

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: P575458

Luminaire Tested: **EPH-VN-06-740-U-SL4-HSS**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575458
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-06-740-U-SL4-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL4 distribution lens and House Side Shield
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

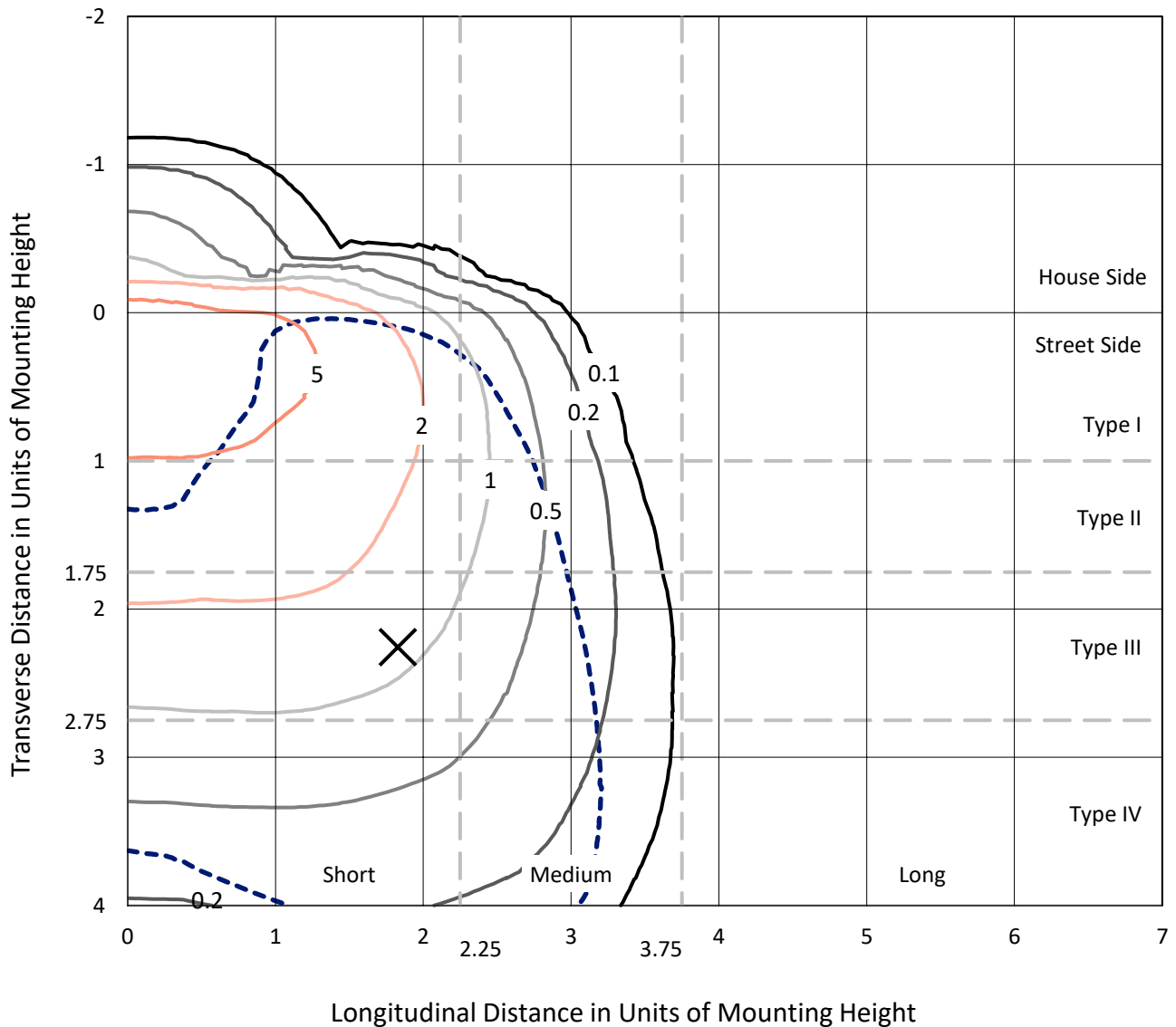
Lumens per Lamp: N/A
Luminaire Lumens: 43712.3 lumens
Efficiency: N/A
Efficacy: 118.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 368.2
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

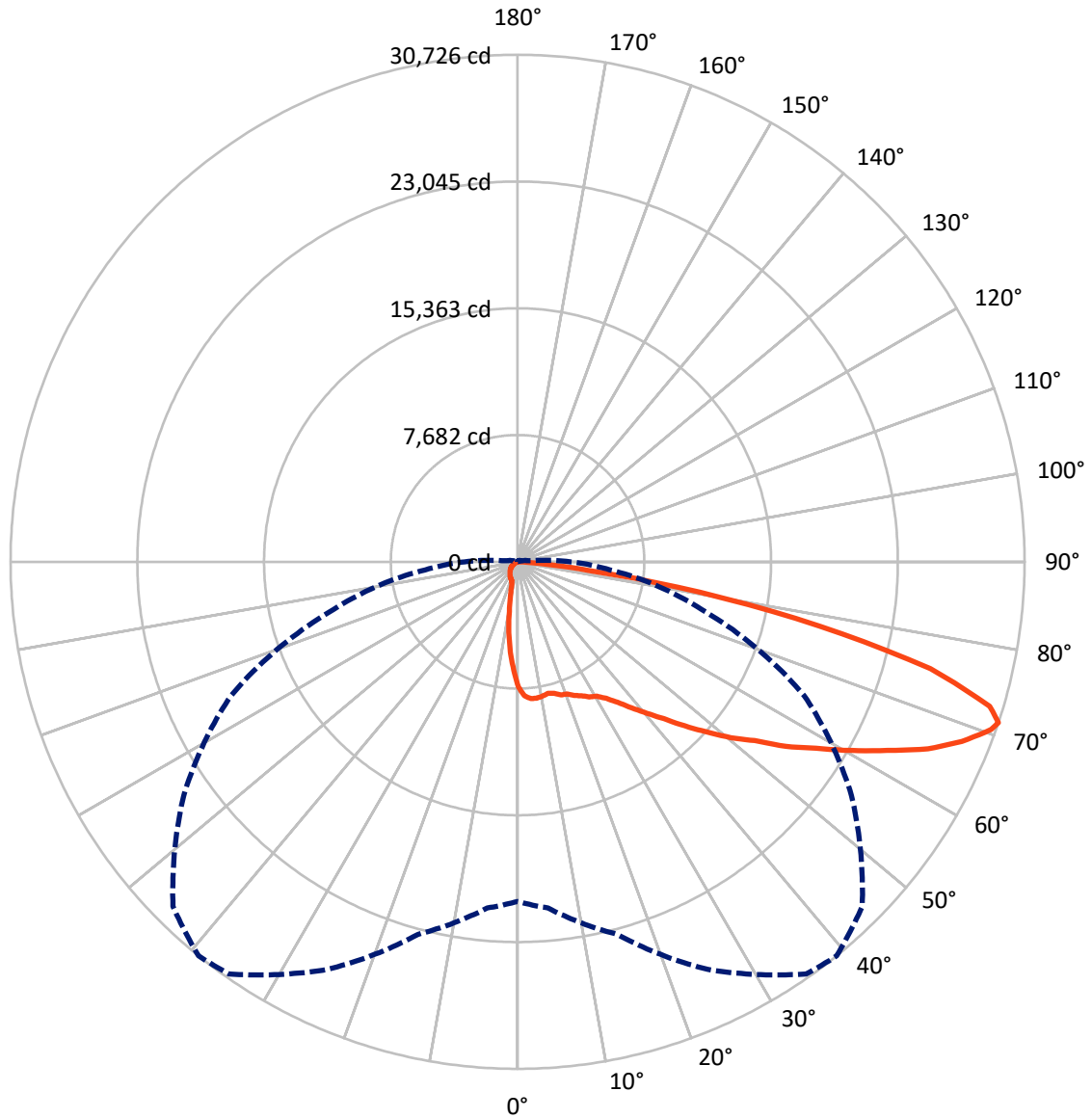
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.2 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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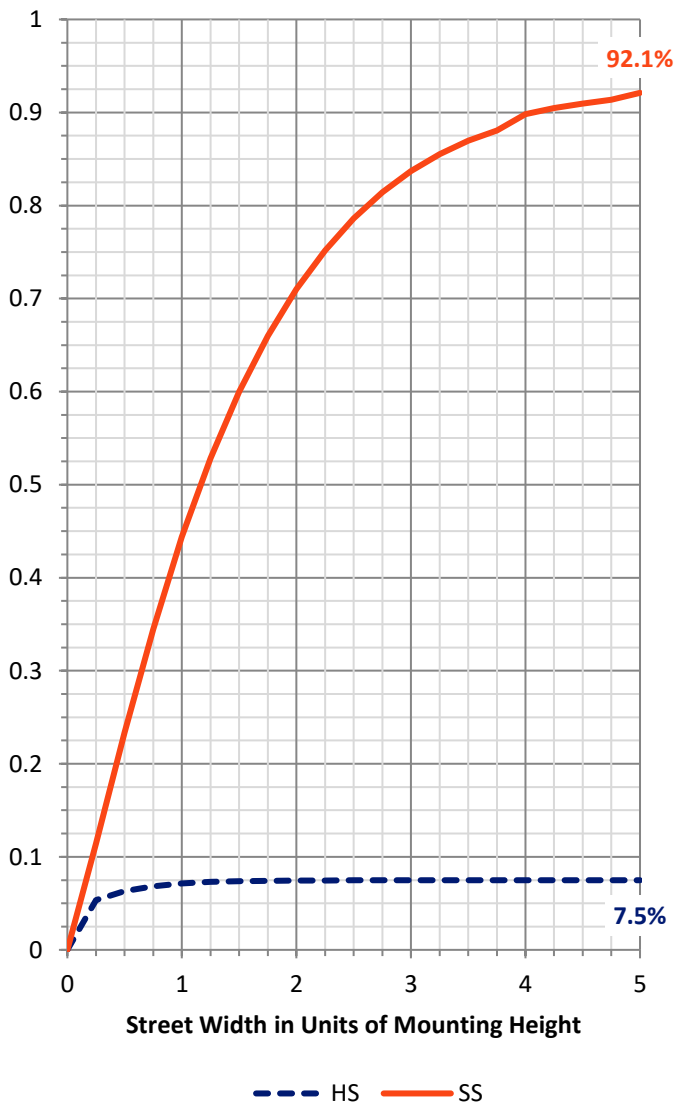
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3290.8	0.0	3290.8
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	40421.5	0.0	40421.5
	% Fixture	92.5	0.0	92.5
Total	Lumens	43712.3	0.0	43712.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	636.1	1.5
10°-20°	1565.7	3.6
20°-30°	2513.5	5.8
30°-40°	3847.5	8.8
40°-50°	6175.9	14.1
50°-60°	9071.5	20.8
60°-70°	11425.2	26.1
70°-80°	7624.9	17.4
80°-90°	852.1	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°	43712.3	100.0
0°-180°	43712.3	100.0

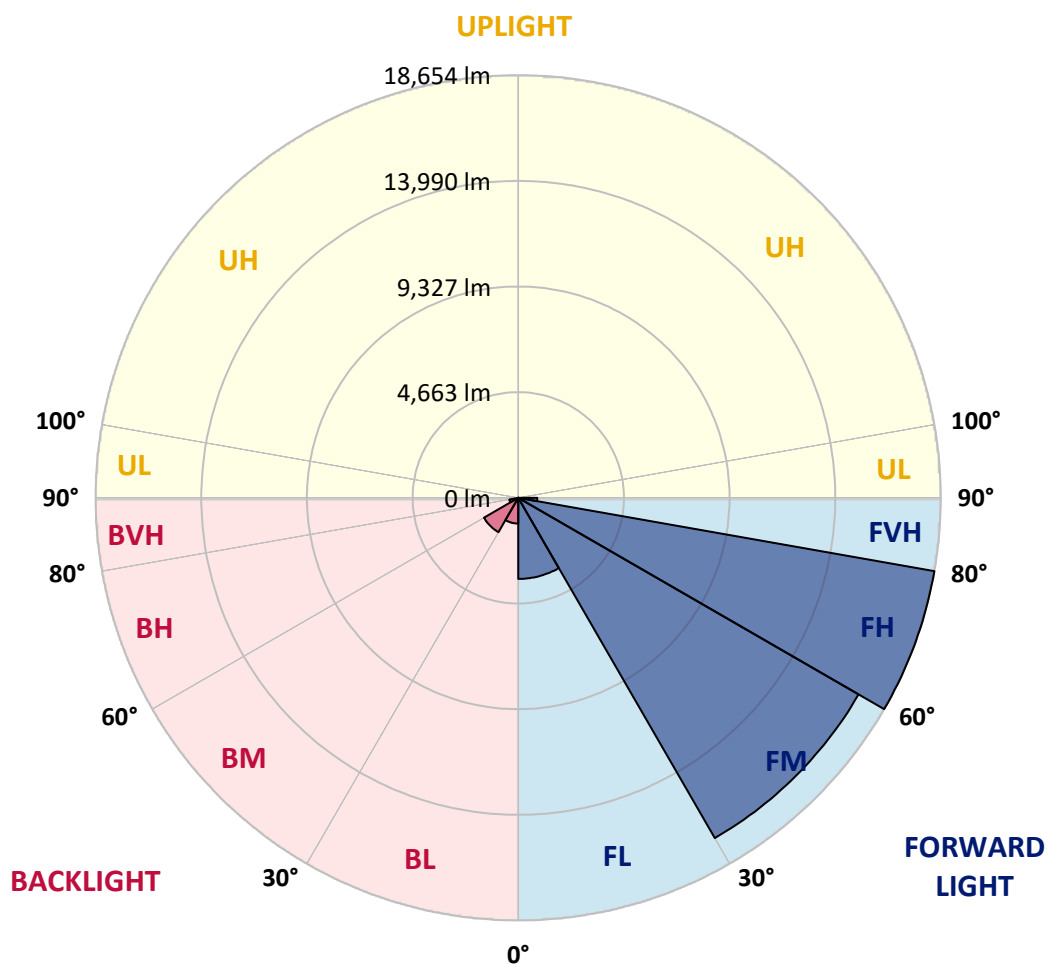


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3579.1	8.2			
FM (30°-60°)	17345.7	39.7			
FH (60°-80°)	18653.9	42.7			G5
FVH (80°-90°)	842.7	1.9			G5
BL (0°-30°)	1136.2	2.6	B3/2500		
BM (30°-60°)	1749.2	4.0	B2/2500		
BH (60°-80°)	396.1	0.9	B1/500		G1/500
BVH (80°-90°)	9.4	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°
0°	7608.4	7608.4	7608.4	7608.4	7608.4	7608.4	7608.4	7608.4	7608.4	7608.4
2.5°	8199.0	8279.2	8199.0	8164.6	8130.2	8135.9	8044.2	8061.4	7952.4	7809.1
5°	8457.0	8565.9	8479.9	8439.8	8434.0	8325.1	8279.2	8170.3	8038.4	7814.8
7.5°	8434.0	8411.1	8451.2	8416.8	8342.3	8342.3	8290.7	8135.9	8004.0	7751.7
10°	8262.0	8330.8	8296.4	8256.3	8273.5	8279.2	8181.8	8072.8	8032.7	7780.4
12.5°	8244.8	8130.2	8256.3	8262.0	8187.5	8181.8	8170.3	8141.6	8015.5	7786.2
15°	8187.5	8141.6	8267.8	8273.5	8290.7	8273.5	8290.7	8267.8	8141.6	8009.8
17.5°	8233.4	8181.8	8359.5	8445.5	8405.4	8485.6	8457.0	8353.8	8244.8	8090.0
20°	8244.8	8319.4	8514.3	8548.7	8674.8	8543.0	8537.2	8428.3	8359.5	8193.2
22.5°	8457.0	8491.4	8732.2	8806.7	8812.5	8795.3	8651.9	8525.8	8497.1	8290.7
25°	8778.1	8898.5	9007.4	9053.3	9070.5	8990.2	8841.1	8680.6	8611.8	8479.9
27.5°	9345.7	9271.1	9368.6	9437.4	9242.5	9271.1	9081.9	8944.3	8846.9	8732.2
30°	9850.2	9781.4	9787.2	9775.7	9609.4	9454.6	9403.0	9162.2	9041.8	9087.7
32.5°	10303.2	10154.1	10280.2	10222.9	9913.3	9867.4	9827.3	9523.4	9546.3	9758.5
35°	10721.7	10670.1	10773.3	10670.1	10463.7	10452.2	10412.1	10148.4	10274.5	10578.4
37.5°	11105.9	11123.1	11249.2	11197.6	11214.8	11226.3	11203.3	10922.4	11283.6	11965.9
40°	11461.4	11438.4	11748.0	11908.6	11943.0	12069.1	12069.1	12000.3	12556.5	13324.8
42.5°	11839.8	11897.1	12298.4	12567.9	12894.7	13003.7	13152.7	13187.1	14047.2	14924.4
45°	12459.0	12361.5	12871.8	13508.2	13794.9	14179.0	14408.4	14603.3	15641.1	16845.1
47.5°	13244.5	13049.5	13496.8	14419.9	15084.9	15400.3	15813.1	16071.1	17086.0	18330.1
50°	14116.0	13915.3	14133.2	15406.0	16180.1	16753.4	17280.9	17607.7	18834.7	19992.9
52.5°	15102.1	14918.7	14953.1	16432.3	17573.3	17991.9	18685.6	19173.0	20394.2	20996.2
55°	16151.4	16105.5	15996.6	17435.7	18794.6	19734.9	20153.4	20738.2	21993.9	21540.9
57.5°	17206.4	17063.0	17217.8	18765.9	20755.4	21317.3	21896.4	22246.1	22882.6	22016.8
60°	18198.3	18209.7	18427.6	20210.7	22423.9	23220.8	23742.6	23530.5	23794.2	22223.2
62.5°	19035.4	19012.4	19562.8	21833.3	24631.3	25170.2	25560.1	24614.1	24218.5	22423.9
65°	19786.5	20044.5	20910.2	23765.5	26706.8	27326.1	27091.0	25640.4	24631.3	21833.3
67.5°	20354.1	20738.2	22240.4	25583.1	28610.4	29046.1	28719.3	26420.2	24143.9	19517.0
70°	20686.6	21076.5	23192.2	27096.7	30129.8	30445.1	29676.8	25818.1	21300.1	14133.2
71°	20583.4	21059.3	23375.7	27257.3	30491.0	30726.1	29533.5	24705.8	19155.8	11834.0
72.5°	19648.8	20096.1	22613.1	27142.6	30055.2	29911.9	28415.4	22034.0	15079.2	7545.3
75°	14437.1	14918.7	19408.0	23478.9	26827.2	25841.1	22997.2	15463.4	7866.4	2310.6
77.5°	7189.9	7270.1	12046.2	17045.8	19677.5	18697.1	15411.8	8623.2	2941.3	682.3
80°	3314.0	3336.9	4518.0	8829.7	11897.1	11197.6	8634.7	4254.3	1330.2	361.2
82.5°	2259.0	2293.4	2723.4	3658.0	5165.9	4357.5	3497.5	2723.4	762.6	217.9
85°	412.8	378.4	1525.1	1937.9	1995.3	1353.1	1209.8	2356.5	286.7	126.1
87.5°	0.0	5.7	212.1	791.2	711.0	315.3	412.8	573.4	28.7	40.1
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°
7608.4	0°	7608.4	7608.4	7608.4	7608.4	7608.4	7608.4	7608.4	7608.4	7608.4	7608.4
7694.4	2.5°	7596.9	7533.9	7321.7	7086.7	6874.5	6708.2	6496.1	6398.6	6243.8	6157.8
7677.2	5°	7488.0	7316.0	6949.1	6553.4	6112.0	5745.0	5337.9	5108.6	4844.8	4764.6
7516.7	7.5°	7304.5	7058.0	6519.0	5962.9	5286.3	4638.4	4139.6	3606.4	3279.6	3142.0
7396.3	10°	7189.9	6891.7	6157.8	5326.5	4380.4	3468.8	2769.3	2201.7	1903.5	1760.2
7424.9	12.5°	7189.9	6868.8	5865.4	4718.7	3463.1	2373.7	1714.3	1387.5	1290.0	1255.6
7551.1	15°	7172.7	6822.9	5584.5	4093.7	2562.9	1593.9	1278.6	1209.8	1198.3	1192.6
7671.5	17.5°	7258.7	6742.6	5297.8	3422.9	1811.8	1255.6	1175.4	1163.9	1152.4	1152.4
7746.0	20°	7321.7	6696.8	4953.8	2712.0	1353.1	1163.9	1129.5	1112.3	1106.6	1100.8
7763.2	22.5°	7270.1	6628.0	4529.5	2029.7	1181.1	1106.6	1083.6	1066.4	1055.0	1055.0
7941.0	25°	7367.6	6564.9	4105.2	1530.9	1106.6	1055.0	1032.0	1020.6	1014.8	1009.1
8147.4	27.5°	7499.5	6593.6	3600.7	1232.7	1043.5	1003.4	980.4	969.0	963.2	951.8
8468.4	30°	7660.0	6587.8	3044.5	1077.9	986.2	946.0	923.1	917.4	905.9	900.2
8950.1	32.5°	7935.2	6736.9	2471.2	997.6	923.1	888.7	865.8	860.0	854.3	848.6
9775.7	35°	8525.8	6920.4	1932.2	934.6	865.8	825.6	808.4	797.0	791.2	785.5
10738.9	37.5°	9253.9	7327.5	1473.5	877.2	808.4	768.3	751.1	745.4	722.4	716.7
12074.8	40°	10165.6	7763.2	1135.2	814.2	756.8	716.7	699.5	682.3	653.6	642.2
13439.4	42.5°	11300.8	8187.5	934.6	756.8	699.5	670.8	642.2	613.5	590.6	567.6
14804.0	45°	12436.1	8680.6	819.9	705.2	653.6	619.2	596.3	556.2	516.0	481.6
16094.1	47.5°	13382.1	8858.3	751.1	647.9	607.8	579.1	544.7	493.1	435.7	401.3
17034.4	50°	14087.3	8755.1	682.3	590.6	556.2	527.5	481.6	418.5	361.2	326.8
17366.9	52.5°	14224.9	8302.2	619.2	544.7	504.6	470.2	418.5	349.7	286.7	252.3
17728.1	55°	14127.4	7551.1	567.6	504.6	458.7	407.1	349.7	280.9	223.6	189.2
17590.5	57.5°	13926.8	6662.4	510.3	452.9	401.3	349.7	286.7	229.3	166.3	131.9
17275.2	60°	13244.5	5452.6	452.9	395.6	344.0	298.1	235.1	166.3	114.7	86.0
16724.7	62.5°	12292.7	4191.2	395.6	338.3	298.1	246.5	183.5	120.4	68.8	45.9
15176.7	65°	10555.5	2935.6	332.5	280.9	246.5	200.7	137.6	74.5	40.1	17.2
12361.5	67.5°	8021.2	1817.5	275.2	235.1	212.1	160.5	97.5	45.9	17.2	5.7
7711.6	70°	4604.0	946.0	217.9	189.2	166.3	120.4	68.8	22.9	11.5	0.0
5624.6	71°	3216.5	699.5	194.9	166.3	149.1	108.9	57.3	17.2	5.7	0.0
2906.9	72.5°	1611.1	464.4	166.3	137.6	120.4	86.0	45.9	17.2	5.7	0.0
848.6	75°	573.4	298.1	114.7	91.7	86.0	63.1	28.7	11.5	5.7	0.0
424.3	77.5°	395.6	240.8	80.3	57.3	57.3	40.1	17.2	5.7	5.7	0.0
332.5	80°	361.2	131.9	51.6	34.4	28.7	22.9	11.5	5.7	0.0	0.0
326.8	82.5°	361.2	97.5	28.7	22.9	17.2	11.5	5.7	0.0	0.0	0.0
286.7	85°	252.3	51.6	17.2	17.2	11.5	5.7	0.0	0.0	0.0	0.0
51.6	87.5°	40.1	17.2	11.5	5.7	5.7	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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