

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: P575364

Luminaire Tested: **EPH-VN-04-730-U-SL2-HSS**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P575364  
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-SL2-HSS  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL2 distribution lens and House Side Shield  
Light Source: (64) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

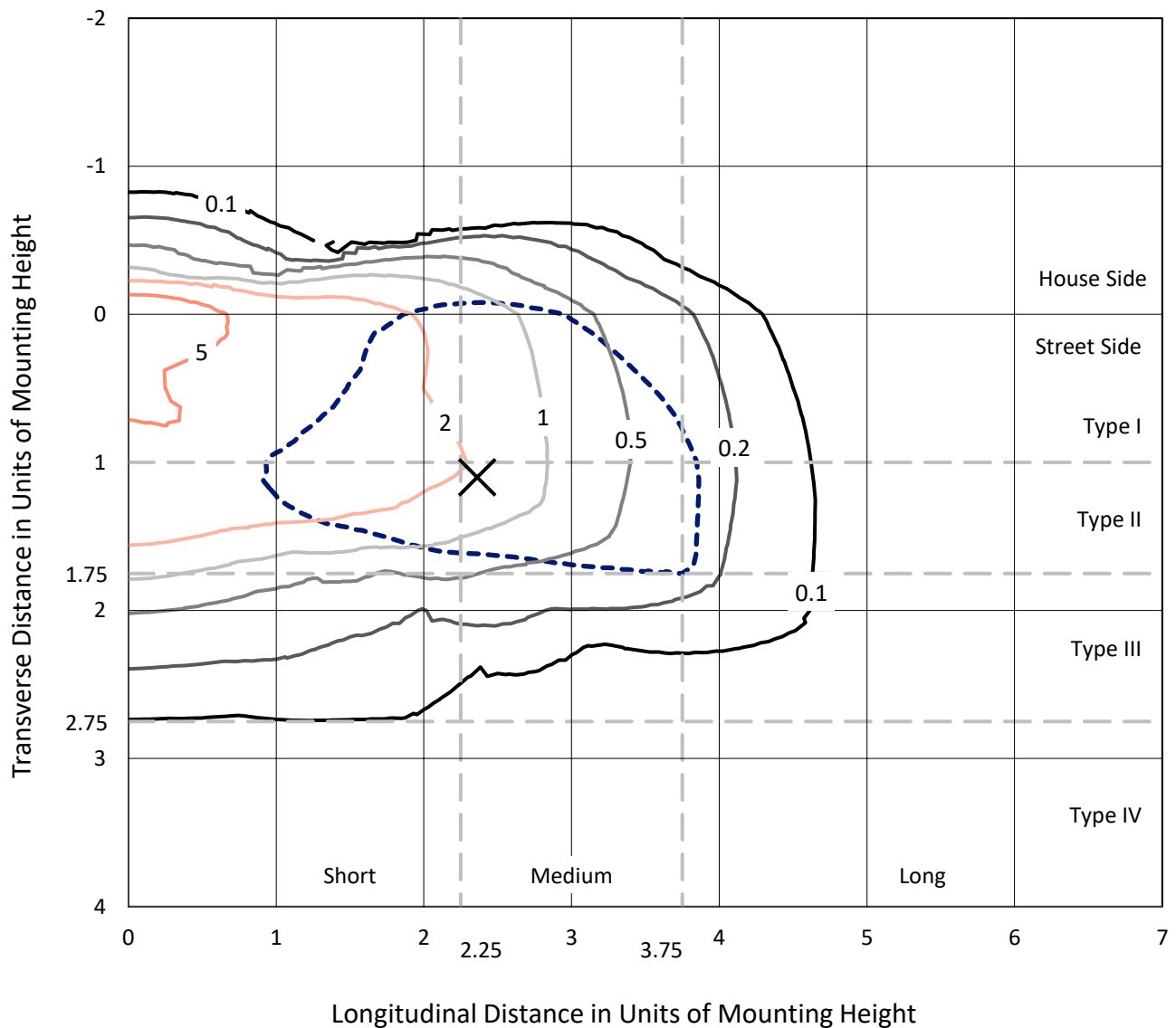
Lumens per Lamp: N/A  
Luminaire Lumens: 22650.2 lumens  
Efficiency: N/A  
Efficacy: 94.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G4

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

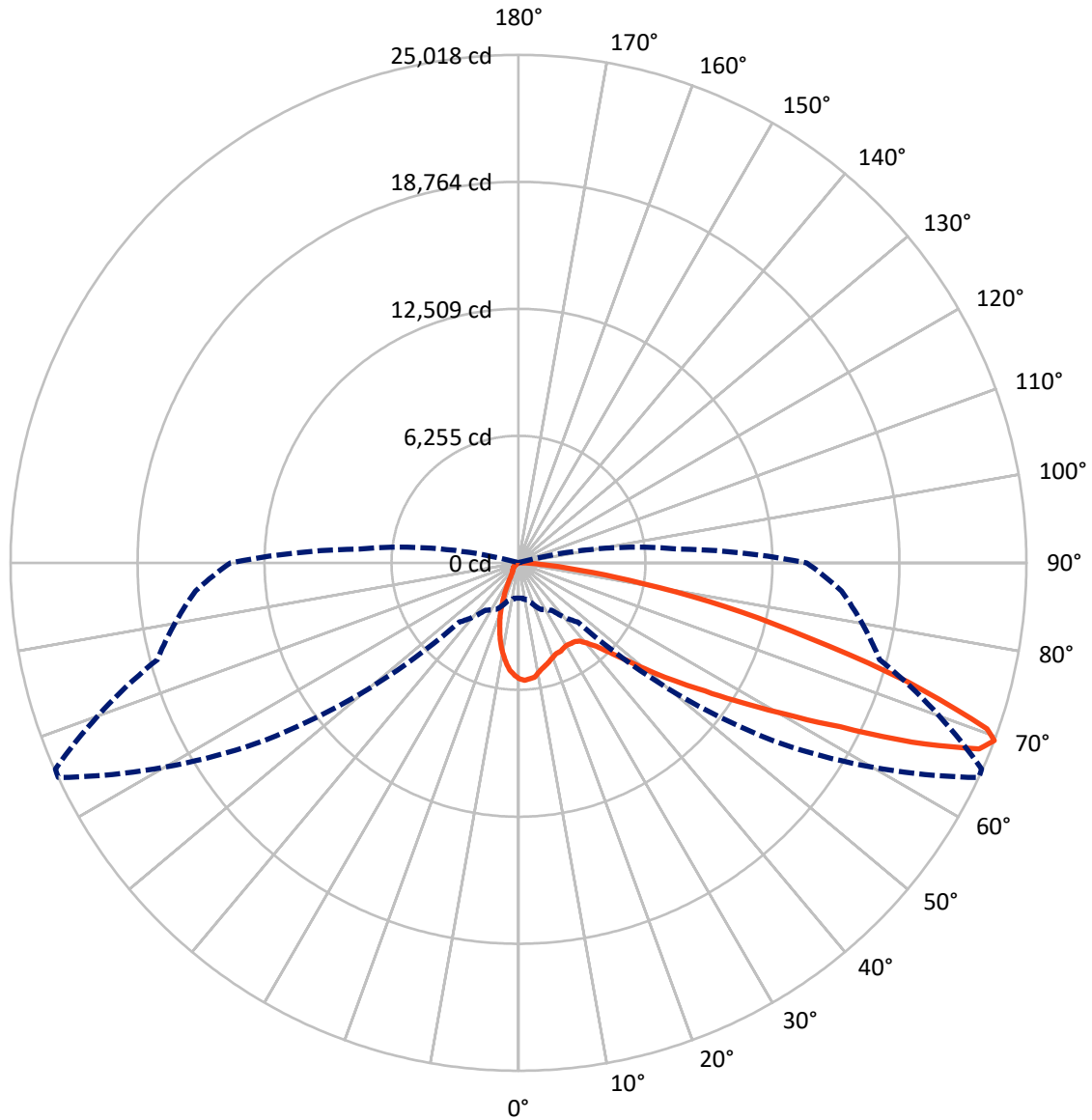
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc  
 Type II - Medium - N/A

REPORT NUMBER: P575364  
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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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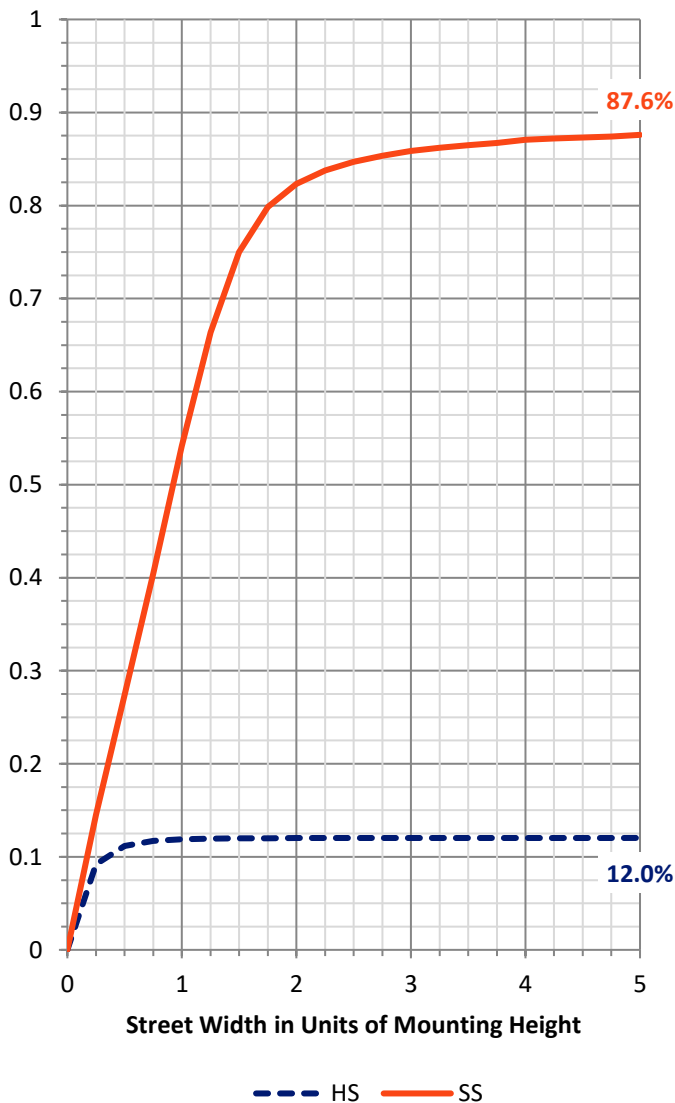
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2747.6	0.0	2747.6
	% Fixture	12.1	0.0	12.1
<b>Street Side</b>	Lumens	19902.6	0.0	19902.6
	% Fixture	87.9	0.0	87.9
<b>Total</b>	Lumens	22650.2	0.0	22650.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	467.3	2.1
10°-20°	1022.5	4.5
20°-30°	1423.5	6.3
30°-40°	2017.3	8.9
40°-50°	3179.1	14.0
50°-60°	5158.7	22.8
60°-70°	5761.2	25.4
70°-80°	3244.2	14.3
80°-90°	376.5	1.7
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°	22650.2	100.0
0°-180°	22650.2	100.0

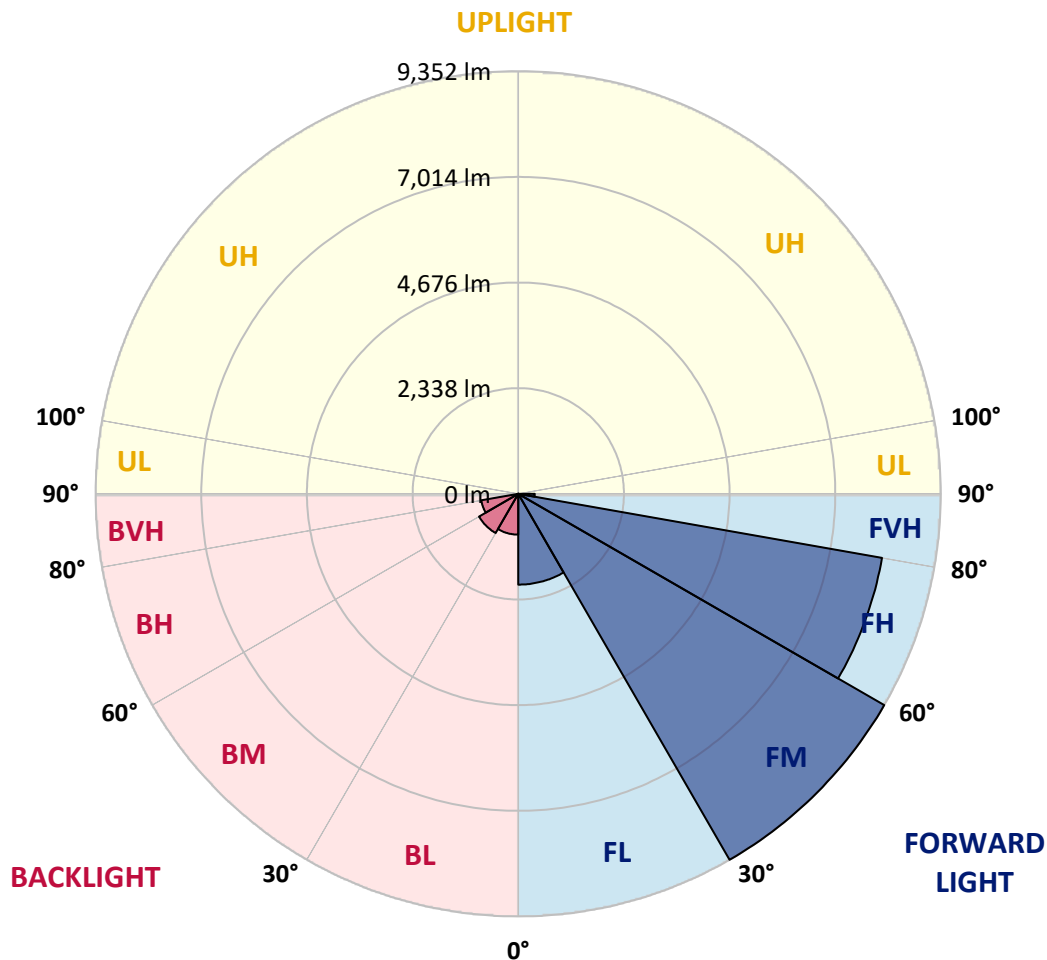


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2010.0	8.9			
FM (30°-60°)	9352.5	41.3			
FH (60°-80°)	8174.1	36.1			G4/12000
FVH (80°-90°)	366.1	1.6			G3/500
BL (0°-30°)	903.3	4.0	B2/1000		
BM (30°-60°)	1002.6	4.4	B2/2500		
BH (60°-80°)	831.3	3.7	B2/1000		G2/1000
BVH (80°-90°)	10.4	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**  
 Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	5710.7	5710.7	5710.7	5710.7	5710.7	5710.7	5710.7	5710.7	5710.7	5710.7
2.5°	5499.8	5542.6	5554.8	5597.6	5619.0	5710.7	5762.6	5793.1	5777.9	5811.5
5°	5108.7	5084.3	5148.4	5194.3	5292.1	5450.9	5612.9	5738.1	5796.2	5851.2
7.5°	4690.1	4677.9	4742.1	4846.0	4934.6	5127.1	5386.8	5695.4	5683.2	5817.6
10°	4402.9	4415.1	4436.5	4540.4	4671.8	4867.3	5191.2	5478.4	5542.6	5826.8
12.5°	4140.1	4161.5	4201.3	4308.2	4461.0	4662.6	4977.3	5313.4	5411.2	5774.8
15°	4054.6	4005.7	4085.1	4164.6	4323.5	4503.7	4769.6	5188.2	5230.9	5713.7
17.5°	3984.3	3953.8	3990.4	4054.6	4222.6	4369.3	4619.9	5053.7	5133.2	5689.3
20°	4005.7	3978.2	3993.5	4042.4	4118.8	4256.3	4488.5	4925.4	5011.0	5576.2
22.5°	4066.8	4088.2	4060.7	4072.9	4097.4	4167.6	4418.2	4833.7	4907.1	5554.8
25°	4341.8	4305.1	4268.5	4253.2	4109.6	4140.1	4396.8	4827.6	4879.6	5478.4
27.5°	4629.0	4598.5	4583.2	4494.6	4299.0	4207.4	4399.9	4742.1	4812.3	5447.9
30°	4977.3	5017.1	4956.0	4849.0	4577.1	4351.0	4433.5	4699.3	4797.1	5331.8
32.5°	5344.0	5365.4	5395.9	5316.5	4965.1	4567.9	4534.3	4739.0	4745.1	5331.8
35°	5759.5	5729.0	5808.4	5814.5	5505.9	4952.9	4726.8	4766.5	4830.7	5307.3
37.5°	6117.0	6169.0	6260.6	6407.3	6089.5	5496.8	5026.2	4894.8	4922.3	5420.4
40°	6508.1	6560.1	6767.8	6914.5	6734.2	6107.9	5481.5	5194.3	5215.7	5588.4
42.5°	6938.9	7039.8	7287.3	7543.9	7495.0	6883.9	6068.1	5634.3	5625.1	6007.0
45°	7522.5	7657.0	7925.9	8222.2	8265.0	7773.1	6850.3	6291.2	6321.7	6554.0
47.5°	8335.3	8329.2	8591.9	8921.9	9169.4	8695.8	7785.3	7174.2	7171.2	7418.7
50°	9120.5	9123.6	9193.9	9575.8	10217.5	9976.1	8943.3	8347.5	8313.9	8436.1
52.5°	9484.1	9441.4	9389.4	9850.8	11024.1	11589.4	10409.9	9676.6	9649.1	9575.8
55°	9102.2	9117.5	9114.4	9594.1	11448.8	13291.2	12292.1	11140.2	11094.4	10865.2
57.5°	7877.0	7828.1	7935.0	8683.6	10963.0	14452.3	14984.0	12985.7	12866.5	12105.7
60°	5863.4	5878.7	5967.3	6850.3	9756.1	14696.8	17559.7	15152.0	14638.7	12979.6
62.5°	4094.3	4063.8	4097.4	4592.4	6975.6	13719.0	19301.3	17785.8	17290.8	13972.6
65°	2930.2	2890.5	3024.9	3327.4	4189.0	10489.4	19548.8	21293.5	20850.4	15558.4
67.5°	2108.3	2102.2	2258.0	2808.0	2976.0	6040.6	17715.5	24471.2	24202.3	17440.6
69°	1744.7	1747.7	1897.4	2514.6	2841.6	4124.9	15243.7	25018.1	24969.2	18412.2
70°	1521.6	1533.8	1708.0	2340.5	2786.6	3391.6	13141.5	24480.3	24431.4	18601.6
72.5°	938.0	947.2	1176.4	1876.1	2649.1	2768.2	7858.6	20028.5	20196.6	17733.9
75°	449.2	452.2	617.2	1356.6	2554.4	2624.6	4210.4	14779.2	15133.7	14317.9
77.5°	238.3	238.3	296.4	721.1	2068.5	2468.8	2499.4	10425.2	10718.5	9053.3
80°	119.2	122.2	180.3	375.8	1283.3	2419.9	1952.4	6217.9	6376.7	3694.0
82.5°	45.8	48.9	85.6	226.1	666.1	2044.1	1714.1	3058.5	3018.8	864.7
85°	6.1	6.1	30.6	134.4	284.2	901.4	1414.7	1277.2	1234.4	189.4
87.5°	0.0	0.0	6.1	39.7	85.6	262.8	546.9	351.4	391.1	51.9
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°
5710.7	0°	5710.7	5710.7	5710.7	5710.7	5710.7	5710.7	5710.7	5710.7	5710.7	5710.7
5814.5	2.5°	5799.3	5735.1	5637.3	5542.6	5441.8	5319.6	5185.1	5136.2	5050.7	5044.6
5842.0	5°	5793.1	5689.3	5518.2	5316.5	5029.3	4812.3	4577.1	4406.0	4274.6	4189.0
5857.3	7.5°	5823.7	5698.4	5402.0	4968.2	4598.5	4167.6	3804.0	3553.5	3324.3	3211.3
5906.2	10°	5774.8	5606.8	5172.9	4564.9	4021.0	3419.1	2887.4	2551.3	2209.1	2083.8
5933.7	12.5°	5802.3	5567.0	4925.4	4149.3	3400.7	2618.5	1983.0	1524.7	1203.9	1100.0
5979.5	15°	5820.6	5481.5	4687.1	3651.3	2713.2	1784.4	1148.9	864.7	763.9	745.5
5973.4	17.5°	5750.4	5377.6	4351.0	3159.3	2010.5	1084.7	763.9	705.8	687.5	675.3
5964.3	20°	5747.3	5316.5	4060.7	2655.2	1341.3	739.4	660.0	638.6	611.1	601.9
6016.2	22.5°	5695.4	5188.2	3712.4	2102.2	855.5	635.5	592.8	559.1	528.6	516.4
5973.4	25°	5680.1	5038.4	3385.4	1579.7	650.8	568.3	525.5	476.7	440.0	421.7
5921.5	27.5°	5637.3	4910.1	3055.5	1112.2	568.3	507.2	452.2	400.3	357.5	330.0
5887.9	30°	5484.5	4775.7	2688.8	770.0	516.4	449.2	388.0	326.9	284.2	265.8
5811.5	32.5°	5420.4	4650.4	2288.5	592.8	470.5	397.2	326.9	271.9	238.3	220.0
5784.0	35°	5344.0	4467.1	1900.5	516.4	427.8	345.3	275.0	229.2	201.7	186.4
5805.4	37.5°	5353.2	4320.4	1536.9	467.5	381.9	296.4	235.3	195.5	171.1	155.8
5915.4	40°	5325.7	4204.3	1194.7	424.7	339.2	253.6	198.6	165.0	143.6	128.3
6141.5	42.5°	5450.9	4173.8	901.4	388.0	296.4	216.9	171.1	140.6	119.2	100.8
6609.0	45°	5661.8	4222.6	702.8	354.4	253.6	186.4	146.7	116.1	94.7	82.5
7302.5	47.5°	6224.0	4415.1	550.0	326.9	216.9	161.9	122.2	94.7	76.4	64.2
8249.7	50°	7039.8	4846.0	467.5	287.2	183.3	137.5	100.8	73.3	61.1	48.9
9526.9	52.5°	8200.8	5570.1	424.7	253.6	152.8	113.1	79.4	58.1	45.8	36.7
10932.4	55°	9465.8	6474.5	385.0	213.9	128.3	91.7	64.2	45.8	33.6	24.4
11953.0	57.5°	10452.7	7256.7	351.4	177.2	103.9	73.3	48.9	33.6	24.4	15.3
12768.8	60°	11531.3	7806.7	308.6	140.6	85.6	55.0	36.7	24.4	18.3	9.2
13850.4	62.5°	12643.5	8451.4	253.6	110.0	67.2	42.8	27.5	18.3	12.2	3.1
15265.1	65°	14189.5	8955.5	195.5	85.6	51.9	30.6	21.4	15.3	6.1	0.0
16126.7	67.5°	14626.5	8708.1	143.6	67.2	36.7	21.4	15.3	9.2	3.1	0.0
15964.8	69°	14189.5	7843.4	125.3	58.1	30.6	18.3	12.2	6.1	3.1	0.0
15430.1	70°	13392.1	7171.2	110.0	48.9	27.5	18.3	9.2	6.1	3.1	0.0
13294.3	72.5°	11201.3	5499.8	85.6	36.7	21.4	15.3	9.2	6.1	0.0	0.0
10388.6	75°	8216.1	3397.7	64.2	27.5	18.3	12.2	9.2	6.1	0.0	0.0
5906.2	77.5°	4402.9	1240.5	45.8	18.3	12.2	9.2	9.2	6.1	0.0	0.0
1839.4	80°	1206.9	366.7	33.6	12.2	9.2	6.1	6.1	3.1	0.0	0.0
449.2	82.5°	330.0	94.7	21.4	12.2	9.2	6.1	3.1	0.0	0.0	0.0
216.9	85°	177.2	36.7	12.2	9.2	6.1	3.1	0.0	0.0	0.0	0.0
106.9	87.5°	91.7	12.2	9.2	6.1	6.1	3.1	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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