

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: P575419

Luminaire Tested: **EPH-VN-07-740-U-SL3-HSS**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575419
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-07-740-U-SL3-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL3 distribution lens and House Side Shield
Light Source: (112) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

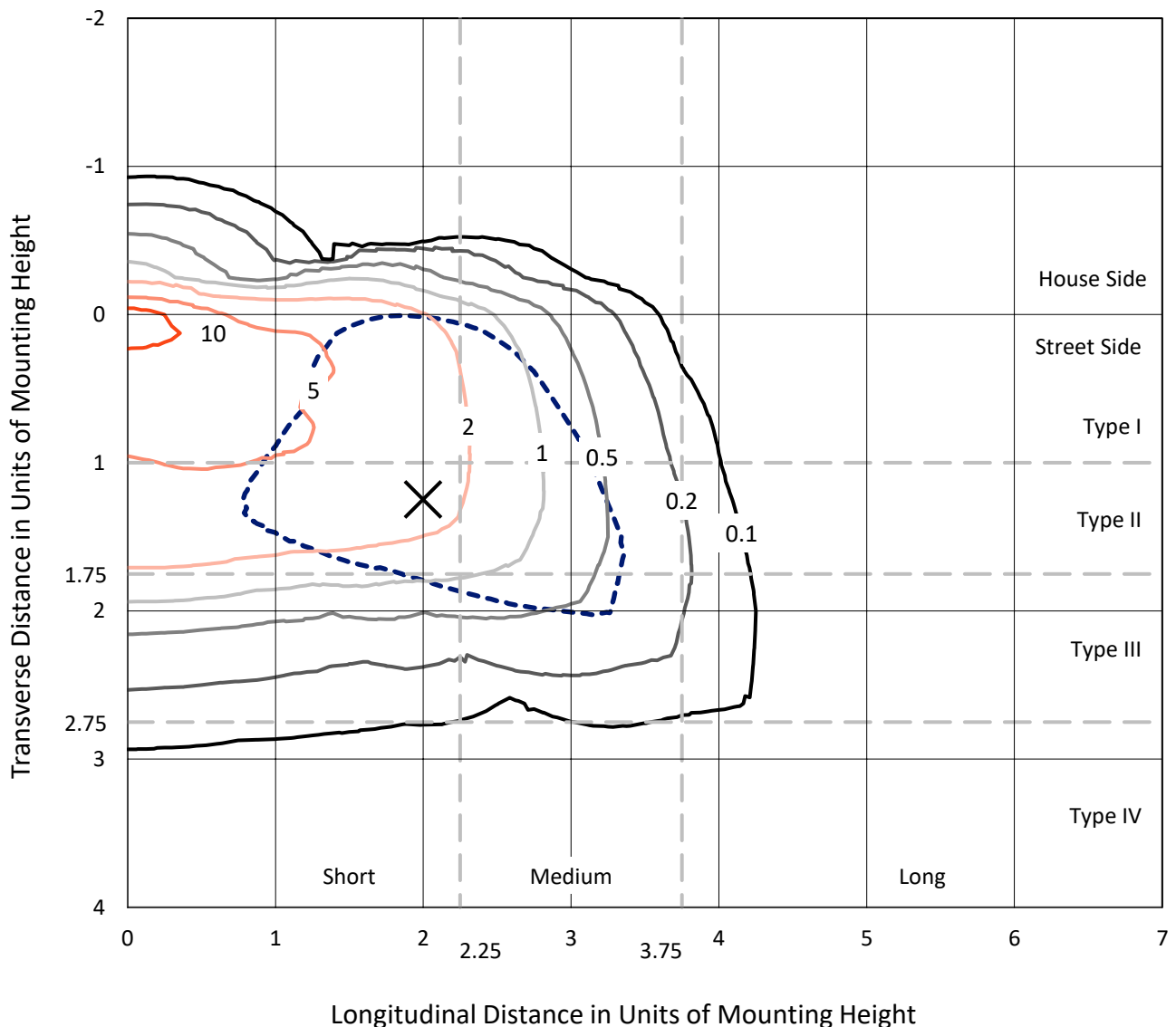
Lumens per Lamp: N/A
Luminaire Lumens: 40794.2 lumens
Efficiency: N/A
Efficacy: 96.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 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

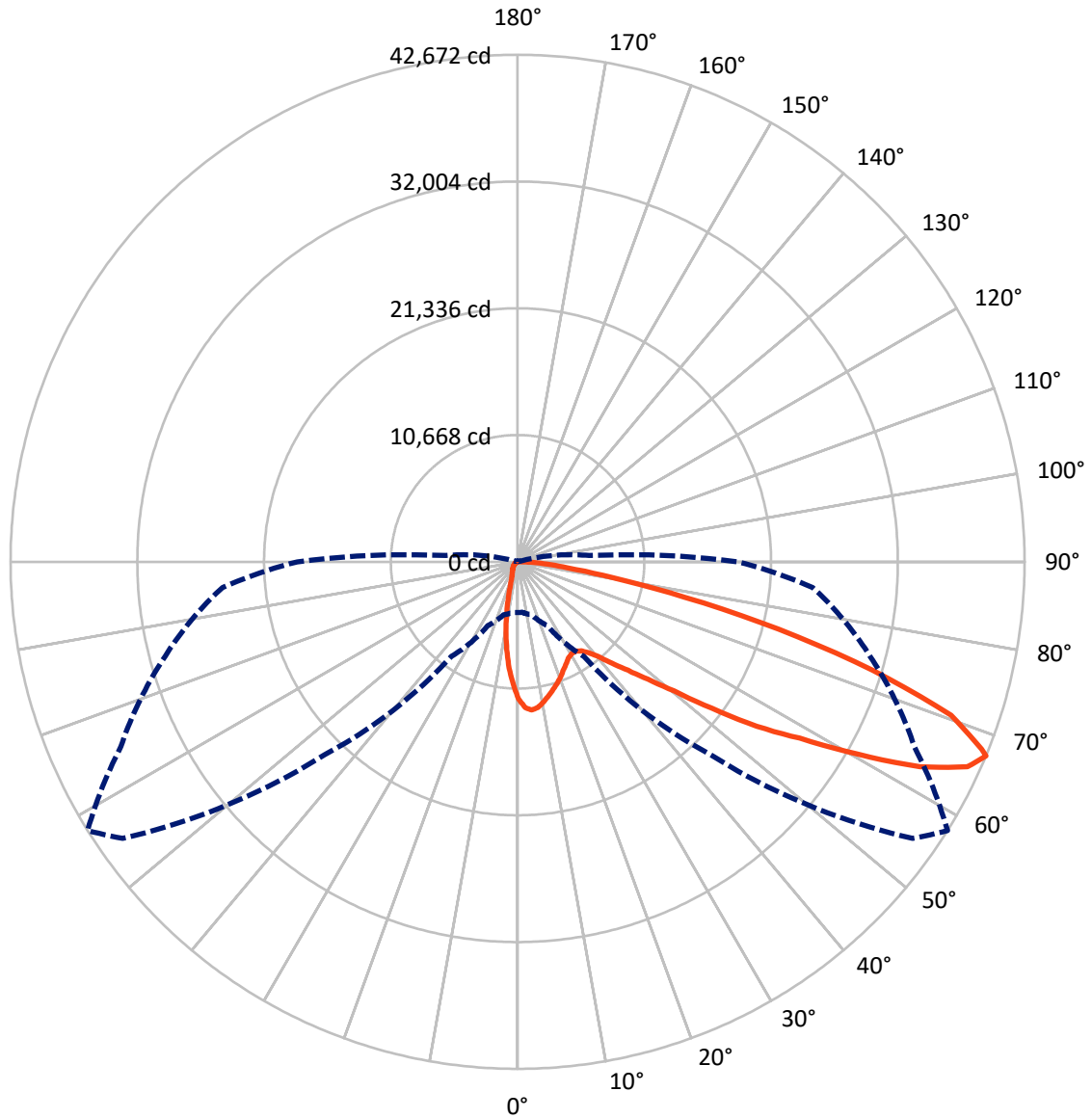
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.9 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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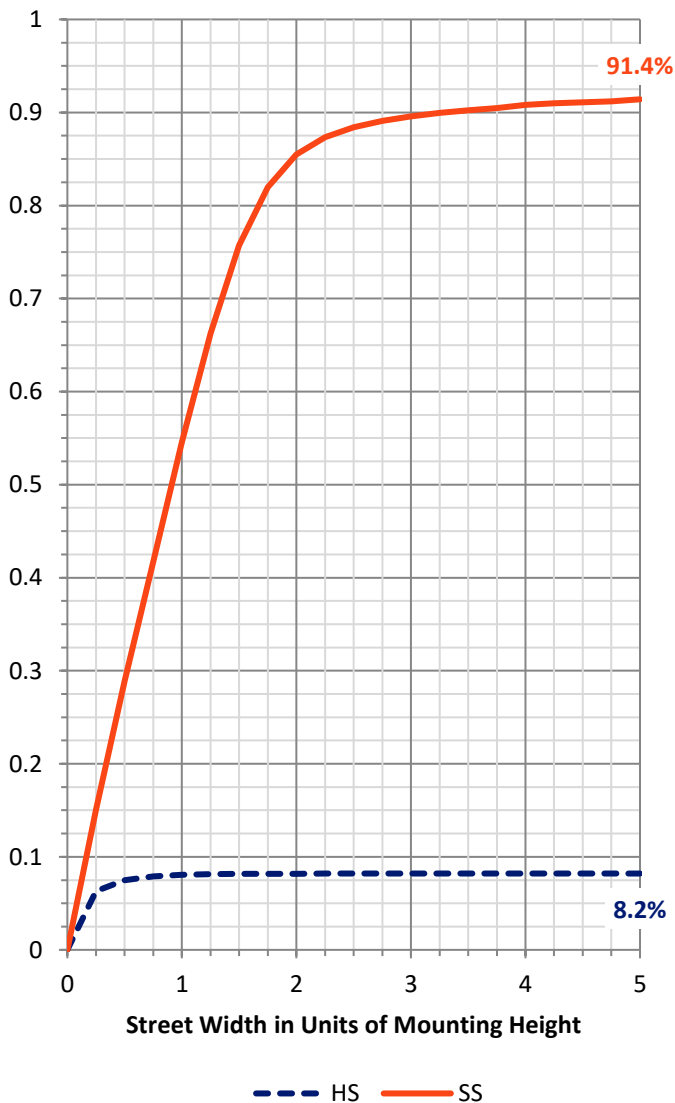
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3371.9	0.0	3371.9
	% Fixture	8.3	0.0	8.3
Street Side	Lumens	37422.3	0.0	37422.3
	% Fixture	91.7	0.0	91.7
Total	Lumens	40794.2	0.0	40794.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	917.0	2.2
10°-20°	1902.1	4.7
20°-30°	2523.7	6.2
30°-40°	3497.0	8.6
40°-50°	5706.1	14.0
50°-60°	10029.6	24.6
60°-70°	11108.5	27.2
70°-80°	4603.4	11.3
80°-90°	506.7	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°	40794.2	100.0
0°-180°	40794.2	100.0

Coefficient of Utilization

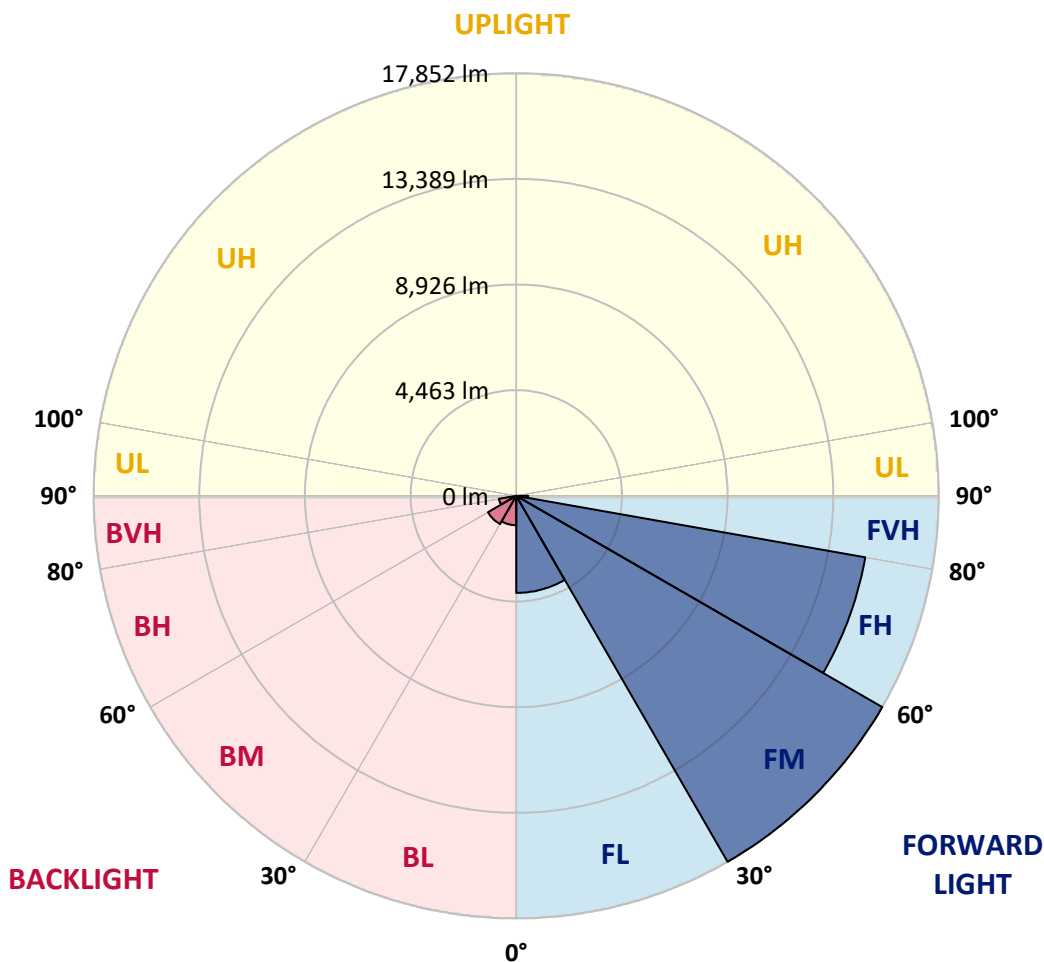


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4101.0	10.1			
FM (30°-60°)	17852.4	43.8			
FH (60°-80°)	14970.6	36.7			G5
FVH (80°-90°)	498.4	1.2			G3/500
BL (0°-30°)	1241.9	3.0	B3/2500		
BM (30°-60°)	1380.3	3.4	B2/2500		
BH (60°-80°)	741.3	1.8	B2/1000		G2/1000
BVH (80°-90°)	8.3	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°	11557.6	11557.6	11557.6	11557.6	11557.6	11557.6	11557.6	11557.6	11557.6	11557.6
2.5°	12575.8	12619.1	12657.0	12586.6	12646.2	12559.5	12337.5	12288.7	12250.8	11920.4
5°	12570.3	12521.6	12559.5	12592.0	12510.8	12575.8	12521.6	12527.0	12380.8	12082.9
7.5°	11730.9	11709.2	11730.9	11887.9	12066.7	12207.5	12288.7	12369.9	12272.5	11828.4
10°	10598.9	10707.3	10766.8	11048.5	11324.7	11584.6	11839.2	11990.8	11963.8	11785.0
12.5°	9808.2	9775.7	9992.4	10176.5	10452.7	10978.1	11422.2	11563.0	11725.5	11476.3
15°	9077.1	8990.4	9120.4	9439.9	9911.1	10328.1	10951.0	11162.2	11368.0	11433.0
17.5°	8378.4	8421.7	8557.1	8844.2	9288.3	9873.2	10458.1	10761.4	11254.3	11167.6
20°	8042.6	8134.7	8183.4	8329.7	8638.4	9223.3	10095.3	10339.0	10864.3	11162.2
22.5°	8058.9	8058.9	7945.1	8031.8	8313.4	8768.4	9602.4	9873.2	10707.3	10880.6
25°	8232.2	8123.9	8129.3	8026.4	8145.5	8394.7	9158.3	9488.7	10387.7	10907.6
27.5°	8362.2	8340.5	8308.0	8280.9	8129.3	8167.2	8865.9	9136.6	10263.2	10875.2
30°	8833.4	8735.9	8703.4	8643.8	8443.4	8259.3	8633.0	8974.2	10165.7	10951.0
32.5°	9228.7	9245.0	9272.0	9098.7	8925.4	8470.5	8698.0	8968.8	10095.3	11124.3
35°	9727.0	9797.4	9808.2	9754.1	9569.9	9120.4	8968.8	9201.6	10214.4	11433.0
37.5°	10485.2	10409.4	10615.2	10636.9	10506.9	9911.1	9597.0	9689.1	10566.4	11925.8
40°	10978.1	11070.1	11454.7	11693.0	11470.9	10929.3	10506.9	10490.6	11075.5	12700.3
42.5°	11525.1	11730.9	12153.3	12667.8	12640.7	12137.1	11709.2	11638.8	11980.0	13821.4
45°	12272.5	12456.6	13046.9	13821.4	14243.9	13816.0	13171.5	13030.7	13079.4	15348.7
47.5°	13512.7	13464.0	14314.3	15077.9	15771.1	15440.8	15164.6	14752.9	14715.0	17146.8
50°	14915.4	14904.6	15662.8	16529.4	17330.9	17975.4	17515.1	17065.5	17076.4	19589.4
52.5°	16247.7	16459.0	17276.8	18137.9	19513.5	20206.8	20650.9	20472.2	19611.0	21772.0
55°	16951.8	17135.9	17948.3	19432.3	21604.1	23385.9	24588.2	24436.6	22773.9	24230.8
57.5°	16285.7	16410.2	17509.6	19454.0	23066.4	27041.7	28195.2	28005.7	26045.1	26110.1
60°	13496.5	13691.4	15327.0	17607.1	22497.7	29857.9	33161.6	32874.6	29023.9	28487.7
62.5°	9347.9	9477.8	10821.0	13658.9	19800.6	30838.2	37851.8	38008.9	32165.1	30339.9
65°	6055.0	6044.2	6813.2	8735.9	14032.6	27870.3	40624.8	41599.6	35198.0	30621.6
67°	4278.6	4262.3	4625.2	5925.0	9716.1	22963.5	40576.0	42672.0	36844.5	30702.8
67.5°	3948.2	3932.0	4278.6	5448.4	8768.4	21354.9	39969.4	42119.6	37424.0	30589.1
70°	3065.4	3022.1	3152.1	3753.2	5107.2	13810.6	34206.9	38691.3	36221.6	27751.1
72.5°	2215.1	2263.9	2469.7	3081.7	4007.8	7430.6	26072.2	31287.7	30253.3	20916.3
75°	1543.5	1586.9	1917.2	2513.0	3677.4	4506.0	17628.8	22692.7	21073.3	11546.7
77.5°	807.0	861.1	1224.0	2009.3	3341.6	3487.8	10534.0	14390.1	11167.6	4110.7
80°	373.7	400.8	612.0	1424.4	2794.6	3065.4	6141.6	8004.7	4468.1	920.7
82.5°	162.5	178.7	281.6	817.8	1982.2	2680.9	3802.0	4197.3	1619.4	297.9
85°	32.5	37.9	108.3	433.3	958.6	1624.8	2670.0	2491.3	812.4	146.2
87.5°	0.0	0.0	27.1	124.6	260.0	482.0	1131.9	1131.9	249.1	75.8
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°
11557.6	0°	11557.6	11557.6	11557.6	11557.6	11557.6	11557.6	11557.6	11557.6	11557.6	11557.6
11730.9	2.5°	11563.0	11368.0	10940.1	10544.8	10263.2	9943.6	9521.2	9331.6	9261.2	9163.7
11552.1	5°	11259.7	11021.4	10290.2	9553.7	8746.7	8134.7	7484.8	7105.7	6818.6	6639.9
11313.8	7.5°	10831.8	10344.4	9358.7	8178.0	7132.8	6222.9	5237.2	4571.0	4143.2	3969.9
11053.9	10°	10490.6	9857.0	8356.8	6889.0	5497.2	4164.8	3054.6	2469.7	2025.6	1857.7
10712.7	12.5°	10046.5	9288.3	7419.8	5573.0	3823.6	2480.5	1689.8	1467.7	1343.1	1321.5
10528.5	15°	9678.2	8773.8	6531.6	4316.5	2475.1	1549.0	1316.1	1261.9	1229.4	1218.6
10252.3	17.5°	9429.1	8221.4	5621.7	3141.2	1630.2	1267.3	1213.2	1180.7	1164.4	1159.0
9981.5	20°	8936.3	7755.6	4722.7	2198.9	1272.7	1169.8	1126.5	1099.4	1083.2	1077.8
9737.8	22.5°	8654.6	7165.3	3823.6	1532.7	1131.9	1061.5	1029.0	1007.4	980.3	964.0
9607.8	25°	8373.0	6732.0	3022.1	1191.5	1029.0	980.3	931.5	904.5	861.1	839.5
9407.4	27.5°	8042.6	6304.1	2328.8	1034.4	926.1	877.4	828.6	785.3	731.1	709.5
9293.7	30°	7853.1	5887.1	1754.8	926.1	850.3	785.3	725.7	671.6	612.0	574.1
9407.4	32.5°	7755.6	5508.0	1316.1	844.9	769.1	698.7	622.8	557.8	503.7	471.2
9418.3	35°	7636.4	5139.7	1034.4	769.1	693.2	617.4	541.6	476.6	422.4	395.4
9829.9	37.5°	7761.0	4923.1	861.1	709.5	633.7	547.0	465.8	400.8	357.5	330.4
10339.0	40°	8102.2	4744.3	747.4	655.3	574.1	482.0	406.2	341.2	303.3	281.6
11145.9	42.5°	8627.5	4744.3	677.0	601.2	519.9	422.4	346.6	297.9	260.0	238.3
12521.6	45°	9580.8	4890.6	617.4	547.0	454.9	362.9	297.9	249.1	211.2	189.6
14422.6	47.5°	10918.5	5226.4	568.7	498.3	406.2	319.5	260.0	211.2	173.3	151.6
16659.3	50°	12716.6	5990.0	519.9	438.7	362.9	276.2	216.6	167.9	135.4	113.7
19053.2	52.5°	14958.8	7073.2	471.2	406.2	308.7	232.9	173.3	135.4	102.9	86.7
21414.5	55°	17330.9	8400.1	411.6	362.9	265.4	195.0	140.8	102.9	75.8	65.0
24268.7	57.5°	19719.3	9423.7	362.9	314.1	216.6	157.1	113.7	81.2	54.2	43.3
26104.7	60°	20986.7	9521.2	314.1	260.0	173.3	124.6	86.7	59.6	37.9	27.1
26651.7	62.5°	21181.6	8654.6	270.8	211.2	140.8	97.5	59.6	43.3	21.7	10.8
26483.8	65°	20179.7	7214.0	232.9	167.9	108.3	70.4	43.3	27.1	10.8	5.4
24929.4	67°	18554.9	6044.2	200.4	140.8	86.7	54.2	32.5	16.2	5.4	0.0
24247.0	67.5°	17926.7	5719.2	189.6	130.0	81.2	48.7	27.1	16.2	5.4	0.0
19361.9	70°	13913.5	4083.6	140.8	92.1	59.6	37.9	21.7	10.8	0.0	0.0
12305.0	72.5°	8524.6	2388.4	108.3	65.0	43.3	27.1	16.2	5.4	0.0	0.0
5242.6	75°	3574.5	823.2	92.1	48.7	32.5	16.2	10.8	5.4	0.0	0.0
1446.0	77.5°	931.5	308.7	65.0	32.5	21.7	16.2	10.8	5.4	0.0	0.0
498.3	80°	379.1	140.8	43.3	21.7	21.7	16.2	10.8	5.4	0.0	0.0
308.7	82.5°	249.1	65.0	27.1	21.7	16.2	10.8	5.4	0.0	0.0	0.0
243.7	85°	189.6	37.9	16.2	16.2	10.8	5.4	0.0	0.0	0.0	0.0
92.1	87.5°	81.2	21.7	16.2	10.8	10.8	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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