

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: P575382

Luminaire Tested: **EPH-VN-04-750-U-SL2-HSS**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575382
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-04-750-U-SL2-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL2 distribution lens and House Side Shield
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

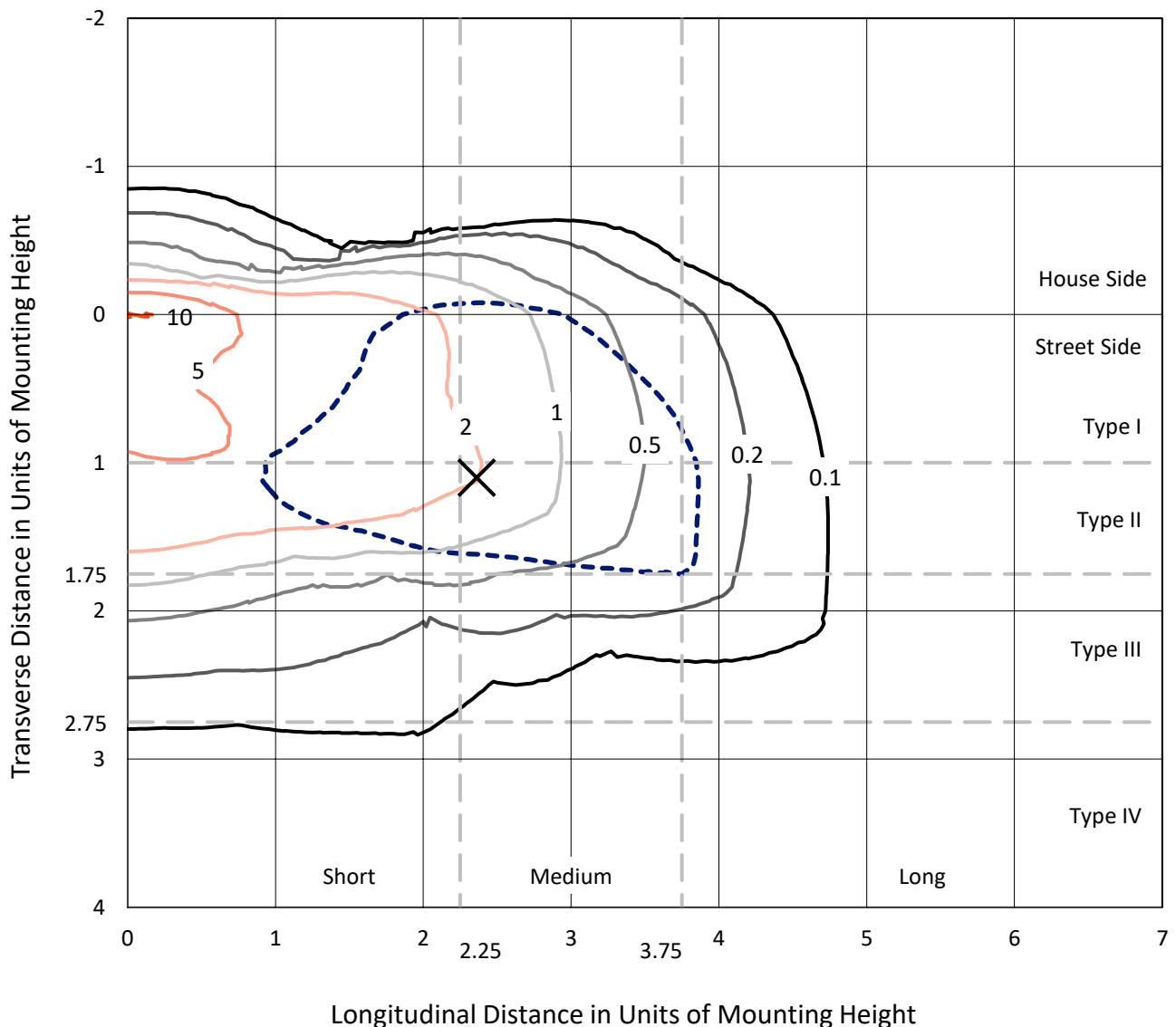
Lumens per Lamp: N/A
Luminaire Lumens: 25443.6 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

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

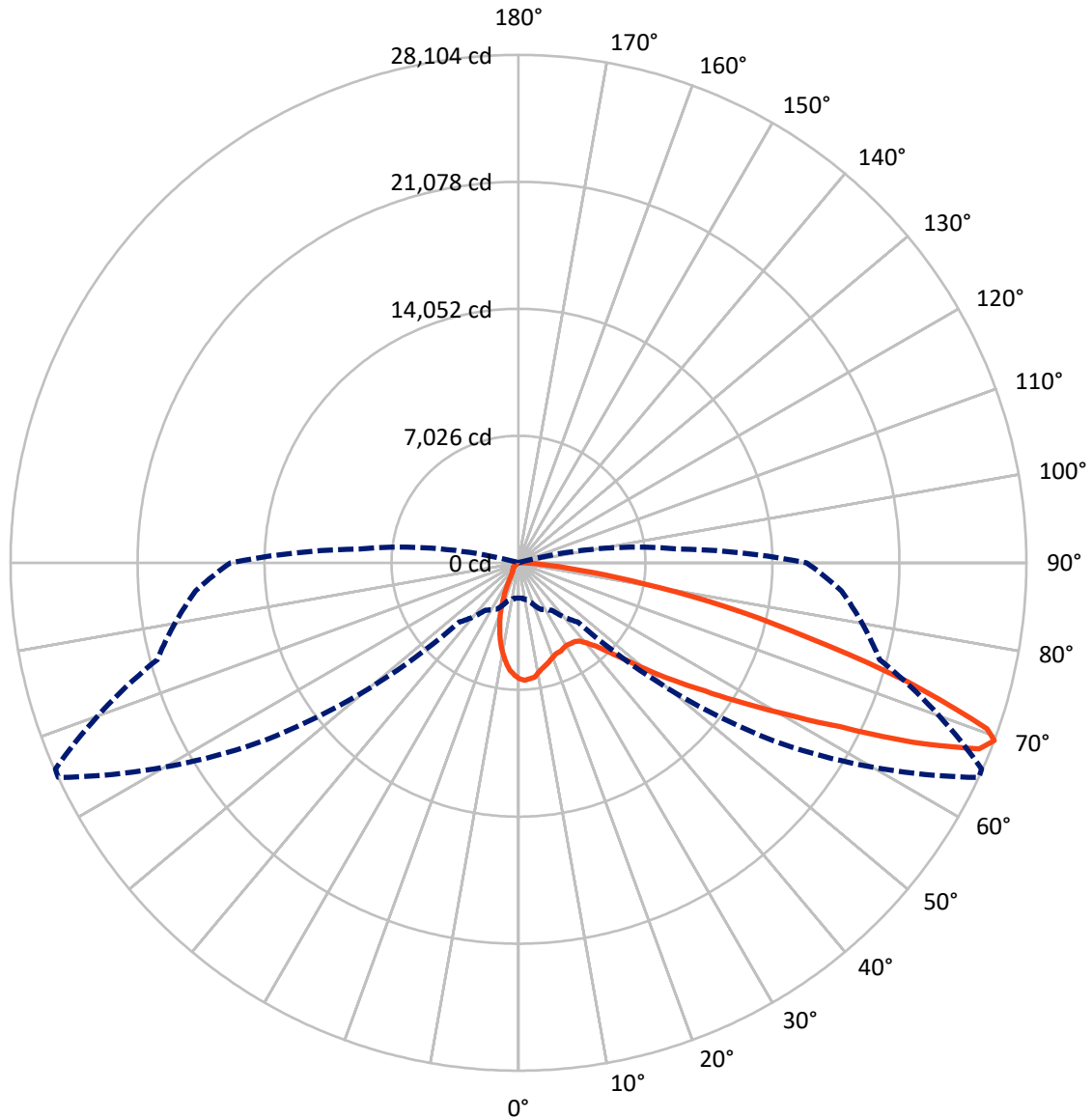
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 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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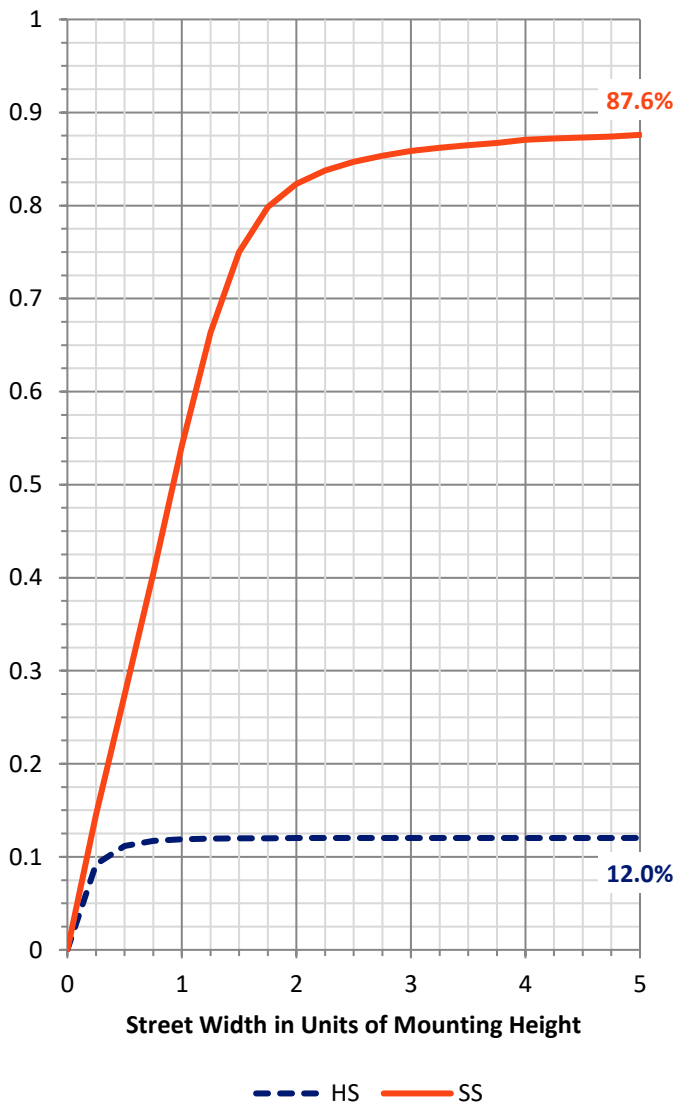
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3086.5	0.0	3086.5
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	22357.1	0.0	22357.1
	% Fixture	87.9	0.0	87.9
Total	Lumens	25443.6	0.0	25443.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	524.9	2.1
10°-20°	1148.6	4.5
20°-30°	1599.1	6.3
30°-40°	2266.1	8.9
40°-50°	3571.2	14.0
50°-60°	5794.9	22.8
60°-70°	6471.7	25.4
70°-80°	3644.3	14.3
80°-90°	422.9	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°	25443.6	100.0
0°-180°	25443.6	100.0



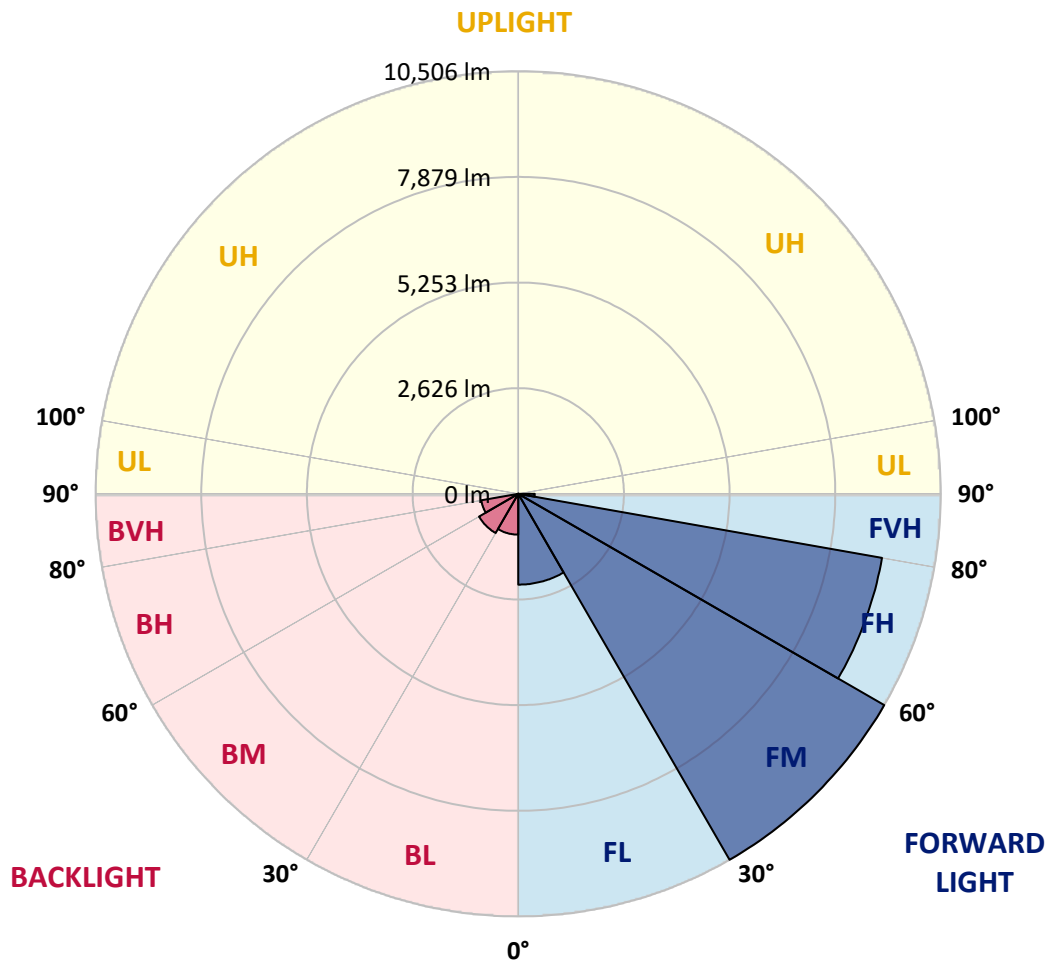
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2257.9	8.9			
FM (30°-60°)	10505.9	41.3			
FH (60°-80°)	9182.1	36.1			G4/12000
FVH (80°-90°)	411.2	1.6			G3/500
BL (0°-30°)	1014.7	4.0	B3/2500		
BM (30°-60°)	1126.2	4.4	B2/2500		
BH (60°-80°)	933.8	3.7	B2/1000		G2/1000
BVH (80°-90°)	11.7	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-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	6414.9	6414.9	6414.9	6414.9	6414.9	6414.9	6414.9	6414.9	6414.9	6414.9
2.5°	6178.1	6226.1	6239.9	6287.9	6311.9	6414.9	6473.3	6507.6	6490.4	6528.2
5°	5738.8	5711.3	5783.4	5834.9	5944.7	6123.2	6305.1	6445.8	6511.0	6572.8
7.5°	5268.5	5254.8	5326.9	5443.6	5543.1	5759.4	6051.1	6397.8	6384.0	6535.0
10°	4945.9	4959.6	4983.7	5100.4	5247.9	5467.6	5831.4	6154.1	6226.1	6545.3
12.5°	4650.7	4674.8	4719.4	4839.5	5011.1	5237.6	5591.2	5968.7	6078.6	6487.0
15°	4554.6	4499.7	4588.9	4678.2	4856.7	5059.2	5357.8	5828.0	5876.1	6418.4
17.5°	4475.7	4441.4	4482.5	4554.6	4743.4	4908.2	5189.6	5677.0	5766.2	6390.9
20°	4499.7	4468.8	4486.0	4540.9	4626.7	4781.2	5042.0	5532.8	5628.9	6263.9
22.5°	4568.4	4592.4	4561.5	4575.2	4602.7	4681.6	4963.1	5429.9	5512.2	6239.9
25°	4877.3	4836.1	4794.9	4777.7	4616.4	4650.7	4939.0	5423.0	5481.3	6154.1
27.5°	5199.9	5165.6	5148.4	5048.9	4829.2	4726.2	4942.5	5326.9	5405.8	6119.7
30°	5591.2	5635.8	5567.1	5447.0	5141.5	4887.6	4980.2	5278.8	5388.7	5989.3
32.5°	6003.0	6027.1	6061.4	5972.2	5577.4	5131.2	5093.5	5323.5	5330.3	5989.3
35°	6469.8	6435.5	6524.8	6531.6	6185.0	5563.7	5309.7	5354.3	5426.4	5961.9
37.5°	6871.4	6929.8	7032.7	7197.5	6840.5	6174.7	5646.1	5498.5	5529.4	6088.9
40°	7310.7	7369.1	7602.5	7767.2	7564.7	6861.1	6157.5	5834.9	5858.9	6277.6
42.5°	7794.7	7908.0	8186.0	8474.3	8419.4	7732.9	6816.5	6329.1	6318.8	6747.8
45°	8450.3	8601.3	8903.3	9236.2	9284.3	8731.7	7695.2	7067.1	7101.4	7362.2
47.5°	9363.2	9356.4	9651.6	10022.2	10300.3	9768.2	8745.4	8059.0	8055.5	8333.6
50°	10245.3	10248.8	10327.7	10756.7	11477.5	11206.4	10046.3	9377.0	9339.2	9476.5
52.5°	10653.8	10605.7	10547.4	11065.6	12383.6	13018.6	11693.8	10870.0	10839.1	10756.7
55°	10224.7	10241.9	10238.5	10777.3	12860.7	14930.4	13808.0	12514.1	12462.6	12205.2
57.5°	8848.4	8793.5	8913.6	9754.5	12315.0	16234.7	16831.9	14587.2	14453.3	13598.7
60°	6586.5	6603.7	6703.2	7695.2	10959.2	16509.2	19725.3	17020.6	16444.0	14580.3
62.5°	4599.2	4564.9	4602.7	5158.7	7835.9	15410.9	21681.7	19979.3	19423.2	15695.8
65°	3291.5	3246.9	3398.0	3737.7	4705.6	11783.0	21959.7	23919.5	23421.8	17477.1
67.5°	2368.3	2361.4	2536.4	3154.3	3343.0	6785.6	19900.3	27489.1	27187.0	19591.4
69°	1959.8	1963.3	2131.4	2824.8	3192.0	4633.6	17123.6	28103.5	28048.5	20682.9
70°	1709.3	1723.0	1918.6	2629.1	3130.2	3809.8	14762.2	27499.4	27444.5	20895.7
72.5°	1053.7	1064.0	1321.4	2107.4	2975.8	3109.6	8827.8	22498.5	22687.3	19920.9
75°	504.5	508.0	693.3	1523.9	2869.4	2948.3	4729.7	16601.9	17000.0	16083.6
77.5°	267.7	267.7	332.9	810.0	2323.6	2773.3	2807.6	11710.9	12040.4	10169.8
80°	133.9	137.3	202.5	422.2	1441.6	2718.4	2193.2	6984.7	7163.2	4149.6
82.5°	51.5	54.9	96.1	254.0	748.2	2296.2	1925.5	3435.7	3391.1	971.3
85°	6.9	6.9	34.3	151.0	319.2	1012.5	1589.1	1434.7	1386.6	212.8
87.5°	0.0	0.0	6.9	44.6	96.1	295.2	614.4	394.7	439.3	58.3
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°
6414.9	0°	6414.9	6414.9	6414.9	6414.9	6414.9	6414.9	6414.9	6414.9	6414.9	6414.9
6531.6	2.5°	6514.5	6442.4	6332.5	6226.1	6112.9	5975.6	5824.6	5769.7	5673.5	5666.7
6562.5	5°	6507.6	6390.9	6198.7	5972.2	5649.5	5405.8	5141.5	4949.3	4801.7	4705.6
6579.7	7.5°	6541.9	6401.2	6068.3	5580.9	5165.6	4681.6	4273.2	3991.7	3734.3	3607.3
6634.6	10°	6487.0	6298.2	5810.8	5127.8	4516.9	3840.7	3243.5	2865.9	2481.5	2340.8
6665.5	12.5°	6517.9	6253.6	5532.8	4661.0	3820.1	2941.5	2227.5	1712.7	1352.3	1235.6
6717.0	15°	6538.5	6157.5	5265.1	4101.6	3047.9	2004.4	1290.5	971.3	858.1	837.5
6710.1	17.5°	6459.5	6040.8	4887.6	3549.0	2258.4	1218.5	858.1	792.9	772.3	758.5
6699.8	20°	6456.1	5972.2	4561.5	2982.6	1506.8	830.6	741.4	717.3	686.5	676.2
6758.1	22.5°	6397.8	5828.0	4170.2	2361.4	961.0	713.9	665.9	628.1	593.8	580.1
6710.1	25°	6380.6	5659.8	3803.0	1774.5	731.1	638.4	590.4	535.4	494.2	473.7
6651.7	27.5°	6332.5	5515.7	3432.3	1249.3	638.4	569.8	508.0	449.6	401.6	370.7
6614.0	30°	6160.9	5364.6	3020.4	864.9	580.1	504.5	435.9	367.3	319.2	298.6
6528.2	32.5°	6088.9	5223.9	2570.8	665.9	528.6	446.2	367.3	305.5	267.7	247.1
6497.3	35°	6003.0	5018.0	2134.9	580.1	480.5	387.8	308.9	257.4	226.5	209.4
6521.3	37.5°	6013.3	4853.2	1726.4	525.1	429.0	332.9	264.3	219.7	192.2	175.0
6644.9	40°	5982.5	4722.8	1342.0	477.1	381.0	284.9	223.1	185.3	161.3	144.2
6898.9	42.5°	6123.2	4688.5	1012.5	435.9	332.9	243.7	192.2	157.9	133.9	113.3
7424.0	45°	6360.0	4743.4	789.4	398.1	284.9	209.4	164.7	130.4	106.4	92.7
8203.1	47.5°	6991.5	4959.6	617.8	367.3	243.7	181.9	137.3	106.4	85.8	72.1
9267.1	50°	7908.0	5443.6	525.1	322.6	205.9	154.5	113.3	82.4	68.6	54.9
10701.8	52.5°	9212.2	6257.0	477.1	284.9	171.6	127.0	89.2	65.2	51.5	41.2
12280.7	55°	10633.2	7273.0	432.5	240.3	144.2	103.0	72.1	51.5	37.8	27.5
13427.1	57.5°	11741.8	8151.6	394.7	199.1	116.7	82.4	54.9	37.8	27.5	17.2
14343.5	60°	12953.4	8769.5	346.7	157.9	96.1	61.8	41.2	27.5	20.6	10.3
15558.5	62.5°	14202.7	9493.7	284.9	123.6	75.5	48.1	30.9	20.6	13.7	3.4
17147.6	65°	15939.5	10060.0	219.7	96.1	58.3	34.3	24.0	17.2	6.9	0.0
18115.5	67.5°	16430.3	9782.0	161.3	75.5	41.2	24.0	17.2	10.3	3.4	0.0
17933.6	69°	15939.5	8810.6	140.7	65.2	34.3	20.6	13.7	6.9	3.4	0.0
17333.0	70°	15043.7	8055.5	123.6	54.9	30.9	20.6	10.3	6.9	3.4	0.0
14933.8	72.5°	12582.7	6178.1	96.1	41.2	24.0	17.2	10.3	6.9	0.0	0.0
11669.7	75°	9229.4	3816.7	72.1	30.9	20.6	13.7	10.3	6.9	0.0	0.0
6634.6	77.5°	4945.9	1393.5	51.5	20.6	13.7	10.3	10.3	6.9	0.0	0.0
2066.2	80°	1355.7	411.9	37.8	13.7	10.3	6.9	6.9	3.4	0.0	0.0
504.5	82.5°	370.7	106.4	24.0	13.7	10.3	6.9	3.4	0.0	0.0	0.0
243.7	85°	199.1	41.2	13.7	10.3	6.9	3.4	0.0	0.0	0.0	0.0
120.1	87.5°	103.0	13.7	10.3	6.9	6.9	3.4	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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