

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: P575369

Luminaire Tested: **EPH-VN-03-735-U-SL2-HSS**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575369
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-03-735-U-SL2-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL2 distribution lens and House Side Shield
Light Source: (48) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

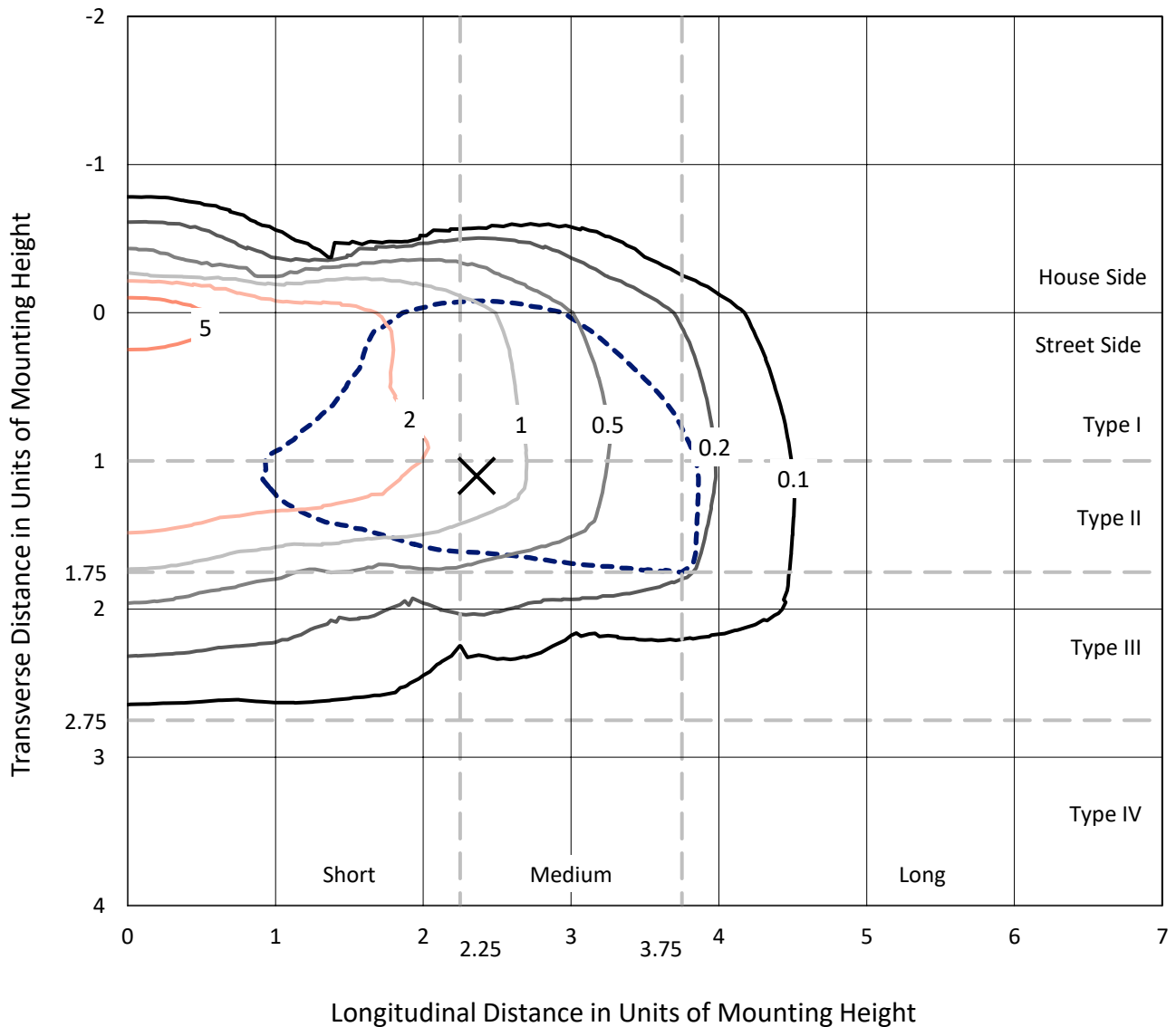
Lumens per Lamp: N/A
Luminaire Lumens: 18920.6 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G3

Input Watts (W): 184.1
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

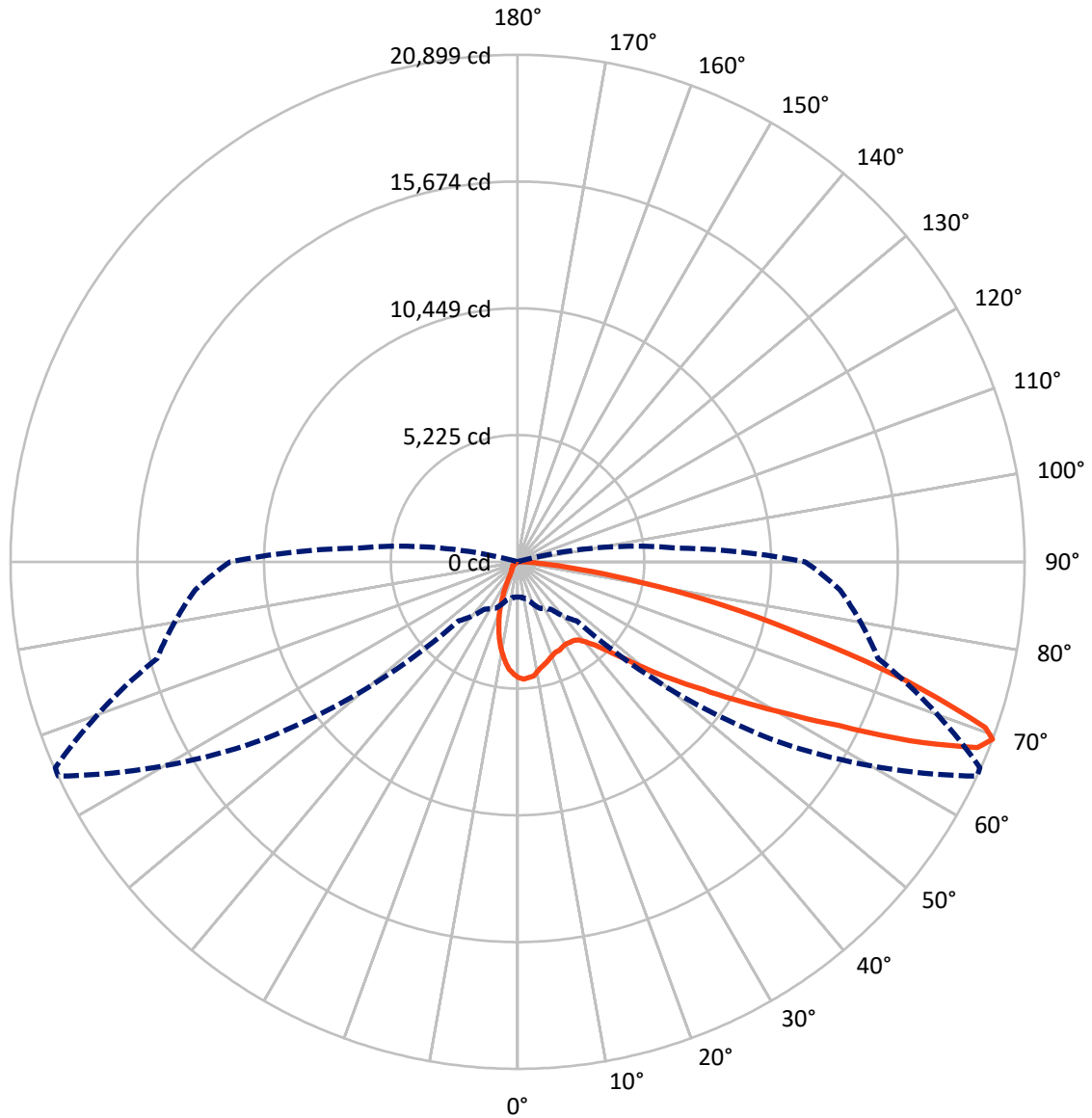
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 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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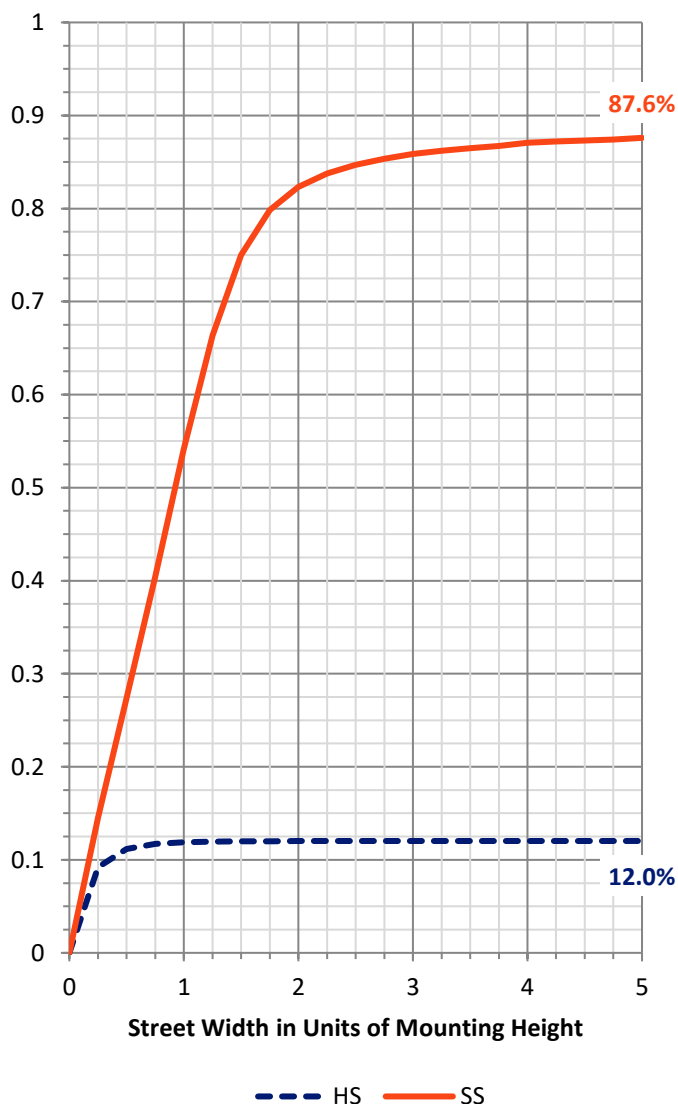
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2295.2	0.0	2295.2
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	16625.4	0.0	16625.4
	% Fixture	87.9	0.0	87.9
Total	Lumens	18920.6	0.0	18920.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	390.4	2.1
10°-20°	854.1	4.5
20°-30°	1189.1	6.3
30°-40°	1685.1	8.9
40°-50°	2655.7	14.0
50°-60°	4309.2	22.8
60°-70°	4812.5	25.4
70°-80°	2710.0	14.3
80°-90°	314.5	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°	18920.6	100.0
0°-180°	18920.6	100.0

Coefficient of Utilization

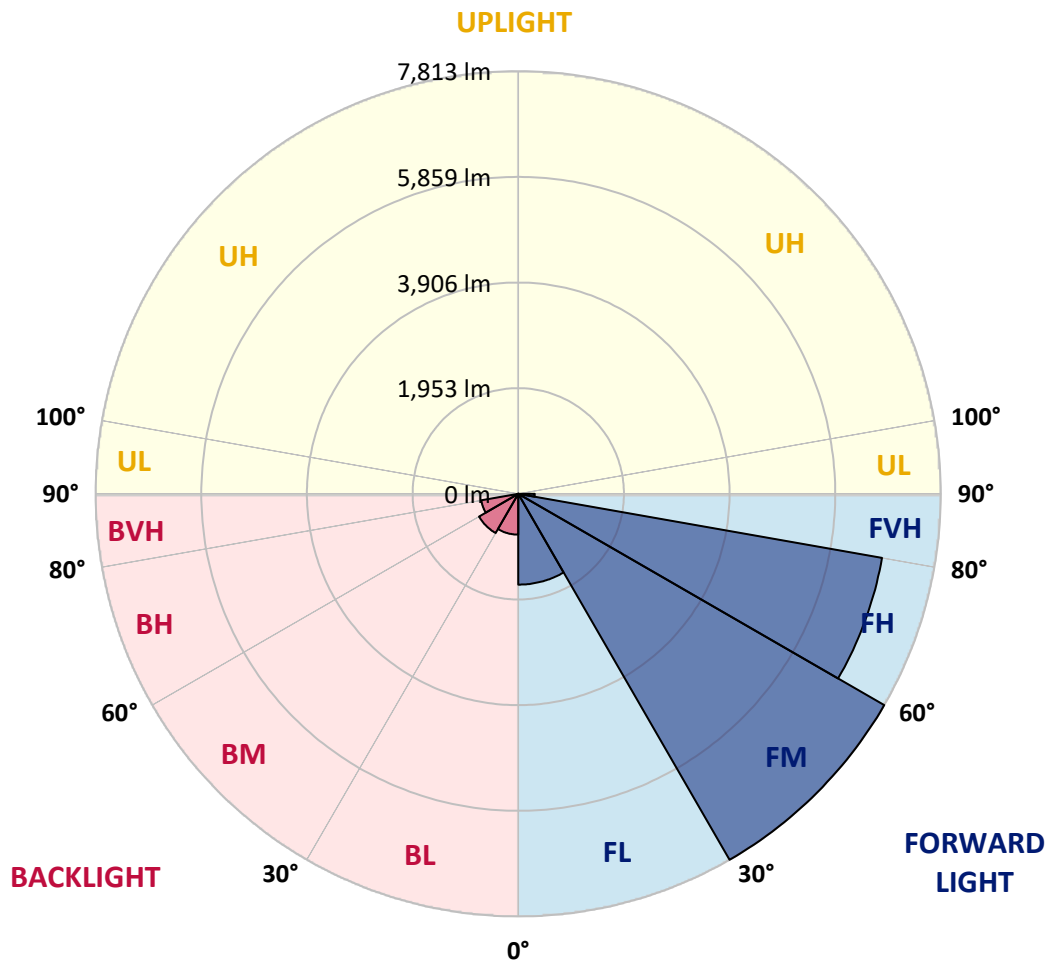


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1679.0	8.9			
FM (30°-60°)	7812.5	41.3			
FH (60°-80°)	6828.1	36.1			G3/7500
FVH (80°-90°)	305.8	1.6			G3/500
BL (0°-30°)	754.6	4.0	B2/1000		
BM (30°-60°)	837.5	4.4	B1/1000		
BH (60°-80°)	694.4	3.7	B2/1000		G2/1000
BVH (80°-90°)	8.7	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-G3
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	4770.3	4770.3	4770.3	4770.3	4770.3	4770.3	4770.3	4770.3	4770.3	4770.3
2.5°	4594.2	4629.9	4640.2	4675.9	4693.8	4770.3	4813.7	4839.2	4826.5	4854.6
5°	4267.5	4247.1	4300.7	4339.0	4420.7	4553.4	4688.7	4793.3	4841.8	4887.7
7.5°	3917.8	3907.6	3961.2	4048.0	4122.0	4282.8	4499.8	4757.6	4747.4	4859.7
10°	3677.9	3688.1	3706.0	3792.8	3902.5	4065.9	4336.4	4576.3	4629.9	4867.3
12.5°	3458.4	3476.3	3509.5	3598.8	3726.4	3894.9	4157.8	4438.5	4520.2	4823.9
15°	3387.0	3346.1	3412.5	3478.8	3611.6	3762.2	3984.2	4333.9	4369.6	4772.9
17.5°	3328.3	3302.7	3333.4	3387.0	3527.3	3649.8	3859.1	4221.6	4287.9	4752.5
20°	3346.1	3323.1	3335.9	3376.7	3440.6	3555.4	3749.4	4114.4	4185.8	4658.0
22.5°	3397.2	3415.0	3392.1	3402.3	3422.7	3481.4	3690.7	4037.8	4099.1	4640.2
25°	3626.9	3596.3	3565.6	3552.9	3432.9	3458.4	3672.8	4032.7	4076.1	4576.3
27.5°	3866.8	3841.3	3828.5	3754.5	3591.1	3514.6	3675.4	3961.2	4019.9	4550.8
30°	4157.8	4190.9	4139.9	4050.6	3823.4	3634.5	3703.4	3925.5	4007.2	4453.8
32.5°	4464.0	4481.9	4507.4	4441.1	4147.6	3815.8	3787.7	3958.7	3963.8	4453.8
35°	4811.2	4785.6	4852.0	4857.1	4599.3	4137.3	3948.5	3981.7	4035.3	4433.4
37.5°	5109.8	5153.2	5229.7	5352.3	5086.8	4591.7	4198.6	4088.9	4111.8	4527.9
40°	5436.5	5479.9	5653.4	5776.0	5625.4	5102.1	4578.9	4339.0	4356.8	4668.2
42.5°	5796.4	5880.6	6087.3	6301.7	6260.9	5750.4	5069.0	4706.5	4698.9	5017.9
45°	6283.9	6396.2	6620.8	6868.4	6904.1	6493.2	5722.4	5255.3	5280.8	5474.8
47.5°	6962.8	6957.7	7177.2	7452.8	7659.6	7264.0	6503.4	5992.9	5990.3	6197.1
50°	7618.7	7621.3	7680.0	7999.0	8535.0	8333.4	7470.7	6973.0	6944.9	7047.0
52.5°	7922.5	7886.7	7843.3	8228.8	9208.9	9681.0	8695.8	8083.3	8060.3	7999.0
55°	7603.4	7616.2	7613.6	8014.4	9563.6	11102.7	10268.1	9305.8	9267.6	9076.1
57.5°	6579.9	6539.1	6628.4	7253.8	9157.8	12072.6	12516.7	10847.5	10747.9	10112.4
60°	4897.9	4910.7	4984.7	5722.4	8149.6	12276.8	14668.3	12657.1	12228.3	10842.3
62.5°	3420.1	3394.6	3422.7	3836.2	5827.0	11460.0	16123.1	14857.2	14443.7	11671.9
65°	2447.7	2414.5	2526.8	2779.5	3499.3	8762.2	16329.9	17787.3	17417.2	12996.5
67.5°	1761.1	1756.0	1886.2	2345.6	2486.0	5046.0	14798.5	20441.7	20217.1	14568.8
69°	1457.4	1459.9	1585.0	2100.6	2373.7	3445.7	12733.6	20898.6	20857.7	15380.4
70°	1271.1	1281.3	1426.8	1955.1	2327.7	2833.1	10977.6	20449.4	20408.5	15538.7
72.5°	783.6	791.2	982.7	1567.1	2212.9	2312.4	6564.6	16730.6	16871.0	14813.8
75°	375.2	377.7	515.6	1133.2	2133.8	2192.5	3517.1	12345.7	12641.8	11960.3
77.5°	199.1	199.1	247.6	602.4	1727.9	2062.3	2087.8	8708.6	8953.6	7562.6
80°	99.5	102.1	150.6	313.9	1072.0	2021.5	1630.9	5194.0	5326.7	3085.8
82.5°	38.3	40.8	71.5	188.9	556.4	1707.5	1431.9	2554.9	2521.7	722.3
85°	5.1	5.1	25.5	112.3	237.4	752.9	1181.7	1066.9	1031.1	158.2
87.5°	0.0	0.0	5.1	33.2	71.5	219.5	456.9	293.5	326.7	43.4
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°
4770.3	0°	4770.3	4770.3	4770.3	4770.3	4770.3	4770.3	4770.3	4770.3	4770.3	4770.3
4857.1	2.5°	4844.3	4790.7	4709.1	4629.9	4545.7	4443.6	4331.3	4290.5	4219.0	4213.9
4880.1	5°	4839.2	4752.5	4609.5	4441.1	4201.2	4019.9	3823.4	3680.5	3570.7	3499.3
4892.8	7.5°	4864.8	4760.1	4512.5	4150.1	3841.3	3481.4	3177.7	2968.4	2776.9	2682.5
4933.7	10°	4823.9	4683.5	4321.1	3813.2	3358.9	2856.1	2412.0	2131.2	1845.3	1740.7
4956.6	12.5°	4846.9	4650.4	4114.4	3466.1	2840.8	2187.4	1656.5	1273.6	1005.6	918.8
4994.9	15°	4862.2	4578.9	3915.3	3050.0	2266.5	1490.6	959.7	722.3	638.1	622.8
4989.8	17.5°	4803.5	4492.1	3634.5	2639.1	1679.4	906.1	638.1	589.6	574.3	564.1
4982.2	20°	4801.0	4441.1	3392.1	2218.0	1120.5	617.7	551.3	533.4	510.5	502.8
5025.6	22.5°	4757.6	4333.9	3101.1	1756.0	714.7	530.9	495.2	467.1	441.6	431.3
4989.8	25°	4744.8	4208.8	2828.0	1319.6	543.6	474.7	439.0	398.2	367.5	352.2
4946.4	27.5°	4709.1	4101.6	2552.3	929.1	474.7	423.7	377.7	334.4	298.6	275.7
4918.4	30°	4581.5	3989.3	2246.1	643.2	431.3	375.2	324.1	273.1	237.4	222.1
4854.6	32.5°	4527.9	3884.7	1911.7	495.2	393.1	331.8	273.1	227.2	199.1	183.8
4831.6	35°	4464.0	3731.5	1587.6	431.3	357.3	288.4	229.7	191.4	168.5	155.7
4849.5	37.5°	4471.7	3609.0	1283.8	390.5	319.0	247.6	196.5	163.3	142.9	130.2
4941.3	40°	4448.7	3512.0	998.0	354.8	283.3	211.8	165.9	137.8	120.0	107.2
5130.2	42.5°	4553.4	3486.5	752.9	324.1	247.6	181.2	142.9	117.4	99.5	84.2
5520.7	45°	4729.5	3527.3	587.0	296.1	211.8	155.7	122.5	97.0	79.1	68.9
6100.1	47.5°	5199.1	3688.1	459.4	273.1	181.2	135.3	102.1	79.1	63.8	53.6
6891.3	50°	5880.6	4048.0	390.5	239.9	153.1	114.9	84.2	61.3	51.0	40.8
7958.2	52.5°	6850.5	4652.9	354.8	211.8	127.6	94.4	66.4	48.5	38.3	30.6
9132.3	55°	7907.2	5408.4	321.6	178.7	107.2	76.6	53.6	38.3	28.1	20.4
9984.8	57.5°	8731.6	6061.8	293.5	148.0	86.8	61.3	40.8	28.1	20.4	12.8
10666.2	60°	9632.5	6521.2	257.8	117.4	71.5	45.9	30.6	20.4	15.3	7.7
11569.8	62.5°	10561.6	7059.8	211.8	91.9	56.2	35.7	23.0	15.3	10.2	2.6
12751.5	65°	11853.1	7480.9	163.3	71.5	43.4	25.5	17.9	12.8	5.1	0.0
13471.3	67.5°	12218.1	7274.2	120.0	56.2	30.6	17.9	12.8	7.7	2.6	0.0
13336.0	69°	11853.1	6551.9	104.6	48.5	25.5	15.3	10.2	5.1	2.6	0.0
12889.3	70°	11186.9	5990.3	91.9	40.8	23.0	15.3	7.7	5.1	2.6	0.0
11105.2	72.5°	9356.9	4594.2	71.5	30.6	17.9	12.8	7.7	5.1	0.0	0.0
8678.0	75°	6863.2	2838.2	53.6	23.0	15.3	10.2	7.7	5.1	0.0	0.0
4933.7	77.5°	3677.9	1036.3	38.3	15.3	10.2	7.7	7.7	5.1	0.0	0.0
1536.5	80°	1008.2	306.3	28.1	10.2	7.7	5.1	5.1	2.6	0.0	0.0
375.2	82.5°	275.7	79.1	17.9	10.2	7.7	5.1	2.6	0.0	0.0	0.0
181.2	85°	148.0	30.6	10.2	7.7	5.1	2.6	0.0	0.0	0.0	0.0
89.3	87.5°	76.6	10.2	7.7	5.1	5.1	2.6	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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