

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: P575379

Luminaire Tested: **EPH-VN-07-740-U-SL2-HSS**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P575379  
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-SL2-HSS  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL2 distribution lens and House Side Shield  
Light Source: (112) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

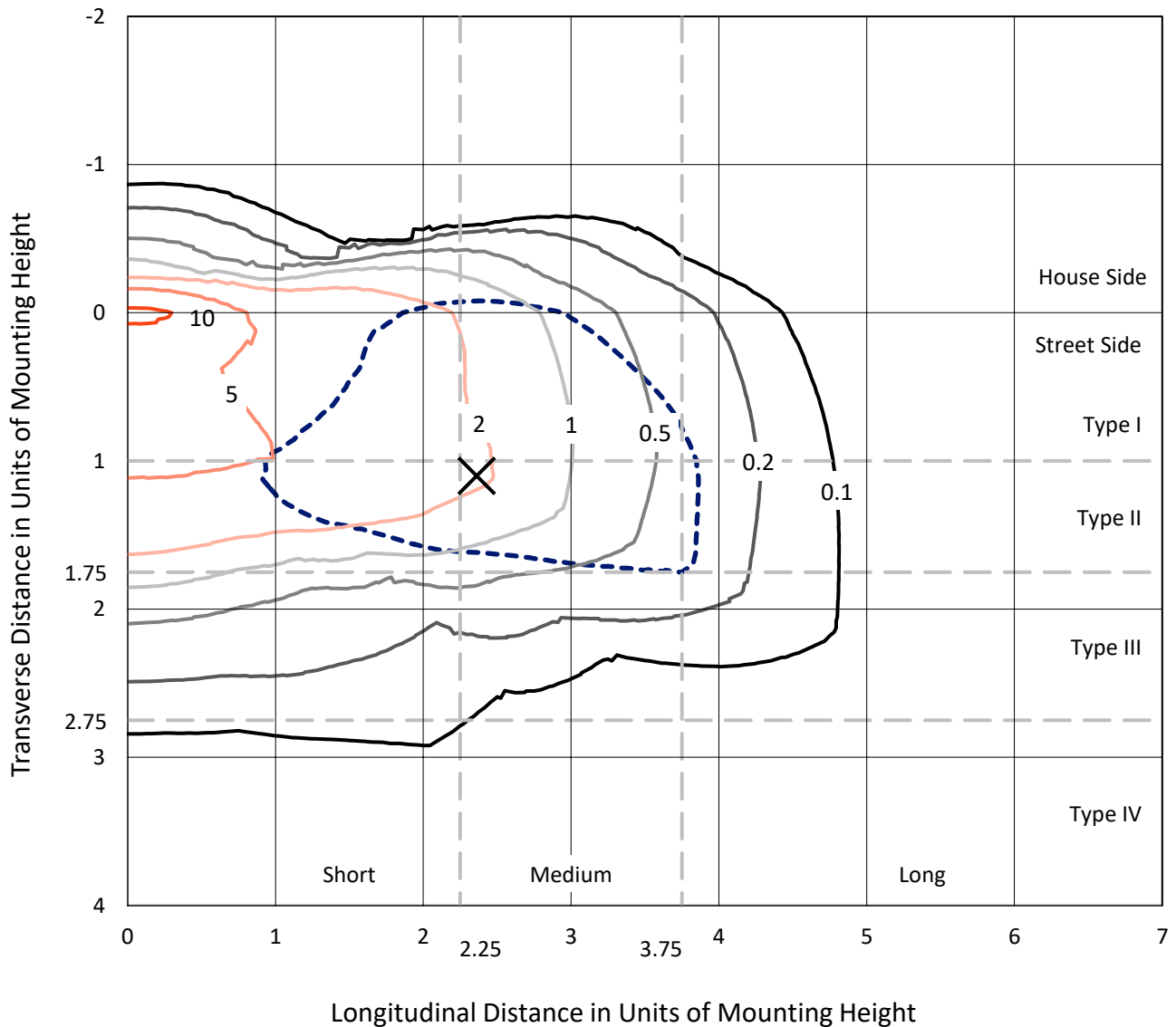
Lumens per Lamp: N/A  
Luminaire Lumens: 40148.2 lumens  
Efficiency: N/A  
Efficacy: 95.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G5

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

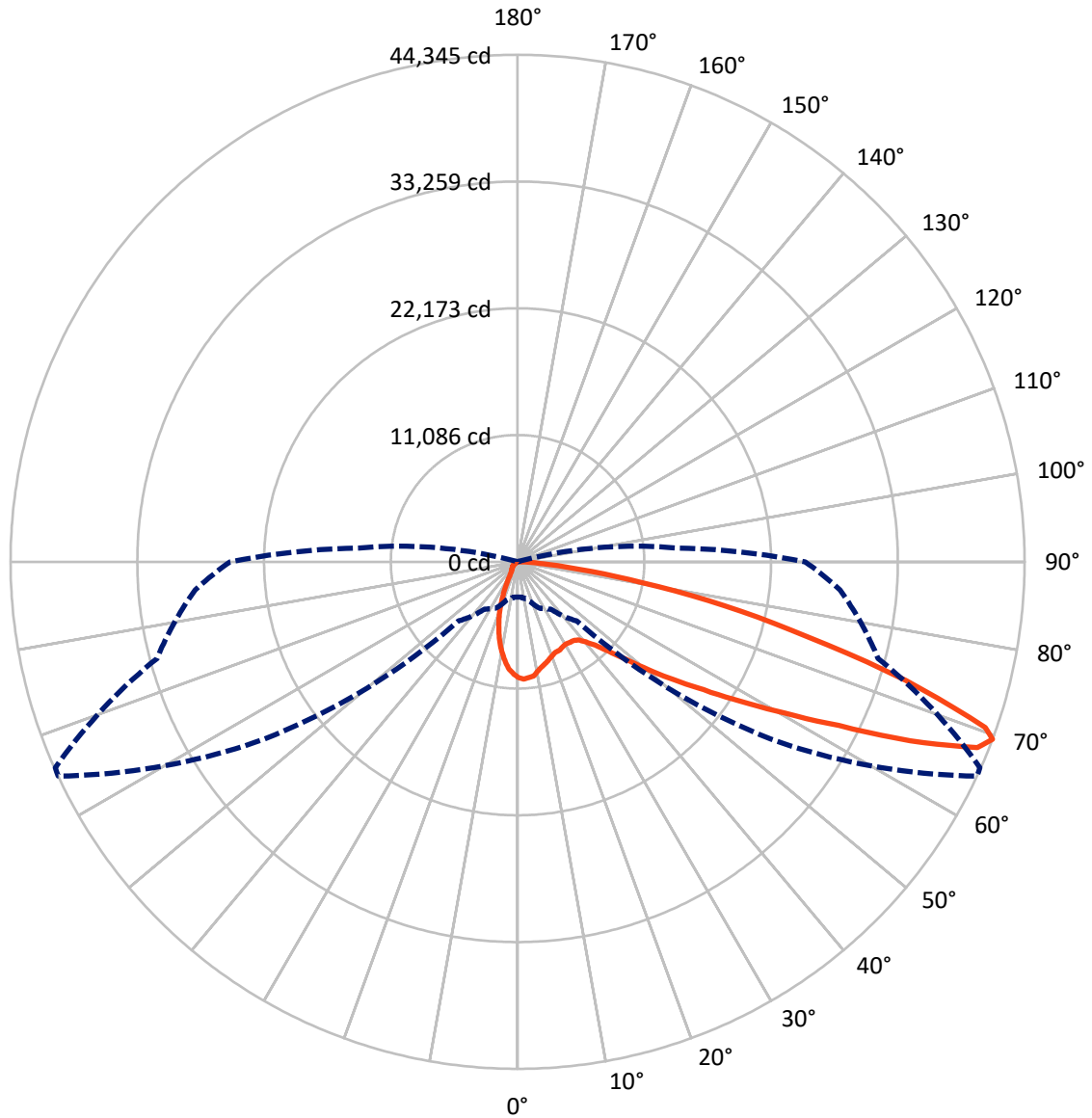
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.2 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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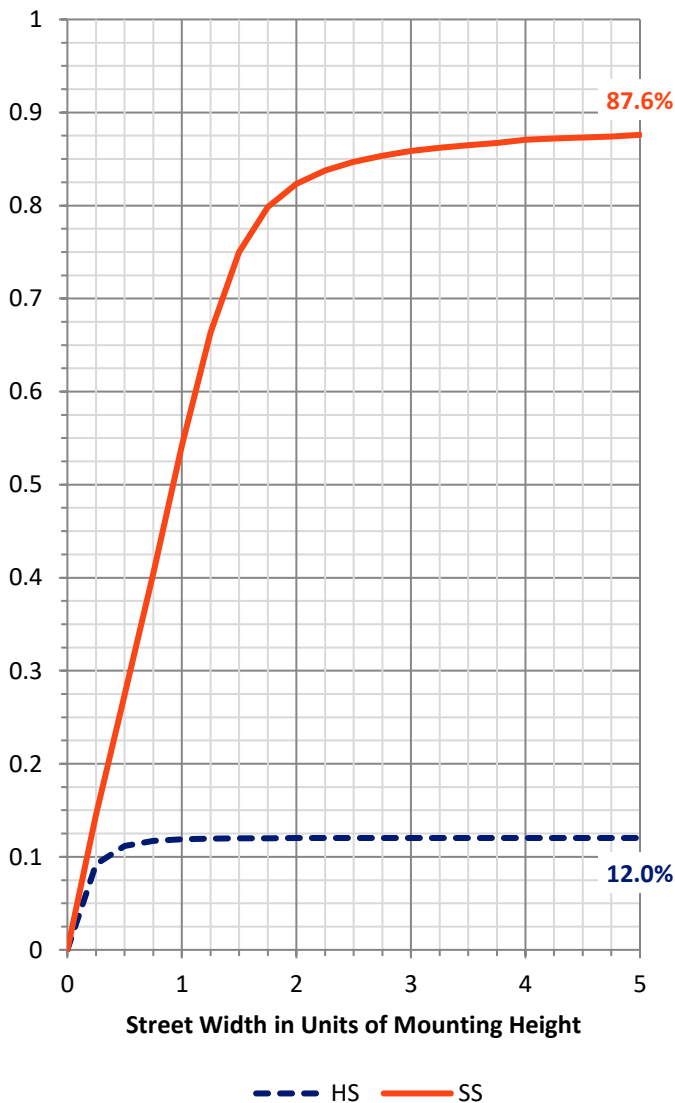
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4870.2	0.0	4870.2
	% Fixture	12.1	0.0	12.1
<b>Street Side</b>	Lumens	35278.0	0.0	35278.0
	% Fixture	87.9	0.0	87.9
<b>Total</b>	Lumens	40148.2	0.0	40148.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	828.3	2.1
10°-20°	1812.4	4.5
20°-30°	2523.2	6.3
30°-40°	3575.7	8.9
40°-50°	5635.1	14.0
50°-60°	9143.9	22.8
60°-70°	10211.9	25.4
70°-80°	5750.4	14.3
80°-90°	667.3	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°	40148.2	100.0
0°-180°	40148.2	100.0

**Coefficient of Utilization**

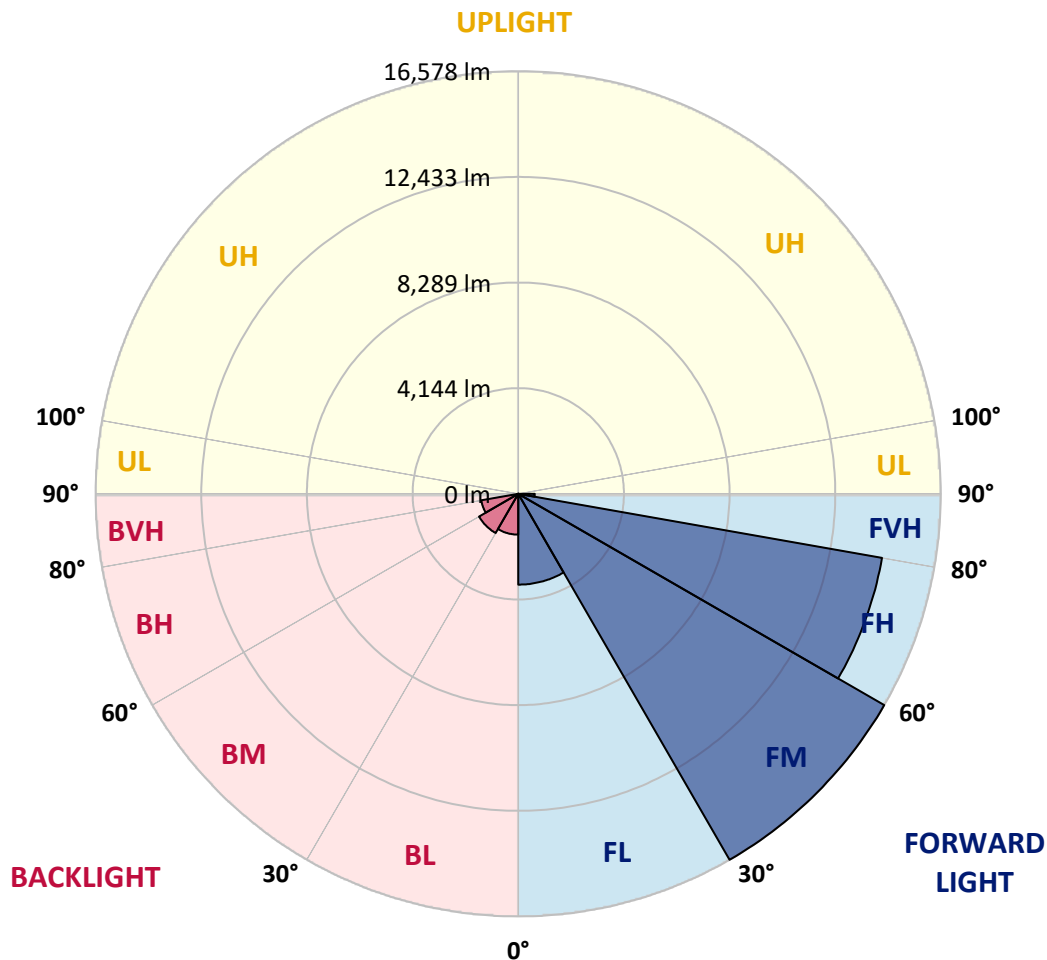


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3562.8	8.9			
FM (30°-60°)	16577.6	41.3			
FH (60°-80°)	14488.8	36.1			G5
FVH (80°-90°)	648.9	1.6			G4/750
BL (0°-30°)	1601.2	4.0	B3/2500		
BM (30°-60°)	1777.1	4.4	B2/2500		
BH (60°-80°)	1473.5	3.7	B3/2500		G3/2500
BVH (80°-90°)	18.4	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°	10122.3	10122.3	10122.3	10122.3	10122.3	10122.3	10122.3	10122.3	10122.3	10122.3
2.5°	9748.6	9824.4	9846.1	9921.9	9959.8	10122.3	10214.4	10268.5	10241.5	10301.0
5°	9055.4	9012.0	9125.8	9207.0	9380.3	9662.0	9949.0	10171.0	10273.9	10371.4
7.5°	8313.4	8291.7	8405.5	8589.6	8746.7	9087.9	9548.2	10095.2	10073.6	10311.9
10°	7804.3	7826.0	7863.9	8048.0	8280.9	8627.5	9201.6	9710.7	9824.4	10328.1
12.5°	7338.5	7376.4	7446.9	7636.4	7907.2	8264.7	8822.5	9418.2	9591.5	10236.0
15°	7186.9	7100.2	7241.0	7381.9	7663.5	7983.0	8454.2	9196.2	9272.0	10127.7
17.5°	7062.3	7008.2	7073.2	7186.9	7484.8	7744.7	8188.8	8957.9	9098.7	10084.4
20°	7100.2	7051.5	7078.6	7165.2	7300.6	7544.3	7955.9	8730.4	8882.1	9884.0
22.5°	7208.6	7246.5	7197.7	7219.4	7262.7	7387.3	7831.4	8567.9	8697.9	9846.1
25°	7696.0	7631.0	7566.0	7538.9	7284.4	7338.5	7793.5	8557.1	8649.2	9710.7
27.5°	8205.1	8150.9	8123.8	7966.8	7620.2	7457.7	7798.9	8405.5	8530.0	9656.5
30°	8822.5	8892.9	8784.6	8595.0	8113.0	7712.2	7858.5	8329.6	8503.0	9450.7
32.5°	9472.4	9510.3	9564.5	9423.7	8800.8	8096.8	8037.2	8400.0	8410.9	9450.7
35°	10209.0	10154.8	10295.6	10306.4	9759.4	8779.2	8378.4	8448.8	8562.5	9407.4
37.5°	10842.6	10934.7	11097.2	11357.1	10793.9	9743.2	8909.1	8676.3	8725.0	9607.8
40°	11535.9	11627.9	11996.2	12256.2	11936.6	10826.4	9716.1	9207.0	9244.9	9905.7
42.5°	12299.5	12478.2	12916.9	13371.8	13285.2	12202.0	10756.0	9986.9	9970.7	10647.6
45°	13333.9	13572.2	14048.8	14574.2	14650.0	13778.0	12142.4	11151.3	11205.5	11617.1
47.5°	14774.6	14763.7	15229.5	15814.4	16253.1	15413.6	13799.7	12716.5	12711.1	13149.8
50°	16166.4	16171.9	16296.4	16973.4	18110.7	17682.9	15852.3	14796.2	14736.6	14953.3
52.5°	16810.9	16735.1	16643.0	17460.8	19540.5	20542.5	18451.9	17152.1	17103.4	16973.4
55°	16133.9	16161.0	16155.6	17005.9	20293.3	23559.1	21788.1	19746.3	19665.1	19258.9
57.5°	13962.2	13875.5	14065.1	15392.0	19432.2	25617.2	26559.5	23017.5	22806.3	21457.8
60°	10393.1	10420.2	10577.2	12142.4	17292.9	26050.4	31125.1	26857.4	25947.5	23006.7
62.5°	7257.3	7203.1	7262.7	8140.1	12364.5	24317.4	34212.2	31525.9	30648.5	24766.9
65°	5193.8	5123.4	5361.7	5897.9	7425.2	18592.8	34650.9	37743.4	36958.1	27577.7
67.5°	3737.0	3726.1	4002.3	4977.2	5275.1	10707.2	31401.3	43375.9	42899.3	30913.9
69°	3092.5	3097.9	3363.3	4457.3	5036.8	7311.5	27019.9	44345.3	44258.7	32636.2
70°	2697.1	2718.8	3027.5	4148.6	4939.3	6011.6	23293.8	43392.1	43305.5	32972.0
72.5°	1662.7	1678.9	2085.1	3325.4	4695.6	4906.8	13929.7	35501.2	35799.1	31433.8
75°	796.1	801.6	1094.0	2404.7	4527.7	4652.3	7463.1	26196.7	26824.9	25378.9
77.5°	422.4	422.4	525.3	1278.2	3666.6	4376.0	4430.2	18479.0	18999.0	16047.3
80°	211.2	216.6	319.5	666.2	2274.7	4289.4	3460.8	11021.3	11303.0	6547.8
82.5°	81.2	86.7	151.6	400.8	1180.7	3623.2	3038.3	5421.3	5350.9	1532.7
85°	10.8	10.8	54.2	238.3	503.7	1597.7	2507.6	2263.8	2188.0	335.8
87.5°	0.0	0.0	10.8	70.4	151.6	465.8	969.4	622.8	693.2	92.1
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°
10122.3	0°	10122.3	10122.3	10122.3	10122.3	10122.3	10122.3	10122.3	10122.3	10122.3	10122.3
10306.4	2.5°	10279.4	10165.6	9992.3	9824.4	9645.7	9429.1	9190.8	9104.1	8952.5	8941.6
10355.2	5°	10268.5	10084.4	9781.1	9423.7	8914.6	8530.0	8113.0	7809.7	7576.8	7425.2
10382.3	7.5°	10322.7	10100.6	9575.3	8806.2	8150.9	7387.3	6742.8	6298.7	5892.5	5692.1
10468.9	10°	10236.0	9938.2	9169.1	8091.3	7127.3	6060.4	5118.0	4522.3	3915.7	3693.6
10517.7	12.5°	10284.8	9867.8	8730.4	7354.8	6027.9	4641.4	3514.9	2702.5	2133.9	1949.7
10598.9	15°	10317.3	9716.1	8308.0	6472.0	4809.3	3162.9	2036.4	1532.7	1354.0	1321.5
10588.1	17.5°	10192.7	9532.0	7712.2	5600.0	3563.7	1922.6	1354.0	1251.1	1218.6	1196.9
10571.8	20°	10187.3	9423.7	7197.7	4706.4	2377.6	1310.6	1169.8	1131.9	1083.2	1066.9
10663.9	22.5°	10095.2	9196.2	6580.3	3726.1	1516.4	1126.5	1050.7	991.1	936.9	915.3
10588.1	25°	10068.1	8930.8	6000.8	2800.0	1153.6	1007.4	931.5	844.9	779.9	747.4
10496.0	27.5°	9992.3	8703.3	5415.9	1971.4	1007.4	899.0	801.6	709.5	633.7	584.9
10436.4	30°	9721.5	8465.0	4766.0	1364.8	915.3	796.1	687.8	579.5	503.7	471.2
10301.0	32.5°	9607.8	8243.0	4056.5	1050.7	834.0	704.1	579.5	482.0	422.4	389.9
10252.3	35°	9472.4	7918.0	3368.7	915.3	758.2	612.0	487.4	406.2	357.4	330.4
10290.2	37.5°	9488.6	7658.1	2724.2	828.6	677.0	525.3	417.0	346.6	303.3	276.2
10485.2	40°	9439.9	7452.3	2117.6	752.8	601.2	449.5	352.0	292.5	254.5	227.5
10885.9	42.5°	9662.0	7398.1	1597.7	687.8	525.3	384.5	303.3	249.1	211.2	178.7
11714.6	45°	10035.6	7484.8	1245.7	628.2	449.5	330.4	260.0	205.8	167.9	146.2
12944.0	47.5°	11032.2	7826.0	974.9	579.5	384.5	287.0	216.6	167.9	135.4	113.7
14622.9	50°	12478.2	8589.6	828.6	509.1	325.0	243.7	178.7	130.0	108.3	86.7
16886.8	52.5°	14536.3	9873.2	752.8	449.5	270.8	200.4	140.8	102.9	81.2	65.0
19378.1	55°	16778.4	11476.3	682.4	379.1	227.5	162.5	113.7	81.2	59.6	43.3
21187.0	57.5°	18527.8	12862.7	622.8	314.1	184.1	130.0	86.7	59.6	43.3	27.1
22633.0	60°	20439.6	13837.6	547.0	249.1	151.6	97.5	65.0	43.3	32.5	16.2
24550.2	62.5°	22411.0	14980.4	449.5	195.0	119.1	75.8	48.7	32.5	21.7	5.4
27057.8	65°	25151.4	15874.0	346.6	151.6	92.1	54.2	37.9	27.1	10.8	0.0
28585.1	67.5°	25925.9	15435.3	254.5	119.1	65.0	37.9	27.1	16.2	5.4	0.0
28298.0	69°	25151.4	13902.6	222.1	102.9	54.2	32.5	21.7	10.8	5.4	0.0
27350.3	70°	23737.9	12711.1	195.0	86.7	48.7	32.5	16.2	10.8	5.4	0.0
23564.5	72.5°	19854.7	9748.6	151.6	65.0	37.9	27.1	16.2	10.8	0.0	0.0
18414.0	75°	14563.3	6022.5	113.7	48.7	32.5	21.7	16.2	10.8	0.0	0.0
10468.9	77.5°	7804.3	2198.9	81.2	32.5	21.7	16.2	16.2	10.8	0.0	0.0
3260.4	80°	2139.3	649.9	59.6	21.7	16.2	10.8	10.8	5.4	0.0	0.0
796.1	82.5°	584.9	167.9	37.9	21.7	16.2	10.8	5.4	0.0	0.0	0.0
384.5	85°	314.1	65.0	21.7	16.2	10.8	5.4	0.0	0.0	0.0	0.0
189.6	87.5°	162.5	21.7	16.2	10.8	10.8	5.4	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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