

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: P575312

Luminaire Tested: **EPH-VN-08-760-U-T4FT-HSS**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575312
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-T4FT-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T4FT distribution lens and House Side Shield
Light Source: (128) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

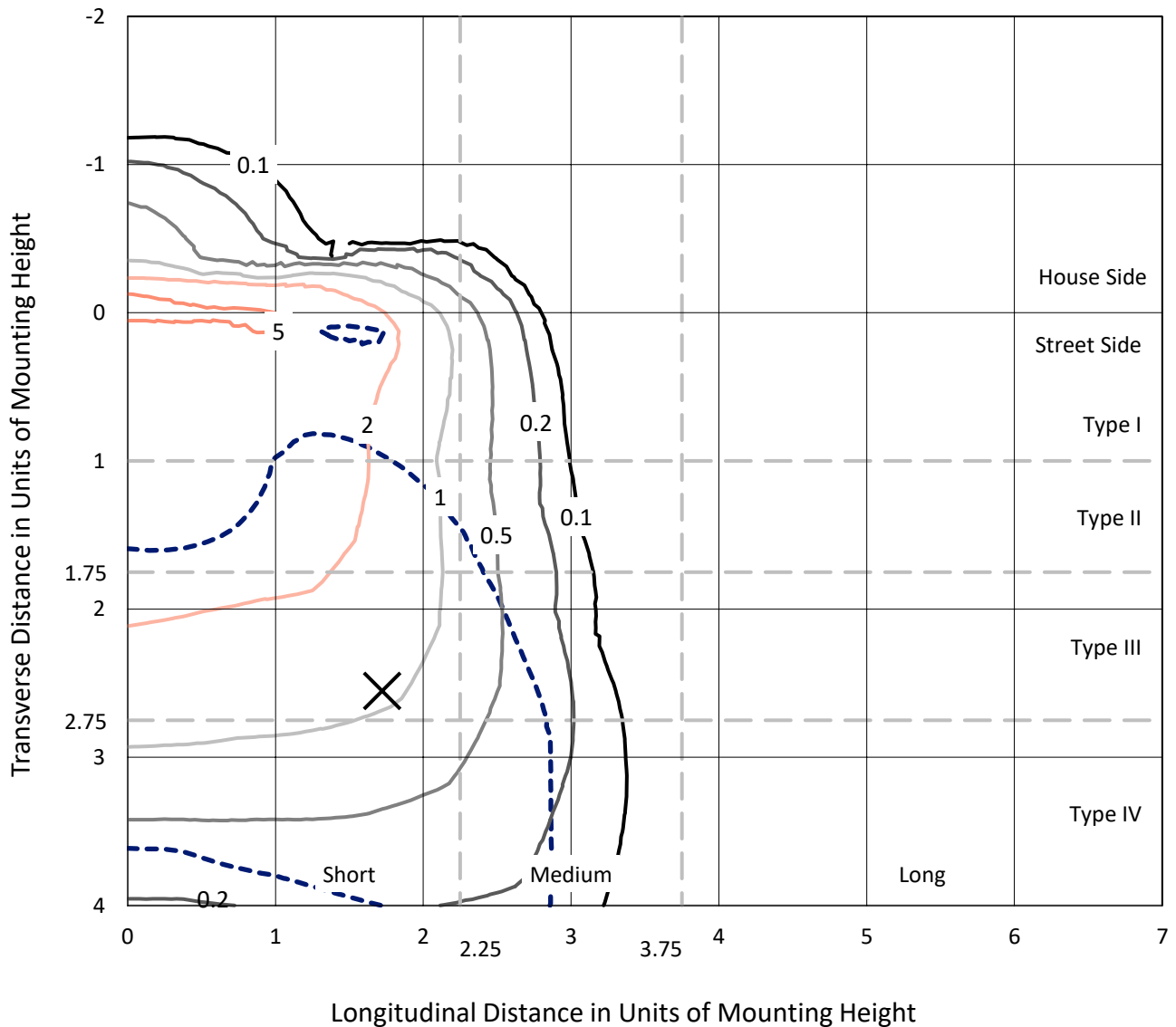
Lumens per Lamp: N/A
Luminaire Lumens: 35629.9 lumens
Efficiency: N/A
Efficacy: 73.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

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

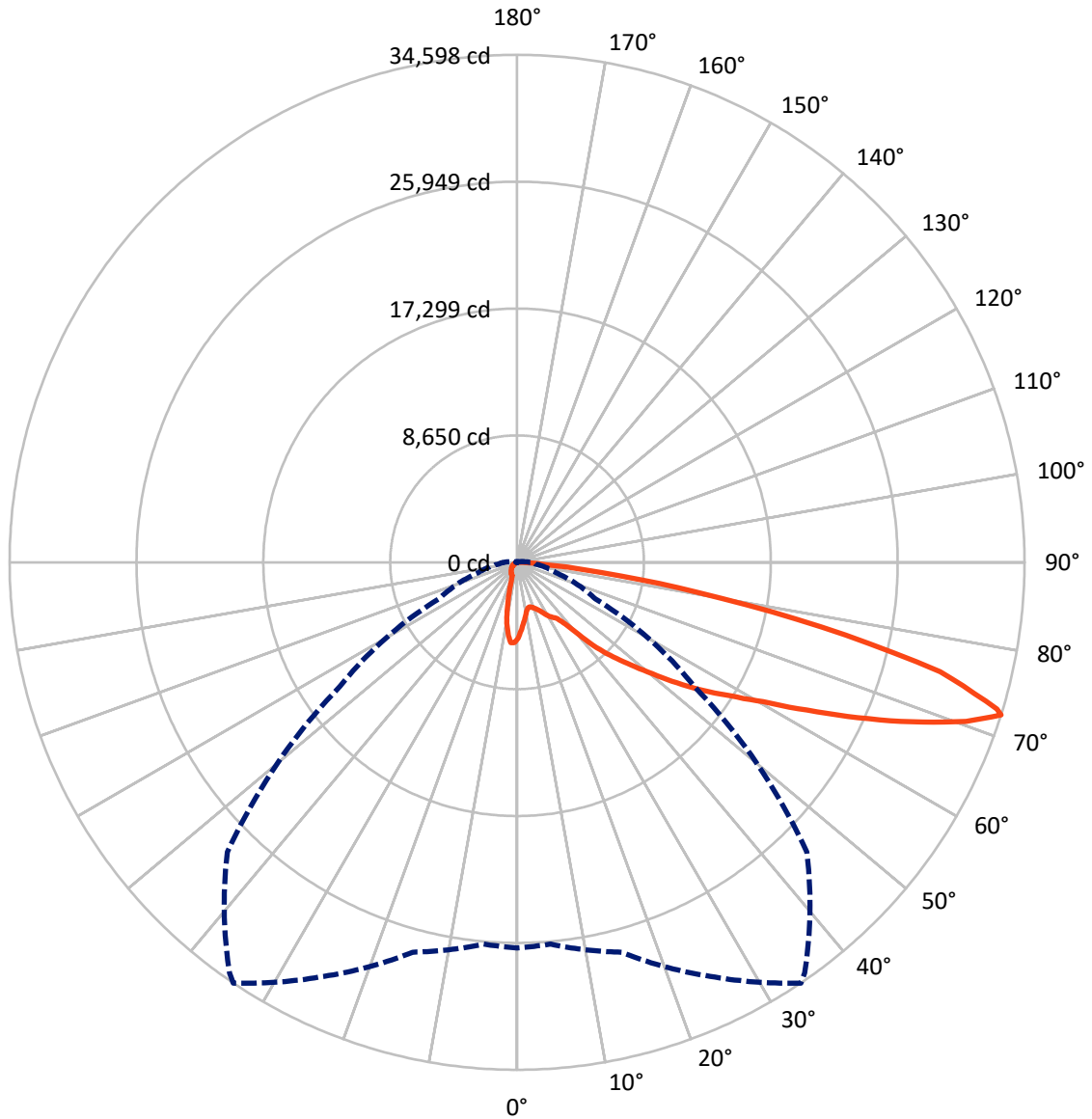
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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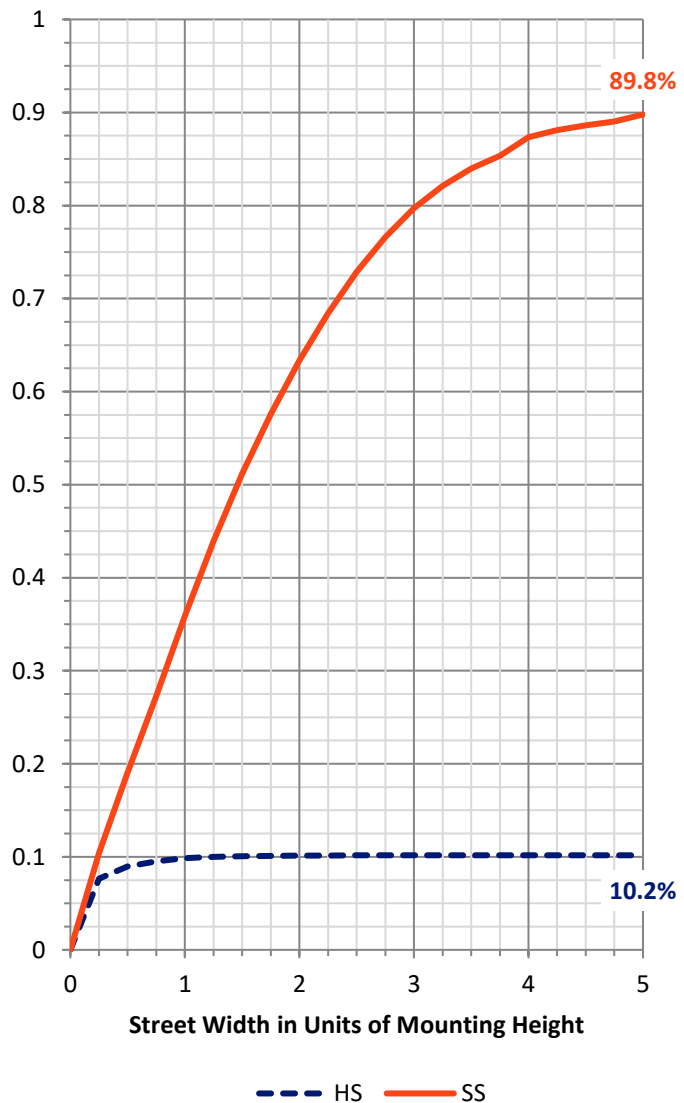
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3647.7	0.0	3647.7
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	31982.3	0.0	31982.3
	% Fixture	89.8	0.0	89.8
Total	Lumens	35629.9	0.0	35629.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	452.5	1.3
10°-20°	1024.5	2.9
20°-30°	1546.3	4.3
30°-40°	2509.4	7.0
40°-50°	4718.8	13.2
50°-60°	7715.3	21.7
60°-70°	10256.4	28.8
70°-80°	6868.6	19.3
80°-90°	538.3	1.5
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°	35629.9	100.0
0°-180°	35629.9	100.0

Coefficient of Utilization

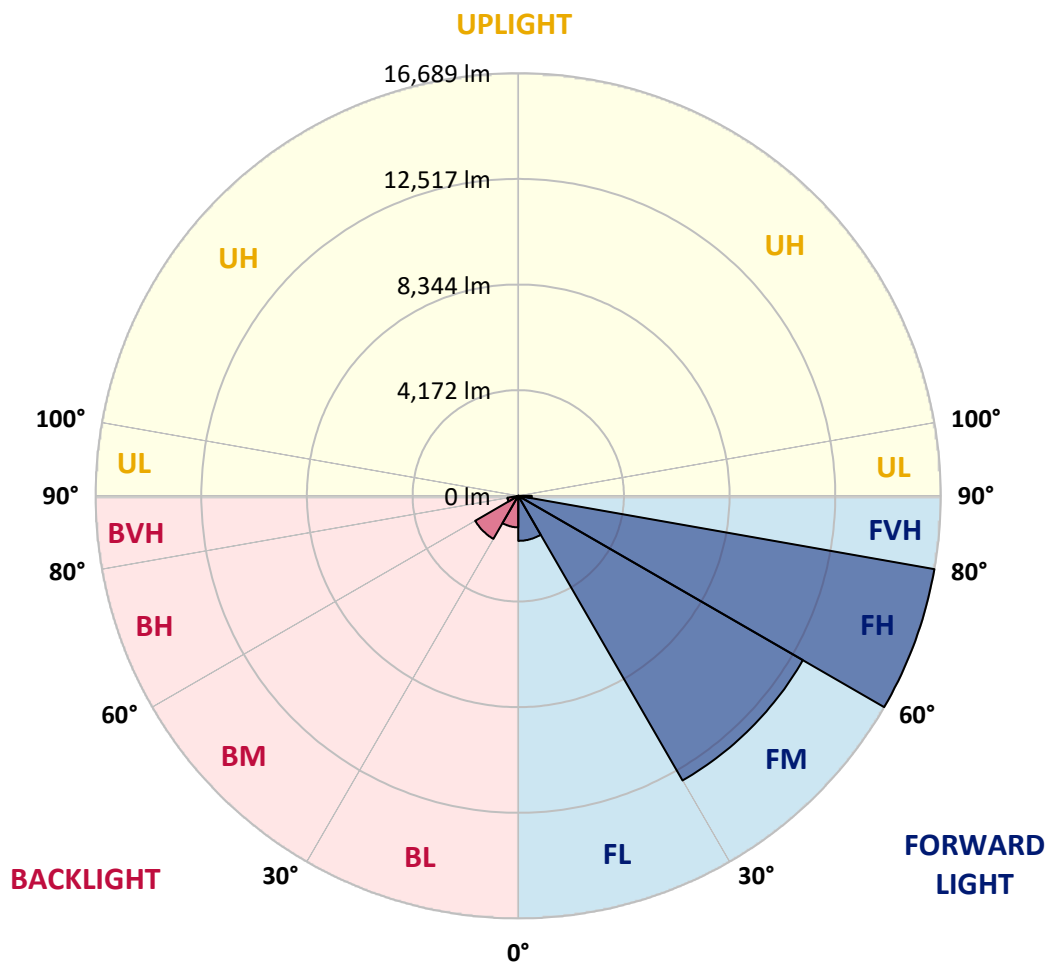


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1778.7	5.0			
FM (30°-60°)	12979.9	36.4			
FH (60°-80°)	16688.8	46.8			G5
FVH (80°-90°)	534.9	1.5			G4/750
BL (0°-30°)	1244.6	3.5	B3/2500		
BM (30°-60°)	1963.5	5.5	B2/2500		
BH (60°-80°)	436.2	1.2	B1/500		G1/500
BVH (80°-90°)	3.4	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°	34°	35°	45°	55°	65°	75°
0°	5212.7	5212.7	5212.7	5212.7	5212.7	5212.7	5212.7	5212.7	5212.7	5212.7
2.5°	4610.0	4599.7	4630.6	4682.1	4733.7	4713.0	4810.9	4913.9	4986.0	5083.9
5°	4028.0	4053.7	4084.6	4187.7	4254.6	4270.1	4450.4	4584.3	4805.8	5032.4
7.5°	3497.4	3528.3	3590.2	3703.5	3842.6	3878.6	4058.9	4326.7	4615.2	4913.9
10°	3111.1	3142.0	3209.0	3281.1	3466.5	3466.5	3713.8	4084.6	4460.7	4810.9
12.5°	3028.7	3044.2	3039.0	3095.7	3214.1	3239.9	3482.0	3888.9	4326.7	4774.9
15°	3126.6	3136.9	3085.4	3054.5	3157.5	3183.2	3409.9	3770.4	4239.2	4795.5
17.5°	3322.3	3286.3	3183.2	3136.9	3224.4	3239.9	3451.1	3765.3	4228.9	4852.1
20°	3435.6	3476.8	3296.6	3209.0	3332.6	3353.2	3579.9	3847.7	4280.4	4950.0
22.5°	3636.5	3657.1	3415.0	3358.4	3476.8	3476.8	3734.4	4012.5	4404.0	5109.7
25°	3919.8	3894.1	3610.8	3554.1	3667.4	3713.8	3971.3	4275.2	4594.6	5259.0
27.5°	4141.3	4156.8	3925.0	3775.6	3966.2	3997.1	4275.2	4558.5	4738.8	5382.7
30°	4471.0	4440.1	4192.8	4022.8	4259.8	4264.9	4532.8	4826.4	5017.0	5604.1
32.5°	4862.4	4800.6	4517.3	4275.2	4465.8	4512.2	4785.2	5212.7	5449.6	6021.4
35°	5691.7	5542.3	5078.8	4702.7	4718.2	4738.8	5161.2	5774.1	6047.1	6551.9
37.5°	6902.2	6840.4	6315.0	5599.0	5326.0	5264.2	5738.1	6515.9	6855.8	7252.4
40°	8102.3	8014.8	7525.4	6984.6	6490.1	6366.5	6603.4	7499.7	7808.7	8225.9
42.5°	9436.4	9281.9	8705.0	8267.2	7958.1	7824.2	7731.5	8735.9	9086.1	9369.4
45°	10785.9	10533.5	9699.1	9364.3	9199.5	9127.3	9117.0	10291.4	10502.6	10559.3
47.5°	11970.6	11697.6	10940.5	10564.4	10440.8	10420.2	10997.1	12083.9	11919.1	11769.7
50°	12882.3	12707.2	12161.2	12027.3	11934.6	11898.5	13248.0	13928.0	13165.6	12902.9
52.5°	14293.7	13902.2	13284.1	13330.5	13655.0	13660.1	15529.9	15679.3	14201.0	13680.7
55°	15421.7	15164.2	14659.4	14592.4	15447.5	15540.2	17574.8	17008.2	14777.9	14422.4
57.5°	16750.6	16632.2	16266.5	16276.8	17173.0	17368.7	19393.0	18131.1	15256.9	14901.5
60°	18671.9	18332.0	18141.4	18228.9	19284.9	19475.5	21154.6	18939.8	15488.7	15215.7
62.5°	20794.1	20397.5	20191.4	20639.5	22179.7	22210.6	22493.9	19655.7	15344.5	15298.1
65°	23348.9	22957.4	22792.6	23694.0	25522.6	25409.3	24373.9	19959.6	14886.0	14468.8
67.5°	25893.4	25656.5	25316.5	26753.6	29030.3	29030.3	26326.1	19846.3	13685.9	11615.2
70°	27098.7	27263.6	27804.4	30060.5	32476.3	32229.0	28252.5	18543.1	10188.4	6237.7
72°	26295.2	26125.2	27521.1	31142.2	34598.4	34191.5	27928.0	14741.8	5887.4	2735.1
72.5°	24914.8	25074.4	26995.7	30992.8	34201.8	34536.6	27134.8	13598.3	4841.8	2178.8
75°	15277.5	15550.5	20150.2	26315.8	29803.0	29426.9	20989.8	6479.8	1859.5	927.2
77.5°	5578.4	5805.0	9776.4	16560.1	21195.8	20958.9	12145.8	2302.4	1009.6	690.2
80°	1452.5	1571.0	3322.3	7638.7	12465.1	12480.6	5083.9	922.0	685.1	566.6
82.5°	288.4	319.4	1019.9	2972.1	5825.6	5748.4	1607.1	494.5	515.1	463.6
85°	36.1	46.4	216.3	1009.6	1885.2	1689.5	396.6	247.2	381.2	360.6
87.5°	5.2	5.2	51.5	231.8	396.6	386.3	82.4	77.3	170.0	221.5
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°
5212.7	0°	5212.7	5212.7	5212.7	5212.7	5212.7	5212.7	5212.7	5212.7	5212.7	5212.7
5202.4	2.5°	5269.3	5289.9	5362.1	5423.9	5496.0	5516.6	5485.7	5537.2	5465.1	5506.3
5243.6	5°	5279.6	5398.1	5532.0	5619.6	5599.0	5547.5	5506.3	5367.2	5269.3	5233.3
5259.0	7.5°	5351.8	5485.7	5629.9	5629.9	5516.6	5248.7	4991.2	4744.0	4537.9	4434.9
5264.2	10°	5444.5	5583.5	5732.9	5537.2	5114.8	4625.5	4259.8	3796.2	3482.0	3317.2
5346.6	12.5°	5568.1	5763.8	5815.3	5362.1	4661.5	3935.3	3270.8	2626.9	2328.2	2091.3
5480.5	15°	5727.8	5918.4	5763.8	4980.9	4084.6	3013.3	2214.9	1601.9	1365.0	1241.4
5635.1	17.5°	5939.0	6083.2	5748.4	4630.6	3306.9	2060.3	1359.8	1081.7	1030.2	1009.6
5851.4	20°	6186.2	6294.4	5599.0	4084.6	2457.0	1323.8	999.3	968.4	973.5	963.2
6108.9	22.5°	6464.3	6500.4	5429.0	3451.1	1663.7	978.7	932.3	937.5	942.6	932.3
6345.9	25°	6757.9	6660.1	5181.8	2709.4	1107.4	891.1	901.4	911.7	916.9	922.0
6634.3	27.5°	7087.6	6891.9	4836.7	1983.1	865.3	839.6	870.5	901.4	906.6	906.6
7067.0	30°	7571.8	7247.3	4501.9	1344.4	762.3	782.9	834.4	870.5	896.3	896.3
7736.6	32.5°	8184.7	7618.1	4033.1	916.9	705.7	716.0	757.2	829.3	886.0	891.1
8632.9	35°	9034.6	8066.3	3543.8	731.4	664.5	669.6	695.4	752.0	849.9	880.8
9797.0	37.5°	9930.9	8576.2	2936.0	659.3	633.6	628.4	643.9	690.2	777.8	855.0
10992.0	40°	10883.8	9111.9	2297.3	623.3	607.8	597.5	602.7	623.3	690.2	788.1
12161.2	42.5°	11780.0	9596.1	1725.5	587.2	582.0	571.7	571.7	576.9	613.0	679.9
13459.2	45°	12748.4	9992.7	1313.5	561.4	546.0	551.1	530.5	520.2	546.0	551.1
14906.6	47.5°	13655.0	10389.3	1050.8	530.5	515.1	515.1	489.3	468.7	468.7	422.4
16178.9	50°	14504.9	10605.6	839.6	489.3	484.2	479.0	443.0	406.9	376.0	319.4
17379.0	52.5°	15210.5	10595.3	649.0	437.8	453.3	437.8	381.2	329.7	283.3	231.8
17822.0	55°	15421.7	10100.9	489.3	360.6	386.3	365.7	303.9	257.5	206.0	164.8
17889.0	57.5°	15241.4	9348.8	370.9	278.1	298.8	278.1	231.8	190.6	144.2	113.3
17724.2	60°	14638.8	8468.0	288.4	216.3	226.6	211.2	175.1	144.2	103.0	72.1
16663.1	62.5°	13495.3	7365.7	221.5	170.0	164.8	164.8	133.9	108.2	72.1	41.2
13876.5	65°	11074.4	5743.2	170.0	118.5	118.5	118.5	103.0	77.3	46.4	20.6
9075.8	67.5°	6953.7	3342.9	139.1	92.7	87.6	87.6	72.1	51.5	25.8	5.2
3569.6	70°	2616.6	1225.9	108.2	72.1	67.0	67.0	51.5	30.9	15.5	0.0
1241.4	72°	901.4	468.7	87.6	51.5	51.5	46.4	36.1	25.8	10.3	0.0
937.5	72.5°	741.7	376.0	82.4	51.5	46.4	46.4	36.1	25.8	10.3	0.0
334.8	75°	267.8	154.5	56.7	36.1	30.9	30.9	25.8	15.5	5.2	0.0
170.0	77.5°	133.9	97.9	46.4	30.9	25.8	15.5	15.5	10.3	5.2	0.0
103.0	80°	82.4	61.8	25.8	20.6	15.5	10.3	5.2	5.2	0.0	0.0
72.1	82.5°	56.7	36.1	15.5	15.5	10.3	5.2	0.0	0.0	0.0	0.0
46.4	85°	36.1	15.5	10.3	10.3	5.2	0.0	0.0	0.0	0.0	0.0
25.8	87.5°	15.5	10.3	5.2	0.0	0.0	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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