

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: P575453

Luminaire Tested: **EPH-VN-07-735-U-SL4-HSS**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P575453  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 10/19/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-VN-07-735-U-SL4-HSS  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL4 distribution lens and House Side Shield  
Light Source: (112) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

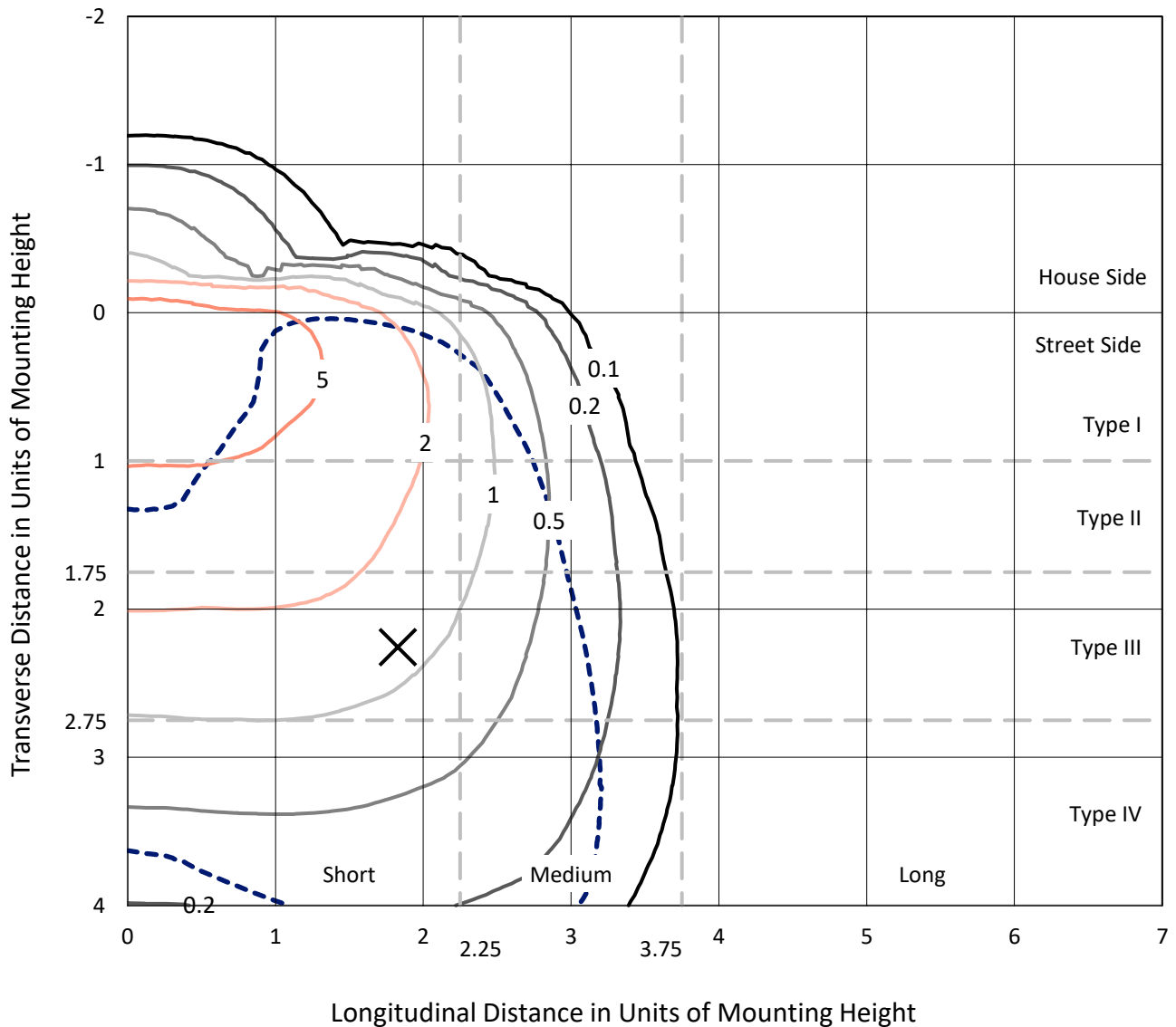
Lumens per Lamp: N/A  
Luminaire Lumens: 45996.6 lumens  
Efficiency: N/A  
Efficacy: 108.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 422.5  
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

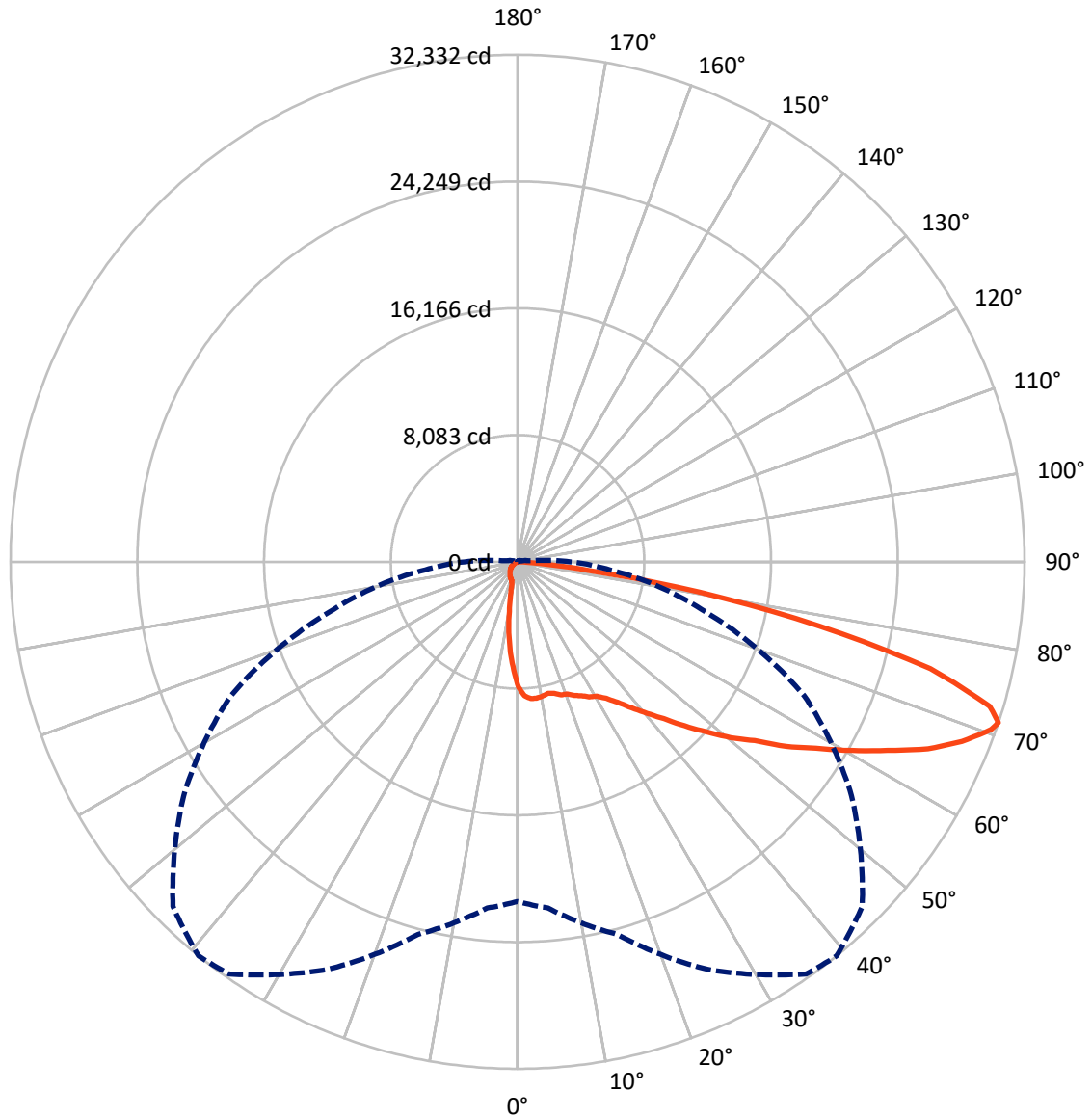
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.6 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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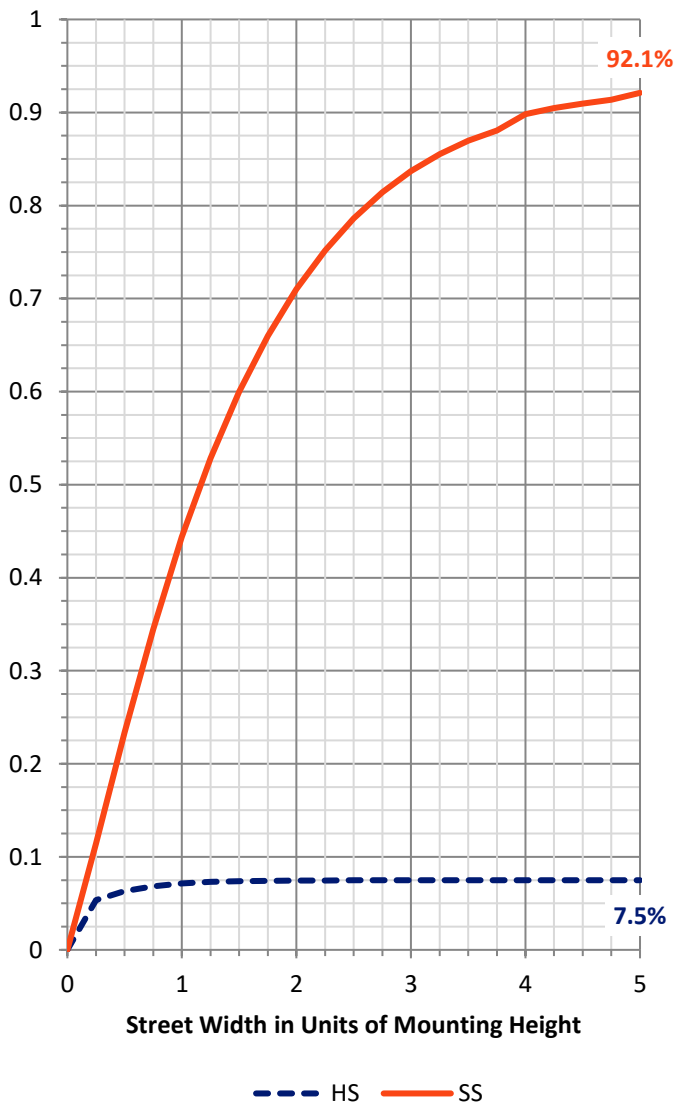
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3462.8	0.0	3462.8
	% Fixture	7.5	0.0	7.5
<b>Street Side</b>	Lumens	42533.8	0.0	42533.8
	% Fixture	92.5	0.0	92.5
<b>Total</b>	Lumens	45996.6	0.0	45996.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	669.4	1.5
10°-20°	1647.5	3.6
20°-30°	2644.8	5.8
30°-40°	4048.6	8.8
40°-50°	6498.7	14.1
50°-60°	9545.5	20.8
60°-70°	12022.2	26.1
70°-80°	8023.3	17.4
80°-90°	896.6	1.9
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°	45996.6	100.0
0°-180°	45996.6	100.0

**Coefficient of Utilization**



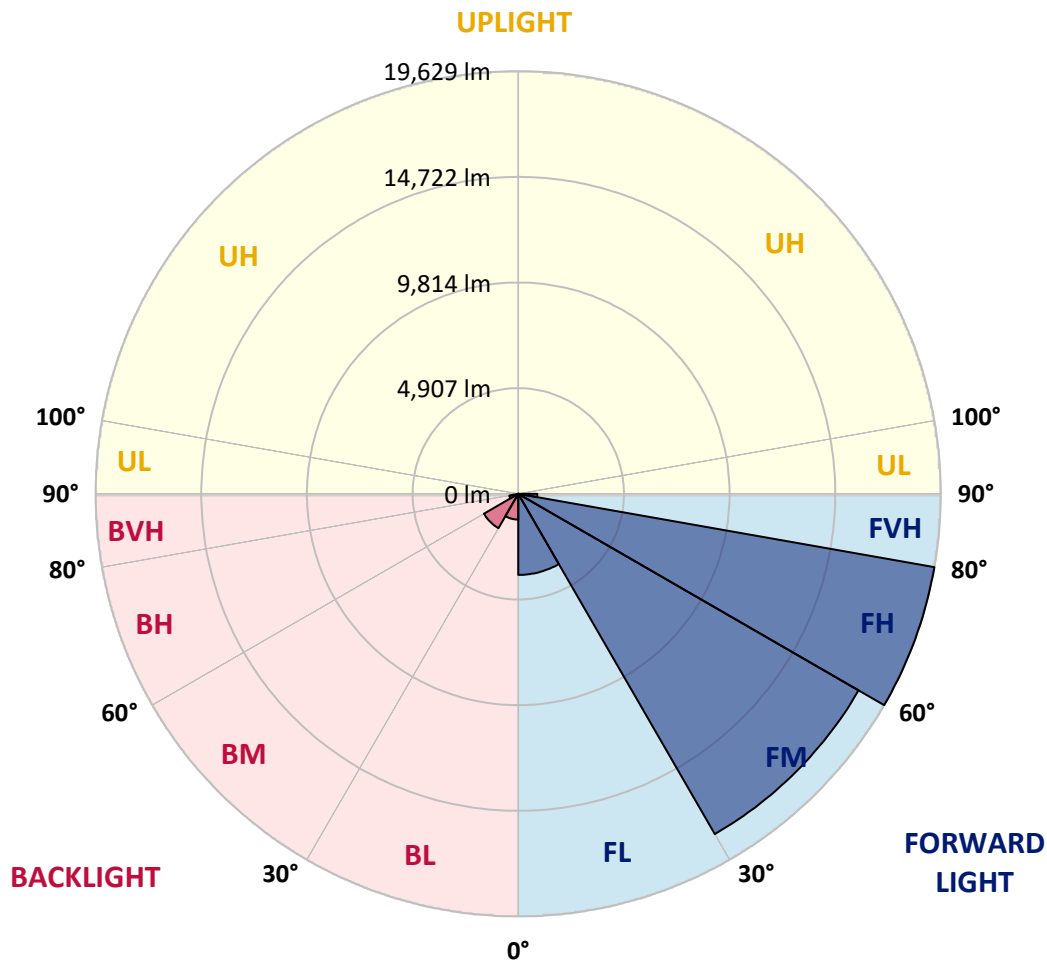
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3766.2	8.2			
FM (30°-60°)	18252.1	39.7			
FH (60°-80°)	19628.7	42.7			G5
FVH (80°-90°)	886.8	1.9			G5
BL (0°-30°)	1195.5	2.6	B3/2500		
BM (30°-60°)	1840.6	4.0	B2/2500		
BH (60°-80°)	416.8	0.9	B1/500		G1/500
BVH (80°-90°)	9.9	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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°
0°	8006.0	8006.0	8006.0	8006.0	8006.0	8006.0	8006.0	8006.0	8006.0	8006.0
2.5°	8627.4	8711.9	8627.4	8591.2	8555.0	8561.1	8464.5	8482.6	8368.0	8217.2
5°	8898.9	9013.5	8923.0	8880.8	8874.8	8760.1	8711.9	8597.3	8458.5	8223.2
7.5°	8874.8	8850.6	8892.9	8856.7	8778.2	8778.2	8724.0	8561.1	8422.3	8156.8
10°	8693.8	8766.2	8730.0	8687.8	8705.9	8711.9	8609.3	8494.7	8452.5	8187.0
12.5°	8675.7	8555.0	8687.8	8693.8	8615.4	8609.3	8597.3	8567.1	8434.4	8193.0
15°	8615.4	8567.1	8699.8	8705.9	8724.0	8705.9	8724.0	8699.8	8567.1	8428.3
17.5°	8663.6	8609.3	8796.3	8886.8	8844.6	8929.1	8898.9	8790.3	8675.7	8512.8
20°	8675.7	8754.1	8959.2	8995.4	9128.2	8989.4	8983.4	8868.7	8796.3	8621.4
22.5°	8898.9	8935.1	9188.5	9266.9	9273.0	9254.9	9104.0	8971.3	8941.1	8724.0
25°	9236.8	9363.5	9478.1	9526.4	9544.5	9460.0	9303.1	9134.2	9061.8	8923.0
27.5°	9834.1	9755.6	9858.2	9930.6	9725.5	9755.6	9556.5	9411.7	9309.2	9188.5
30°	10365.0	10292.6	10298.6	10286.5	10111.6	9948.7	9894.4	9641.0	9514.3	9562.6
32.5°	10841.6	10684.7	10817.5	10757.1	10431.3	10383.1	10340.8	10021.1	10045.2	10268.4
35°	11282.0	11227.7	11336.3	11227.7	11010.5	10998.5	10956.2	10678.7	10811.4	11131.2
37.5°	11686.2	11704.3	11837.1	11782.8	11800.9	11812.9	11788.8	11493.2	11873.3	12591.2
40°	12060.3	12036.2	12361.9	12530.9	12567.1	12699.8	12699.8	12627.4	13212.6	14021.1
42.5°	12458.5	12518.8	12941.1	13224.7	13568.6	13683.2	13840.1	13876.3	14781.2	15704.3
45°	13110.1	13007.5	13544.4	14214.1	14515.8	14920.0	15161.3	15366.5	16458.5	17725.4
47.5°	13936.6	13731.5	14202.1	15173.4	15873.2	16205.1	16639.5	16910.9	17978.8	19288.0
50°	14853.6	14642.5	14871.7	16211.1	17025.6	17628.9	18183.9	18527.8	19818.9	21037.6
52.5°	15891.3	15698.3	15734.5	17291.0	18491.6	18932.1	19662.1	20174.9	21460.0	22093.4
55°	16995.4	16947.1	16832.5	18346.8	19776.7	20766.1	21206.6	21821.9	23143.2	22666.6
57.5°	18105.5	17954.7	18117.6	19746.5	21840.0	22431.3	23040.6	23408.7	24078.3	23167.3
60°	19149.3	19161.3	19390.6	21266.9	23595.7	24434.3	24983.3	24760.1	25037.6	23384.5
62.5°	20030.1	20006.0	20585.1	22974.3	25918.5	26485.6	26895.8	25900.4	25484.1	23595.7
65°	20820.4	21091.9	22002.9	25007.5	28102.5	28754.0	28506.7	26980.3	25918.5	22974.3
67.5°	21417.7	21821.9	23402.6	26920.0	30105.5	30564.0	30220.1	27800.8	25405.6	20536.9
70°	21767.6	22177.9	24404.1	28512.7	31704.3	32036.1	31227.6	27167.3	22413.2	14871.7
71°	21659.0	22159.8	24597.2	28681.6	32084.3	32331.7	31076.8	25996.9	20156.8	12452.4
72.5°	20675.6	21146.2	23794.8	28561.0	31625.8	31475.0	29900.3	23185.4	15867.2	7939.6
75°	15191.5	15698.3	20422.2	24705.8	28229.2	27191.5	24199.0	16271.4	8277.5	2431.4
77.5°	7565.6	7650.0	12675.7	17936.6	20705.8	19674.1	16217.1	9073.9	3095.0	717.9
80°	3487.2	3511.3	4754.1	9291.1	12518.8	11782.8	9085.9	4476.6	1399.7	380.1
82.5°	2377.1	2413.3	2865.8	3849.2	5435.9	4585.2	3680.2	2865.8	802.4	229.3
85°	434.4	398.2	1604.8	2039.2	2099.5	1423.8	1273.0	2479.6	301.7	132.7
87.5°	0.0	6.0	223.2	832.6	748.1	331.8	434.4	603.3	30.2	42.2
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°
8006.0	0°	8006.0	8006.0	8006.0	8006.0	8006.0	8006.0	8006.0	8006.0	8006.0	8006.0
8096.5	2.5°	7993.9	7927.6	7704.3	7457.0	7233.8	7058.8	6835.6	6733.0	6570.1	6479.6
8078.4	5°	7879.3	7698.3	7312.2	6895.9	6431.3	6045.2	5616.9	5375.5	5098.0	5013.6
7909.5	7.5°	7686.2	7426.8	6859.7	6274.5	5562.6	4880.8	4355.9	3794.9	3451.0	3306.2
7782.8	10°	7565.6	7251.9	6479.6	5604.8	4609.3	3650.1	2914.0	2316.7	2003.0	1852.2
7812.9	12.5°	7565.6	7227.7	6171.9	4965.3	3644.0	2497.7	1803.9	1460.0	1357.5	1321.3
7945.7	15°	7547.5	7179.5	5876.3	4307.7	2696.8	1677.2	1345.4	1273.0	1260.9	1254.9
8072.4	17.5°	7638.0	7095.0	5574.6	3601.8	1906.5	1321.3	1236.8	1224.7	1212.7	1212.7
8150.8	20°	7704.3	7046.7	5212.7	2853.7	1423.8	1224.7	1188.5	1170.4	1164.4	1158.4
8168.9	22.5°	7650.0	6974.3	4766.2	2135.7	1242.8	1164.4	1140.3	1122.2	1110.1	1110.1
8355.9	25°	7752.6	6908.0	4319.7	1610.9	1164.4	1110.1	1086.0	1073.9	1067.9	1061.8
8573.1	27.5°	7891.4	6938.1	3788.8	1297.1	1098.0	1055.8	1031.7	1019.6	1013.6	1001.5
8911.0	30°	8060.3	6932.1	3203.6	1134.2	1037.7	995.5	971.3	965.3	953.2	947.2
9417.8	32.5°	8349.9	7089.0	2600.3	1049.8	971.3	935.1	911.0	905.0	898.9	892.9
10286.5	35°	8971.3	7282.0	2033.2	983.4	911.0	868.8	850.7	838.6	832.6	826.5
11300.1	37.5°	9737.5	7710.4	1550.5	923.1	850.7	808.4	790.3	784.3	760.2	754.1
12705.8	40°	10696.8	8168.9	1194.6	856.7	796.4	754.1	736.0	717.9	687.8	675.7
14141.7	42.5°	11891.4	8615.4	983.4	796.4	736.0	705.9	675.7	645.5	621.4	597.3
15577.6	45°	13085.9	9134.2	862.7	742.1	687.8	651.6	627.4	585.2	543.0	506.8
16935.1	47.5°	14081.4	9321.2	790.3	681.7	639.5	609.3	573.2	518.9	458.5	422.3
17924.5	50°	14823.5	9212.6	717.9	621.4	585.2	555.1	506.8	440.4	380.1	343.9
18274.4	52.5°	14968.3	8736.0	651.6	573.2	530.9	494.7	440.4	368.0	301.7	265.5
18654.5	55°	14865.7	7945.7	597.3	530.9	482.7	428.4	368.0	295.6	235.3	199.1
18509.7	57.5°	14654.5	7010.5	537.0	476.6	422.3	368.0	301.7	241.3	175.0	138.8
18177.9	60°	13936.6	5737.5	476.6	416.3	362.0	313.7	247.4	175.0	120.7	90.5
17598.7	62.5°	12935.1	4410.2	416.3	356.0	313.7	259.4	193.1	126.7	72.4	48.3
15969.8	65°	11107.0	3089.0	349.9	295.6	259.4	211.2	144.8	78.4	42.2	18.1
13007.5	67.5°	8440.4	1912.5	289.6	247.4	223.2	168.9	102.6	48.3	18.1	6.0
8114.6	70°	4844.6	995.5	229.3	199.1	175.0	126.7	72.4	24.1	12.1	0.0
5918.5	71°	3384.6	736.0	205.1	175.0	156.9	114.6	60.3	18.1	6.0	0.0
3058.8	72.5°	1695.3	488.7	175.0	144.8	126.7	90.5	48.3	18.1	6.0	0.0
892.9	75°	603.3	313.7	120.7	96.5	90.5	66.4	30.2	12.1	6.0	0.0
446.5	77.5°	416.3	253.4	84.5	60.3	60.3	42.2	18.1	6.0	6.0	0.0
349.9	80°	380.1	138.8	54.3	36.2	30.2	24.1	12.1	6.0	0.0	0.0
343.9	82.5°	380.1	102.6	30.2	24.1	18.1	12.1	6.0	0.0	0.0	0.0
301.7	85°	265.5	54.3	18.1	18.1	12.1	6.0	0.0	0.0	0.0	0.0
54.3	87.5°	42.2	18.1	12.1	6.0	6.0	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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