

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: P575444

Luminaire Tested: **EPH-VN-04-730-U-SL4-HSS**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575444
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-04-730-U-SL4-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL4 distribution lens and House Side Shield
Light Source: (64) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

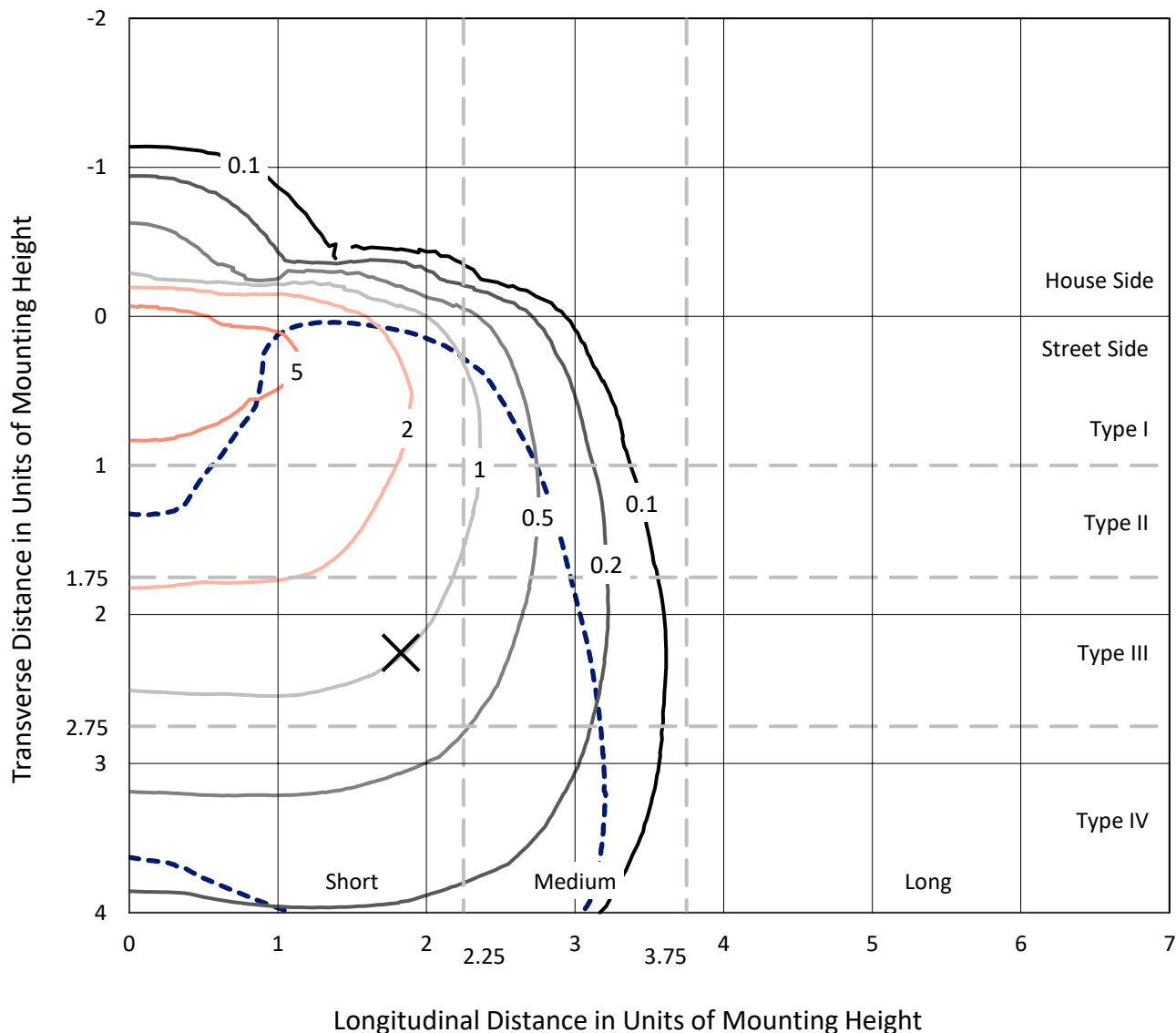
Lumens per Lamp: N/A
Luminaire Lumens: 26310.2 lumens
Efficiency: N/A
Efficacy: 109.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 241
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

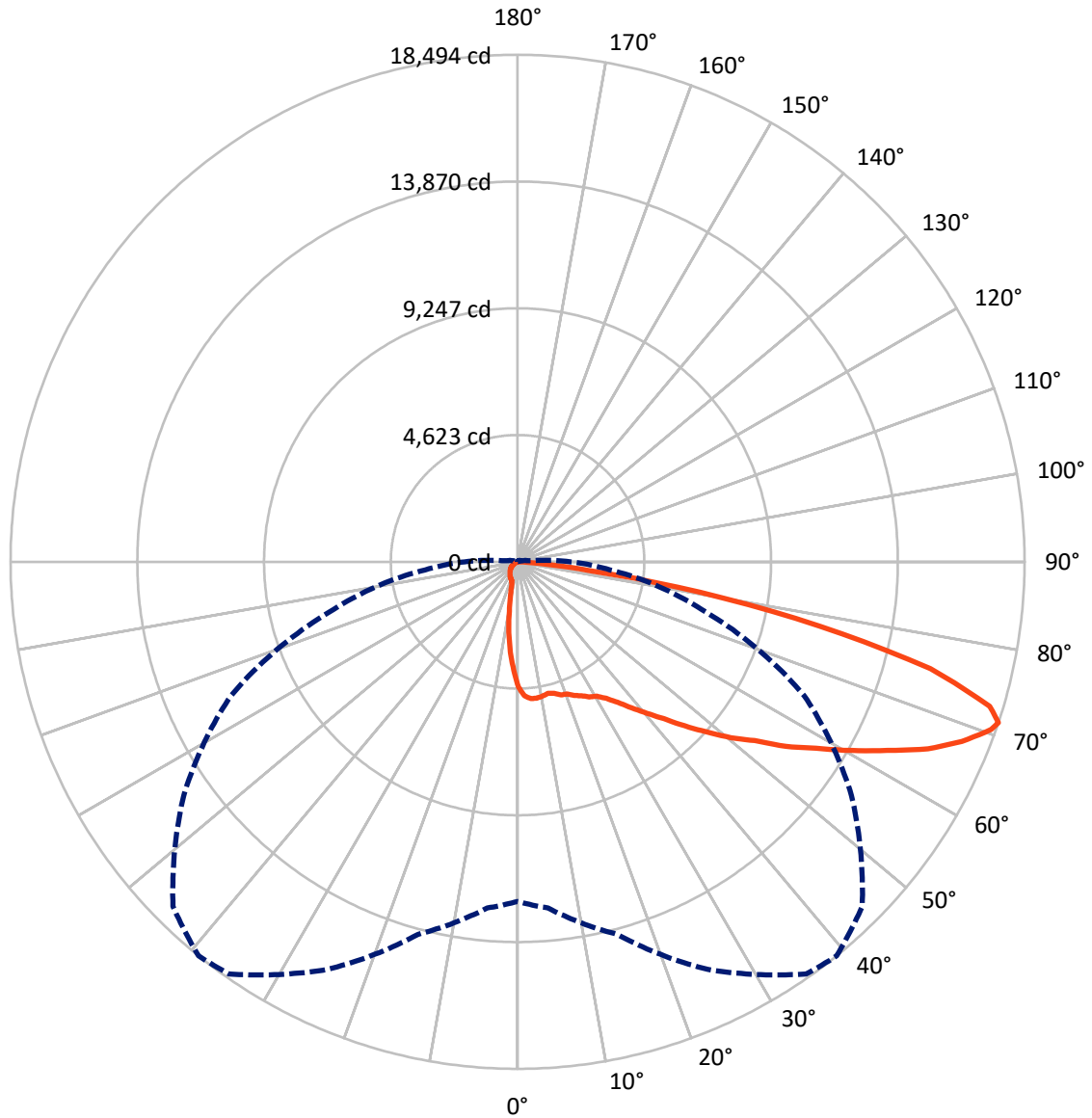
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 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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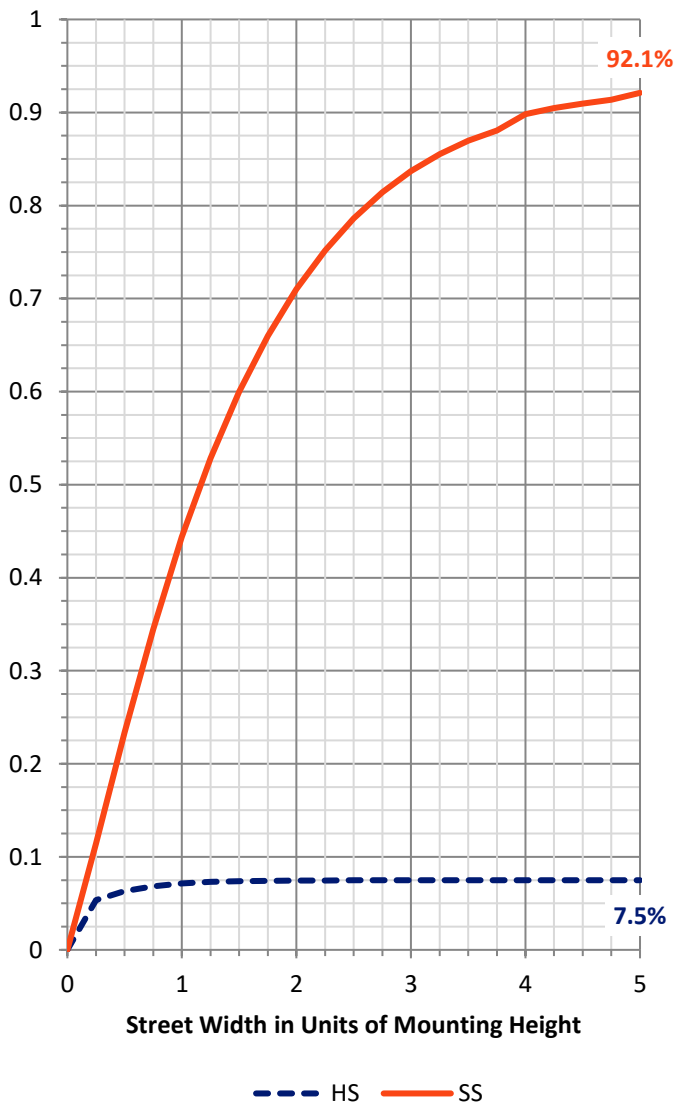
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1980.8	0.0	1980.8
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	24329.4	0.0	24329.4
	% Fixture	92.5	0.0	92.5
Total	Lumens	26310.2	0.0	26310.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	382.9	1.5
10°-20°	942.4	3.6
20°-30°	1512.8	5.7
30°-40°	2315.8	8.8
40°-50°	3717.3	14.1
50°-60°	5460.0	20.8
60°-70°	6876.7	26.1
70°-80°	4589.4	17.4
80°-90°	512.9	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°	26310.2	100.0
0°-180°	26310.2	100.0

Coefficient of Utilization

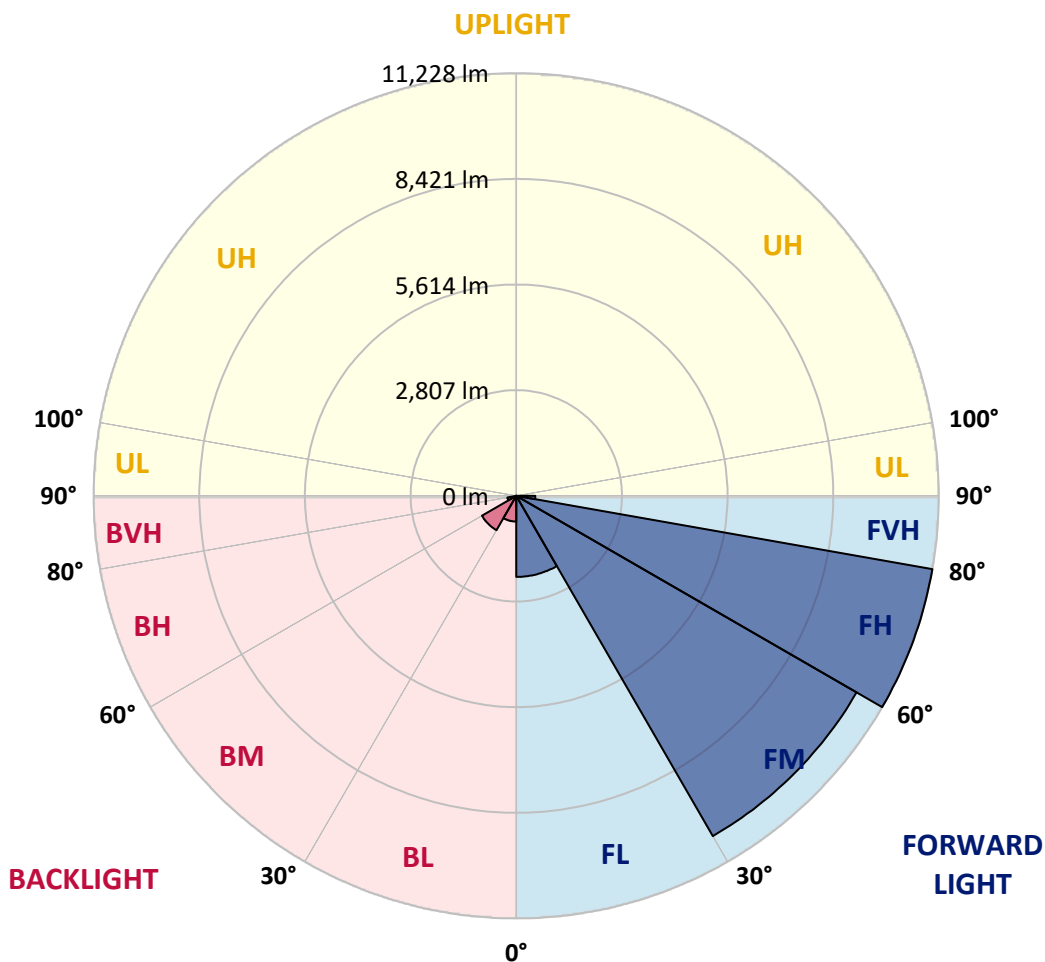


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2154.2	8.2			
FM (30°-60°)	10440.2	39.7			
FH (60°-80°)	11227.7	42.7			G4/12000
FVH (80°-90°)	507.2	1.9			G4/750
BL (0°-30°)	683.9	2.6	B2/1000		
BM (30°-60°)	1052.8	4.0	B2/2500		
BH (60°-80°)	238.4	0.9	B1/500		G1/500
BVH (80°-90°)	5.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°
0°	4579.4	4579.4	4579.4	4579.4	4579.4	4579.4	4579.4	4579.4	4579.4	4579.4
2.5°	4934.9	4983.2	4934.9	4914.2	4893.5	4896.9	4841.7	4852.1	4786.5	4700.2
5°	5090.2	5155.8	5104.0	5079.8	5076.4	5010.8	4983.2	4917.6	4838.3	4703.7
7.5°	5076.4	5062.6	5086.7	5066.0	5021.2	5021.2	4990.1	4896.9	4817.6	4665.7
10°	4972.9	5014.3	4993.6	4969.4	4979.8	4983.2	4924.5	4859.0	4834.8	4683.0
12.5°	4962.5	4893.5	4969.4	4972.9	4928.0	4924.5	4917.6	4900.4	4824.5	4686.4
15°	4928.0	4900.4	4976.3	4979.8	4990.1	4979.8	4990.1	4976.3	4900.4	4821.0
17.5°	4955.6	4924.5	5031.5	5083.3	5059.1	5107.4	5090.2	5028.1	4962.5	4869.3
20°	4962.5	5007.4	5124.7	5145.4	5221.3	5142.0	5138.5	5072.9	5031.5	4931.4
22.5°	5090.2	5110.9	5255.8	5300.7	5304.2	5293.8	5207.5	5131.6	5114.3	4990.1
25°	5283.4	5355.9	5421.5	5449.1	5459.4	5411.1	5321.4	5224.8	5183.4	5104.0
27.5°	5625.1	5580.2	5638.9	5680.3	5563.0	5580.2	5466.3	5383.5	5324.9	5255.8
30°	5928.8	5887.4	5890.8	5883.9	5783.8	5690.7	5659.6	5514.7	5442.2	5469.8
32.5°	6201.4	6111.7	6187.6	6153.1	5966.7	5939.1	5915.0	5732.1	5745.9	5873.6
35°	6453.3	6422.3	6484.4	6422.3	6298.0	6291.1	6267.0	6108.2	6184.2	6367.1
37.5°	6684.5	6694.9	6770.8	6739.8	6750.1	6757.0	6743.2	6574.1	6791.5	7202.2
40°	6898.5	6884.7	7071.1	7167.7	7188.4	7264.3	7264.3	7222.9	7557.6	8020.1
42.5°	7126.3	7160.8	7402.3	7564.5	7761.2	7826.8	7916.5	7937.2	8454.9	8982.9
45°	7499.0	7440.3	7747.4	8130.5	8303.1	8534.3	8672.3	8789.6	9414.3	10139.0
47.5°	7971.8	7854.4	8123.6	8679.2	9079.5	9269.3	9517.8	9673.1	10283.9	11032.8
50°	8496.3	8375.5	8506.7	9272.8	9738.7	10083.8	10401.2	10598.0	11336.5	12033.6
52.5°	9089.9	8979.4	9000.1	9890.5	10577.2	10829.2	11246.7	11540.1	12275.1	12637.5
55°	9721.4	9693.8	9628.2	10494.4	11312.3	11878.3	12130.2	12482.2	13237.9	12965.3
57.5°	10356.4	10270.1	10363.3	11295.0	12492.5	12830.7	13179.3	13389.8	13772.8	13251.8
60°	10953.4	10960.3	11091.4	12164.7	13496.8	13976.5	14290.5	14162.8	14321.6	13376.0
62.5°	11457.2	11443.4	11774.7	13141.3	14825.4	15149.8	15384.5	14815.0	14576.9	13496.8
65°	11909.3	12064.6	12585.7	14304.3	16074.7	16447.4	16305.9	15432.8	14825.4	13141.3
67.5°	12251.0	12482.2	13386.3	15398.3	17220.4	17482.7	17285.9	15902.1	14532.1	11747.1
70°	12451.1	12685.8	13959.2	16309.3	18134.9	18324.7	17862.3	15539.8	12820.4	8506.7
71°	12389.0	12675.4	14069.6	16405.9	18352.3	18493.8	17776.0	14870.3	11529.7	7122.8
72.5°	11826.5	12095.7	13610.7	16336.9	18090.0	18003.7	17103.0	13262.1	9076.1	4541.5
75°	8689.6	8979.4	11681.6	14131.8	16147.1	15553.6	13841.9	9307.3	4734.7	1390.7
77.5°	4327.5	4375.8	7250.5	10259.8	11843.8	11253.6	9276.2	5190.3	1770.4	410.7
80°	1994.7	2008.5	2719.4	5314.5	7160.8	6739.8	5197.2	2560.6	800.6	217.4
82.5°	1359.7	1380.4	1639.2	2201.7	3109.3	2622.7	2105.1	1639.2	459.0	131.1
85°	248.5	227.8	918.0	1166.4	1200.9	814.4	728.2	1418.4	172.5	75.9
87.5°	0.0	3.5	127.7	476.2	427.9	189.8	248.5	345.1	17.3	24.2
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°
4579.4	0°	4579.4	4579.4	4579.4	4579.4	4579.4	4579.4	4579.4	4579.4	4579.4	4579.4
4631.2	2.5°	4572.5	4534.6	4406.9	4265.4	4137.7	4037.6	3910.0	3851.3	3758.1	3706.3
4620.9	5°	4507.0	4403.4	4182.6	3944.5	3678.7	3457.9	3212.9	3074.8	2916.1	2867.8
4524.2	7.5°	4396.5	4248.2	3923.8	3589.0	3181.8	2791.8	2491.6	2170.7	1974.0	1891.1
4451.8	10°	4327.5	4148.1	3706.3	3206.0	2636.5	2087.8	1666.8	1325.2	1145.7	1059.4
4469.0	12.5°	4327.5	4134.3	3530.3	2840.2	2084.4	1428.7	1031.8	835.1	776.5	755.8
4544.9	15°	4317.2	4106.7	3361.3	2464.0	1542.6	959.4	769.6	728.2	721.3	717.8
4617.4	17.5°	4368.9	4058.3	3188.7	2060.2	1090.5	755.8	707.5	700.5	693.6	693.6
4662.3	20°	4406.9	4030.7	2981.6	1632.3	814.4	700.5	679.8	669.5	666.0	662.6
4672.6	22.5°	4375.8	3989.3	2726.3	1221.6	710.9	666.0	652.2	641.9	635.0	635.0
4779.6	25°	4434.5	3951.4	2470.9	921.4	666.0	635.0	621.2	614.3	610.8	607.4
4903.8	27.5°	4513.9	3968.6	2167.2	742.0	628.1	603.9	590.1	583.2	579.8	572.9
5097.1	30°	4610.5	3965.2	1832.5	648.8	593.6	569.4	555.6	552.2	545.3	541.8
5387.0	32.5°	4776.2	4054.9	1487.4	600.5	555.6	534.9	521.1	517.6	514.2	510.7
5883.9	35°	5131.6	4165.3	1163.0	562.5	521.1	496.9	486.6	479.7	476.2	472.8
6463.7	37.5°	5569.9	4410.3	886.9	528.0	486.6	462.4	452.1	448.6	434.8	431.4
7267.8	40°	6118.6	4672.6	683.3	490.0	455.5	431.4	421.0	410.7	393.4	386.5
8089.1	42.5°	6801.9	4928.0	562.5	455.5	421.0	403.8	386.5	369.3	355.5	341.6
8910.4	45°	7485.2	5224.8	493.5	424.5	393.4	372.7	358.9	334.7	310.6	289.9
9686.9	47.5°	8054.6	5331.8	452.1	390.0	365.8	348.5	327.8	296.8	262.3	241.6
10252.9	50°	8479.1	5269.6	410.7	355.5	334.7	317.5	289.9	251.9	217.4	196.7
10453.0	52.5°	8561.9	4997.0	372.7	327.8	303.7	283.0	251.9	210.5	172.5	151.8
10670.4	55°	8503.2	4544.9	341.6	303.7	276.1	245.0	210.5	169.1	134.6	113.9
10587.6	57.5°	8382.4	4010.0	307.1	272.6	241.6	210.5	172.5	138.0	100.1	79.4
10397.8	60°	7971.8	3281.9	272.6	238.1	207.1	179.5	141.5	100.1	69.0	51.8
10066.5	62.5°	7398.9	2522.7	238.1	203.6	179.5	148.4	110.4	72.5	41.4	27.6
9134.7	65°	6353.2	1766.9	200.2	169.1	148.4	120.8	82.8	44.9	24.2	10.4
7440.3	67.5°	4827.9	1094.0	165.6	141.5	127.7	96.6	58.7	27.6	10.4	3.5
4641.6	70°	2771.1	569.4	131.1	113.9	100.1	72.5	41.4	13.8	6.9	0.0
3385.4	71°	1936.0	421.0	117.3	100.1	89.7	65.6	34.5	10.4	3.5	0.0
1749.6	72.5°	969.7	279.5	100.1	82.8	72.5	51.8	27.6	10.4	3.5	0.0
510.7	75°	345.1	179.5	69.0	55.2	51.8	38.0	17.3	6.9	3.5	0.0
255.4	77.5°	238.1	144.9	48.3	34.5	34.5	24.2	10.4	3.5	3.5	0.0
200.2	80°	217.4	79.4	31.1	20.7	17.3	13.8	6.9	3.5	0.0	0.0
196.7	82.5°	217.4	58.7	17.3	13.8	10.4	6.9	3.5	0.0	0.0	0.0
172.5	85°	151.8	31.1	10.4	10.4	6.9	3.5	0.0	0.0	0.0	0.0
31.1	87.5°	24.2	10.4	6.9	3.5	3.5	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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