

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: P575380

Luminaire Tested: **EPH-VN-08-740-U-SL2-HSS**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P575380  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 10/19/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-VN-08-740-U-SL2-HSS  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL2 distribution lens and House Side Shield  
Light Source: (128) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

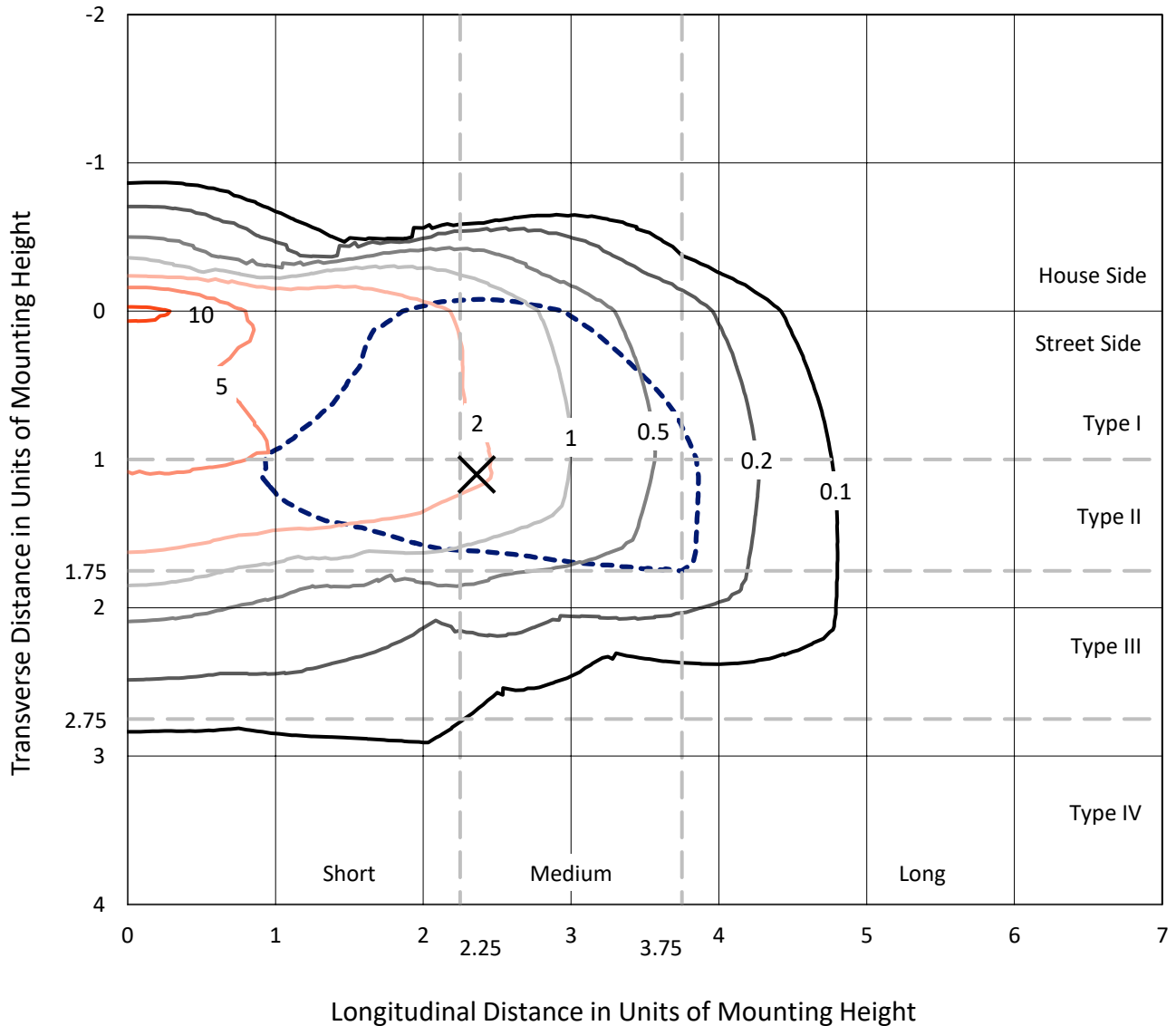
Lumens per Lamp: N/A  
Luminaire Lumens: 39647.7 lumens  
Efficiency: N/A  
Efficacy: 81.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G5

Input Watts (W): 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

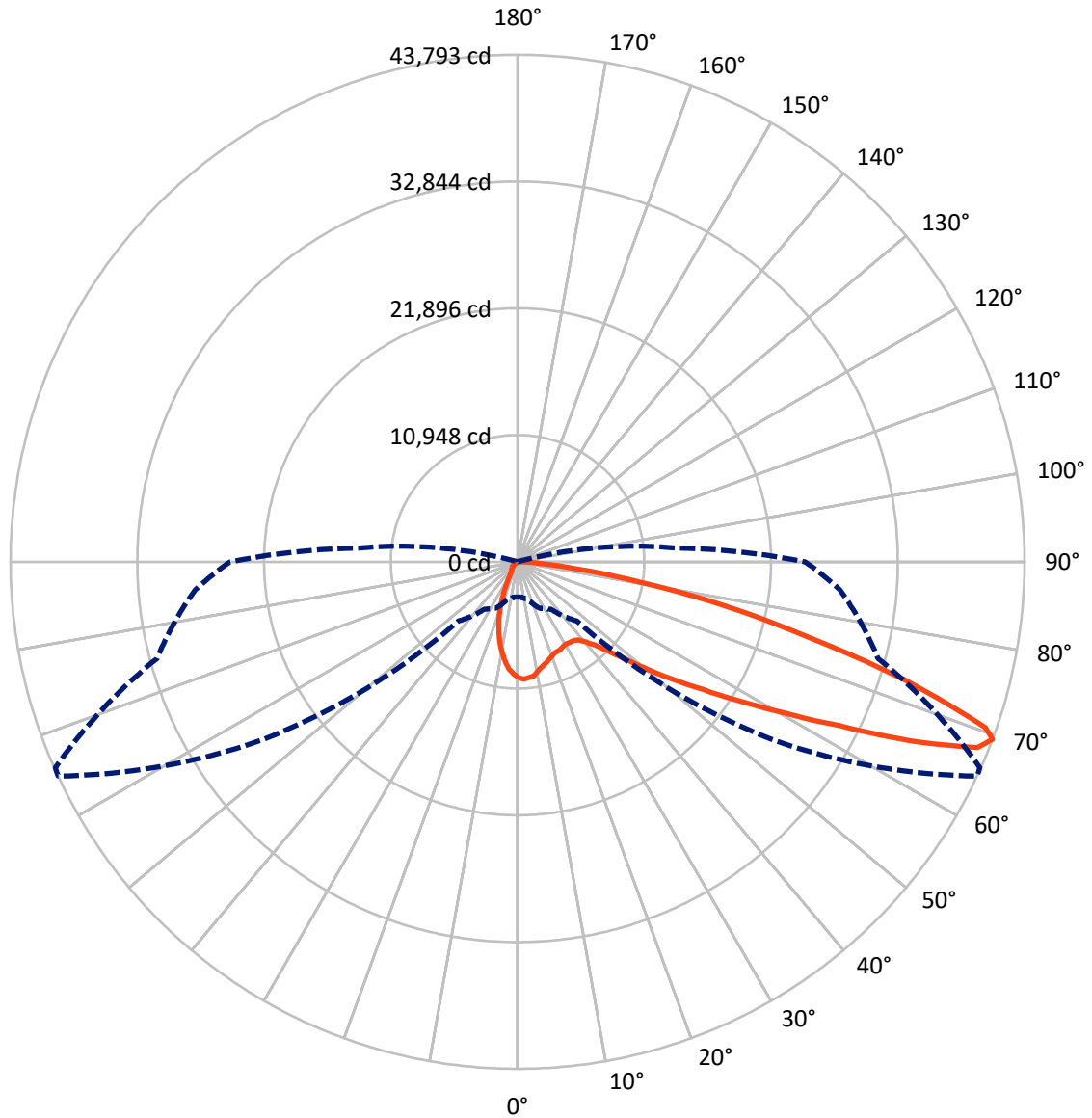
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.1 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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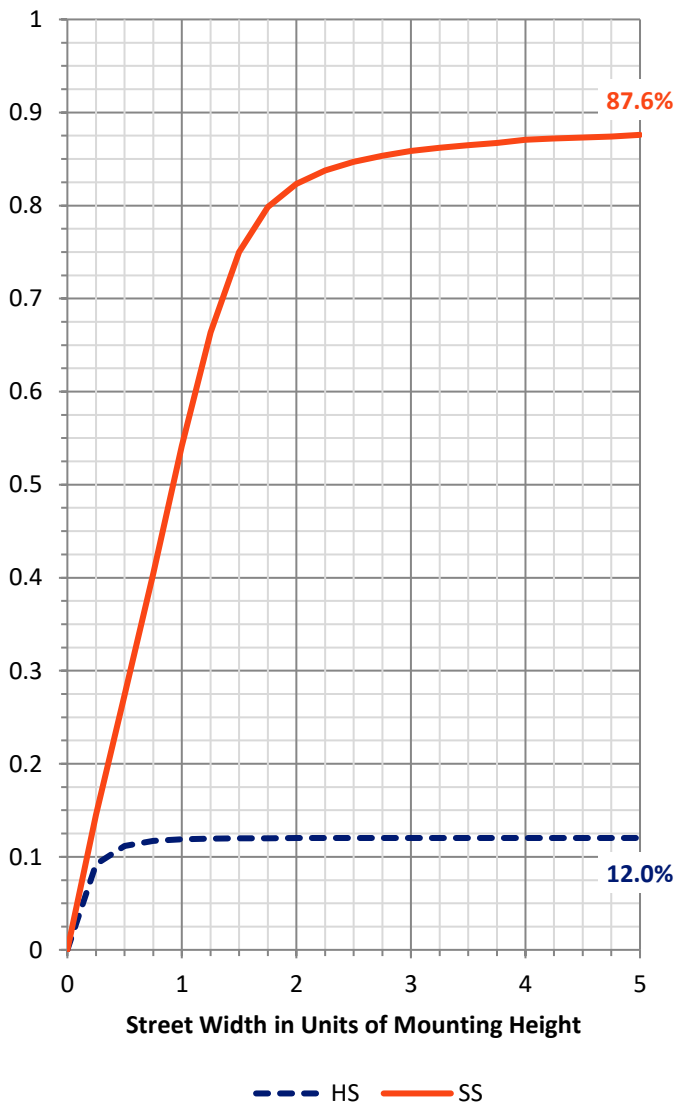
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4809.5	0.0	4809.5
	% Fixture	12.1	0.0	12.1
<b>Street Side</b>	Lumens	34838.2	0.0	34838.2
	% Fixture	87.9	0.0	87.9
<b>Total</b>	Lumens	39647.7	0.0	39647.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	818.0	2.1
10°-20°	1789.8	4.5
20°-30°	2491.8	6.3
30°-40°	3531.1	8.9
40°-50°	5564.9	14.0
50°-60°	9029.9	22.8
60°-70°	10084.6	25.4
70°-80°	5678.8	14.3
80°-90°	658.9	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°	39647.7	100.0
0°-180°	39647.7	100.0

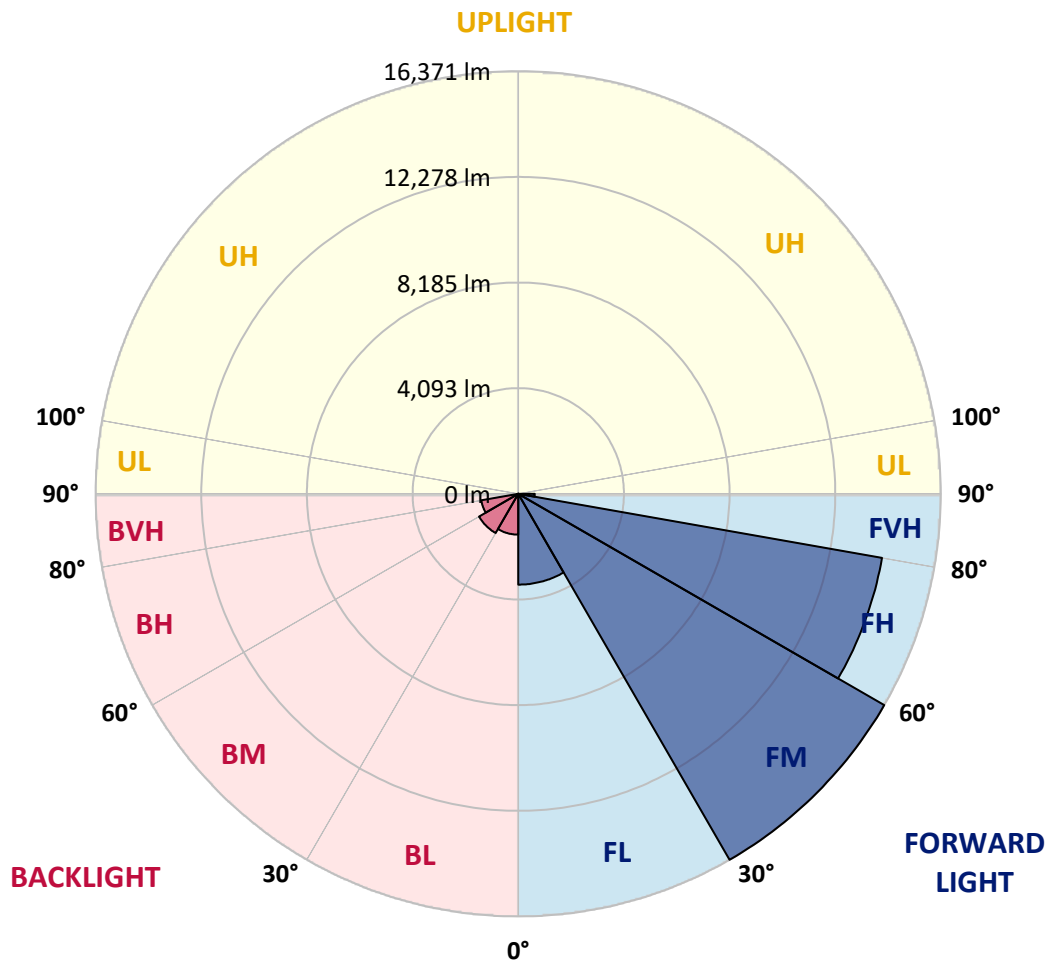


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3518.3	8.9			
FM (30°-60°)	16370.9	41.3			
FH (60°-80°)	14308.2	36.1			G5
FVH (80°-90°)	640.8	1.6			G4/750
BL (0°-30°)	1581.2	4.0	B3/2500		
BM (30°-60°)	1755.0	4.4	B2/2500		
BH (60°-80°)	1455.1	3.7	B3/2500		G3/2500
BVH (80°-90°)	18.2	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°	9996.1	9996.1	9996.1	9996.1	9996.1	9996.1	9996.1	9996.1	9996.1	9996.1
2.5°	9627.1	9701.9	9723.3	9798.2	9835.7	9996.1	10087.0	10140.5	10113.8	10172.6
5°	8942.5	8899.7	9012.0	9092.2	9263.4	9541.5	9825.0	10044.2	10145.9	10242.1
7.5°	8209.8	8188.4	8300.7	8482.5	8637.6	8974.6	9429.2	9969.4	9948.0	10183.3
10°	7707.0	7728.4	7765.8	7947.7	8177.7	8520.0	9086.9	9589.6	9701.9	10199.3
12.5°	7247.0	7284.5	7354.0	7541.2	7808.6	8161.6	8712.5	9300.8	9472.0	10108.4
15°	7097.3	7011.7	7150.8	7289.8	7567.9	7883.5	8348.8	9081.5	9156.4	10001.5
17.5°	6974.3	6920.8	6985.0	7097.3	7391.4	7648.2	8086.7	8846.2	8985.3	9958.7
20°	7011.7	6963.6	6990.3	7075.9	7209.6	7450.3	7856.8	8621.6	8771.3	9760.8
22.5°	7118.7	7156.1	7108.0	7129.4	7172.2	7295.2	7733.7	8461.1	8589.5	9723.3
25°	7600.0	7535.9	7471.7	7444.9	7193.6	7247.0	7696.3	8450.4	8541.3	9589.6
27.5°	8102.8	8049.3	8022.6	7867.5	7525.2	7364.7	7701.7	8300.7	8423.7	9536.1
30°	8712.5	8782.0	8675.1	8487.9	8011.9	7616.1	7760.5	8225.8	8396.9	9332.9
32.5°	9354.3	9391.7	9445.2	9306.2	8691.1	7995.8	7937.0	8295.3	8306.0	9332.9
35°	10081.7	10028.2	10167.3	10178.0	9637.8	8669.7	8273.9	8343.5	8455.8	9290.1
37.5°	10707.4	10798.4	10958.8	11215.5	10659.3	9621.7	8798.1	8568.1	8616.2	9488.0
40°	11392.0	11483.0	11846.6	12103.4	11787.8	10691.4	9595.0	9092.2	9129.7	9782.2
42.5°	12146.2	12322.6	12755.9	13205.1	13119.6	12049.9	10621.9	9862.4	9846.4	10514.9
45°	13167.7	13403.0	13873.7	14392.5	14467.3	13606.3	11991.0	11012.3	11065.8	11472.3
47.5°	14590.4	14579.7	15039.6	15617.2	16050.5	15221.5	13627.7	12558.0	12552.6	12985.8
50°	15964.9	15970.2	16093.3	16761.8	17885.0	17462.4	15654.7	14611.8	14552.9	14766.9
52.5°	16601.3	16526.5	16435.5	17243.2	19296.9	20286.4	18221.9	16938.3	16890.2	16761.8
55°	15932.8	15959.5	15954.2	16793.9	20040.3	23265.4	21516.5	19500.2	19419.9	19018.8
57.5°	13788.1	13702.5	13889.7	15200.1	19190.0	25297.8	26228.4	22730.6	22522.0	21190.2
60°	10263.5	10290.3	10445.4	11991.0	17077.4	25725.7	30737.1	26522.6	25624.0	22719.9
62.5°	7166.8	7113.3	7172.2	8038.6	12210.3	24014.2	33785.7	31132.9	30266.4	24458.1
65°	5129.1	5059.6	5294.9	5824.4	7332.6	18361.0	34218.9	37272.8	36497.3	27233.9
67.5°	3690.4	3679.7	3952.4	4915.2	5209.3	10573.7	31009.9	42835.1	42364.5	30528.5
69°	3053.9	3059.3	3321.3	4401.7	4974.0	7220.3	26683.0	43792.5	43706.9	32229.3
70°	2663.5	2684.9	2989.7	4096.9	4877.7	5936.7	23003.3	42851.2	42765.6	32560.9
72.5°	1642.0	1658.0	2059.1	3283.9	4637.0	4845.6	13756.0	35058.6	35352.7	31042.0
75°	786.2	791.6	1080.4	2374.7	4471.2	4594.3	7370.1	25870.1	26490.5	25062.5
77.5°	417.2	417.2	518.8	1262.2	3620.8	4321.5	4375.0	18248.6	18762.1	15847.2
80°	208.6	213.9	315.6	657.8	2246.3	4235.9	3417.6	10883.9	11162.1	6466.2
82.5°	80.2	85.6	149.8	395.8	1165.9	3578.1	3000.4	5353.7	5284.2	1513.6
85°	10.7	10.7	53.5	235.3	497.4	1577.8	2476.3	2235.6	2160.7	331.6
87.5°	0.0	0.0	10.7	69.5	149.8	460.0	957.4	615.1	684.6	90.9
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°
9996.1	0°	9996.1	9996.1	9996.1	9996.1	9996.1	9996.1	9996.1	9996.1	9996.1	9996.1
10178.0	2.5°	10151.2	10038.9	9867.7	9701.9	9525.5	9311.5	9076.2	8990.6	8840.9	8830.2
10226.1	5°	10140.5	9958.7	9659.2	9306.2	8803.4	8423.7	8011.9	7712.4	7482.4	7332.6
10252.8	7.5°	10194.0	9974.7	9455.9	8696.5	8049.3	7295.2	6658.7	6220.2	5819.0	5621.1
10338.4	10°	10108.4	9814.3	9054.8	7990.5	7038.5	5984.8	5054.2	4465.9	3866.9	3647.6
10386.5	12.5°	10156.6	9744.7	8621.6	7263.1	5952.7	4583.6	3471.1	2668.8	2107.3	1925.4
10466.8	15°	10188.6	9595.0	8204.4	6391.3	4749.4	3123.4	2011.0	1513.6	1337.1	1305.0
10456.1	17.5°	10065.6	9413.1	7616.1	5530.2	3519.2	1898.7	1337.1	1235.5	1203.4	1182.0
10440.0	20°	10060.3	9306.2	7108.0	4647.7	2347.9	1294.3	1155.2	1117.8	1069.7	1053.6
10530.9	22.5°	9969.4	9081.5	6498.3	3679.7	1497.5	1112.5	1037.6	978.8	925.3	903.9
10456.1	25°	9942.6	8819.5	5926.0	2765.1	1139.2	994.8	919.9	834.3	770.2	738.1
10365.1	27.5°	9867.7	8594.8	5348.4	1946.8	994.8	887.8	791.6	700.6	625.8	577.6
10306.3	30°	9600.3	8359.5	4706.6	1347.8	903.9	786.2	679.2	572.3	497.4	465.3
10172.6	32.5°	9488.0	8140.2	4005.9	1037.6	823.6	695.3	572.3	476.0	417.2	385.1
10124.5	35°	9354.3	7819.3	3326.7	903.9	748.8	604.4	481.4	401.1	353.0	326.3
10161.9	37.5°	9370.3	7562.6	2690.2	818.3	668.5	518.8	411.8	342.3	299.5	272.8
10354.4	40°	9322.2	7359.4	2091.2	743.4	593.7	443.9	347.6	288.8	251.4	224.6
10750.2	42.5°	9541.5	7305.9	1577.8	679.2	518.8	379.7	299.5	246.0	208.6	176.5
11568.5	45°	9910.5	7391.4	1230.1	620.4	443.9	326.3	256.7	203.2	165.8	144.4
12782.6	47.5°	10894.6	7728.4	962.7	572.3	379.7	283.5	213.9	165.8	133.7	112.3
14440.6	50°	12322.6	8482.5	818.3	502.7	320.9	240.7	176.5	128.4	107.0	85.6
16676.2	52.5°	14355.0	9750.1	743.4	443.9	267.4	197.9	139.1	101.6	80.2	64.2
19136.5	55°	16569.3	11333.2	673.9	374.4	224.6	160.5	112.3	80.2	58.8	42.8
20922.8	57.5°	18296.8	12702.4	615.1	310.2	181.8	128.4	85.6	58.8	42.8	26.7
22350.8	60°	20184.8	13665.1	540.2	246.0	149.8	96.3	64.2	42.8	32.1	16.0
24244.2	62.5°	22131.6	14793.6	443.9	192.5	117.7	74.9	48.1	32.1	21.4	5.3
26720.5	65°	24837.8	15676.1	342.3	149.8	90.9	53.5	37.4	26.7	10.7	0.0
28228.7	67.5°	25602.7	15242.9	251.4	117.7	64.2	37.4	26.7	16.0	5.3	0.0
27945.2	69°	24837.8	13729.3	219.3	101.6	53.5	32.1	21.4	10.7	5.3	0.0
27009.3	70°	23441.9	12552.6	192.5	85.6	48.1	32.1	16.0	10.7	5.3	0.0
23270.8	72.5°	19607.1	9627.1	149.8	64.2	37.4	26.7	16.0	10.7	0.0	0.0
18184.5	75°	14381.8	5947.4	112.3	48.1	32.1	21.4	16.0	10.7	0.0	0.0
10338.4	77.5°	7707.0	2171.4	80.2	32.1	21.4	16.0	16.0	10.7	0.0	0.0
3219.7	80°	2112.6	641.8	58.8	21.4	16.0	10.7	10.7	5.3	0.0	0.0
786.2	82.5°	577.6	165.8	37.4	21.4	16.0	10.7	5.3	0.0	0.0	0.0
379.7	85°	310.2	64.2	21.4	16.0	10.7	5.3	0.0	0.0	0.0	0.0
187.2	87.5°	160.5	21.4	16.0	10.7	10.7	5.3	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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