

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: P575414

Luminaire Tested: **EPH-VN-08-735-U-SL3-HSS**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P575414  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 10/19/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-VN-08-735-U-SL3-HSS  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL3 distribution lens and House Side Shield  
Light Source: (128) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

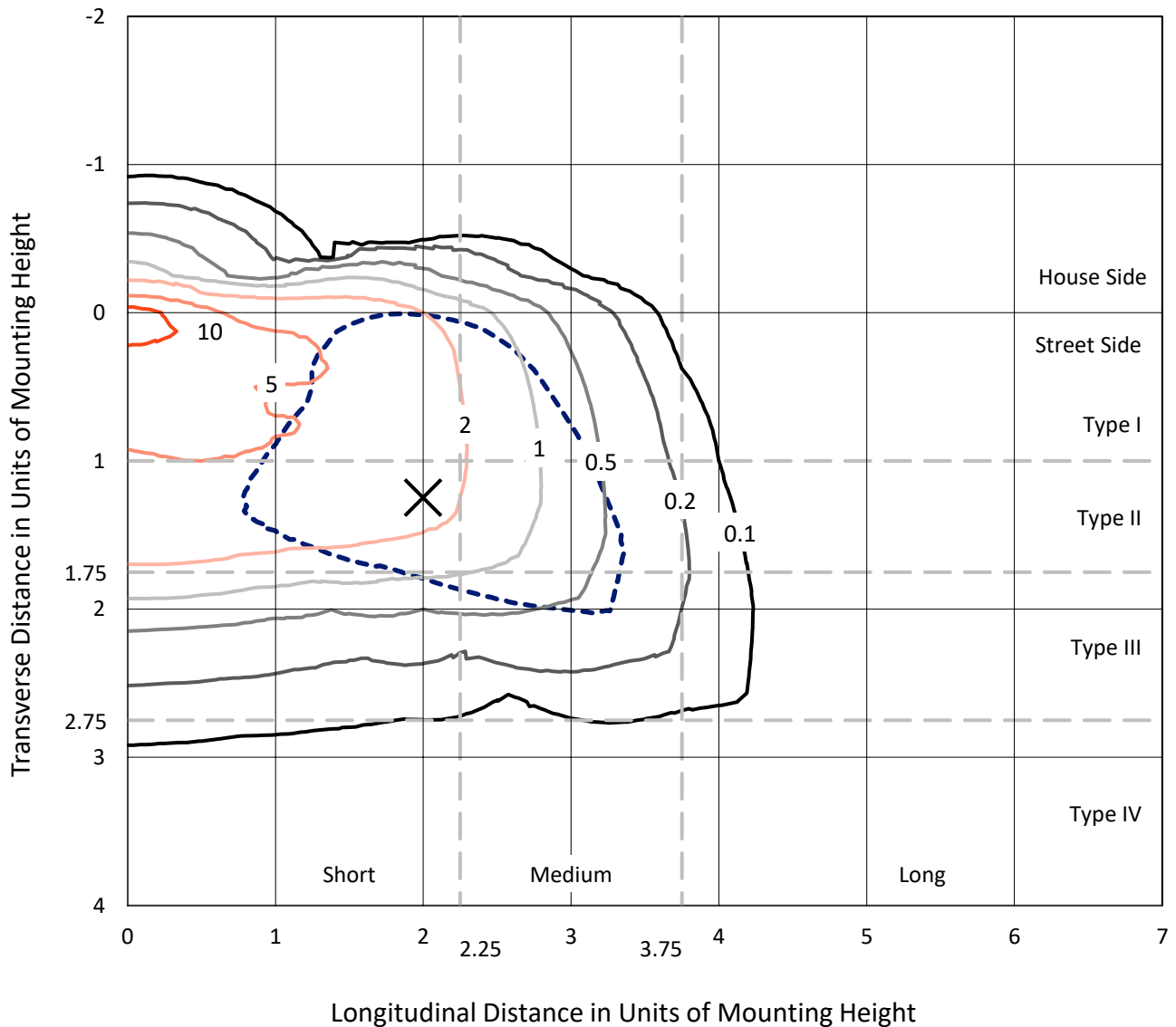
Lumens per Lamp: N/A  
Luminaire Lumens: 39733.7 lumens  
Efficiency: N/A  
Efficacy: 81.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 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

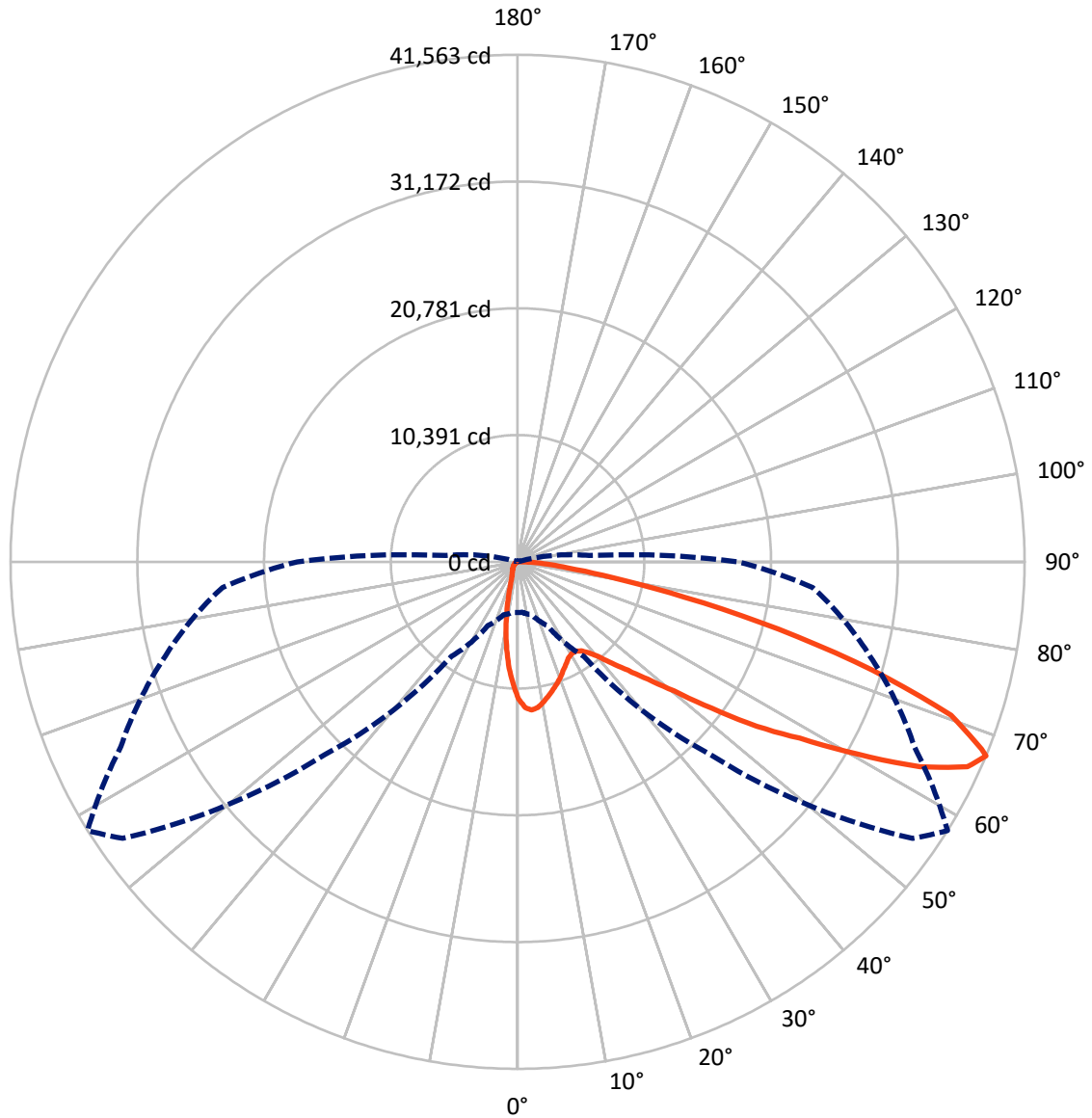
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.5 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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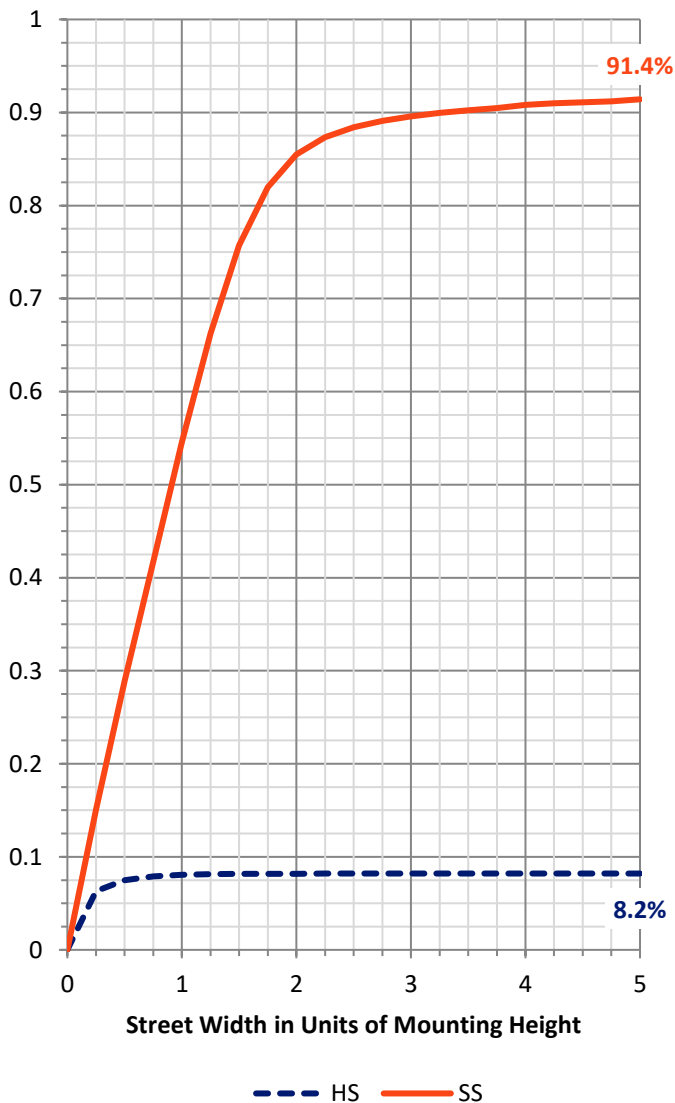
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3284.3	0.0	3284.3
	% Fixture	8.3	0.0	8.3
<b>Street Side</b>	Lumens	36449.5	0.0	36449.5
	% Fixture	91.7	0.0	91.7
<b>Total</b>	Lumens	39733.7	0.0	39733.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	893.2	2.2
10°-20°	1852.7	4.7
20°-30°	2458.1	6.2
30°-40°	3406.1	8.6
40°-50°	5557.8	14.0
50°-60°	9768.8	24.6
60°-70°	10819.8	27.2
70°-80°	4483.7	11.3
80°-90°	493.6	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°	39733.7	100.0
0°-180°	39733.7	100.0



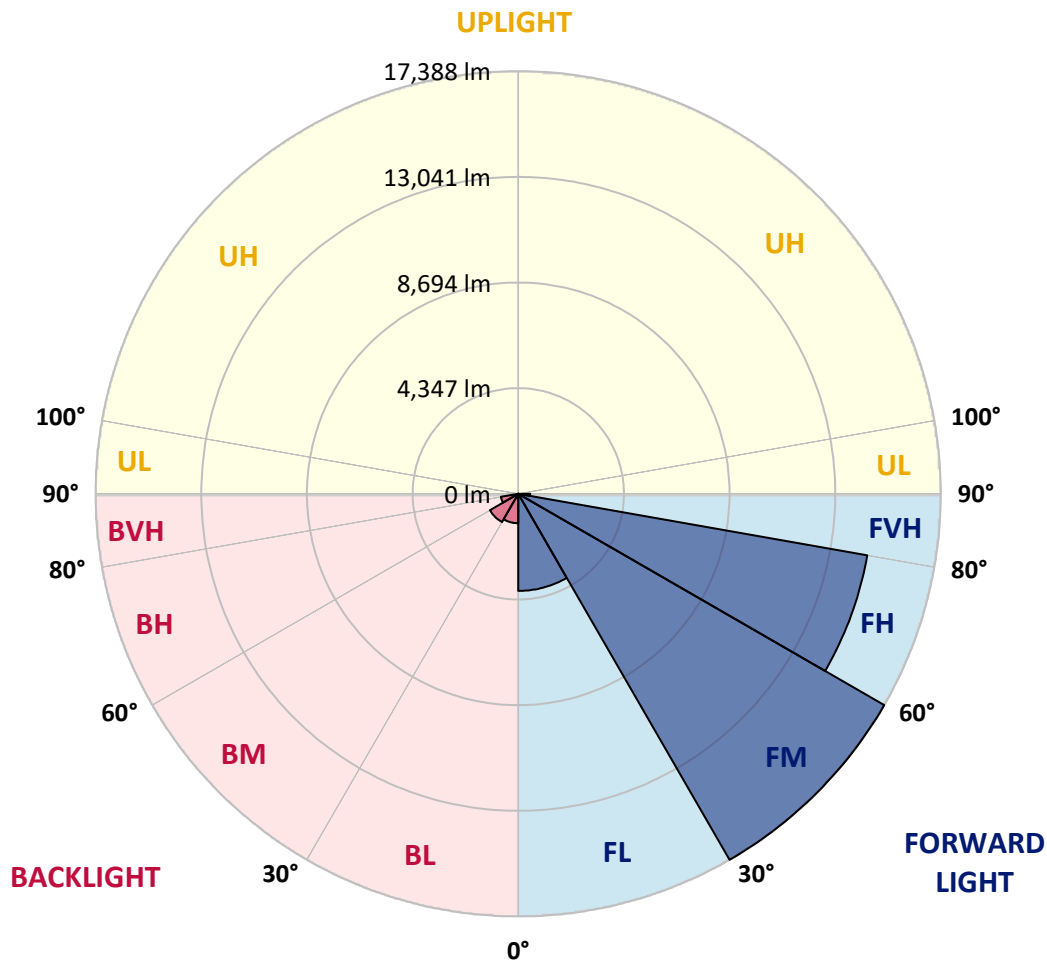
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3994.3	10.1			
FM (30°-60°)	17388.3	43.8			
FH (60°-80°)	14581.4	36.7			G5
FVH (80°-90°)	485.5	1.2			G3/500
BL (0°-30°)	1209.6	3.0	B3/2500		
BM (30°-60°)	1344.4	3.4	B2/2500		
BH (60°-80°)	722.1	1.8	B2/1000		G2/1000
BVH (80°-90°)	8.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°
0°	11257.1	11257.1	11257.1	11257.1	11257.1	11257.1	11257.1	11257.1	11257.1	11257.1
2.5°	12248.8	12291.0	12328.0	12259.4	12317.4	12233.0	12016.7	11969.2	11932.3	11610.5
5°	12243.6	12196.1	12233.0	12264.7	12185.5	12248.8	12196.1	12201.4	12058.9	11768.8
7.5°	11425.9	11404.8	11425.9	11578.9	11753.0	11890.1	11969.2	12048.4	11953.4	11520.9
10°	10323.4	10428.9	10486.9	10761.2	11030.3	11283.5	11531.4	11679.1	11652.7	11478.7
12.5°	9553.2	9521.6	9732.6	9911.9	10181.0	10692.7	11125.2	11262.4	11420.6	11178.0
15°	8841.1	8756.7	8883.3	9194.5	9653.5	10059.7	10666.3	10872.0	11072.5	11135.8
17.5°	8160.6	8202.8	8334.7	8614.3	9046.8	9616.5	10186.3	10481.7	10961.7	10877.3
20°	7833.6	7923.2	7970.7	8113.1	8413.8	8983.5	9832.8	10070.2	10581.9	10872.0
22.5°	7849.4	7849.4	7738.6	7823.0	8097.3	8540.4	9352.8	9616.5	10428.9	10597.7
25°	8018.2	7912.7	7918.0	7817.7	7933.8	8176.4	8920.2	9242.0	10117.7	10624.1
27.5°	8144.8	8123.7	8092.0	8065.7	7918.0	7954.9	8635.4	8899.1	9996.4	10592.4
30°	8603.7	8508.8	8477.1	8419.1	8223.9	8044.6	8408.5	8740.9	9901.4	10666.3
32.5°	8988.8	9004.6	9031.0	8862.2	8693.4	8250.3	8471.8	8735.6	9832.8	10835.1
35°	9474.1	9542.7	9553.2	9500.5	9321.1	8883.3	8735.6	8962.4	9948.9	11135.8
37.5°	10212.6	10138.8	10339.2	10360.3	10233.7	9653.5	9347.5	9437.2	10291.8	11615.8
40°	10692.7	10782.3	11156.9	11389.0	11172.7	10645.2	10233.7	10217.9	10787.6	12370.2
42.5°	11225.5	11425.9	11837.4	12338.5	12312.1	11821.5	11404.8	11336.2	11668.6	13462.1
45°	11953.4	12132.8	12707.8	13462.1	13873.6	13456.8	12829.1	12691.9	12739.4	14949.7
47.5°	13161.4	13113.9	13942.1	14685.9	15361.1	15039.4	14770.3	14369.4	14332.5	16701.0
50°	14527.7	14517.1	15255.6	16099.7	16880.4	17508.1	17059.7	16621.9	16632.5	19080.1
52.5°	15825.4	16031.1	16827.6	17666.4	19006.3	19681.5	20114.0	19940.0	19101.2	21206.0
55°	16511.1	16690.5	17481.7	18927.1	21042.5	22778.0	23949.0	23801.3	22181.9	23600.9
57.5°	15862.3	15983.6	17054.5	18948.2	22466.7	26338.7	27462.3	27277.6	25368.0	25431.4
60°	13145.6	13335.5	14928.6	17149.4	21912.8	29081.7	32299.6	32020.0	28269.4	27747.1
62.5°	9104.9	9231.5	10539.7	13303.9	19285.8	30036.5	36867.8	37020.8	31328.9	29551.2
65°	5897.6	5887.0	6636.1	8508.8	13667.8	27145.8	39568.7	40518.2	34283.0	29825.5
67°	4167.3	4151.5	4505.0	5771.0	9463.6	22366.5	39521.2	41562.7	35886.6	29904.7
67.5°	3845.6	3829.7	4167.3	5306.8	8540.4	20799.8	38930.4	41024.6	36451.1	29793.9
70°	2985.7	2943.5	3070.1	3655.7	4974.4	13451.6	33317.7	37685.5	35280.0	27029.7
72.5°	2157.5	2205.0	2405.5	3001.5	3903.6	7237.5	25394.4	30474.4	29466.8	20372.5
75°	1503.4	1545.6	1867.4	2447.7	3581.8	4388.9	17170.5	22102.7	20525.5	11246.6
77.5°	786.0	838.7	1192.2	1957.1	3254.7	3397.2	10260.1	14016.0	10877.3	4003.8
80°	364.0	390.4	596.1	1387.4	2722.0	2985.7	5982.0	7796.6	4352.0	896.8
82.5°	158.3	174.1	274.3	796.5	1930.7	2611.2	3703.1	4088.2	1577.3	290.1
85°	31.7	36.9	105.5	422.0	933.7	1582.5	2600.6	2426.6	791.3	142.4
87.5°	0.0	0.0	26.4	121.3	253.2	469.5	1102.5	1102.5	242.7	73.9
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°
11257.1	0°	11257.1	11257.1	11257.1	11257.1	11257.1	11257.1	11257.1	11257.1	11257.1	11257.1
11425.9	2.5°	11262.4	11072.5	10655.7	10270.7	9996.4	9685.1	9273.7	9089.0	9020.5	8925.5
11251.8	5°	10967.0	10734.9	10022.7	9305.3	8519.3	7923.2	7290.2	6921.0	6641.4	6467.3
11019.7	7.5°	10550.2	10075.5	9115.4	7965.4	6947.3	6061.1	5101.0	4452.2	4035.5	3866.7
10766.5	10°	10217.9	9600.7	8139.5	6710.0	5354.2	4056.6	2975.2	2405.5	1972.9	1809.4
10434.2	12.5°	9785.3	9046.8	7226.9	5428.1	3724.2	2416.0	1645.8	1429.6	1308.2	1287.1
10254.8	15°	9426.6	8545.7	6361.8	4204.3	2410.7	1508.7	1281.9	1229.1	1197.5	1186.9
9985.8	17.5°	9184.0	8007.6	5475.6	3059.6	1587.8	1234.4	1181.6	1150.0	1134.2	1128.9
9722.0	20°	8703.9	7554.0	4599.9	2141.7	1239.7	1139.4	1097.2	1070.8	1055.0	1049.7
9484.7	22.5°	8429.6	6979.0	3724.2	1492.9	1102.5	1033.9	1002.3	981.2	954.8	939.0
9358.1	25°	8155.3	6557.0	2943.5	1160.5	1002.3	954.8	907.3	880.9	838.7	817.6
9162.9	27.5°	7833.6	6140.2	2268.3	1007.5	902.0	854.6	807.1	764.9	712.1	691.0
9052.1	30°	7648.9	5734.1	1709.1	902.0	828.2	764.9	706.9	654.1	596.1	559.2
9162.9	32.5°	7554.0	5364.8	1281.9	822.9	749.1	680.5	606.6	543.3	490.6	458.9
9173.4	35°	7437.9	5006.1	1007.5	749.1	675.2	601.4	527.5	464.2	411.5	385.1
9574.3	37.5°	7559.2	4795.1	838.7	691.0	617.2	532.8	453.7	390.4	348.2	321.8
10070.2	40°	7891.6	4621.0	728.0	638.3	559.2	469.5	395.6	332.3	295.4	274.3
10856.2	42.5°	8403.3	4621.0	659.4	585.5	506.4	411.5	337.6	290.1	253.2	232.1
12196.1	45°	9331.7	4763.4	601.4	532.8	443.1	353.4	290.1	242.7	205.7	184.6
14047.6	47.5°	10634.6	5090.5	553.9	485.3	395.6	311.2	253.2	205.7	168.8	147.7
16226.3	50°	12386.0	5834.3	506.4	427.3	353.4	269.0	211.0	163.5	131.9	110.8
18557.9	52.5°	14569.9	6889.3	458.9	395.6	300.7	226.8	168.8	131.9	100.2	84.4
20857.8	55°	16880.4	8181.7	400.9	353.4	258.5	189.9	137.2	100.2	73.9	63.3
23637.8	57.5°	19206.7	9178.7	353.4	306.0	211.0	153.0	110.8	79.1	52.8	42.2
25426.1	60°	20441.1	9273.7	306.0	253.2	168.8	121.3	84.4	58.0	36.9	26.4
25958.9	62.5°	20631.0	8429.6	263.8	205.7	137.2	95.0	58.0	42.2	21.1	10.6
25795.3	65°	19655.1	7026.5	226.8	163.5	105.5	68.6	42.2	26.4	10.6	5.3
24281.4	67°	18072.6	5887.0	195.2	137.2	84.4	52.8	31.7	15.8	5.3	0.0
23616.7	67.5°	17460.6	5570.5	184.6	126.6	79.1	47.5	26.4	15.8	5.3	0.0
18858.6	70°	13551.8	3977.4	137.2	89.7	58.0	36.9	21.1	10.6	0.0	0.0
11985.1	72.5°	8303.0	2326.3	105.5	63.3	42.2	26.4	15.8	5.3	0.0	0.0
5106.3	75°	3481.6	801.8	89.7	47.5	31.7	15.8	10.6	5.3	0.0	0.0
1408.5	77.5°	907.3	300.7	63.3	31.7	21.1	15.8	10.6	5.3	0.0	0.0
485.3	80°	369.3	137.2	42.2	21.1	21.1	15.8	10.6	5.3	0.0	0.0
300.7	82.5°	242.7	63.3	26.4	21.1	15.8	10.6	5.3	0.0	0.0	0.0
237.4	85°	184.6	36.9	15.8	15.8	10.6	5.3	0.0	0.0	0.0	0.0
89.7	87.5°	79.1	21.1	15.8	10.6	10.6	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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