

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: P575472

Luminaire Tested: **EPH-VN-08-760-U-SL4-HSS**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P575472  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 10/19/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-VN-08-760-U-SL4-HSS  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL4 distribution lens and House Side Shield  
Light Source: (128) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

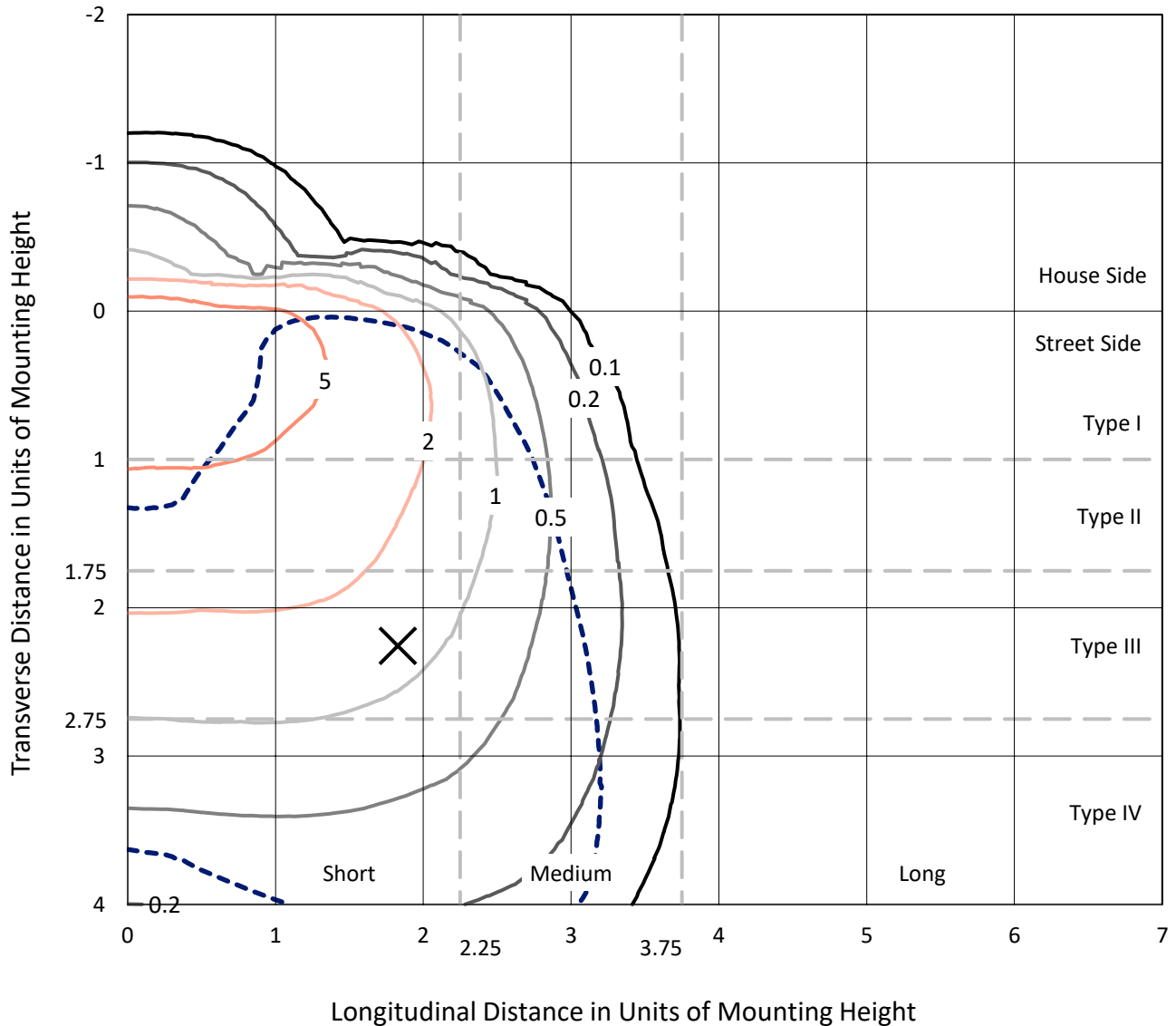
Lumens per Lamp: N/A  
Luminaire Lumens: 47108.7 lumens  
Efficiency: N/A  
Efficacy: 96.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

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

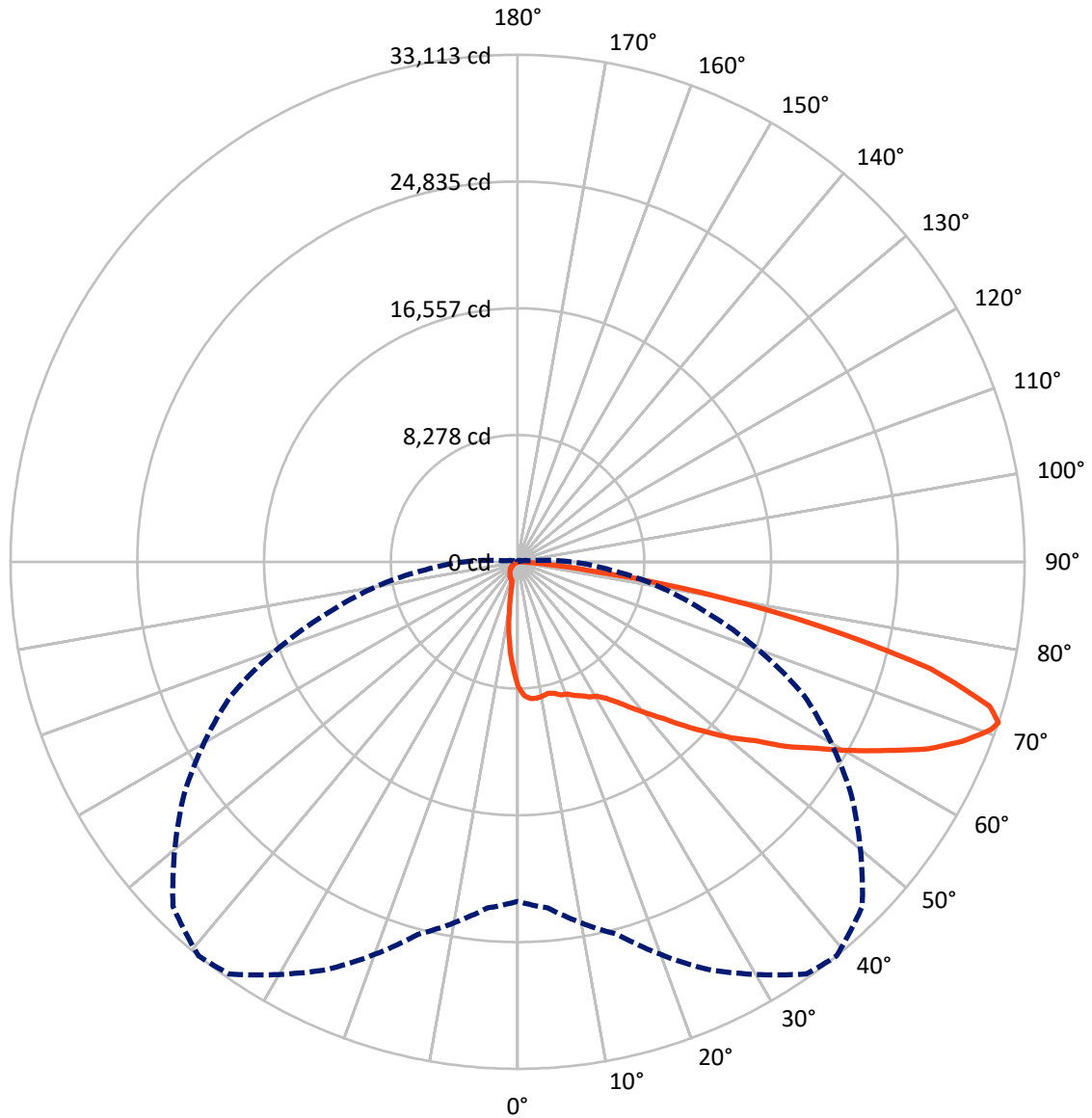
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.9 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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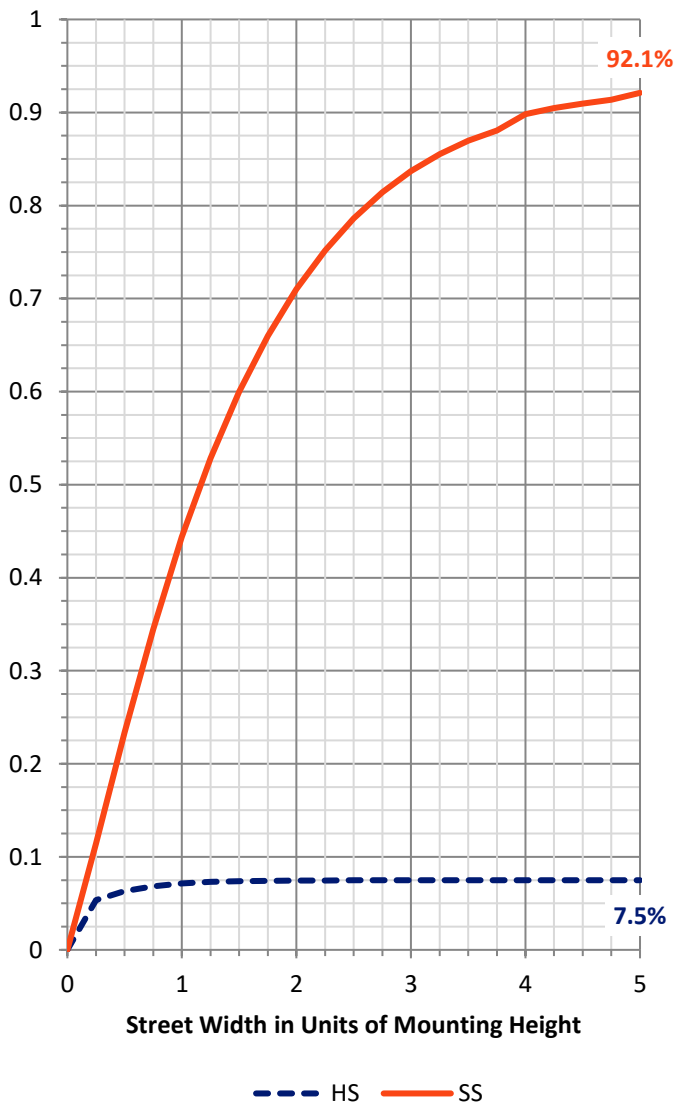
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3546.6	0.0	3546.6
	% Fixture	7.5	0.0	7.5
<b>Street Side</b>	Lumens	43562.2	0.0	43562.2
	% Fixture	92.5	0.0	92.5
<b>Total</b>	Lumens	47108.7	0.0	47108.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	685.6	1.5
10°-20°	1687.4	3.6
20°-30°	2708.8	5.8
30°-40°	4146.5	8.8
40°-50°	6655.8	14.1
50°-60°	9776.3	20.8
60°-70°	12312.9	26.1
70°-80°	8217.3	17.4
80°-90°	918.3	1.9
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°	47108.7	100.0
0°-180°	47108.7	100.0

**Coefficient of Utilization**



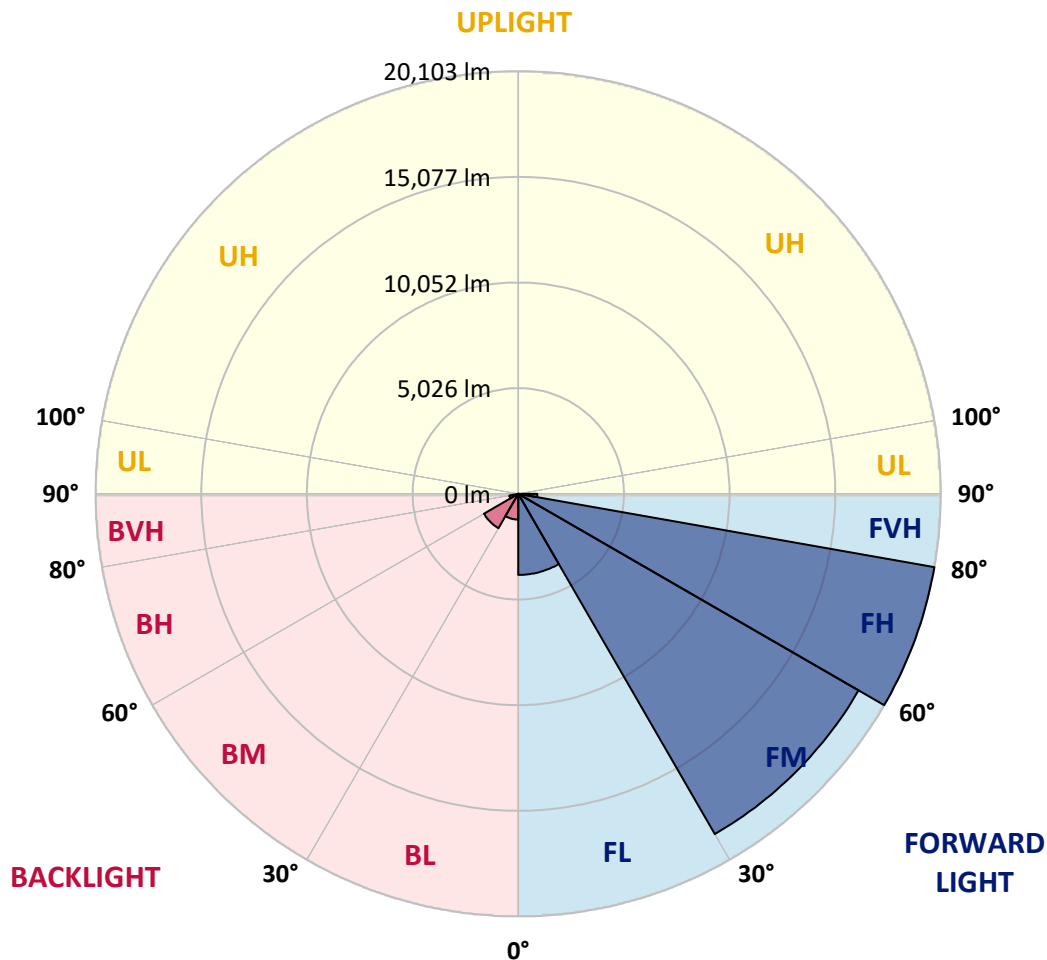
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3857.2	8.2			
FM (30°-60°)	18693.4	39.7			
FH (60°-80°)	20103.3	42.7			G5
FVH (80°-90°)	908.2	1.9			G5
BL (0°-30°)	1224.4	2.6	B3/2500		
BM (30°-60°)	1885.1	4.0	B2/2500		
BH (60°-80°)	426.9	0.9	B1/500		G1/500
BVH (80°-90°)	10.1	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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°
0°	8199.6	8199.6	8199.6	8199.6	8199.6	8199.6	8199.6	8199.6	8199.6	8199.6
2.5°	8836.0	8922.5	8836.0	8798.9	8761.9	8768.0	8669.2	8687.7	8570.3	8415.8
5°	9114.1	9231.5	9138.8	9095.5	9089.4	8972.0	8922.5	8805.1	8663.0	8422.0
7.5°	9089.4	9064.6	9107.9	9070.8	8990.5	8990.5	8934.9	8768.0	8625.9	8354.1
10°	8904.0	8978.1	8941.1	8897.8	8916.3	8922.5	8817.5	8700.1	8656.8	8384.9
12.5°	8885.5	8761.9	8897.8	8904.0	8823.7	8817.5	8805.1	8774.2	8638.3	8391.1
15°	8823.7	8774.2	8910.2	8916.3	8934.9	8916.3	8934.9	8910.2	8774.2	8632.1
17.5°	8873.1	8817.5	9009.0	9101.7	9058.5	9145.0	9114.1	9002.9	8885.5	8718.6
20°	8885.5	8965.8	9175.9	9212.9	9348.9	9206.8	9200.6	9083.2	9009.0	8829.8
22.5°	9114.1	9151.1	9410.7	9491.0	9497.2	9478.6	9324.2	9188.2	9157.3	8934.9
25°	9460.1	9589.9	9707.3	9756.7	9775.2	9688.7	9528.1	9355.1	9280.9	9138.8
27.5°	10071.8	9991.5	10096.5	10170.7	9960.6	9991.5	9787.6	9639.3	9534.2	9410.7
30°	10615.6	10541.4	10547.6	10535.3	10356.1	10189.2	10133.6	9874.1	9744.3	9793.8
32.5°	11103.7	10943.1	11079.0	11017.2	10683.5	10634.1	10590.9	10263.4	10288.1	10516.7
35°	11554.8	11499.2	11610.4	11499.2	11276.7	11264.4	11221.1	10936.9	11072.8	11400.3
37.5°	11968.8	11987.3	12123.3	12067.7	12086.2	12098.5	12073.8	11771.1	12160.3	12895.6
40°	12351.9	12327.2	12660.8	12833.9	12870.9	13006.9	13006.9	12932.7	13532.1	14360.1
42.5°	12759.7	12821.5	13254.0	13544.4	13896.6	14014.0	14174.7	14211.8	15138.6	16084.0
45°	13427.0	13322.0	13871.9	14557.8	14866.8	15280.8	15527.9	15738.0	16856.4	18154.0
47.5°	14273.6	14063.5	14545.4	15540.3	16257.0	16596.9	17041.8	17319.8	18413.5	19754.4
50°	15212.8	14996.5	15231.3	16603.1	17437.2	18055.1	18623.6	18975.8	20298.1	21546.3
52.5°	16275.6	16077.8	16114.9	17709.1	18938.7	19389.8	20137.5	20662.7	21978.8	22627.6
55°	17406.3	17356.9	17239.5	18790.4	20254.9	21268.2	21719.3	22349.6	23702.8	23214.6
57.5°	18543.3	18388.8	18555.6	20224.0	22368.1	22973.6	23597.7	23974.7	24660.5	23727.5
60°	19612.3	19624.6	19859.4	21781.1	24166.2	25025.1	25587.4	25358.8	25643.0	23949.9
62.5°	20514.4	20489.7	21082.9	23529.8	26545.1	27126.0	27546.1	26526.6	26100.2	24166.2
65°	21323.8	21601.9	22534.9	25612.1	28781.9	29449.3	29195.9	27632.6	26545.1	23529.8
67.5°	21935.6	22349.6	23968.5	27570.8	30833.4	31303.0	30950.8	28473.0	26019.9	21033.4
70°	22294.0	22714.1	24994.2	29202.1	32470.8	32810.7	31982.7	27824.2	22955.1	15231.3
71°	22182.7	22695.6	25191.9	29375.1	32860.1	33113.4	31828.2	26625.5	20644.2	12753.5
72.5°	21175.5	21657.5	24370.1	29251.5	32390.5	32236.0	30623.3	23746.0	16250.9	8131.6
75°	15558.8	16077.8	20916.0	25303.1	28911.7	27848.9	24784.1	16664.9	8477.6	2490.2
77.5°	7748.5	7835.0	12982.2	18370.3	21206.4	20149.8	16609.2	9293.3	3169.8	735.3
80°	3571.5	3596.2	4869.1	9515.7	12821.5	12067.7	9305.6	4584.8	1433.5	389.3
82.5°	2434.5	2471.6	2935.0	3942.2	5567.3	4696.1	3769.2	2935.0	821.8	234.8
85°	444.9	407.8	1643.6	2088.5	2150.3	1458.3	1303.8	2539.6	309.0	135.9
87.5°	0.0	6.2	228.6	852.7	766.2	339.8	444.9	617.9	30.9	43.3
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°
8199.6	0°	8199.6	8199.6	8199.6	8199.6	8199.6	8199.6	8199.6	8199.6	8199.6	8199.6
8292.3	2.5°	8187.2	8119.3	7890.6	7637.3	7408.7	7229.5	7000.8	6895.8	6729.0	6636.3
8273.7	5°	8069.8	7884.4	7489.0	7062.6	6586.9	6191.4	5752.7	5505.5	5221.3	5134.8
8100.7	7.5°	7872.1	7606.4	7025.6	6426.2	5697.1	4998.8	4461.3	3886.6	3534.4	3386.1
7971.0	10°	7748.5	7427.2	6636.3	5740.3	4720.8	3738.3	2984.5	2372.7	2051.4	1897.0
8001.8	12.5°	7748.5	7402.5	6321.2	5085.3	3732.1	2558.1	1847.5	1495.3	1390.3	1353.2
8137.8	15°	7730.0	7353.1	6018.4	4411.8	2762.0	1717.8	1377.9	1303.8	1291.4	1285.2
8267.5	17.5°	7822.7	7266.5	5709.4	3688.9	1952.6	1353.2	1266.7	1254.3	1242.0	1242.0
8347.9	20°	7890.6	7217.1	5338.7	2922.7	1458.3	1254.3	1217.3	1198.7	1192.6	1186.4
8366.4	22.5°	7835.0	7143.0	4881.4	2187.4	1272.9	1192.6	1167.8	1149.3	1136.9	1136.9
8558.0	25°	7940.1	7075.0	4424.2	1649.8	1192.6	1136.9	1112.2	1099.9	1093.7	1087.5
8780.4	27.5°	8082.2	7105.9	3880.4	1328.5	1124.6	1081.3	1056.6	1044.3	1038.1	1025.7
9126.4	30°	8255.2	7099.7	3281.1	1161.7	1062.8	1019.5	994.8	988.6	976.3	970.1
9645.5	32.5°	8551.8	7260.4	2663.2	1075.2	994.8	957.8	933.0	926.9	920.7	914.5
10535.3	35°	9188.2	7458.1	2082.3	1007.2	933.0	889.8	871.2	858.9	852.7	846.5
11573.3	37.5°	9973.0	7896.8	1588.0	945.4	871.2	828.0	809.5	803.3	778.6	772.4
13013.0	40°	10955.4	8366.4	1223.4	877.4	815.6	772.4	753.8	735.3	704.4	692.1
14483.7	42.5°	12178.9	8823.7	1007.2	815.6	753.8	722.9	692.1	661.2	636.4	611.7
15954.3	45°	13402.3	9355.1	883.6	760.0	704.4	667.3	642.6	599.4	556.1	519.0
17344.5	47.5°	14421.9	9546.6	809.5	698.2	655.0	624.1	587.0	531.4	469.6	432.5
18357.9	50°	15181.9	9435.4	735.3	636.4	599.4	568.5	519.0	451.1	389.3	352.2
18716.3	52.5°	15330.2	8947.2	667.3	587.0	543.8	506.7	451.1	376.9	309.0	271.9
19105.6	55°	15225.1	8137.8	611.7	543.8	494.3	438.7	376.9	302.8	241.0	203.9
18957.3	57.5°	15008.9	7180.0	549.9	488.1	432.5	376.9	309.0	247.2	179.2	142.1
18617.4	60°	14273.6	5876.3	488.1	426.4	370.7	321.3	253.3	179.2	123.6	92.7
18024.2	62.5°	13247.8	4516.9	426.4	364.6	321.3	265.7	197.7	129.8	74.1	49.4
16355.9	65°	11375.6	3163.7	358.4	302.8	265.7	216.3	148.3	80.3	43.3	18.5
13322.0	67.5°	8644.5	1958.8	296.6	253.3	228.6	173.0	105.0	49.4	18.5	6.2
8310.8	70°	4961.8	1019.5	234.8	203.9	179.2	129.8	74.1	24.7	12.4	0.0
6061.6	71°	3466.4	753.8	210.1	179.2	160.7	117.4	61.8	18.5	6.2	0.0
3132.8	72.5°	1736.3	500.5	179.2	148.3	129.8	92.7	49.4	18.5	6.2	0.0
914.5	75°	617.9	321.3	123.6	98.9	92.7	68.0	30.9	12.4	6.2	0.0
457.2	77.5°	426.4	259.5	86.5	61.8	61.8	43.3	18.5	6.2	6.2	0.0
358.4	80°	389.3	142.1	55.6	37.1	30.9	24.7	12.4	6.2	0.0	0.0
352.2	82.5°	389.3	105.0	30.9	24.7	18.5	12.4	6.2	0.0	0.0	0.0
309.0	85°	271.9	55.6	18.5	18.5	12.4	6.2	0.0	0.0	0.0	0.0
55.6	87.5°	43.3	18.5	12.4	6.2	6.2	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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