

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: P575385

Luminaire Tested: **EPH-VN-07-750-U-SL2-HSS**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P575385  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 10/19/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-VN-07-750-U-SL2-HSS  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL2 distribution lens and House Side Shield  
Light Source: (112) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

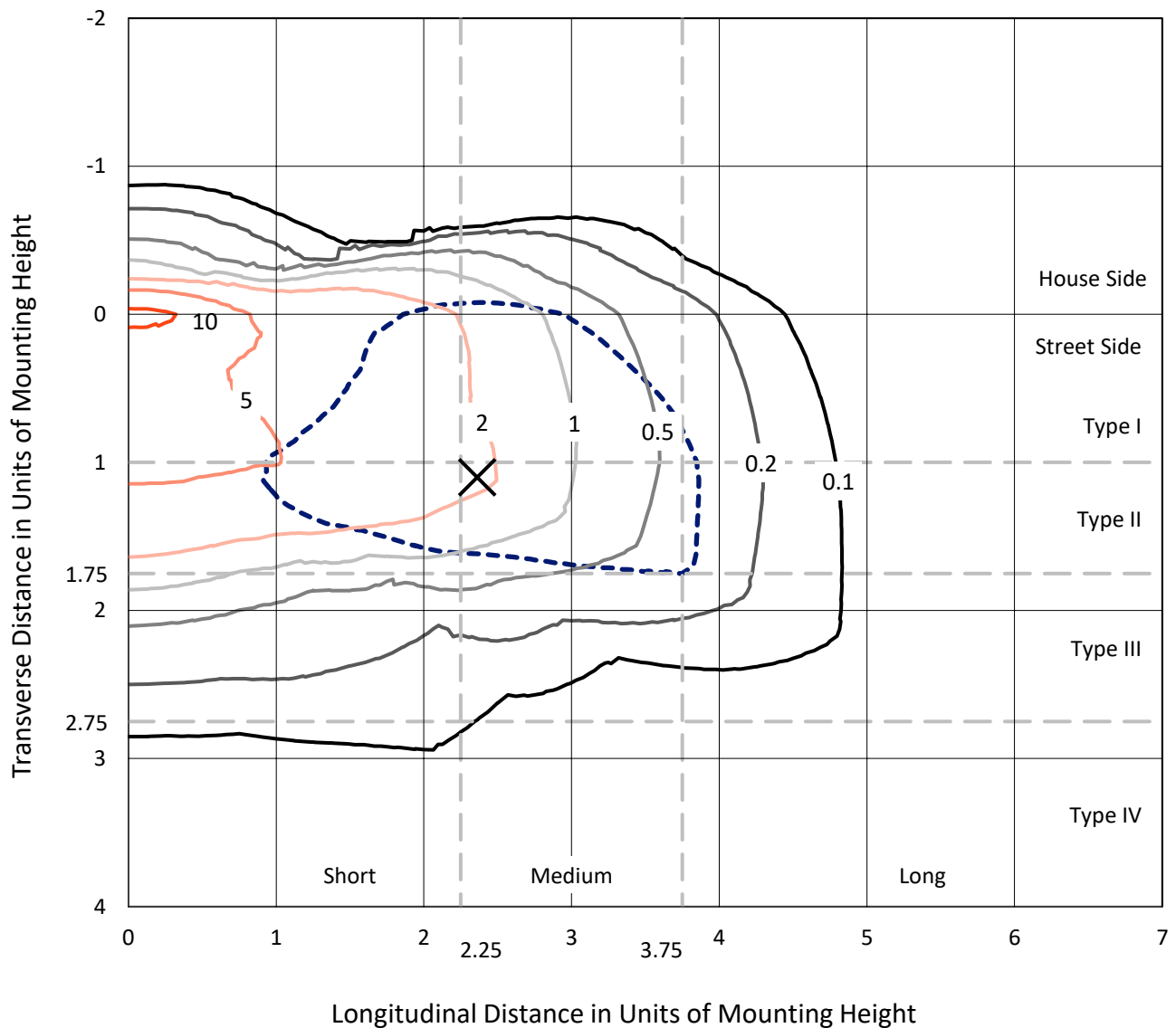
Lumens per Lamp: N/A  
Luminaire Lumens: 41067.6 lumens  
Efficiency: N/A  
Efficacy: 97.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G5

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

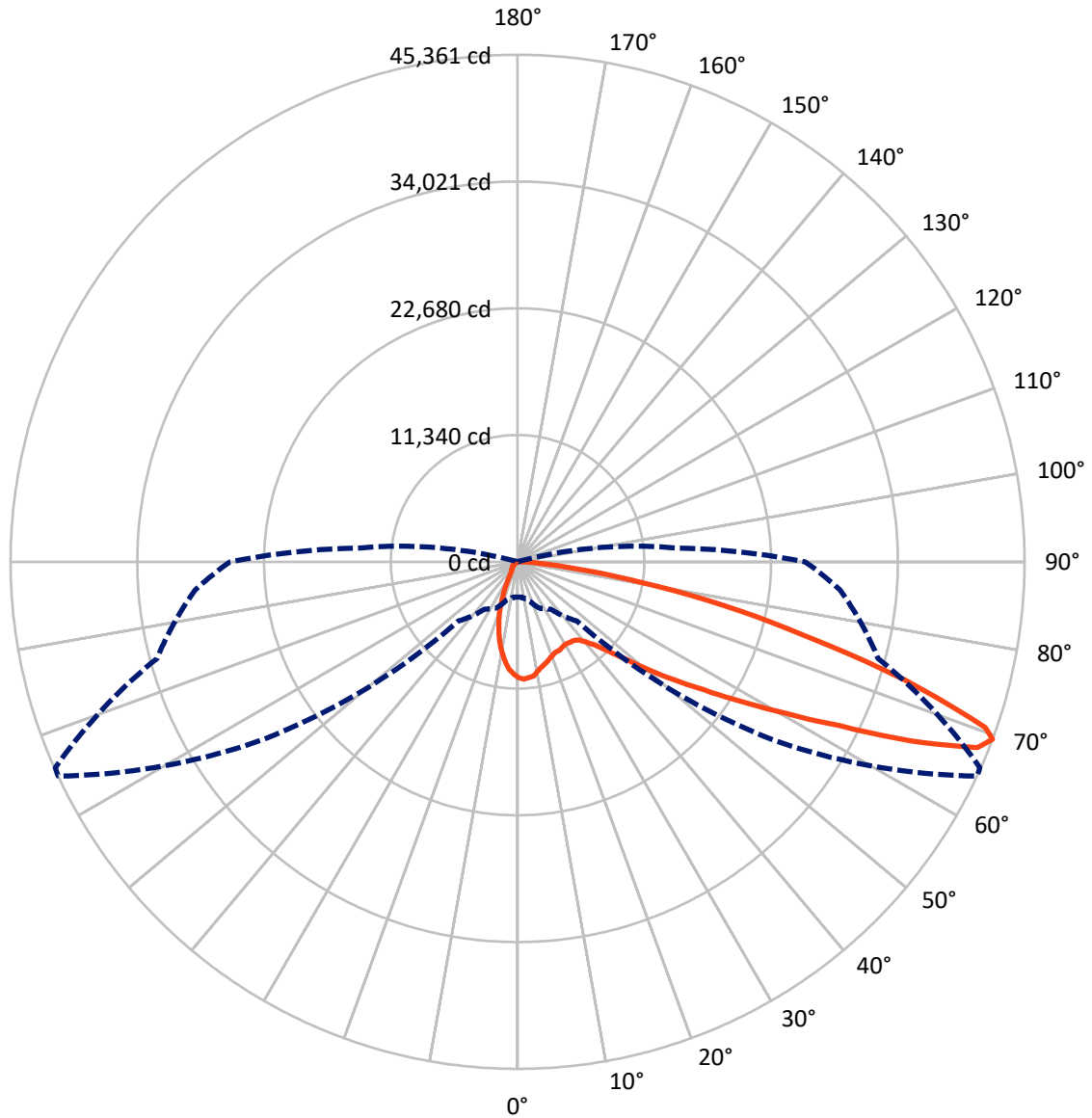
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.5 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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

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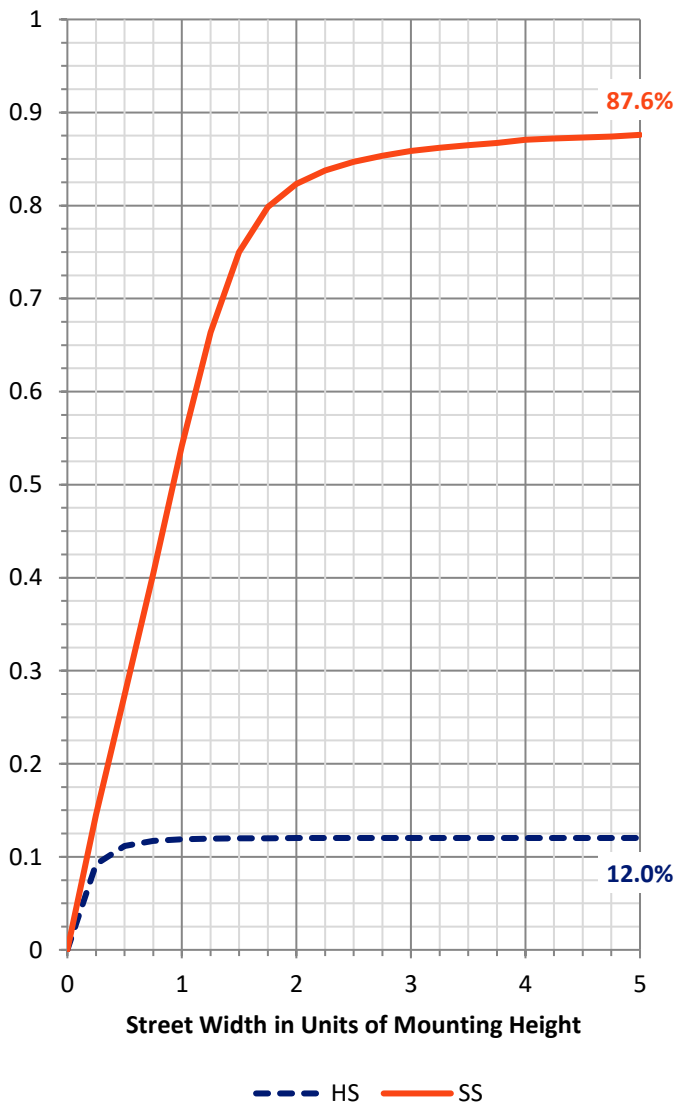
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4981.8	0.0	4981.8
	% Fixture	12.1	0.0	12.1
<b>Street Side</b>	Lumens	36085.9	0.0	36085.9
	% Fixture	87.9	0.0	87.9
<b>Total</b>	Lumens	41067.6	0.0	41067.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	847.3	2.1
10°-20°	1853.9	4.5
20°-30°	2581.0	6.3
30°-40°	3657.6	8.9
40°-50°	5764.2	14.0
50°-60°	9353.3	22.8
60°-70°	10445.7	25.4
70°-80°	5882.1	14.3
80°-90°	682.5	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°	41067.6	100.0
0°-180°	41067.6	100.0

**Coefficient of Utilization**

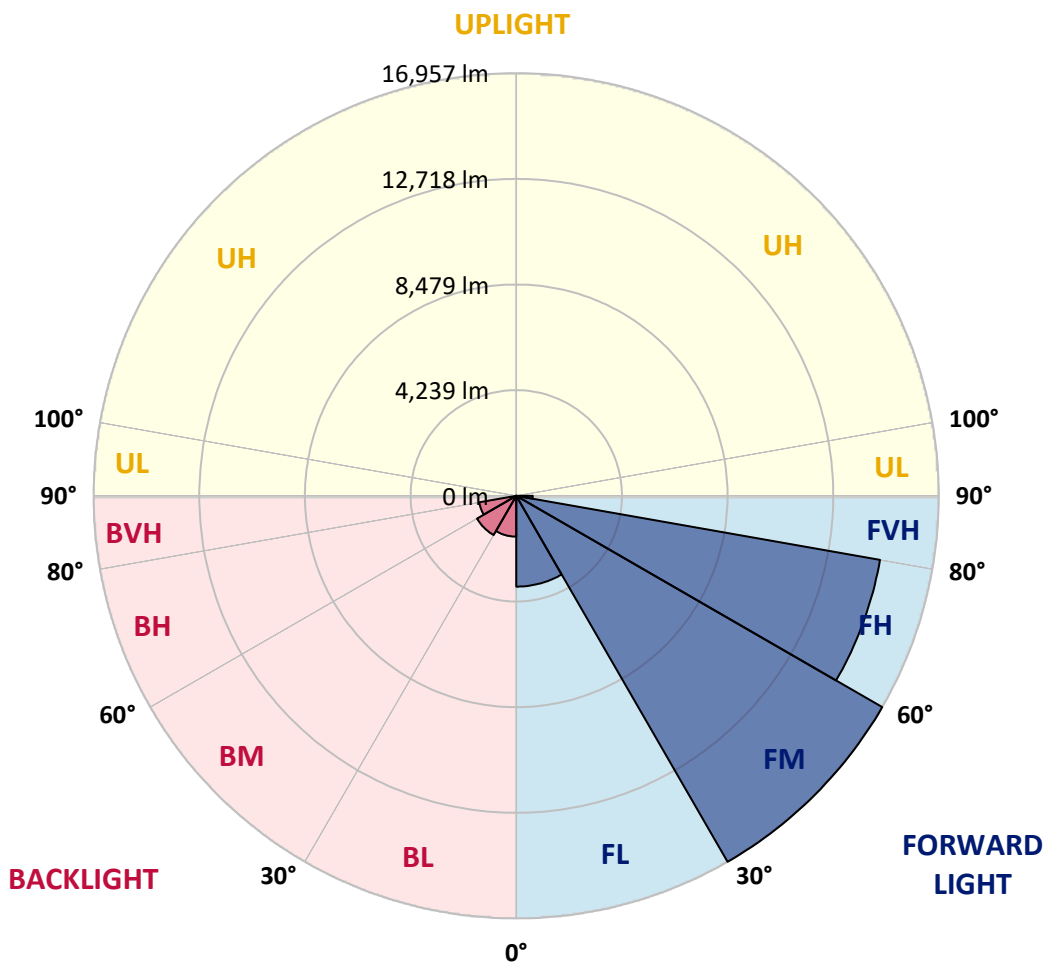


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3644.3	8.9			
FM (30°-60°)	16957.2	41.3			
FH (60°-80°)	14820.6	36.1			G5
FVH (80°-90°)	663.7	1.6			G4/750
BL (0°-30°)	1637.9	4.0	B3/2500		
BM (30°-60°)	1817.8	4.4	B2/2500		
BH (60°-80°)	1507.3	3.7	B3/2500		G3/2500
BVH (80°-90°)	18.8	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**  
 Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	10354.1	10354.1	10354.1	10354.1	10354.1	10354.1	10354.1	10354.1	10354.1	10354.1
2.5°	9971.8	10049.4	10071.6	10149.1	10187.9	10354.1	10448.3	10503.7	10476.0	10536.9
5°	9262.7	9218.4	9334.8	9417.9	9595.1	9883.2	10176.8	10404.0	10509.2	10608.9
7.5°	8503.8	8481.6	8598.0	8786.3	8947.0	9296.0	9766.9	10326.4	10304.2	10548.0
10°	7983.0	8005.2	8044.0	8232.3	8470.5	8825.1	9412.3	9933.1	10049.4	10564.6
12.5°	7506.6	7545.4	7617.4	7811.3	8088.3	8453.9	9024.5	9633.9	9811.2	10470.4
15°	7351.5	7262.8	7406.9	7550.9	7839.0	8165.8	8647.8	9406.8	9484.3	10359.6
17.5°	7224.1	7168.7	7235.1	7351.5	7656.2	7922.1	8376.4	9163.0	9307.1	10315.3
20°	7262.8	7213.0	7240.7	7329.3	7467.8	7717.1	8138.1	8930.3	9085.5	10110.3
22.5°	7373.6	7412.4	7362.5	7384.7	7429.0	7556.4	8010.7	8764.1	8897.1	10071.6
25°	7872.2	7805.7	7739.3	7711.6	7451.2	7506.6	7971.9	8753.1	8847.2	9933.1
27.5°	8393.0	8337.6	8309.9	8149.2	7794.7	7628.5	7977.5	8598.0	8725.4	9877.7
30°	9024.5	9096.5	8985.7	8791.8	8298.8	7888.8	8038.4	8520.4	8697.7	9667.2
32.5°	9689.3	9728.1	9783.5	9639.5	9002.4	8282.2	8221.2	8592.4	8603.5	9667.2
35°	10442.7	10387.3	10531.4	10542.5	9982.9	8980.2	8570.3	8642.3	8758.6	9622.8
37.5°	11090.9	11185.1	11351.3	11617.2	11041.1	9966.3	9113.2	8874.9	8924.8	9827.8
40°	11800.0	11894.2	12270.9	12536.8	12210.0	11074.3	9938.6	9417.9	9456.6	10132.5
42.5°	12581.2	12764.0	13212.7	13678.1	13589.4	12481.4	11002.3	10215.6	10199.0	10891.5
45°	13639.3	13883.0	14370.5	14907.9	14985.5	14093.5	12420.5	11406.7	11462.1	11883.1
47.5°	15112.9	15101.8	15578.2	16176.6	16625.3	15766.6	14115.7	13007.7	13002.2	13450.9
50°	16536.7	16542.2	16669.6	17362.1	18525.5	18087.8	16215.3	15135.1	15074.1	15295.7
52.5°	17195.9	17118.3	17024.2	17860.7	19988.0	21012.9	18874.5	17544.9	17495.1	17362.1
55°	16503.4	16531.1	16525.6	17395.3	20758.1	24098.6	22287.1	20198.5	20115.4	19699.9
57.5°	14281.9	14193.3	14387.2	15744.4	19877.2	26203.8	27167.8	23544.6	23328.6	21949.1
60°	10631.1	10658.8	10819.5	12420.5	17689.0	26647.0	31837.9	27472.4	26541.7	23533.6
62.5°	7423.5	7368.1	7429.0	8326.5	12647.6	24874.2	34995.7	32247.9	31350.4	25334.0
65°	5312.8	5240.8	5484.5	6033.0	7595.2	19018.5	35444.4	38607.7	37804.4	28209.3
67.5°	3822.5	3811.5	4094.0	5091.2	5395.9	10952.4	32120.4	44369.2	43881.7	31621.8
69°	3163.3	3168.8	3440.3	4559.4	5152.1	7478.9	27638.6	45360.8	45272.2	33383.5
70°	2758.9	2781.0	3096.8	4243.6	5052.4	6149.3	23827.2	44385.8	44297.2	33727.0
72.5°	1700.8	1717.4	2132.9	3401.5	4803.1	5019.2	14248.7	36314.2	36618.8	32153.7
75°	814.4	819.9	1119.1	2459.7	4631.4	4758.8	7634.0	26796.6	27439.2	25960.0
77.5°	432.1	432.1	537.4	1307.4	3750.5	4476.3	4531.7	18902.2	19434.0	16414.8
80°	216.1	221.6	326.9	681.4	2326.8	4387.6	3540.0	11273.7	11561.8	6697.8
82.5°	83.1	88.6	155.1	410.0	1207.7	3706.2	3107.9	5545.5	5473.4	1567.8
85°	11.1	11.1	55.4	243.8	515.2	1634.3	2565.0	2315.7	2238.1	343.5
87.5°	0.0	0.0	11.1	72.0	155.1	476.4	991.6	637.1	709.1	94.2
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°
10354.1	0°	10354.1	10354.1	10354.1	10354.1	10354.1	10354.1	10354.1	10354.1	10354.1	10354.1
10542.5	2.5°	10514.8	10398.4	10221.1	10049.4	9866.6	9645.0	9401.2	9312.6	9157.5	9146.4
10592.3	5°	10503.7	10315.3	10005.1	9639.5	9118.7	8725.4	8298.8	7988.6	7750.3	7595.2
10620.0	7.5°	10559.1	10331.9	9794.6	9007.9	8337.6	7556.4	6897.2	6442.9	6027.4	5822.5
10708.7	10°	10470.4	10165.7	9379.1	8276.6	7290.5	6199.2	5235.2	4625.8	4005.4	3778.2
10758.5	12.5°	10520.3	10093.7	8930.3	7523.2	6165.9	4747.7	3595.4	2764.4	2182.7	1994.4
10841.6	15°	10553.5	9938.6	8498.2	6620.2	4919.4	3235.3	2083.0	1567.8	1385.0	1351.7
10830.5	17.5°	10426.1	9750.3	7888.8	5728.3	3645.3	1966.7	1385.0	1279.7	1246.5	1224.3
10813.9	20°	10420.6	9639.5	7362.5	4814.2	2432.0	1340.7	1196.6	1157.8	1108.0	1091.4
10908.1	22.5°	10326.4	9406.8	6731.0	3811.5	1551.2	1152.3	1074.7	1013.8	958.4	936.2
10830.5	25°	10298.7	9135.3	6138.2	2864.1	1180.0	1030.4	952.9	864.2	797.7	764.5
10736.4	27.5°	10221.1	8902.6	5539.9	2016.5	1030.4	919.6	819.9	725.7	648.2	598.3
10675.4	30°	9944.2	8658.9	4875.1	1396.1	936.2	814.4	703.6	592.8	515.2	482.0
10536.9	32.5°	9827.8	8431.8	4149.4	1074.7	853.1	720.2	592.8	493.1	432.1	398.9
10487.1	35°	9689.3	8099.4	3445.8	936.2	775.6	626.0	498.6	415.5	365.6	337.9
10525.8	37.5°	9705.9	7833.4	2786.6	847.6	692.5	537.4	426.6	354.6	310.2	282.5
10725.3	40°	9656.1	7622.9	2166.1	770.0	614.9	459.8	360.1	299.2	260.4	232.7
11135.2	42.5°	9883.2	7567.5	1634.3	703.6	537.4	393.3	310.2	254.8	216.1	182.8
11982.8	45°	10265.5	7656.2	1274.2	642.6	459.8	337.9	265.9	210.5	171.7	149.6
13240.4	47.5°	11284.8	8005.2	997.2	592.8	393.3	293.6	221.6	171.7	138.5	116.3
14957.8	50°	12764.0	8786.3	847.6	520.8	332.4	249.3	182.8	133.0	110.8	88.6
17273.5	52.5°	14869.1	10099.3	770.0	459.8	277.0	205.0	144.0	105.3	83.1	66.5
19821.8	55°	17162.7	11739.1	698.0	387.8	232.7	166.2	116.3	83.1	60.9	44.3
21672.2	57.5°	18952.1	13157.3	637.1	321.3	188.4	133.0	88.6	60.9	44.3	27.7
23151.3	60°	20907.6	14154.5	559.5	254.8	155.1	99.7	66.5	44.3	33.2	16.6
25112.4	62.5°	22924.2	15323.4	459.8	199.4	121.9	77.6	49.9	33.2	22.2	5.5
27677.4	65°	25727.4	16237.5	354.6	155.1	94.2	55.4	38.8	27.7	11.1	0.0
29239.7	67.5°	26519.6	15788.8	260.4	121.9	66.5	38.8	27.7	16.6	5.5	0.0
28946.1	69°	25727.4	14221.0	227.1	105.3	55.4	33.2	22.2	11.1	5.5	0.0
27976.6	70°	24281.5	13002.2	199.4	88.6	49.9	33.2	16.6	11.1	5.5	0.0
24104.2	72.5°	20309.3	9971.8	155.1	66.5	38.8	27.7	16.6	11.1	0.0	0.0
18835.7	75°	14896.8	6160.4	116.3	49.9	33.2	22.2	16.6	11.1	0.0	0.0
10708.7	77.5°	7983.0	2249.2	83.1	33.2	22.2	16.6	16.6	11.1	0.0	0.0
3335.0	80°	2188.3	664.8	60.9	22.2	16.6	11.1	11.1	5.5	0.0	0.0
814.4	82.5°	598.3	171.7	38.8	22.2	16.6	11.1	5.5	0.0	0.0	0.0
393.3	85°	321.3	66.5	22.2	16.6	11.1	5.5	0.0	0.0	0.0	0.0
193.9	87.5°	166.2	22.2	16.6	11.1	11.1	5.5	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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