

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: P575426

Luminaire Tested: **EPH-VN-08-750-U-SL3-HSS**

Issue Date: 10/19/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P575426  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 10/19/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-VN-08-750-U-SL3-HSS  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL3 distribution lens and House Side Shield  
Light Source: (128) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

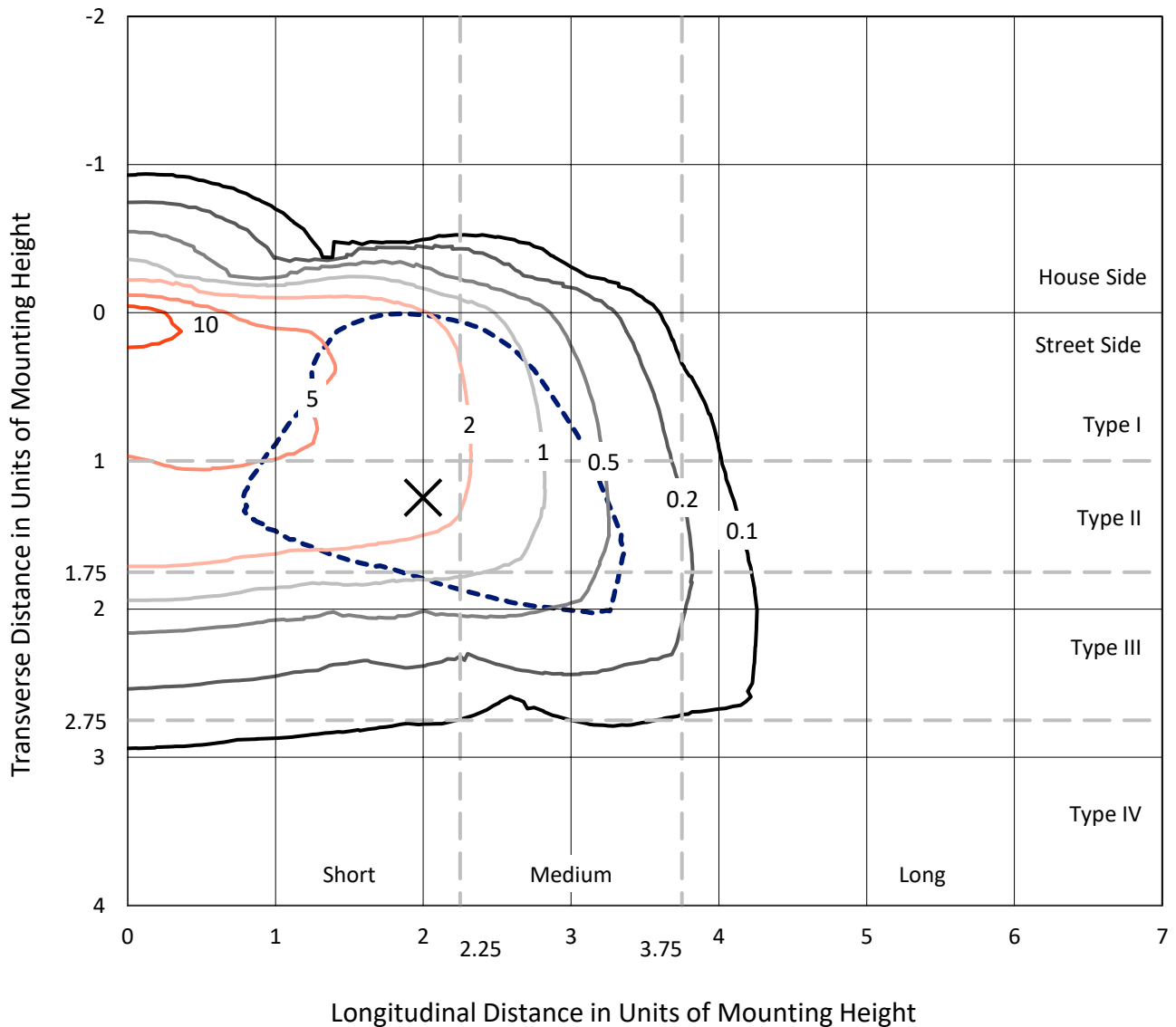
Lumens per Lamp: N/A  
Luminaire Lumens: 41208.2 lumens  
Efficiency: N/A  
Efficacy: 84.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

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

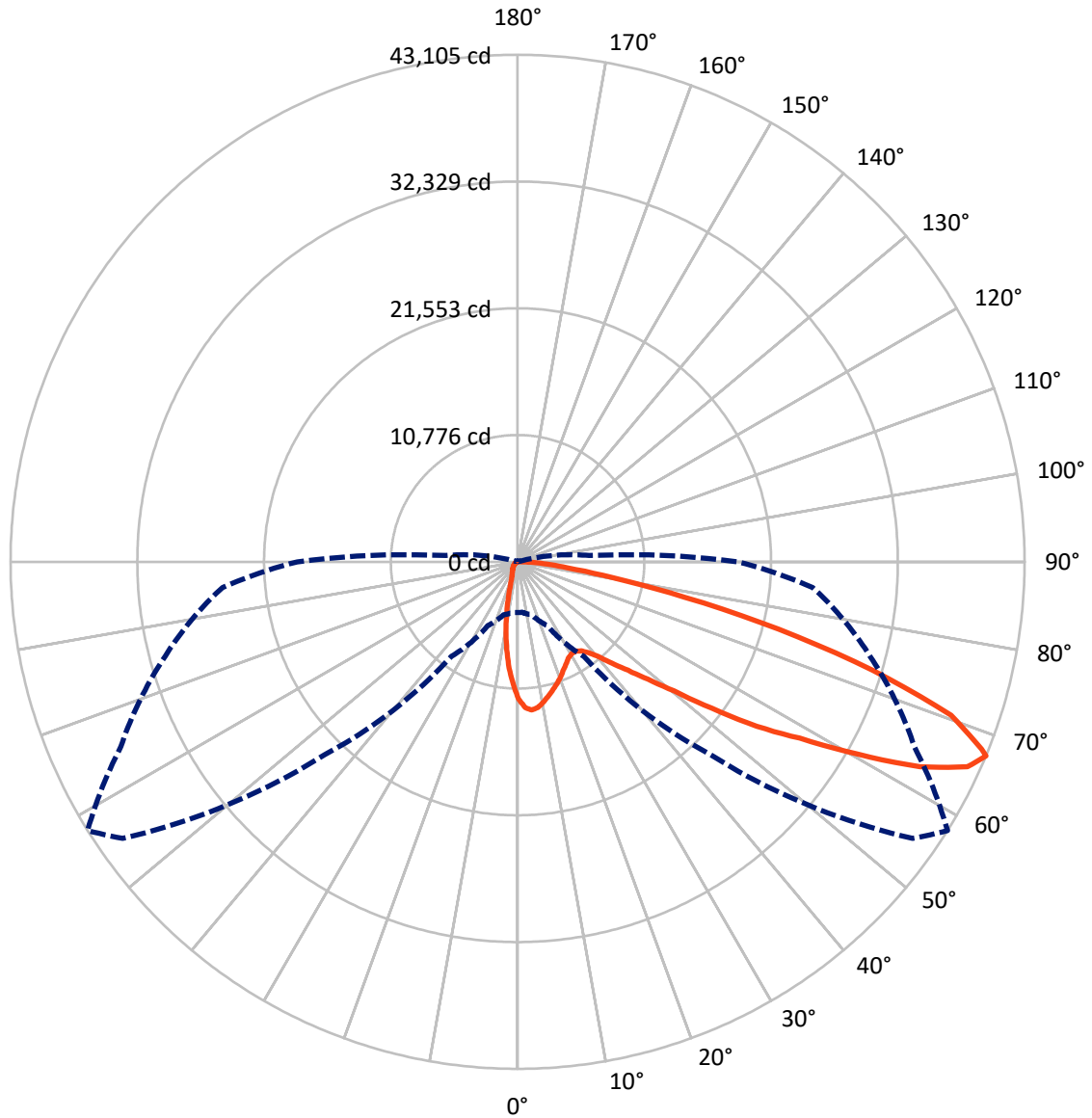
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13 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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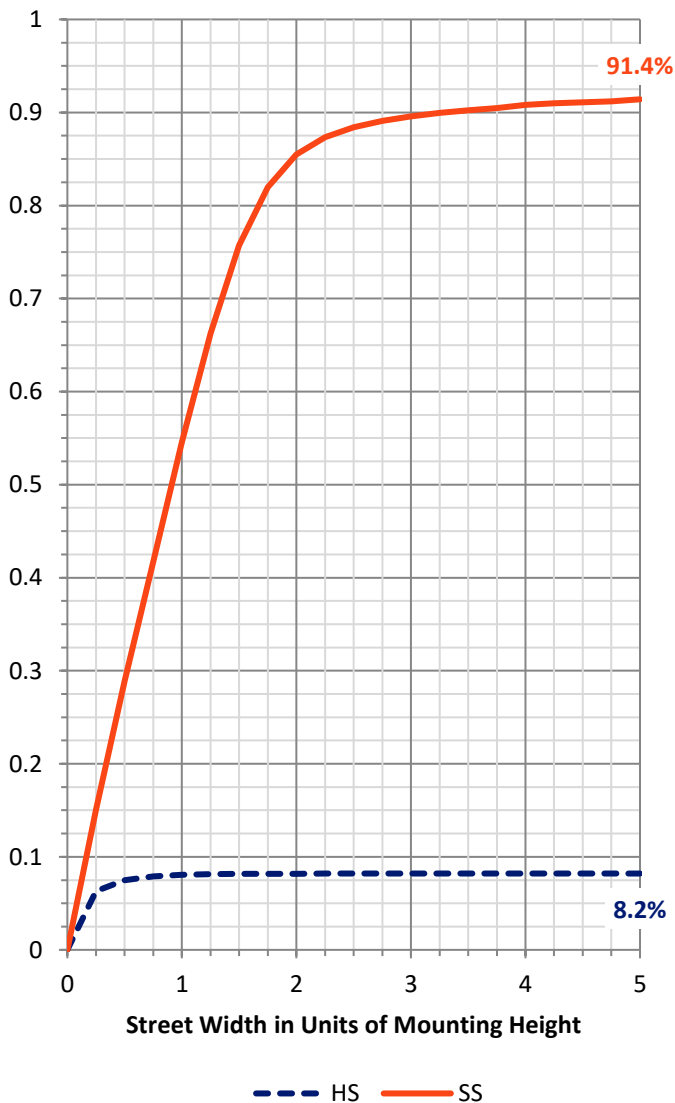
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3406.1	0.0	3406.1
	% Fixture	8.3	0.0	8.3
<b>Street Side</b>	Lumens	37802.0	0.0	37802.0
	% Fixture	91.7	0.0	91.7
<b>Total</b>	Lumens	41208.2	0.0	41208.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	926.3	2.2
10°-20°	1921.4	4.7
20°-30°	2549.3	6.2
30°-40°	3532.5	8.6
40°-50°	5764.0	14.0
50°-60°	10131.3	24.6
60°-70°	11221.3	27.2
70°-80°	4650.1	11.3
80°-90°	511.9	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°	41208.2	100.0
0°-180°	41208.2	100.0

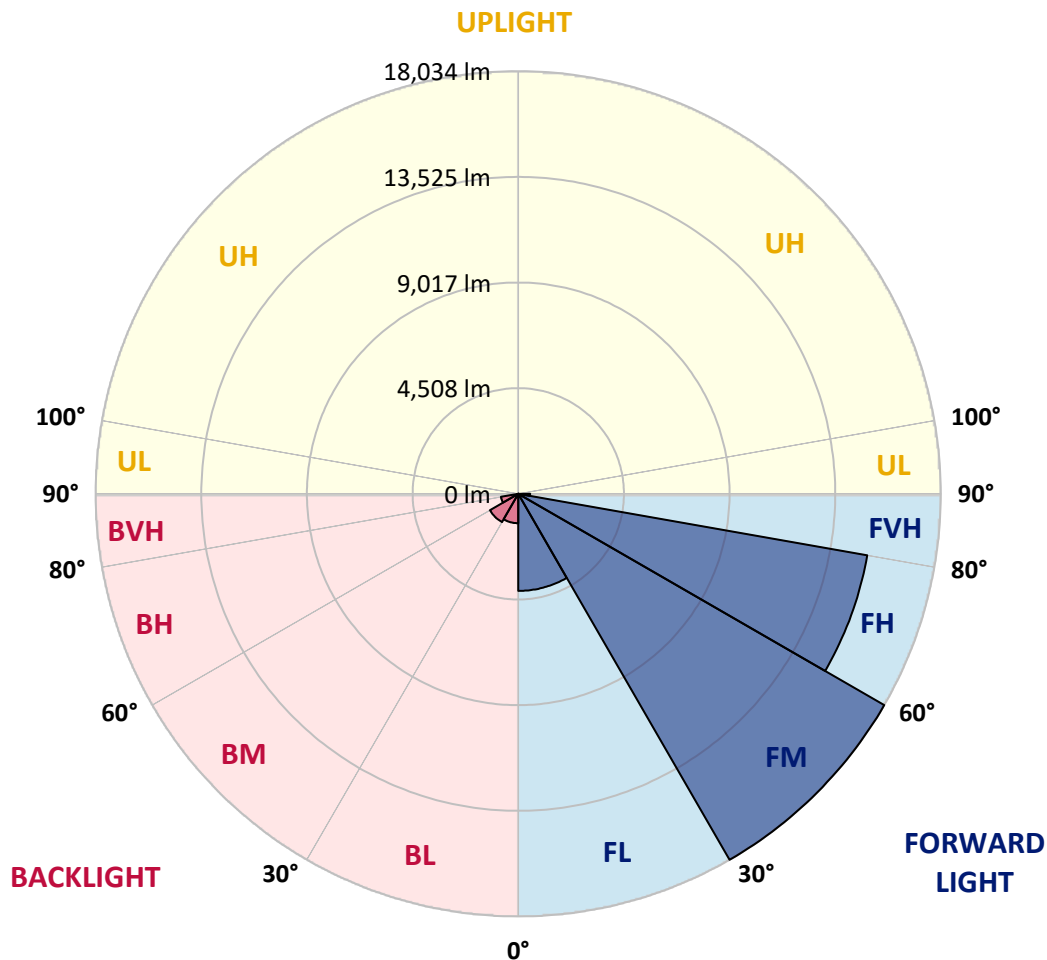


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4142.6	10.1			
FM (30°-60°)	18033.5	43.8			
FH (60°-80°)	15122.5	36.7			G5
FVH (80°-90°)	503.5	1.2			G4/750
BL (0°-30°)	1254.5	3.0	B3/2500		
BM (30°-60°)	1394.3	3.4	B2/2500		
BH (60°-80°)	748.9	1.8	B2/1000		G2/1000
BVH (80°-90°)	8.4	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°	11674.8	11674.8	11674.8	11674.8	11674.8	11674.8	11674.8	11674.8	11674.8	11674.8
2.5°	12703.4	12747.1	12785.4	12714.3	12774.5	12686.9	12462.6	12413.4	12375.1	12041.4
5°	12697.9	12648.7	12686.9	12719.8	12637.7	12703.4	12648.7	12654.1	12506.4	12205.5
7.5°	11849.9	11828.0	11849.9	12008.6	12189.1	12331.3	12413.4	12495.5	12397.0	11948.4
10°	10706.5	10815.9	10876.1	11160.6	11439.6	11702.2	11959.3	12112.5	12085.2	11904.6
12.5°	9907.7	9874.9	10093.8	10279.8	10558.8	11089.5	11538.1	11680.3	11844.4	11592.8
15°	9169.2	9081.6	9212.9	9535.7	10011.7	10433.0	11062.1	11275.5	11483.4	11549.0
17.5°	8463.4	8507.2	8644.0	8933.9	9382.5	9973.4	10564.3	10870.6	11368.5	11280.9
20°	8124.2	8217.2	8266.5	8414.2	8726.0	9316.9	10197.7	10443.9	10974.6	11275.5
22.5°	8140.7	8140.7	8025.8	8113.3	8397.8	8857.3	9699.9	9973.4	10815.9	10991.0
25°	8315.7	8206.3	8211.8	8107.8	8228.2	8479.8	9251.2	9585.0	10493.1	11018.3
27.5°	8447.0	8425.1	8392.3	8365.0	8211.8	8250.1	8955.8	9229.4	10367.3	10985.5
30°	8923.0	8824.5	8791.7	8731.5	8529.1	8343.1	8720.6	9065.2	10268.8	11062.1
32.5°	9322.4	9338.8	9366.1	9191.1	9016.0	8556.4	8786.2	9059.8	10197.7	11237.2
35°	9825.7	9896.8	9907.7	9853.0	9667.0	9212.9	9059.8	9295.0	10318.1	11549.0
37.5°	10591.6	10515.0	10722.9	10744.8	10613.5	10011.7	9694.4	9787.4	10673.7	12046.9
40°	11089.5	11182.5	11570.9	11811.6	11587.3	11040.2	10613.5	10597.1	11187.9	12829.2
42.5°	11642.0	11849.9	12276.6	12796.4	12769.0	12260.2	11828.0	11756.9	12101.6	13961.7
45°	12397.0	12583.0	13179.3	13961.7	14388.4	13956.2	13305.2	13162.9	13212.2	15504.4
47.5°	13649.8	13600.6	14459.5	15230.9	15931.2	15597.5	15318.4	14902.7	14864.4	17320.8
50°	15066.8	15055.8	15821.8	16697.1	17506.8	18157.8	17692.8	17238.7	17249.7	19788.1
52.5°	16412.6	16626.0	17452.1	18321.9	19711.5	20411.8	20860.4	20679.9	19810.0	21992.9
55°	17123.8	17309.8	18130.5	19629.5	21823.3	23623.2	24837.8	24684.6	23005.0	24476.7
57.5°	16450.9	16576.7	17687.3	19651.4	23300.4	27316.1	28481.4	28289.9	26309.4	26375.1
60°	13633.4	13830.4	15482.6	17785.8	22726.0	30160.9	33498.1	33208.2	29318.4	28776.8
62.5°	9442.7	9574.0	10930.8	13797.5	20001.5	31151.1	38235.9	38394.6	32491.5	30647.8
65°	6116.4	6105.5	6882.4	8824.5	14175.0	28153.1	41037.0	42021.8	35555.2	30932.3
67°	4322.0	4305.6	4672.1	5985.1	9814.7	23196.5	40987.8	43105.0	37218.3	31014.4
67.5°	3988.3	3971.9	4322.0	5503.7	8857.3	21571.6	40375.0	42547.0	37803.7	30899.5
70°	3096.5	3052.7	3184.0	3791.3	5159.0	13950.7	34554.0	39083.9	36589.2	28032.7
72.5°	2237.6	2286.8	2494.7	3112.9	4048.4	7506.0	26336.8	31605.2	30560.3	21128.5
75°	1559.2	1603.0	1936.7	2538.5	3714.7	4551.8	17807.7	22922.9	21287.2	11663.9
77.5°	815.2	869.9	1236.4	2029.7	3375.5	3523.2	10640.8	14536.1	11280.9	4152.4
80°	377.5	404.8	618.2	1438.8	2823.0	3096.5	6204.0	8085.9	4513.5	930.0
82.5°	164.1	180.5	284.5	826.1	2002.3	2708.1	3840.6	4239.9	1635.8	300.9
85°	32.8	38.3	109.4	437.7	968.3	1641.3	2697.1	2516.6	820.6	147.7
87.5°	0.0	0.0	27.4	125.8	262.6	486.9	1143.4	1143.4	251.7	76.6
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°
11674.8	0°	11674.8	11674.8	11674.8	11674.8	11674.8	11674.8	11674.8	11674.8	11674.8	11674.8
11849.9	2.5°	11680.3	11483.4	11051.2	10651.8	10367.3	10044.5	9617.8	9426.3	9355.2	9256.7
11669.4	5°	11373.9	11133.2	10394.7	9650.6	8835.5	8217.2	7560.7	7177.8	6887.8	6707.3
11428.6	7.5°	10941.7	10449.4	9453.7	8261.0	7205.1	6286.0	5290.3	4617.4	4185.2	4010.1
11166.0	10°	10597.1	9957.0	8441.6	6958.9	5552.9	4207.1	3085.6	2494.7	2046.1	1876.5
10821.4	12.5°	10148.5	9382.5	7495.1	5629.5	3862.4	2505.7	1706.9	1482.6	1356.8	1334.9
10635.4	15°	9776.4	8862.8	6597.9	4360.3	2500.2	1564.7	1329.4	1274.7	1241.9	1230.9
10356.4	17.5°	9524.8	8304.8	5678.8	3173.1	1646.7	1280.2	1225.5	1192.6	1176.2	1170.8
10082.8	20°	9026.9	7834.3	4770.6	2221.2	1285.7	1181.7	1137.9	1110.6	1094.2	1088.7
9836.6	22.5°	8742.5	7238.0	3862.4	1548.3	1143.4	1072.3	1039.5	1017.6	990.2	973.8
9705.3	25°	8458.0	6800.3	3052.7	1203.6	1039.5	990.2	941.0	913.6	869.9	848.0
9502.9	27.5°	8124.2	6368.1	2352.5	1044.9	935.5	886.3	837.0	793.3	738.6	716.7
9388.0	30°	7932.8	5946.8	1772.6	935.5	858.9	793.3	733.1	678.4	618.2	579.9
9502.9	32.5°	7834.3	5563.9	1329.4	853.5	776.9	705.7	629.2	563.5	508.8	476.0
9513.8	35°	7713.9	5191.9	1044.9	776.9	700.3	623.7	547.1	481.4	426.7	399.4
9929.6	37.5°	7839.8	4973.0	869.9	716.7	640.1	552.6	470.5	404.8	361.1	333.7
10443.9	40°	8184.4	4792.5	755.0	662.0	579.9	486.9	410.3	344.7	306.4	284.5
11259.1	42.5°	8715.1	4792.5	683.9	607.3	525.2	426.7	350.1	300.9	262.6	240.7
12648.7	45°	9678.0	4940.2	623.7	552.6	459.6	366.5	300.9	251.7	213.4	191.5
14568.9	47.5°	11029.3	5279.4	574.4	503.3	410.3	322.8	262.6	213.4	175.1	153.2
16828.4	50°	12845.6	6050.8	525.2	443.1	366.5	279.0	218.8	169.6	136.8	114.9
19246.5	52.5°	15110.5	7145.0	476.0	410.3	311.8	235.2	175.1	136.8	103.9	87.5
21631.8	55°	17506.8	8485.3	415.8	366.5	268.1	197.0	142.2	103.9	76.6	65.7
24515.0	57.5°	19919.4	9519.3	366.5	317.3	218.8	158.7	114.9	82.1	54.7	43.8
26369.6	60°	21199.6	9617.8	317.3	262.6	175.1	125.8	87.5	60.2	38.3	27.4
26922.2	62.5°	21396.6	8742.5	273.5	213.4	142.2	98.5	60.2	43.8	21.9	10.9
26752.6	65°	20384.5	7287.2	235.2	169.6	109.4	71.1	43.8	27.4	10.9	5.5
25182.4	67°	18743.2	6105.5	202.4	142.2	87.5	54.7	32.8	16.4	5.5	0.0
24493.1	67.5°	18108.6	5777.2	191.5	131.3	82.1	49.2	27.4	16.4	5.5	0.0
19558.4	70°	14054.7	4125.0	142.2	93.0	60.2	38.3	21.9	10.9	0.0	0.0
12429.8	72.5°	8611.2	2412.7	109.4	65.7	43.8	27.4	16.4	5.5	0.0	0.0
5295.8	75°	3610.8	831.6	93.0	49.2	32.8	16.4	10.9	5.5	0.0	0.0
1460.7	77.5°	941.0	311.8	65.7	32.8	21.9	16.4	10.9	5.5	0.0	0.0
503.3	80°	383.0	142.2	43.8	21.9	21.9	16.4	10.9	5.5	0.0	0.0
311.8	82.5°	251.7	65.7	27.4	21.9	16.4	10.9	5.5	0.0	0.0	0.0
246.2	85°	191.5	38.3	16.4	16.4	10.9	5.5	0.0	0.0	0.0	0.0
93.0	87.5°	82.1	21.9	16.4	10.9	10.9	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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