

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: P575412

Luminaire Tested: **EPH-VN-06-735-U-SL3-HSS**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P575412  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 10/19/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-VN-06-735-U-SL3-HSS  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL3 distribution lens and House Side Shield  
Light Source: (96) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

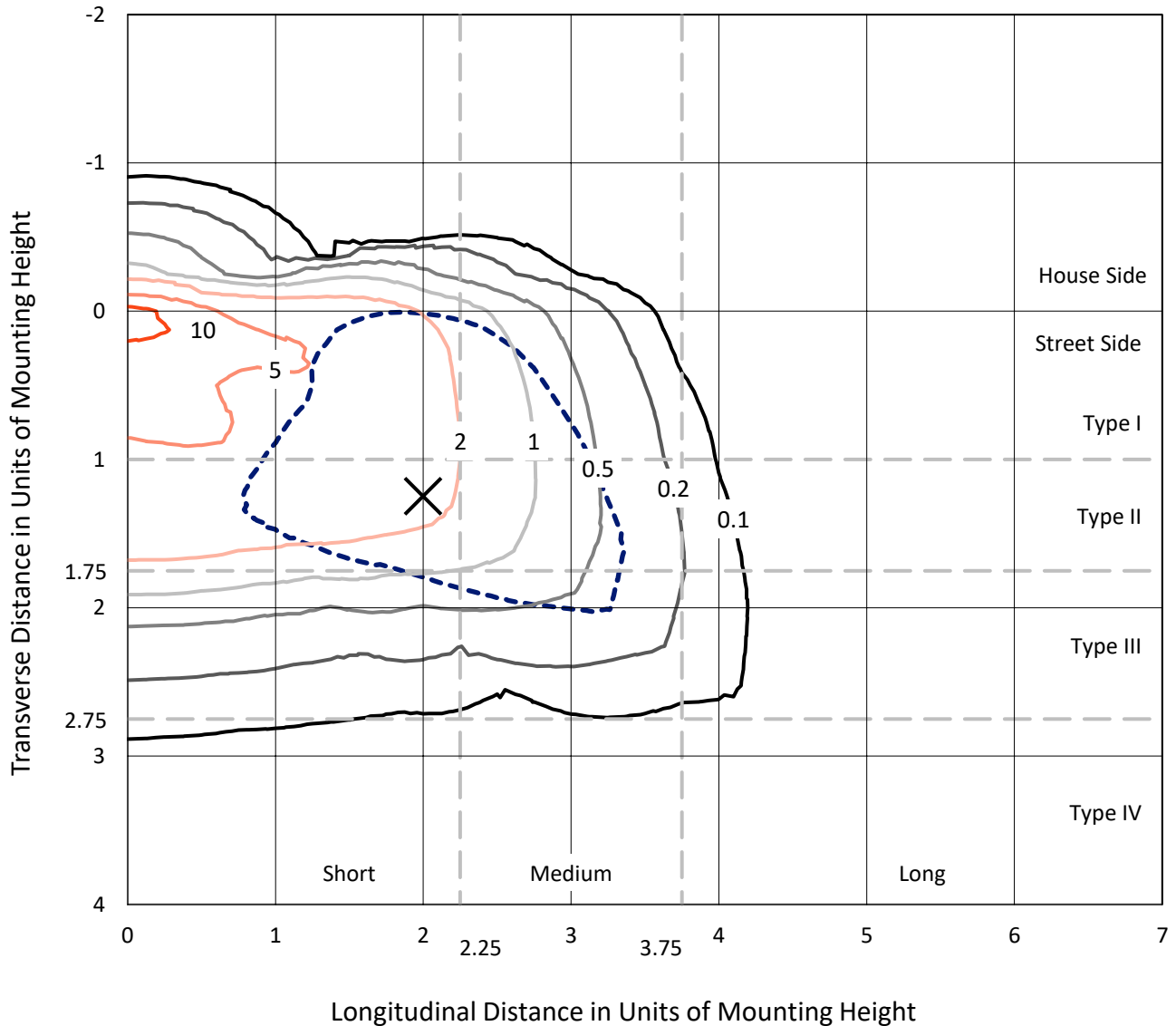
Lumens per Lamp: N/A  
Luminaire Lumens: 37713.3 lumens  
Efficiency: N/A  
Efficacy: 102.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 368.2  
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

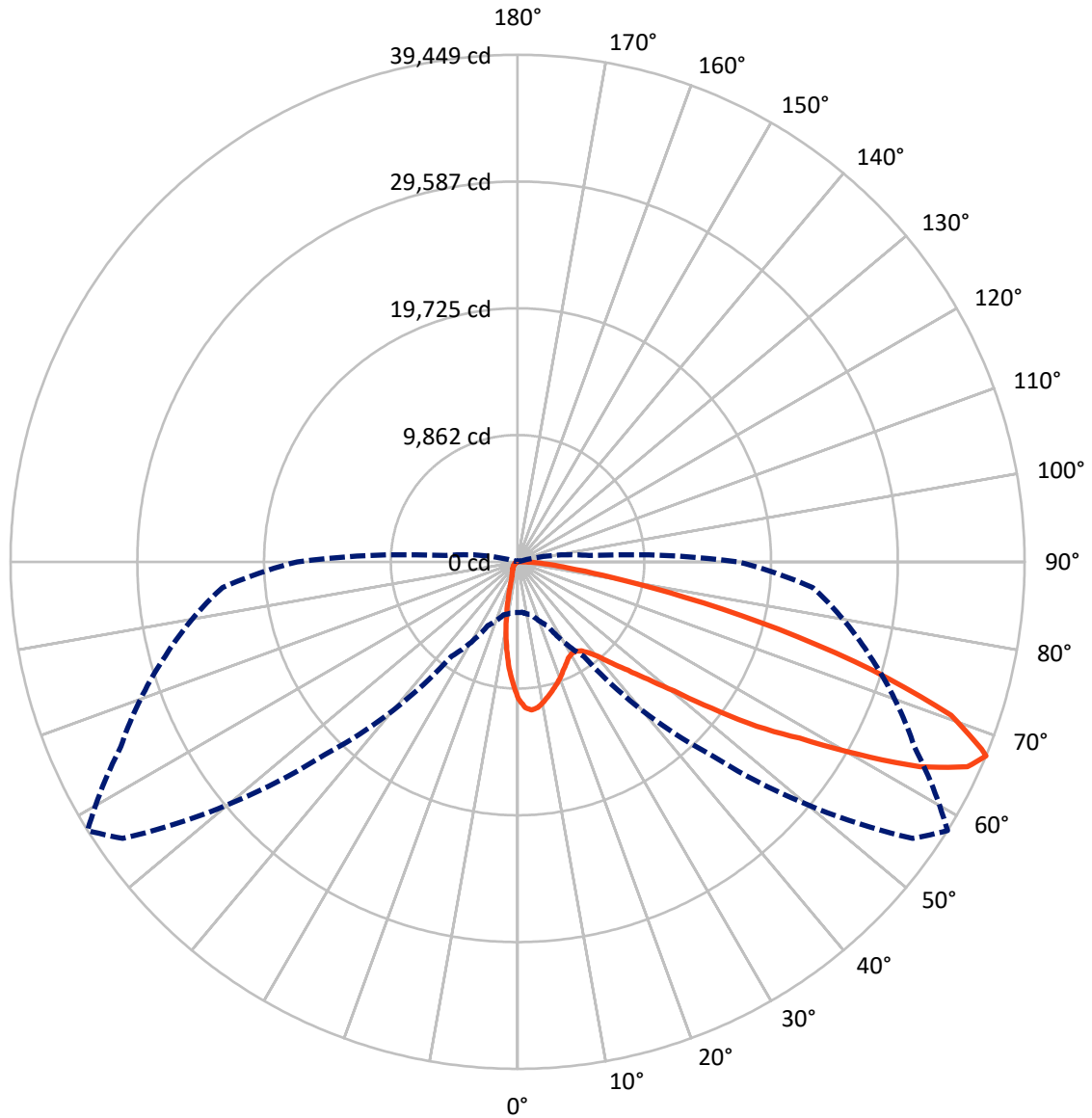
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.9 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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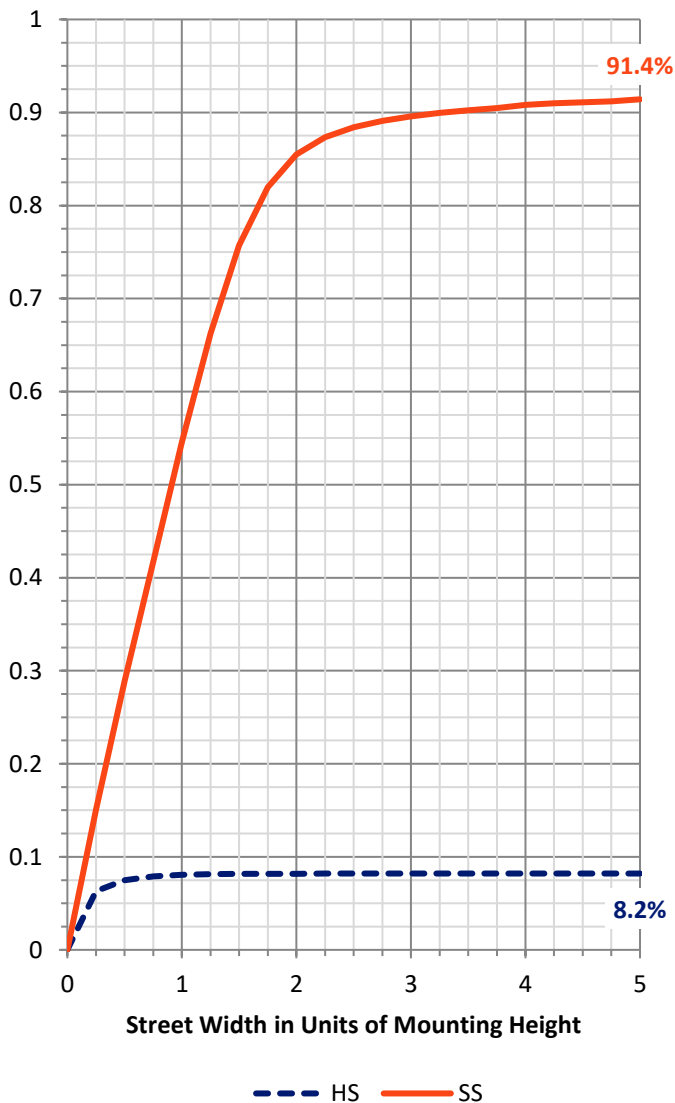
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3117.2	0.0	3117.2
	% Fixture	8.3	0.0	8.3
<b>Street Side</b>	Lumens	34596.1	0.0	34596.1
	% Fixture	91.7	0.0	91.7
<b>Total</b>	Lumens	37713.3	0.0	37713.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	847.8	2.2
10°-20°	1758.5	4.7
20°-30°	2333.1	6.2
30°-40°	3232.9	8.6
40°-50°	5275.2	14.0
50°-60°	9272.1	24.6
60°-70°	10269.6	27.2
70°-80°	4255.7	11.3
80°-90°	468.5	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°	37713.3	100.0
0°-180°	37713.3	100.0

**Coefficient of Utilization**

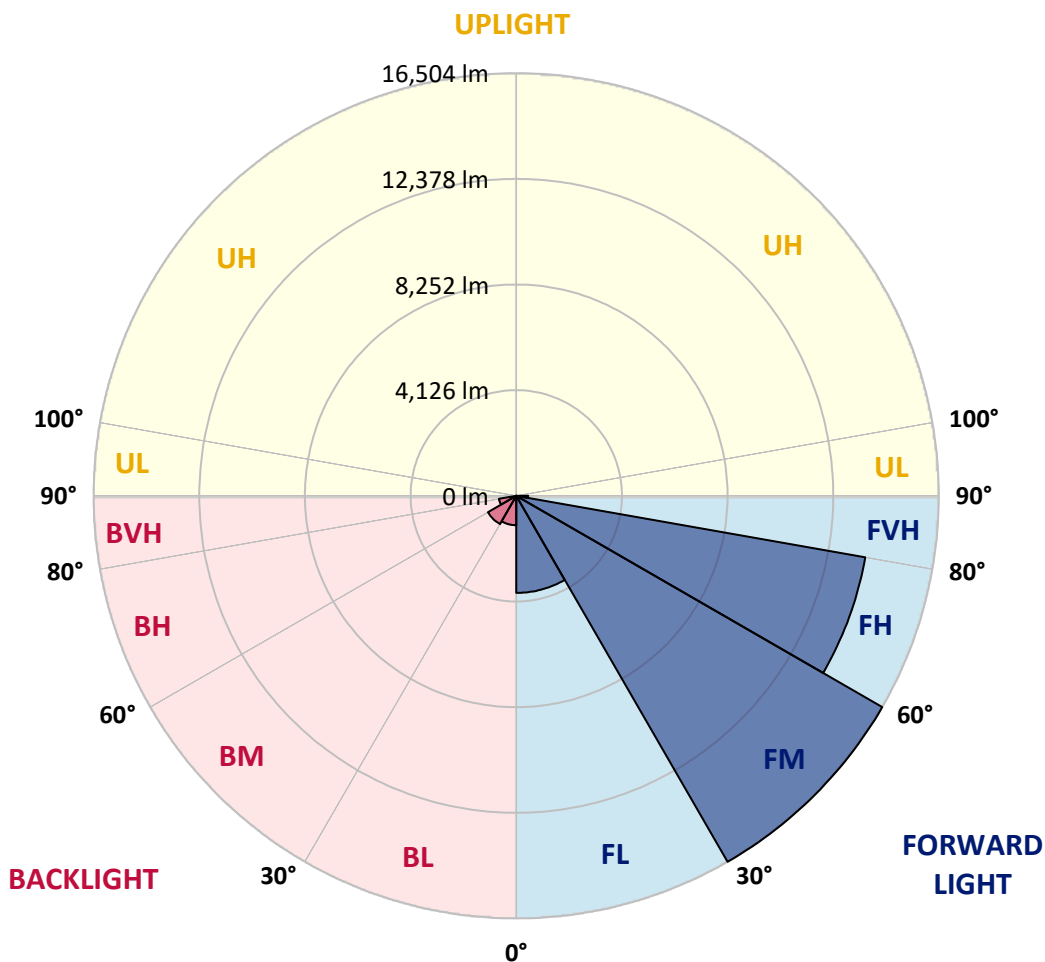


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3791.2	10.1			
FM (30°-60°)	16504.1	43.8			
FH (60°-80°)	13839.9	36.7			G5
FVH (80°-90°)	460.8	1.2			G3/500
BL (0°-30°)	1148.1	3.0	B3/2500		
BM (30°-60°)	1276.1	3.4	B2/2500		
BH (60°-80°)	685.4	1.8	B2/1000		G2/1000
BVH (80°-90°)	7.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°
0°	10684.7	10684.7	10684.7	10684.7	10684.7	10684.7	10684.7	10684.7	10684.7	10684.7
2.5°	11626.0	11666.0	11701.1	11636.0	11691.1	11611.0	11405.7	11360.6	11325.6	11020.2
5°	11621.0	11575.9	11611.0	11641.0	11565.9	11626.0	11575.9	11580.9	11445.7	11170.4
7.5°	10844.9	10824.9	10844.9	10990.1	11155.3	11285.5	11360.6	11435.7	11345.6	10935.0
10°	9798.5	9898.6	9953.7	10214.1	10469.4	10709.7	10945.1	11085.3	11060.2	10895.0
12.5°	9067.5	9037.4	9237.7	9407.9	9663.3	10149.0	10559.5	10689.7	10839.9	10609.6
15°	8391.5	8311.4	8431.6	8727.0	9162.6	9548.1	10123.9	10319.2	10509.5	10569.5
17.5°	7745.7	7785.7	7910.9	8176.2	8586.8	9127.6	9668.3	9948.7	10404.3	10324.2
20°	7435.2	7520.3	7565.4	7700.6	7986.0	8526.7	9332.8	9558.1	10043.8	10319.2
22.5°	7450.2	7450.2	7345.1	7425.2	7685.6	8106.2	8877.2	9127.6	9898.6	10058.8
25°	7610.5	7510.3	7515.3	7420.2	7530.4	7760.7	8466.6	8772.1	9603.2	10083.9
27.5°	7730.6	7710.6	7680.6	7655.5	7515.3	7550.4	8196.3	8446.6	9488.1	10053.8
30°	8166.2	8076.1	8046.1	7991.0	7805.7	7635.5	7981.0	8296.4	9397.9	10123.9
32.5°	8531.7	8546.8	8571.8	8411.6	8251.4	7830.8	8041.1	8291.4	9332.8	10284.1
35°	8992.4	9057.5	9067.5	9017.4	8847.2	8431.6	8291.4	8506.7	9443.0	10569.5
37.5°	9693.3	9623.2	9813.5	9833.5	9713.4	9162.6	8872.2	8957.3	9768.4	11025.2
40°	10149.0	10234.1	10589.6	10809.9	10604.6	10103.9	9713.4	9698.3	10239.1	11741.2
42.5°	10654.7	10844.9	11235.5	11711.1	11686.1	11220.4	10824.9	10759.8	11075.2	12777.6
45°	11345.6	11515.8	12061.6	12777.6	13168.1	12772.6	12176.8	12046.6	12091.6	14189.5
47.5°	12492.2	12447.1	13233.2	13939.2	14580.1	14274.6	14019.3	13638.8	13603.7	15851.8
50°	13789.0	13779.0	14479.9	15281.0	16022.0	16617.9	16192.3	15776.7	15786.7	18109.9
52.5°	15020.7	15215.9	15972.0	16768.1	18039.8	18680.7	19091.3	18926.0	18129.9	20127.7
55°	15671.6	15841.8	16592.8	17964.7	19972.5	21619.7	22731.3	22591.1	21054.0	22400.8
57.5°	15055.7	15170.9	16187.3	17984.7	21324.3	24999.4	26065.9	25890.6	24078.1	24138.2
60°	12477.2	12657.4	14169.5	16277.4	20798.6	27603.0	30657.2	30391.8	26831.9	26336.2
62.5°	8641.9	8762.1	10003.8	12627.4	18305.2	28509.2	34993.1	35138.3	29735.9	28048.6
65°	5597.7	5587.7	6298.7	8076.1	12972.8	25765.4	37556.7	38457.9	32539.8	28308.9
67°	3955.4	3940.4	4275.9	5477.5	8982.4	21229.2	37511.6	39449.3	34061.9	28384.0
67.5°	3650.0	3635.0	3955.4	5036.9	8106.2	19742.2	36950.8	38938.6	34597.6	28278.9
70°	2833.9	2793.8	2914.0	3469.8	4721.5	12767.6	31623.5	35769.2	33486.1	25655.3
72.5°	2047.8	2092.9	2283.1	2848.9	3705.1	6869.5	24103.2	28924.8	27968.5	19336.6
75°	1427.0	1467.0	1772.4	2323.2	3399.7	4165.7	16297.4	20978.9	19481.8	10674.7
77.5°	746.0	796.1	1131.6	1857.6	3089.3	3224.4	9738.4	13303.3	10324.2	3800.2
80°	345.5	370.5	565.8	1316.8	2583.6	2833.9	5677.8	7400.2	4130.7	851.2
82.5°	150.2	165.2	260.4	756.0	1832.5	2478.4	3514.8	3880.3	1497.1	275.4
85°	30.0	35.0	100.1	400.6	886.2	1502.1	2468.4	2303.2	751.0	135.2
87.5°	0.0	0.0	25.0	115.2	240.3	445.6	1046.4	1046.4	230.3	70.1
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°
10684.7	0°	10684.7	10684.7	10684.7	10684.7	10684.7	10684.7	10684.7	10684.7	10684.7	10684.7
10844.9	2.5°	10689.7	10509.5	10113.9	9748.4	9488.1	9192.6	8802.1	8626.9	8561.8	8471.7
10679.7	5°	10409.3	10189.0	9513.1	8832.2	8086.1	7520.3	6919.5	6569.0	6303.7	6138.4
10459.4	7.5°	10013.8	9563.2	8651.9	7560.4	6594.1	5752.9	4841.7	4225.8	3830.3	3670.0
10219.1	10°	9698.3	9112.5	7725.6	6368.8	5082.0	3850.3	2823.9	2283.1	1872.6	1717.4
9903.6	12.5°	9287.8	8586.8	6859.4	5152.1	3534.9	2293.2	1562.1	1356.9	1241.7	1221.7
9733.4	15°	8947.3	8111.2	6038.3	3990.5	2288.1	1432.0	1216.7	1166.6	1136.6	1126.5
9478.0	17.5°	8717.0	7600.5	5197.1	2904.0	1507.1	1171.6	1121.5	1091.5	1076.5	1071.5
9227.7	20°	8261.4	7169.9	4366.0	2032.8	1176.6	1081.5	1041.4	1016.4	1001.4	996.4
9002.4	22.5°	8001.0	6624.1	3534.9	1416.9	1046.4	981.4	951.3	931.3	906.2	891.2
8882.2	25°	7740.6	6223.6	2793.8	1101.5	951.3	906.2	861.2	836.2	796.1	776.1
8697.0	27.5°	7435.2	5828.0	2153.0	956.3	856.2	811.1	766.1	726.0	675.9	655.9
8591.8	30°	7260.0	5442.5	1622.2	856.2	786.1	726.0	670.9	620.9	565.8	530.7
8697.0	32.5°	7169.9	5092.0	1216.7	781.1	711.0	645.9	575.8	515.7	465.6	435.6
8707.0	35°	7059.7	4751.5	956.3	711.0	640.9	570.8	500.7	440.6	390.5	365.5
9087.5	37.5°	7174.9	4551.3	796.1	655.9	585.8	505.7	430.6	370.5	330.5	305.4
9558.1	40°	7490.3	4386.0	691.0	605.8	530.7	445.6	375.5	315.4	280.4	260.4
10304.2	42.5°	7976.0	4386.0	625.9	555.8	480.7	390.5	320.4	275.4	240.3	220.3
11575.9	45°	8857.2	4521.2	570.8	505.7	420.6	335.5	275.4	230.3	195.3	175.2
13333.3	47.5°	10093.9	4831.6	525.7	460.6	375.5	295.4	240.3	195.3	160.2	140.2
15401.2	50°	11756.2	5537.6	480.7	405.6	335.5	255.4	200.3	155.2	125.2	105.1
17614.2	52.5°	13829.0	6539.0	435.6	375.5	285.4	215.3	160.2	125.2	95.1	80.1
19797.2	55°	16022.0	7765.7	380.5	335.5	245.3	180.2	130.2	95.1	70.1	60.1
22435.9	57.5°	18230.1	8712.0	335.5	290.4	200.3	145.2	105.1	75.1	50.1	40.1
24133.2	60°	19401.7	8802.1	290.4	240.3	160.2	115.2	80.1	55.1	35.0	25.0
24638.9	62.5°	19581.9	8001.0	250.3	195.3	130.2	90.1	55.1	40.1	20.0	10.0
24483.7	65°	18655.7	6669.2	215.3	155.2	100.1	65.1	40.1	25.0	10.0	5.0
23046.7	67°	17153.6	5587.7	185.3	130.2	80.1	50.1	30.0	15.0	5.0	0.0
22415.8	67.5°	16572.8	5287.3	175.2	120.2	75.1	45.1	25.0	15.0	5.0	0.0
17899.6	70°	12862.7	3775.2	130.2	85.1	55.1	35.0	20.0	10.0	0.0	0.0
11375.7	72.5°	7880.8	2208.0	100.1	60.1	40.1	25.0	15.0	5.0	0.0	0.0
4846.7	75°	3304.5	761.0	85.1	45.1	30.0	15.0	10.0	5.0	0.0	0.0
1336.8	77.5°	861.2	285.4	60.1	30.0	20.0	15.0	10.0	5.0	0.0	0.0
460.6	80°	350.5	130.2	40.1	20.0	20.0	15.0	10.0	5.0	0.0	0.0
285.4	82.5°	230.3	60.1	25.0	20.0	15.0	10.0	5.0	0.0	0.0	0.0
225.3	85°	175.2	35.0	15.0	15.0	10.0	5.0	0.0	0.0	0.0	0.0
85.1	87.5°	75.1	20.0	15.0	10.0	10.0	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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