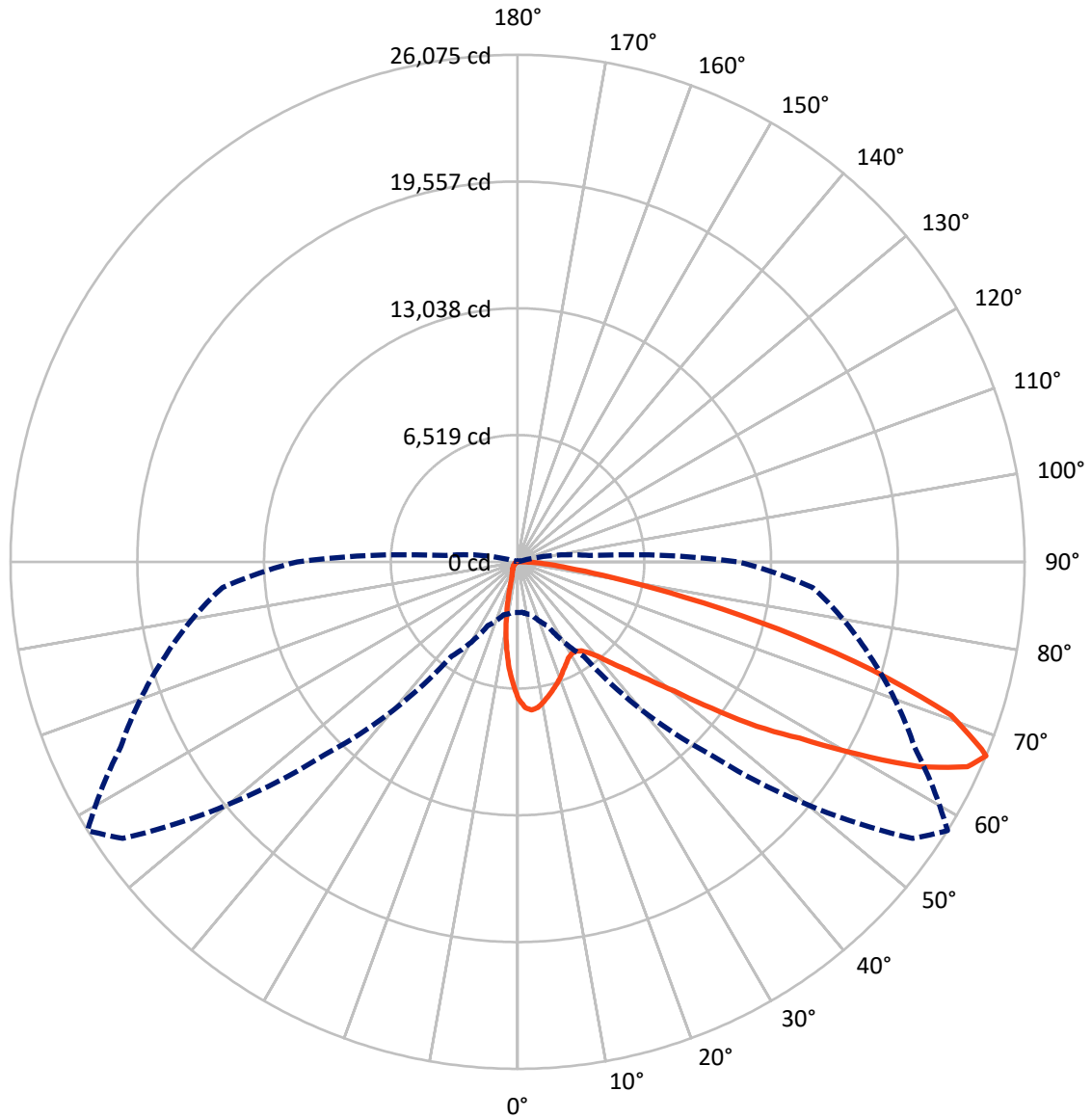
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 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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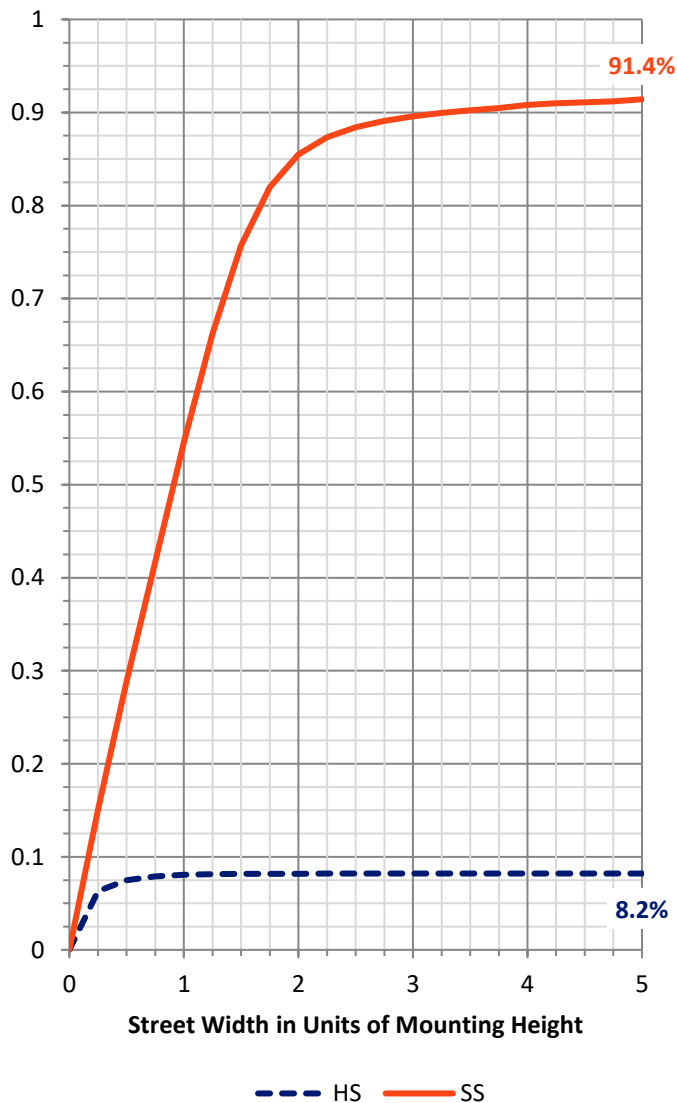
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2060.4	0.0	2060.4
	% Fixture	8.3	0.0	8.3
<b>Street Side</b>	Lumens	22867.5	0.0	22867.5
	% Fixture	91.7	0.0	91.7
<b>Total</b>	Lumens	24927.9	0.0	24927.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	560.4	2.2
10°-20°	1162.3	4.7
20°-30°	1542.1	6.2
30°-40°	2136.9	8.6
40°-50°	3486.8	14.0
50°-60°	6128.7	24.6
60°-70°	6788.0	27.2
70°-80°	2813.0	11.3
80°-90°	309.6	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°	24927.9	100.0
0°-180°	24927.9	100.0

**Coefficient of Utilization**



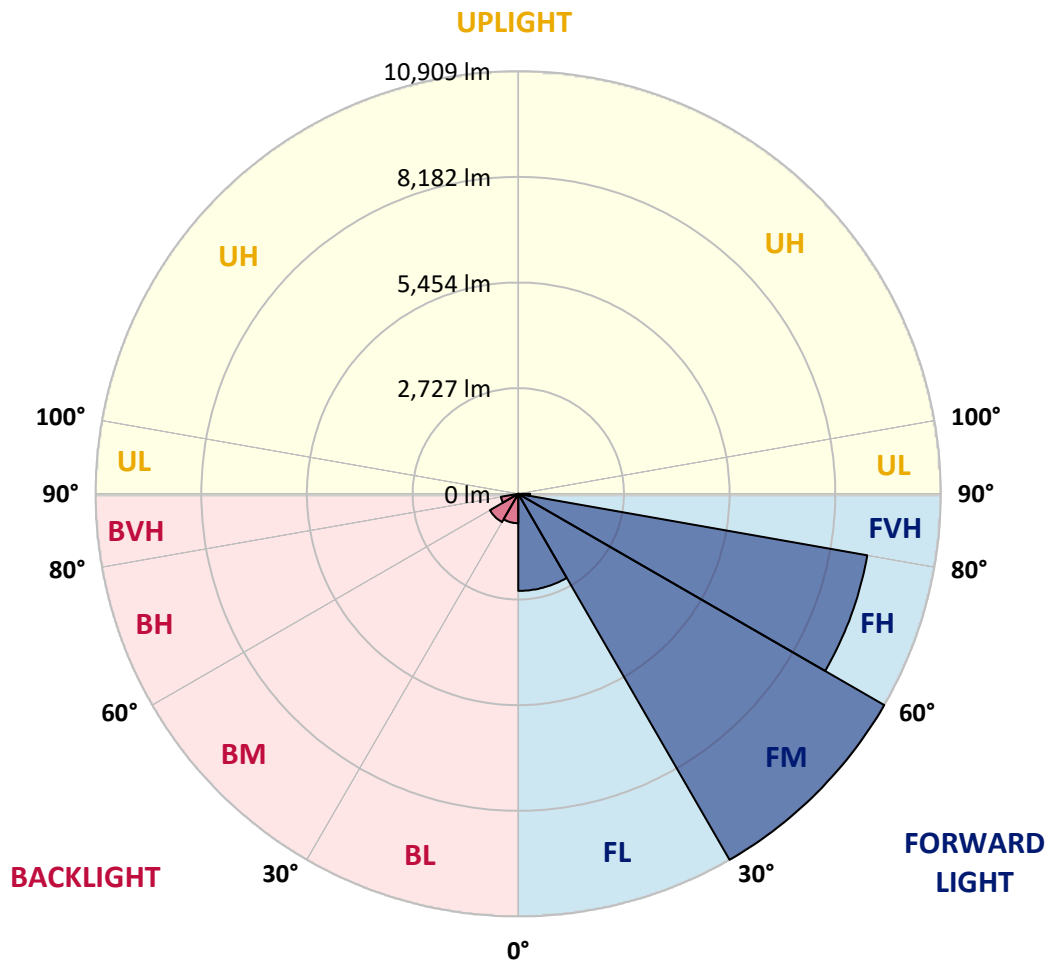
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2506.0	10.1			
FM (30°-60°)	10909.0	43.8			
FH (60°-80°)	9148.0	36.7			G4/12000
FVH (80°-90°)	304.6	1.2			G3/500
BL (0°-30°)	758.9	3.0	B2/1000		
BM (30°-60°)	843.5	3.4	B1/1000		
BH (60°-80°)	453.0	1.8	B1/500		G1/500
BVH (80°-90°)	5.1	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°	7062.4	7062.4	7062.4	7062.4	7062.4	7062.4	7062.4	7062.4	7062.4	7062.4
2.5°	7684.6	7711.1	7734.2	7691.2	7727.6	7674.7	7539.0	7509.2	7486.0	7284.2
5°	7681.3	7651.5	7674.7	7694.5	7644.9	7684.6	7651.5	7654.8	7565.5	7383.4
7.5°	7168.3	7155.1	7168.3	7264.3	7373.5	7459.6	7509.2	7558.8	7499.3	7227.9
10°	6476.6	6542.8	6579.2	6751.3	6920.1	7079.0	7234.5	7327.2	7310.6	7201.4
12.5°	5993.5	5973.6	6106.0	6218.5	6387.3	6708.3	6979.7	7065.7	7165.0	7012.8
15°	5546.7	5493.7	5573.2	5768.4	6056.3	6311.2	6691.8	6820.8	6946.6	6986.3
17.5°	5119.8	5146.2	5229.0	5404.4	5675.8	6033.2	6390.6	6575.9	6877.1	6824.1
20°	4914.6	4970.8	5000.6	5090.0	5278.6	5636.0	6168.9	6317.8	6638.8	6820.8
22.5°	4924.5	4924.5	4855.0	4908.0	5080.0	5358.0	5867.7	6033.2	6542.8	6648.7
25°	5030.4	4964.2	4967.5	4904.6	4977.5	5129.7	5596.3	5798.2	6347.6	6665.3
27.5°	5109.8	5096.6	5076.7	5060.2	4967.5	4990.7	5417.6	5583.1	6271.5	6645.4
30°	5397.8	5338.2	5318.3	5281.9	5159.5	5047.0	5275.3	5483.8	6211.9	6691.8
32.5°	5639.3	5649.3	5665.8	5559.9	5454.0	5176.0	5315.0	5480.5	6168.9	6797.7
35°	5943.8	5986.8	5993.5	5960.4	5847.8	5573.2	5480.5	5622.8	6241.7	6986.3
37.5°	6407.1	6360.8	6486.6	6499.8	6420.4	6056.3	5864.4	5920.7	6456.8	7287.5
40°	6708.3	6764.6	6999.5	7145.2	7009.5	6678.5	6420.4	6410.5	6767.9	7760.7
42.5°	7042.6	7168.3	7426.5	7740.9	7724.3	7416.5	7155.1	7112.1	7320.6	8445.8
45°	7499.3	7611.8	7972.5	8445.8	8703.9	8442.5	8048.6	7962.6	7992.4	9379.1
47.5°	8257.1	8227.4	8746.9	9213.6	9637.2	9435.3	9266.5	9015.0	8991.8	10477.8
50°	9114.3	9107.7	9571.0	10100.5	10590.3	10984.2	10702.8	10428.2	10434.8	11970.4
52.5°	9928.4	10057.5	10557.2	11083.4	11924.0	12347.7	12619.0	12509.8	11983.6	13304.1
55°	10358.7	10471.2	10967.6	11874.4	13201.5	14290.3	15025.0	14932.4	13916.3	14806.6
57.5°	9951.6	10027.7	10699.5	11887.6	14095.1	16524.2	17229.1	17113.3	15915.3	15955.0
60°	8247.2	8366.4	9365.8	10759.1	13747.6	18245.1	20263.9	20088.5	17735.5	17407.8
62.5°	5712.2	5791.6	6612.3	8346.5	12099.4	18844.2	23129.9	23225.9	19655.0	18539.7
65°	3700.0	3693.4	4163.3	5338.2	8574.9	17030.6	24824.4	25420.1	21508.3	18711.8
67°	2614.5	2604.6	2826.3	3620.6	5937.2	14032.2	24794.6	26075.4	22514.4	18761.4
67.5°	2412.6	2402.7	2614.5	3329.3	5358.0	13049.3	24423.9	25737.8	22868.5	18691.9
70°	1873.2	1846.7	1926.1	2293.5	3120.8	8439.2	20902.7	23642.9	22133.8	16957.8
72.5°	1353.6	1383.4	1509.1	1883.1	2449.0	4540.6	15931.8	19118.8	18486.7	12781.2
75°	943.2	969.7	1171.6	1535.6	2247.1	2753.5	10772.3	13866.7	12877.2	7055.8
77.5°	493.1	526.2	747.9	1227.8	2041.9	2131.3	6436.9	8793.3	6824.1	2511.9
80°	228.4	244.9	374.0	870.4	1707.7	1873.2	3752.9	4891.4	2730.3	562.6
82.5°	99.3	109.2	172.1	499.7	1211.3	1638.2	2323.3	2564.8	989.5	182.0
85°	19.9	23.2	66.2	264.8	585.8	992.8	1631.6	1522.4	496.4	89.4
87.5°	0.0	0.0	16.5	76.1	158.9	294.5	691.7	691.7	152.2	46.3
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°
7062.4	0°	7062.4	7062.4	7062.4	7062.4	7062.4	7062.4	7062.4	7062.4	7062.4	7062.4
7168.3	2.5°	7065.7	6946.6	6685.1	6443.6	6271.5	6076.2	5818.1	5702.2	5659.2	5599.6
7059.1	5°	6880.4	6734.8	6288.0	5837.9	5344.8	4970.8	4573.7	4342.0	4166.6	4057.4
6913.5	7.5°	6619.0	6321.1	5718.8	4997.3	4358.6	3802.6	3200.3	2793.2	2531.7	2425.8
6754.6	10°	6410.5	6023.2	5106.5	4209.7	3359.1	2545.0	1866.5	1509.1	1237.7	1135.2
6546.1	12.5°	6139.1	5675.8	4534.0	3405.5	2336.5	1515.7	1032.6	896.9	820.8	807.5
6433.6	15°	5914.0	5361.4	3991.2	2637.7	1512.4	946.5	804.2	771.1	751.3	744.6
6264.8	17.5°	5761.8	5023.8	3435.2	1919.5	996.2	774.4	741.3	721.5	711.5	708.2
6099.4	20°	5460.6	4739.2	2885.9	1343.6	777.7	714.8	688.4	671.8	661.9	658.6
5950.4	22.5°	5288.5	4378.4	2336.5	936.6	691.7	648.7	628.8	615.6	599.0	589.1
5871.0	25°	5116.5	4113.7	1846.7	728.1	628.8	599.0	569.2	552.7	526.2	513.0
5748.6	27.5°	4914.6	3852.2	1423.1	632.1	565.9	536.1	506.3	479.9	446.8	433.5
5679.1	30°	4798.7	3597.4	1072.3	565.9	519.6	479.9	443.5	410.4	374.0	350.8
5748.6	32.5°	4739.2	3365.7	804.2	516.3	469.9	426.9	380.6	340.9	307.8	287.9
5755.2	35°	4666.4	3140.7	632.1	469.9	423.6	377.3	330.9	291.2	258.1	241.6
6006.7	37.5°	4742.5	3008.3	526.2	433.5	387.2	334.3	284.6	244.9	218.4	201.9
6317.8	40°	4951.0	2899.1	456.7	400.4	350.8	294.5	248.2	208.5	185.3	172.1
6810.9	42.5°	5272.0	2899.1	413.7	367.4	317.7	258.1	211.8	182.0	158.9	145.6
7651.5	45°	5854.5	2988.5	377.3	334.3	278.0	221.7	182.0	152.2	129.1	115.8
8813.1	47.5°	6671.9	3193.6	347.5	304.5	248.2	195.3	158.9	129.1	105.9	92.7
10180.0	50°	7770.7	3660.3	317.7	268.1	221.7	168.8	132.4	102.6	82.7	69.5
11642.7	52.5°	9140.8	4322.2	287.9	248.2	188.6	142.3	105.9	82.7	62.9	53.0
13085.7	55°	10590.3	5133.0	251.5	221.7	162.2	119.1	86.0	62.9	46.3	39.7
14829.8	57.5°	12049.8	5758.5	221.7	191.9	132.4	96.0	69.5	49.6	33.1	26.5
15951.7	60°	12824.2	5818.1	191.9	158.9	105.9	76.1	53.0	36.4	23.2	16.5
16285.9	62.5°	12943.4	5288.5	165.5	129.1	86.0	59.6	36.4	26.5	13.2	6.6
16183.3	65°	12331.1	4408.2	142.3	102.6	66.2	43.0	26.5	16.5	6.6	3.3
15233.5	67°	11338.3	3693.4	122.5	86.0	53.0	33.1	19.9	9.9	3.3	0.0
14816.5	67.5°	10954.4	3494.8	115.8	79.4	49.6	29.8	16.5	9.9	3.3	0.0
11831.4	70°	8502.0	2495.3	86.0	56.3	36.4	23.2	13.2	6.6	0.0	0.0
7519.1	72.5°	5209.1	1459.5	66.2	39.7	26.5	16.5	9.9	3.3	0.0	0.0
3203.6	75°	2184.3	503.0	56.3	29.8	19.9	9.9	6.6	3.3	0.0	0.0
883.6	77.5°	569.2	188.6	39.7	19.9	13.2	9.9	6.6	3.3	0.0	0.0
304.5	80°	231.7	86.0	26.5	13.2	13.2	9.9	6.6	3.3	0.0	0.0
188.6	82.5°	152.2	39.7	16.5	13.2	9.9	6.6	3.3	0.0	0.0	0.0
148.9	85°	115.8	23.2	9.9	9.9	6.6	3.3	0.0	0.0	0.0	0.0
56.3	87.5°	49.6	13.2	9.9	6.6	6.6	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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