

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: P575409

Luminaire Tested: **EPH-VN-03-735-U-SL3-HSS**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575409
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-SL3-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL3 distribution lens and House Side Shield
Light Source: (48) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

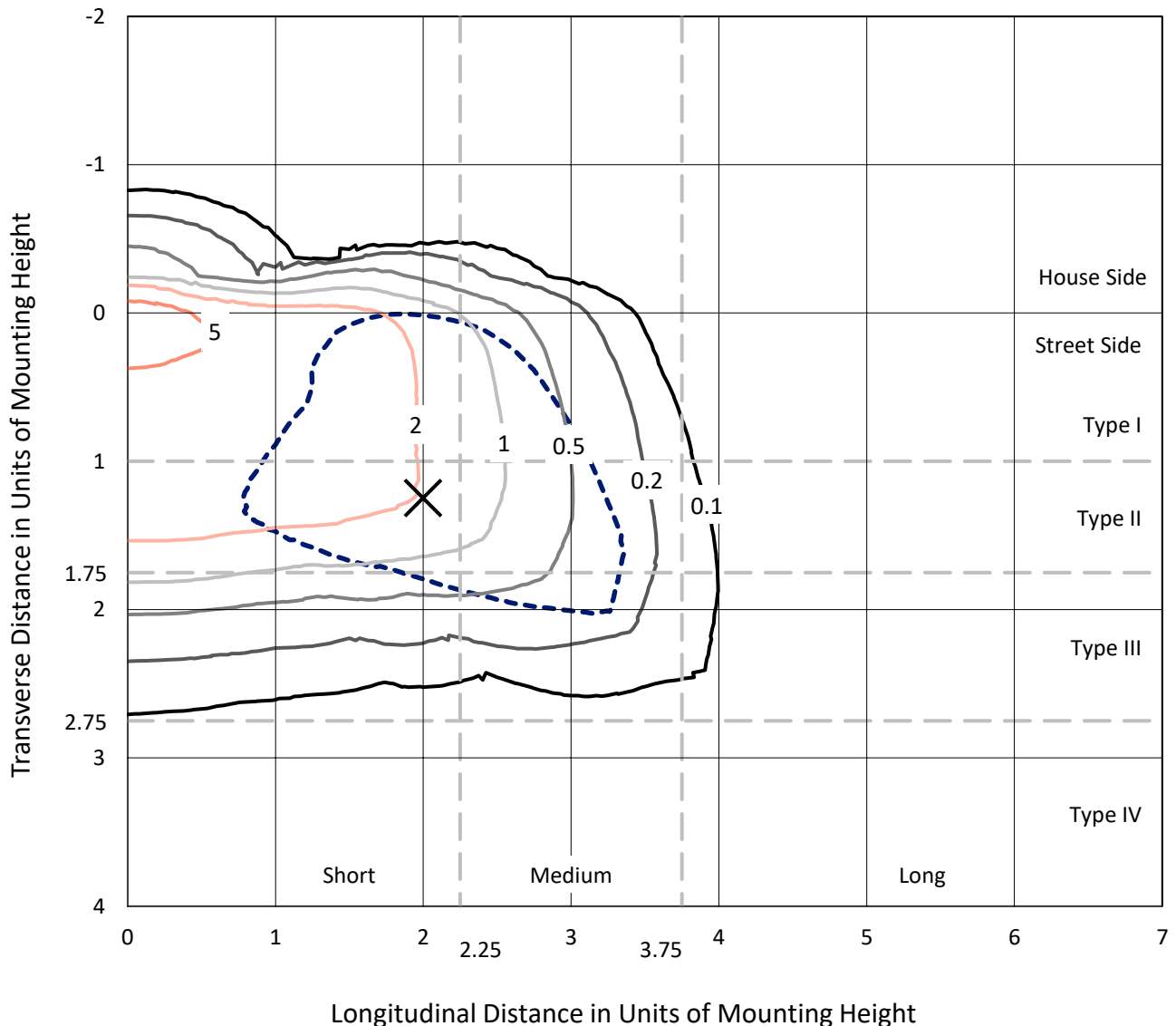
Lumens per Lamp: N/A
Luminaire Lumens: 19225.1 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

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

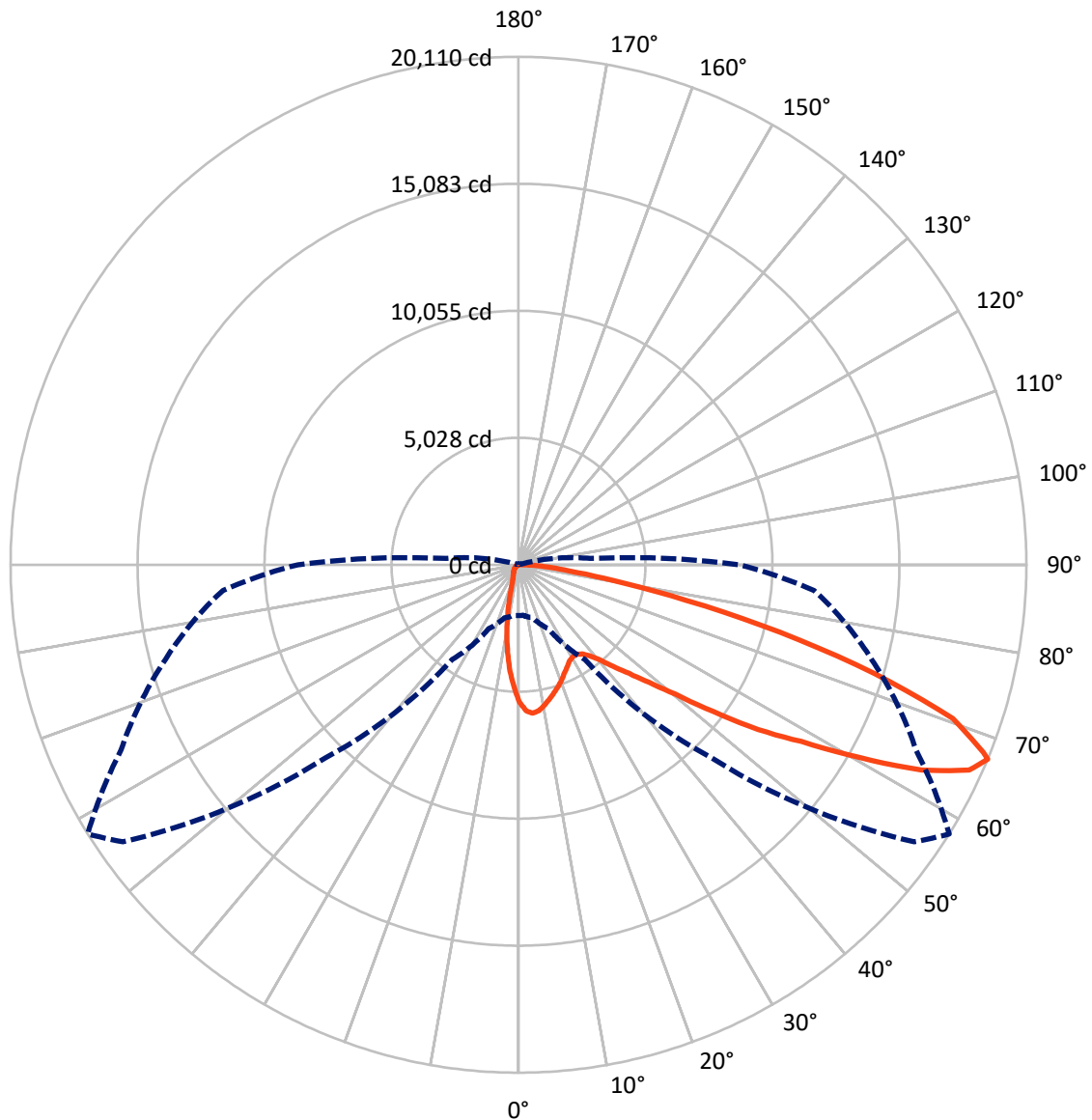
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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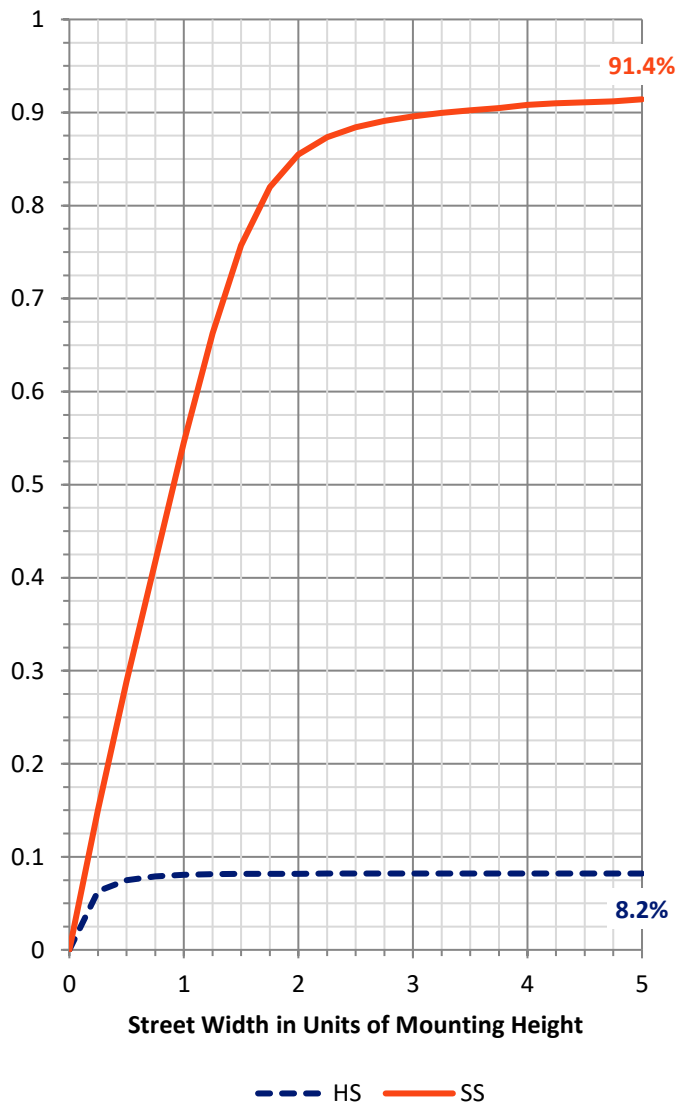
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1589.1	0.0	1589.1
	% Fixture	8.3	0.0	8.3
Street Side	Lumens	17636.0	0.0	17636.0
	% Fixture	91.7	0.0	91.7
Total	Lumens	19225.1	0.0	19225.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	432.2	2.2
10°-20°	896.4	4.7
20°-30°	1189.3	6.2
30°-40°	1648.0	8.6
40°-50°	2689.1	14.0
50°-60°	4726.6	24.6
60°-70°	5235.1	27.2
70°-80°	2169.4	11.3
80°-90°	238.8	1.2
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°	19225.1	100.0
0°-180°	19225.1	100.0

Coefficient of Utilization



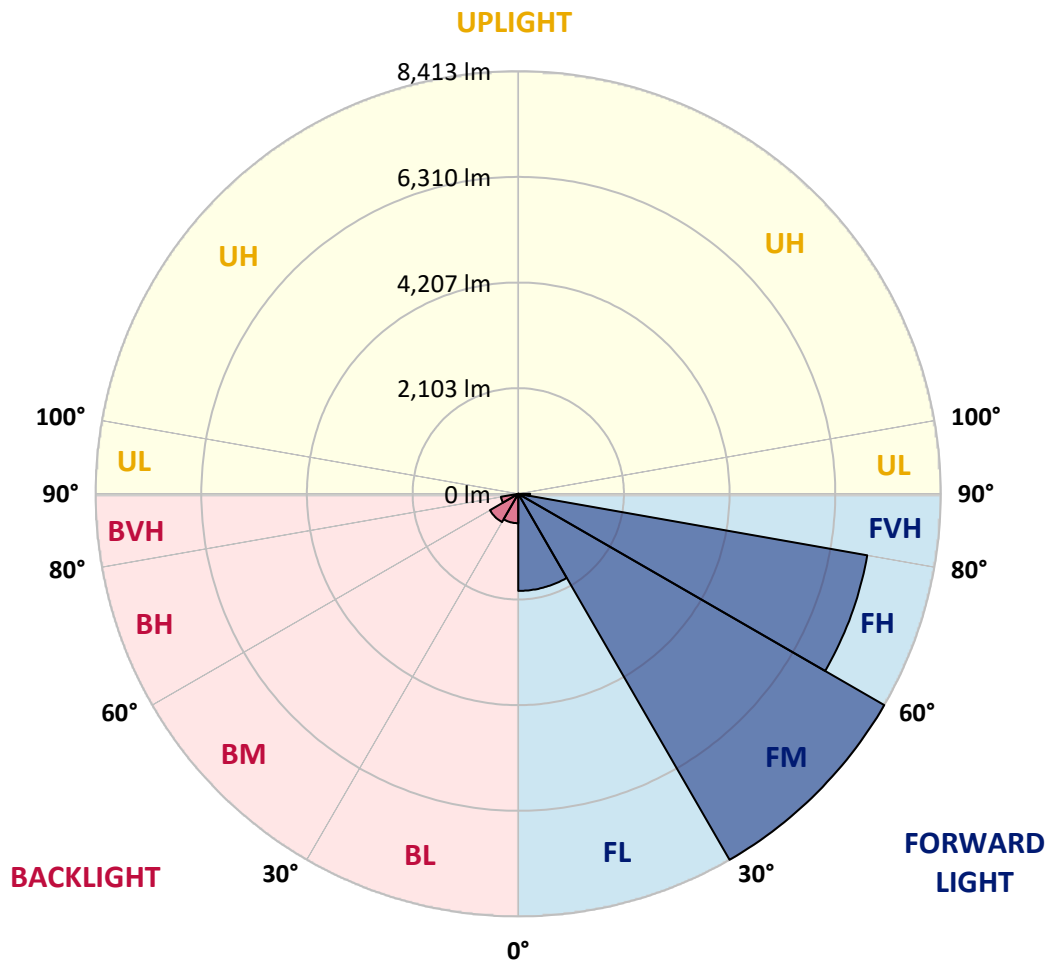
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1932.7	10.1			
FM (30°-60°)	8413.3	43.8			
FH (60°-80°)	7055.2	36.7			G3/7500
FVH (80°-90°)	234.9	1.2			G3/500
BL (0°-30°)	585.3	3.0	B2/1000		
BM (30°-60°)	650.5	3.4	B1/1000		
BH (60°-80°)	349.4	1.8	B1/500		G1/500
BVH (80°-90°)	3.9	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°
0°	5446.7	5446.7	5446.7	5446.7	5446.7	5446.7	5446.7	5446.7	5446.7	5446.7
2.5°	5926.6	5947.0	5964.8	5931.7	5959.7	5918.9	5814.3	5791.3	5773.4	5617.7
5°	5924.0	5901.0	5918.9	5934.2	5895.9	5926.6	5901.0	5903.6	5834.7	5694.3
7.5°	5528.4	5518.2	5528.4	5602.4	5686.6	5753.0	5791.3	5829.6	5783.6	5574.3
10°	4995.0	5046.0	5074.1	5206.8	5337.0	5459.5	5579.4	5650.9	5638.1	5553.9
12.5°	4622.3	4607.0	4709.1	4795.9	4926.0	5173.6	5382.9	5449.3	5525.8	5408.4
15°	4277.7	4236.9	4298.2	4448.7	4670.8	4867.3	5160.9	5260.4	5357.4	5388.0
17.5°	3948.5	3968.9	4032.7	4168.0	4377.3	4652.9	4928.6	5071.5	5303.8	5262.9
20°	3790.2	3833.6	3856.6	3925.5	4071.0	4346.7	4757.6	4872.4	5120.0	5260.4
22.5°	3797.9	3797.9	3744.3	3785.1	3917.9	4132.3	4525.3	4652.9	5046.0	5127.7
25°	3879.6	3828.5	3831.1	3782.6	3838.7	3956.1	4316.0	4471.7	4895.4	5140.4
27.5°	3940.8	3930.6	3915.3	3902.5	3831.1	3848.9	4178.2	4305.8	4836.7	5125.1
30°	4162.9	4116.9	4101.6	4073.6	3979.1	3892.3	4068.4	4229.2	4790.8	5160.9
32.5°	4349.2	4356.9	4369.6	4288.0	4206.3	3991.9	4099.1	4226.7	4757.6	5242.5
35°	4584.0	4617.2	4622.3	4596.8	4510.0	4298.2	4226.7	4336.4	4813.7	5388.0
37.5°	4941.4	4905.6	5002.6	5012.8	4951.6	4670.8	4522.8	4566.2	4979.6	5620.3
40°	5173.6	5217.0	5398.2	5510.5	5405.9	5150.6	4951.6	4943.9	5219.6	5985.3
42.5°	5431.4	5528.4	5727.5	5970.0	5957.2	5719.8	5518.2	5485.0	5645.8	6513.6
45°	5783.6	5870.4	6148.6	6513.6	6712.7	6511.0	6207.3	6141.0	6163.9	7233.4
47.5°	6368.1	6345.1	6745.9	7105.7	7432.4	7276.8	7146.6	6952.6	6934.7	8080.7
50°	7029.2	7024.1	7381.4	7789.8	8167.5	8471.3	8254.3	8042.5	8047.6	9231.9
52.5°	7657.1	7756.6	8142.0	8547.8	9196.1	9522.8	9732.1	9647.9	9242.1	10260.5
55°	7988.9	8075.6	8458.5	9157.8	10181.3	11021.1	11587.7	11516.2	10732.6	11419.2
57.5°	7674.9	7733.6	8251.8	9168.0	10870.5	12743.9	13287.5	13198.2	12274.3	12304.9
60°	6360.5	6452.3	7223.2	8297.7	10602.5	14071.1	15628.1	15492.8	13678.1	13425.4
62.5°	4405.4	4466.6	5099.6	6437.0	9331.4	14533.1	17838.4	17912.4	15158.4	14298.3
65°	2853.5	2848.4	3210.9	4116.9	6613.1	13134.4	19145.2	19604.6	16587.7	14431.0
67°	2016.4	2008.7	2179.7	2792.3	4578.9	10822.0	19122.2	20110.0	17363.7	14469.3
67.5°	1860.7	1853.0	2016.4	2567.7	4132.3	10063.9	18836.4	19849.6	17636.8	14415.7
70°	1444.6	1424.2	1485.5	1768.8	2406.9	6508.5	16120.7	18234.0	17070.1	13078.3
72.5°	1043.9	1066.9	1163.9	1452.3	1888.7	3501.8	12287.0	14744.9	14257.4	9857.2
75°	727.4	747.8	903.5	1184.3	1733.0	2123.6	8307.9	10694.4	9931.2	5441.6
77.5°	380.3	405.8	576.8	946.9	1574.8	1643.7	4964.3	6781.6	5262.9	1937.2
80°	176.1	188.9	288.4	671.3	1317.0	1444.6	2894.4	3772.4	2105.7	433.9
82.5°	76.6	84.2	132.7	385.4	934.2	1263.4	1791.8	1978.1	763.2	140.4
85°	15.3	17.9	51.0	204.2	451.8	765.7	1258.3	1174.1	382.9	68.9
87.5°	0.0	0.0	12.8	58.7	122.5	227.2	533.4	533.4	117.4	35.7
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°
5446.7	0°	5446.7	5446.7	5446.7	5446.7	5446.7	5446.7	5446.7	5446.7	5446.7	5446.7
5528.4	2.5°	5449.3	5357.4	5155.8	4969.4	4836.7	4686.1	4487.0	4397.7	4364.5	4318.6
5444.2	5°	5306.3	5194.0	4849.5	4502.3	4122.0	3833.6	3527.4	3348.7	3213.4	3129.2
5331.9	7.5°	5104.7	4875.0	4410.5	3854.1	3361.4	2932.7	2468.1	2154.2	1952.5	1870.9
5209.4	10°	4943.9	4645.3	3938.3	3246.6	2590.6	1962.8	1439.5	1163.9	954.6	875.5
5048.6	12.5°	4734.6	4377.3	3496.7	2626.4	1802.0	1169.0	796.3	691.7	633.0	622.8
4961.8	15°	4561.1	4134.8	3078.1	2034.2	1166.4	730.0	620.2	594.7	579.4	574.3
4831.6	17.5°	4443.6	3874.5	2649.3	1480.4	768.3	597.3	571.7	556.4	548.8	546.2
4704.0	20°	4211.4	3655.0	2225.7	1036.3	599.8	551.3	530.9	518.1	510.5	507.9
4589.1	22.5°	4078.7	3376.8	1802.0	722.3	533.4	500.3	484.9	474.7	462.0	454.3
4527.9	25°	3945.9	3172.6	1424.2	561.5	484.9	462.0	439.0	426.2	405.8	395.6
4433.4	27.5°	3790.2	2970.9	1097.5	487.5	436.5	413.5	390.5	370.1	344.6	334.4
4379.8	30°	3700.9	2774.4	827.0	436.5	400.7	370.1	342.0	316.5	288.4	270.5
4433.4	32.5°	3655.0	2595.7	620.2	398.2	362.4	329.3	293.5	262.9	237.4	222.1
4438.5	35°	3598.8	2422.2	487.5	362.4	326.7	291.0	255.2	224.6	199.1	186.3
4632.5	37.5°	3657.5	2320.1	405.8	334.4	298.6	257.8	219.5	188.9	168.5	155.7
4872.4	40°	3818.3	2235.9	352.2	308.8	270.5	227.2	191.4	160.8	142.9	132.7
5252.7	42.5°	4065.9	2235.9	319.0	283.3	245.0	199.1	163.4	140.4	122.5	112.3
5901.0	45°	4515.1	2304.8	291.0	257.8	214.4	171.0	140.4	117.4	99.5	89.3
6796.9	47.5°	5145.5	2463.0	268.0	234.8	191.4	150.6	122.5	99.5	81.7	71.5
7851.0	50°	5992.9	2822.9	245.0	206.7	171.0	130.2	102.1	79.1	63.8	53.6
8979.2	52.5°	7049.6	3333.4	222.1	191.4	145.5	109.8	81.7	63.8	48.5	40.8
10092.0	55°	8167.5	3958.7	194.0	171.0	125.1	91.9	66.4	48.5	35.7	30.6
11437.1	57.5°	9293.1	4441.1	171.0	148.0	102.1	74.0	53.6	38.3	25.5	20.4
12302.3	60°	9890.4	4487.0	148.0	122.5	81.7	58.7	40.8	28.1	17.9	12.8
12560.1	62.5°	9982.2	4078.7	127.6	99.5	66.4	45.9	28.1	20.4	10.2	5.1
12481.0	65°	9510.1	3399.7	109.8	79.1	51.0	33.2	20.4	12.8	5.1	2.6
11748.5	67°	8744.4	2848.4	94.4	66.4	40.8	25.5	15.3	7.7	2.6	0.0
11426.9	67.5°	8448.3	2695.3	89.3	61.3	38.3	23.0	12.8	7.7	2.6	0.0
9124.7	70°	6557.0	1924.5	66.4	43.4	28.1	17.9	10.2	5.1	0.0	0.0
5798.9	72.5°	4017.4	1125.6	51.0	30.6	20.4	12.8	7.7	2.6	0.0	0.0
2470.7	75°	1684.6	388.0	43.4	23.0	15.3	7.7	5.1	2.6	0.0	0.0
681.5	77.5°	439.0	145.5	30.6	15.3	10.2	7.7	5.1	2.6	0.0	0.0
234.8	80°	178.7	66.4	20.4	10.2	10.2	7.7	5.1	2.6	0.0	0.0
145.5	82.5°	117.4	30.6	12.8	10.2	7.7	5.1	2.6	0.0	0.0	0.0
114.9	85°	89.3	17.9	7.7	7.7	5.1	2.6	0.0	0.0	0.0	0.0
43.4	87.5°	38.3	10.2	7.7	5.1	5.1	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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