

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: P575408

Luminaire Tested: **EPH-VN-08-730-U-SL3-HSS**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P575408  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 10/19/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-VN-08-730-U-SL3-HSS  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL3 distribution lens and House Side Shield  
Light Source: (128) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

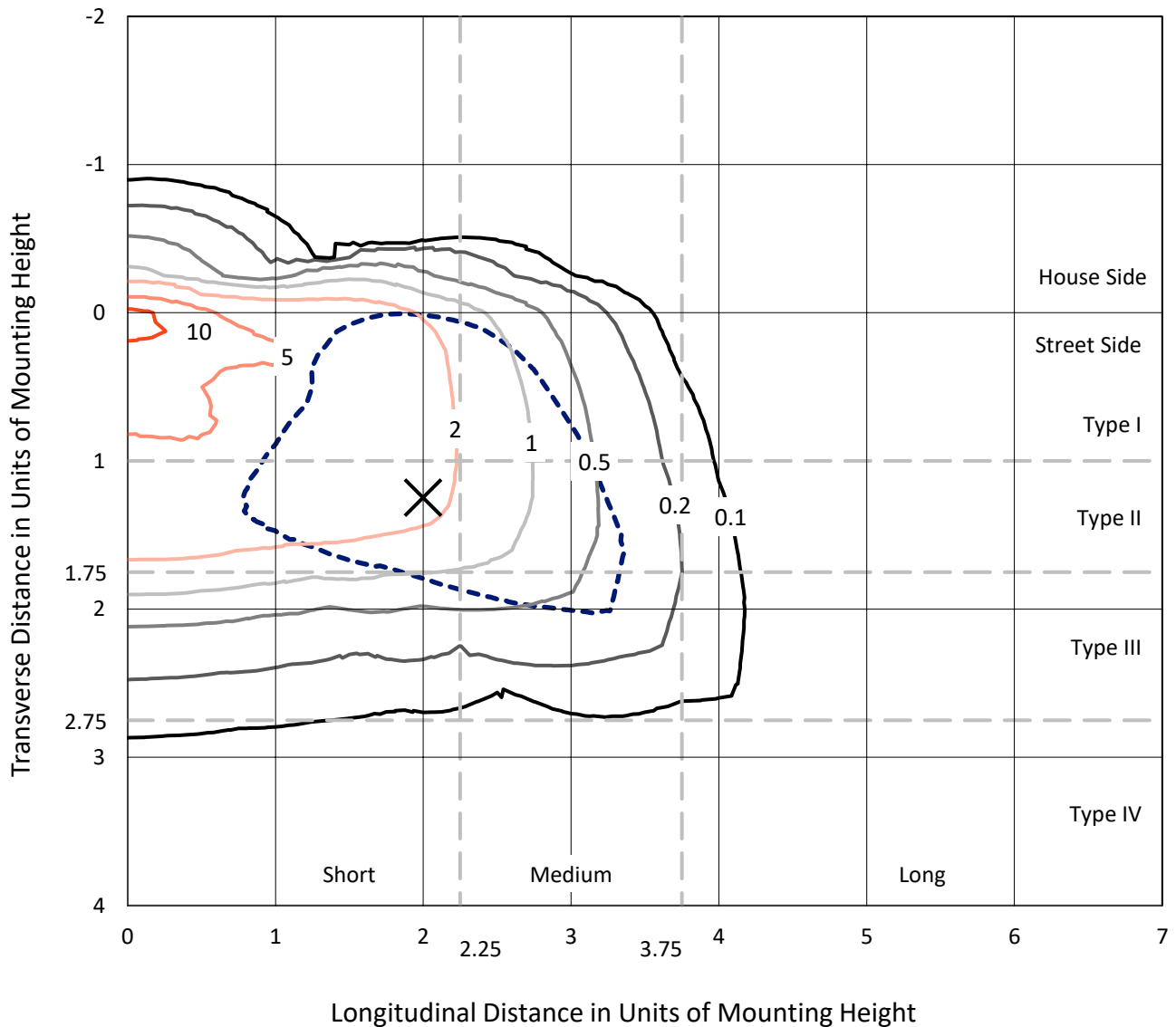
Lumens per Lamp: N/A  
Luminaire Lumens: 36684.1 lumens  
Efficiency: N/A  
Efficacy: 75.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 488.3  
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

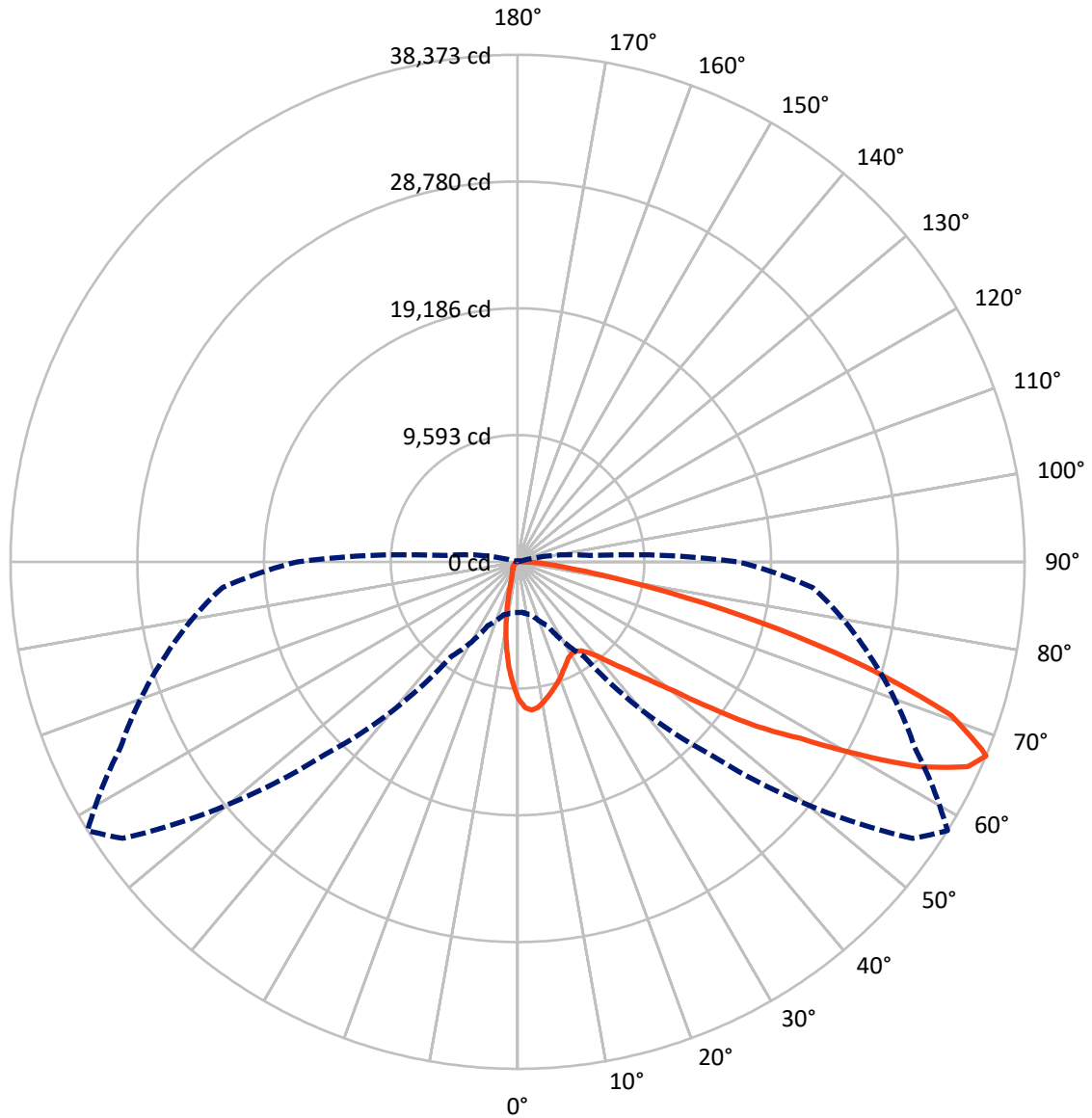
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.6 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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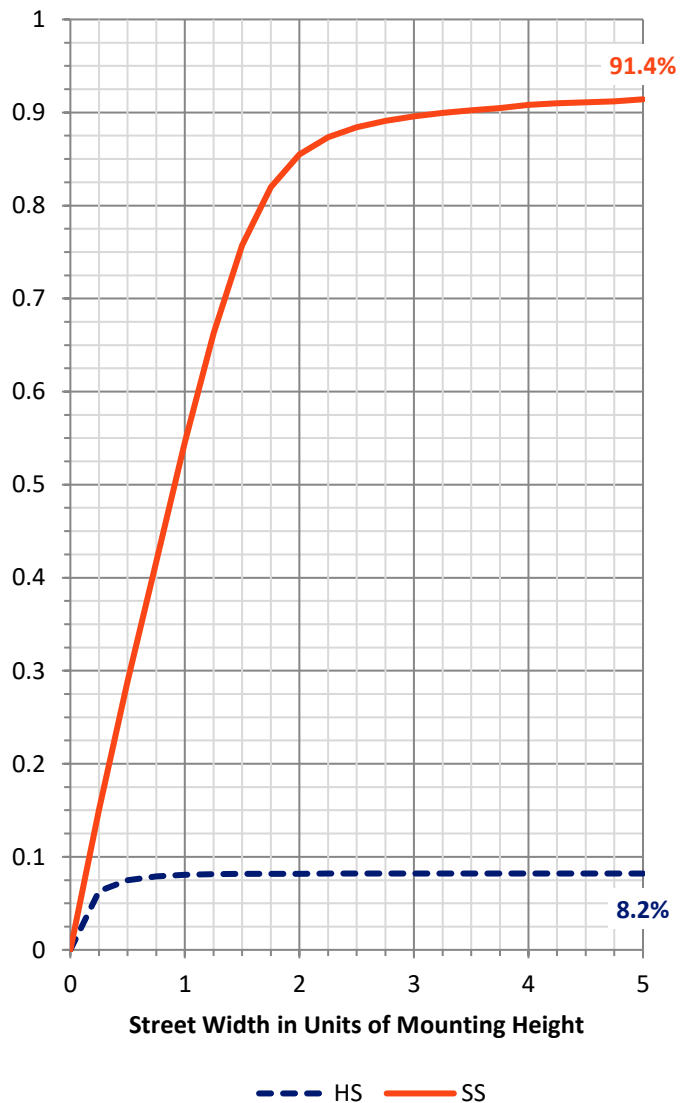
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3032.2	0.0	3032.2
	% Fixture	8.3	0.0	8.3
<b>Street Side</b>	Lumens	33651.9	0.0	33651.9
	% Fixture	91.7	0.0	91.7
<b>Total</b>	Lumens	36684.1	0.0	36684.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	824.6	2.2
10°-20°	1710.5	4.7
20°-30°	2269.4	6.2
30°-40°	3144.7	8.6
40°-50°	5131.2	14.0
50°-60°	9019.1	24.6
60°-70°	9989.3	27.2
70°-80°	4139.6	11.3
80°-90°	455.7	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°	36684.1	100.0
0°-180°	36684.1	100.0

**Coefficient of Utilization**

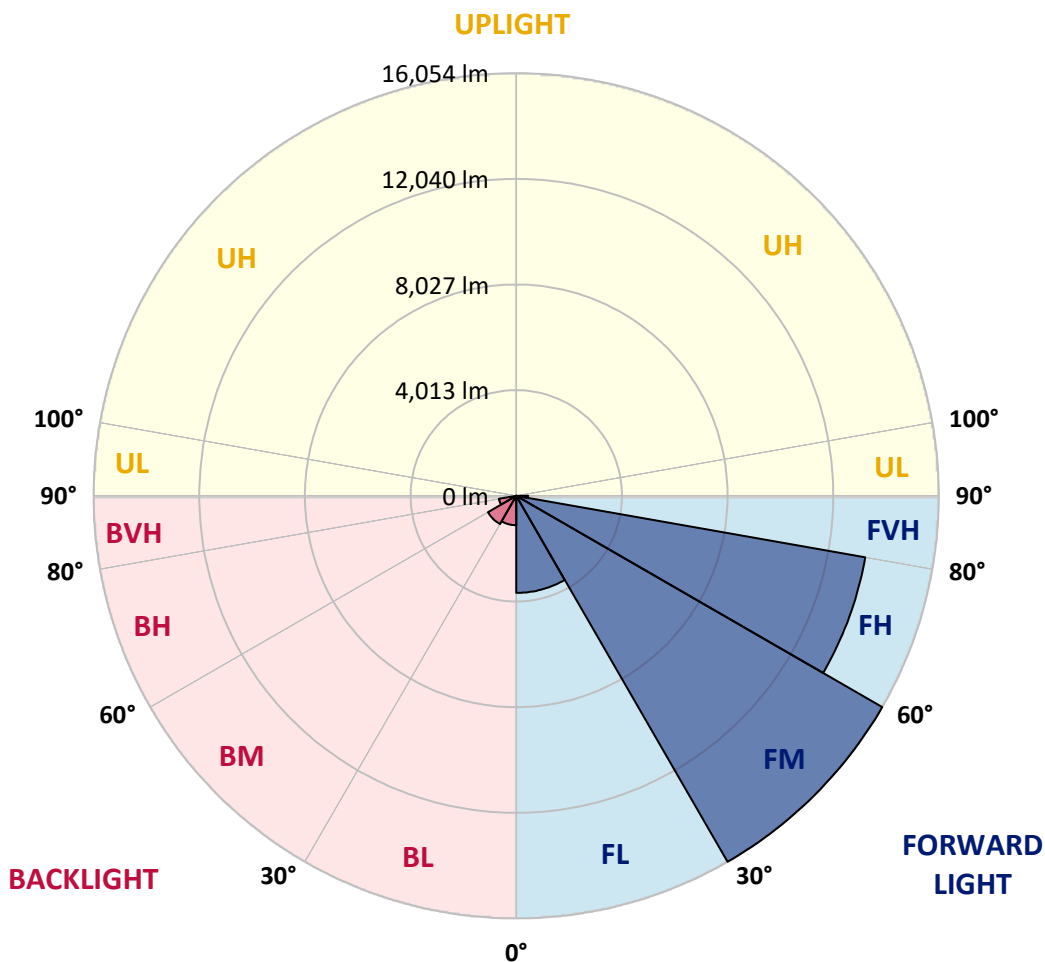


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3687.8	10.1			
FM (30°-60°)	16053.7	43.8			
FH (60°-80°)	13462.2	36.7			G5
FVH (80°-90°)	448.2	1.2			G3/500
BL (0°-30°)	1116.8	3.0	B3/2500		
BM (30°-60°)	1241.3	3.4	B2/2500		
BH (60°-80°)	666.7	1.8	B2/1000		G2/1000
BVH (80°-90°)	7.5	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°	10393.1	10393.1	10393.1	10393.1	10393.1	10393.1	10393.1	10393.1	10393.1	10393.1
2.5°	11308.7	11347.7	11381.8	11318.5	11372.0	11294.1	11094.4	11050.6	11016.5	10719.4
5°	11303.8	11260.0	11294.1	11323.3	11250.3	11308.7	11260.0	11264.9	11133.4	10865.5
7.5°	10549.0	10529.5	10549.0	10690.2	10850.9	10977.5	11050.6	11123.6	11036.0	10636.6
10°	9531.1	9628.5	9682.0	9935.3	10183.7	10417.5	10646.4	10782.7	10758.4	10597.7
12.5°	8820.0	8790.8	8985.6	9151.2	9399.6	9872.0	10271.3	10398.0	10544.1	10320.1
15°	8162.5	8084.6	8201.5	8488.8	8912.6	9287.6	9847.6	10037.6	10222.6	10281.1
17.5°	7534.3	7573.2	7695.0	7953.1	8352.5	8878.5	9404.4	9677.2	10120.4	10042.4
20°	7232.3	7315.1	7358.9	7490.4	7768.0	8294.0	9078.1	9297.3	9769.7	10037.6
22.5°	7246.9	7246.9	7144.7	7222.6	7475.8	7884.9	8634.9	8878.5	9628.5	9784.3
25°	7402.8	7305.4	7310.2	7217.7	7324.9	7548.9	8235.6	8532.7	9341.1	9808.7
27.5°	7519.7	7500.2	7471.0	7446.6	7310.2	7344.3	7972.6	8216.1	9229.1	9779.5
30°	7943.4	7855.7	7826.5	7772.9	7592.7	7427.1	7763.2	8070.0	9141.5	9847.6
32.5°	8298.9	8313.5	8337.9	8182.0	8026.2	7617.1	7821.6	8065.1	9078.1	10003.5
35°	8747.0	8810.3	8820.0	8771.3	8605.7	8201.5	8065.1	8274.5	9185.3	10281.1
37.5°	9428.8	9360.6	9545.7	9565.2	9448.3	8912.6	8630.1	8712.9	9501.9	10724.3
40°	9872.0	9954.8	10300.6	10514.9	10315.2	9828.2	9448.3	9433.7	9959.7	11420.7
42.5°	10363.9	10549.0	10928.8	11391.5	11367.2	10914.2	10529.5	10466.2	10773.0	12428.9
45°	11036.0	11201.6	11732.4	12428.9	12808.7	12424.0	11844.4	11717.8	11761.6	13802.3
47.5°	12151.3	12107.4	12872.1	13558.8	14182.2	13885.1	13636.7	13266.6	13232.5	15419.2
50°	13412.7	13402.9	14084.8	14864.0	15584.8	16164.3	15750.4	15346.1	15355.9	17615.7
52.5°	14610.7	14800.7	15536.1	16310.5	17547.5	18170.9	18570.2	18409.5	17635.2	19578.4
55°	15243.9	15409.5	16140.0	17474.4	19427.4	21029.7	22110.9	21974.6	20479.4	21789.5
57.5°	14644.8	14756.8	15745.5	17493.9	20742.4	24317.1	25354.5	25184.0	23421.0	23479.5
60°	12136.7	12312.0	13782.8	15833.2	20231.0	26849.7	29820.5	29562.4	26099.6	25617.5
62.5°	8406.0	8522.9	9730.8	12282.8	17805.6	27731.2	34038.1	34179.4	28924.4	27283.1
65°	5444.9	5435.2	6126.8	7855.7	12618.8	25062.3	36531.7	37408.4	31651.7	27536.4
67°	3847.5	3832.9	4159.2	5328.0	8737.2	20649.8	36487.9	38372.7	33132.3	27609.4
67.5°	3550.4	3535.8	3847.5	4899.5	7884.9	19203.4	35942.4	37875.9	33653.4	27507.1
70°	2756.6	2717.6	2834.5	3375.1	4592.6	12419.1	30760.5	34793.0	32572.2	24955.1
72.5°	1991.9	2035.8	2220.8	2771.2	3604.0	6682.0	23445.4	28135.4	27205.2	18808.9
75°	1388.0	1427.0	1724.1	2259.8	3306.9	4052.0	15852.7	20406.3	18950.1	10383.4
77.5°	725.7	774.4	1100.7	1806.9	3004.9	3136.4	9472.6	12940.2	10042.4	3696.5
80°	336.0	360.4	550.3	1280.9	2513.0	2756.6	5522.9	7198.2	4018.0	827.9
82.5°	146.1	160.7	253.3	735.4	1782.5	2410.8	3418.9	3774.4	1456.2	267.9
85°	29.2	34.1	97.4	389.6	862.0	1461.1	2401.0	2240.3	730.5	131.5
87.5°	0.0	0.0	24.4	112.0	233.8	433.5	1017.9	1017.9	224.0	68.2
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°
10393.1	0°	10393.1	10393.1	10393.1	10393.1	10393.1	10393.1	10393.1	10393.1	10393.1	10393.1
10549.0	2.5°	10398.0	10222.6	9837.9	9482.4	9229.1	8941.8	8561.9	8391.4	8328.1	8240.5
10388.2	5°	10125.2	9911.0	9253.5	8591.1	7865.4	7315.1	6730.7	6389.8	6131.6	5970.9
10173.9	7.5°	9740.5	9302.2	8415.8	7354.1	6414.1	5595.9	4709.5	4110.5	3725.7	3569.9
9940.2	10°	9433.7	8863.8	7514.8	6195.0	4943.3	3745.2	2746.8	2220.8	1821.5	1670.5
9633.3	12.5°	9034.3	8352.5	6672.2	5011.5	3438.4	2230.6	1519.5	1319.8	1207.8	1188.3
9467.8	15°	8703.1	7889.8	5873.5	3881.6	2225.7	1392.9	1183.5	1134.8	1105.5	1095.8
9219.4	17.5°	8479.1	7393.0	5055.3	2824.7	1465.9	1139.6	1090.9	1061.7	1047.1	1042.2
8975.9	20°	8035.9	6974.2	4246.9	1977.3	1144.5	1052.0	1013.0	988.7	974.0	969.2
8756.7	22.5°	7782.7	6443.3	3438.4	1378.3	1017.9	954.6	925.3	905.9	881.5	866.9
8639.8	25°	7529.4	6053.7	2717.6	1071.5	925.3	881.5	837.7	813.3	774.4	754.9
8459.6	27.5°	7232.3	5669.0	2094.2	930.2	832.8	789.0	745.1	706.2	657.5	638.0
8357.3	30°	7061.9	5294.0	1578.0	832.8	764.6	706.2	652.6	603.9	550.3	516.2
8459.6	32.5°	6974.2	4953.0	1183.5	759.8	691.6	628.3	560.1	501.6	452.9	423.7
8469.4	35°	6867.0	4621.9	930.2	691.6	623.4	555.2	487.0	428.6	379.9	355.5
8839.5	37.5°	6979.1	4427.1	774.4	638.0	569.8	491.9	418.8	360.4	321.4	297.1
9297.3	40°	7285.9	4266.3	672.1	589.3	516.2	433.5	365.3	306.8	272.7	253.3
10023.0	42.5°	7758.3	4266.3	608.8	540.6	467.5	379.9	311.7	267.9	233.8	214.3
11260.0	45°	8615.5	4397.8	555.2	491.9	409.1	326.3	267.9	224.0	189.9	170.5
12969.5	47.5°	9818.4	4699.8	511.4	448.1	365.3	287.3	233.8	189.9	155.8	136.4
14980.9	50°	11435.3	5386.5	467.5	394.5	326.3	248.4	194.8	151.0	121.8	102.3
17133.5	52.5°	13451.6	6360.5	423.7	365.3	277.6	209.4	155.8	121.8	92.5	77.9
19257.0	55°	15584.8	7553.8	370.1	326.3	238.6	175.3	126.6	92.5	68.2	58.4
21823.6	57.5°	17732.6	8474.2	326.3	282.5	194.8	141.2	102.3	73.1	48.7	39.0
23474.6	60°	18872.2	8561.9	282.5	233.8	155.8	112.0	77.9	53.6	34.1	24.4
23966.5	62.5°	19047.5	7782.7	243.5	189.9	126.6	87.7	53.6	39.0	19.5	9.7
23815.5	65°	18146.5	6487.2	209.4	151.0	97.4	63.3	39.0	24.4	9.7	4.9
22417.7	67°	16685.5	5435.2	180.2	126.6	77.9	48.7	29.2	14.6	4.9	0.0
21804.1	67.5°	16120.5	5143.0	170.5	116.9	73.1	43.8	24.4	14.6	4.9	0.0
17411.1	70°	12511.7	3672.2	126.6	82.8	53.6	34.1	19.5	9.7	0.0	0.0
11065.2	72.5°	7665.8	2147.8	97.4	58.4	39.0	24.4	14.6	4.9	0.0	0.0
4714.4	75°	3214.4	740.3	82.8	43.8	29.2	14.6	9.7	4.9	0.0	0.0
1300.4	77.5°	837.7	277.6	58.4	29.2	19.5	14.6	9.7	4.9	0.0	0.0
448.1	80°	340.9	126.6	39.0	19.5	19.5	14.6	9.7	4.9	0.0	0.0
277.6	82.5°	224.0	58.4	24.4	19.5	14.6	9.7	4.9	0.0	0.0	0.0
219.2	85°	170.5	34.1	14.6	14.6	9.7	4.9	0.0	0.0	0.0	0.0
82.8	87.5°	73.1	19.5	14.6	9.7	9.7	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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