

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: P575375

Luminaire Tested: **EPH-VN-03-740-U-SL2-HSS**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575375
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-03-740-U-SL2-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL2 distribution lens and House Side Shield
Light Source: (48) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19183.4 lumens
Efficiency: N/A
Efficacy: 104.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G3

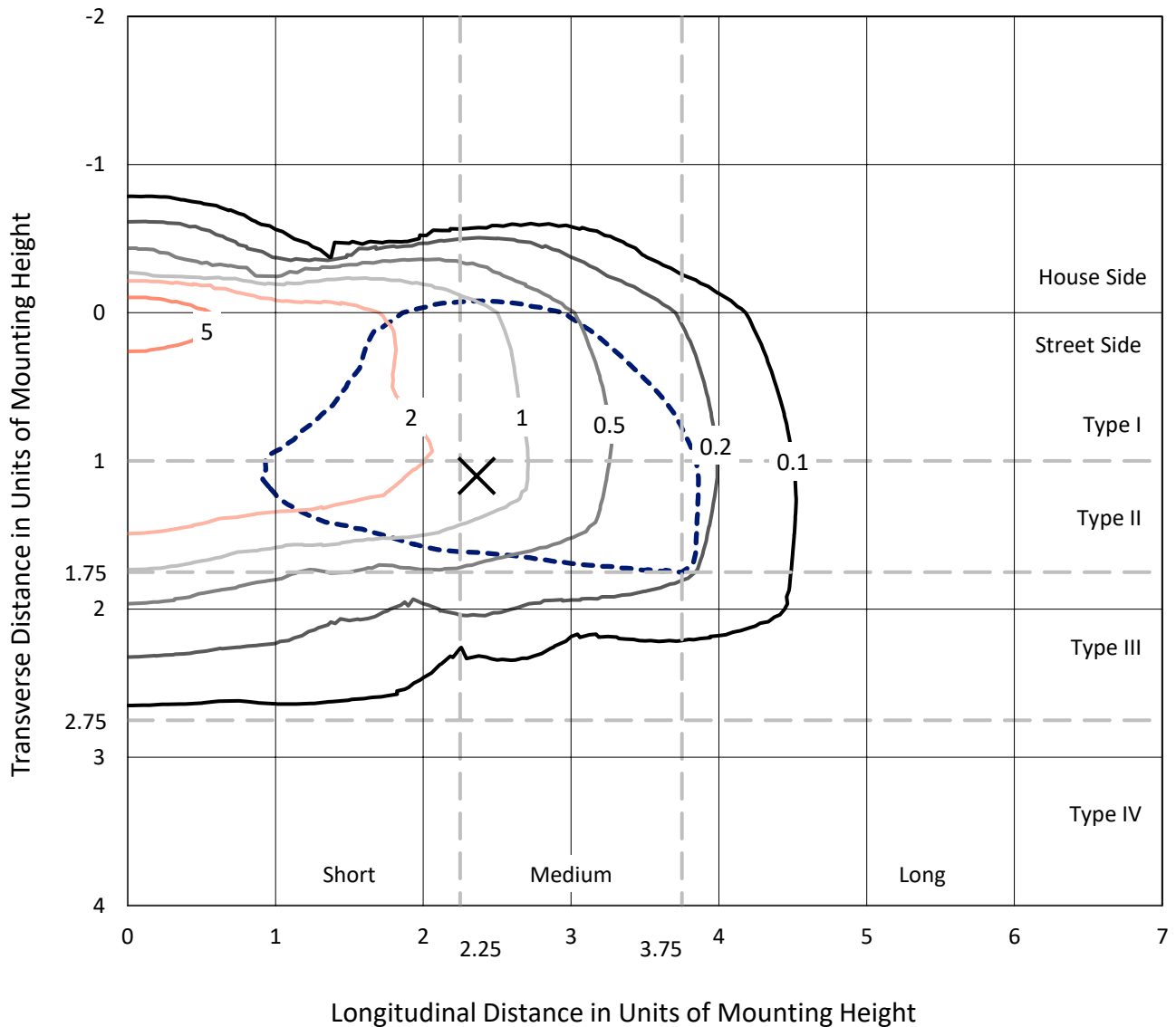
Input Watts (W): 184.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

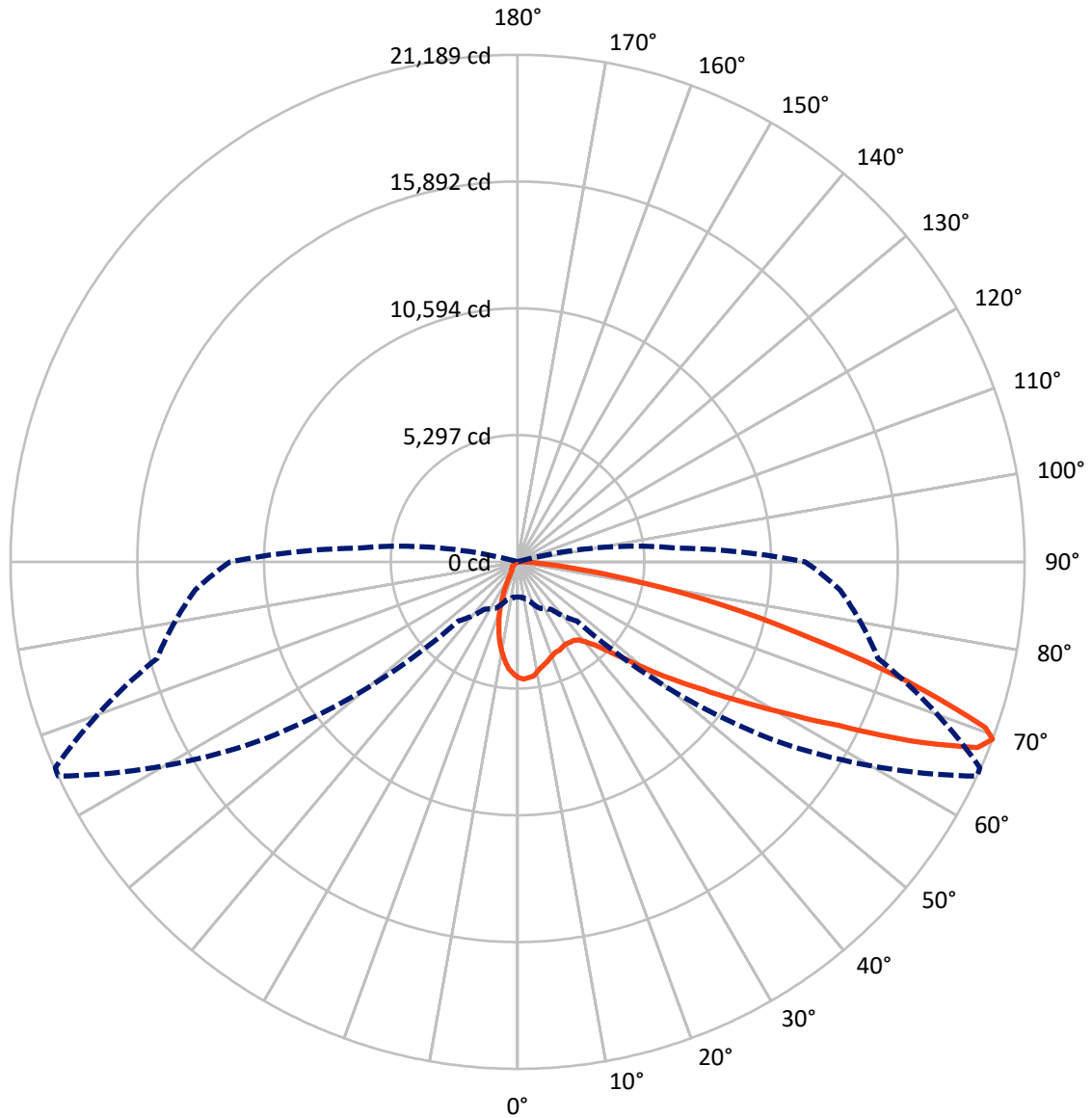
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 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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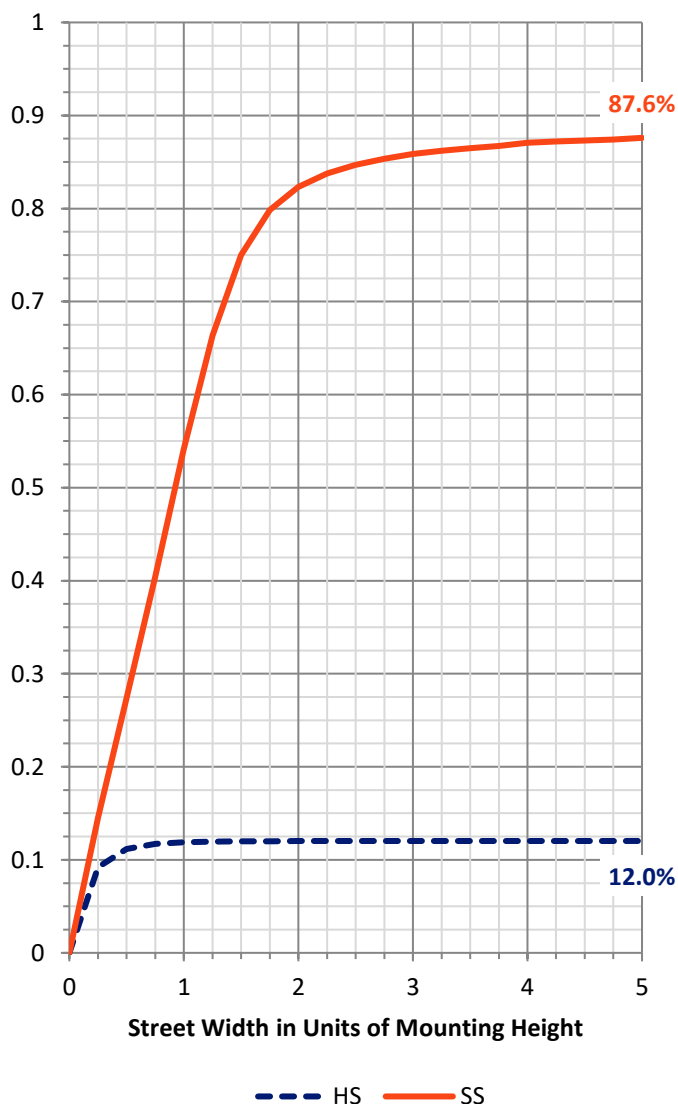
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2327.1	0.0	2327.1
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	16856.4	0.0	16856.4
	% Fixture	87.9	0.0	87.9
Total	Lumens	19183.4	0.0	19183.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	395.8	2.1
10°-20°	866.0	4.5
20°-30°	1205.6	6.3
30°-40°	1708.5	8.9
40°-50°	2692.6	14.0
50°-60°	4369.1	22.8
60°-70°	4879.4	25.4
70°-80°	2747.7	14.3
80°-90°	318.8	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°	19183.4	100.0
0°-180°	19183.4	100.0

Coefficient of Utilization

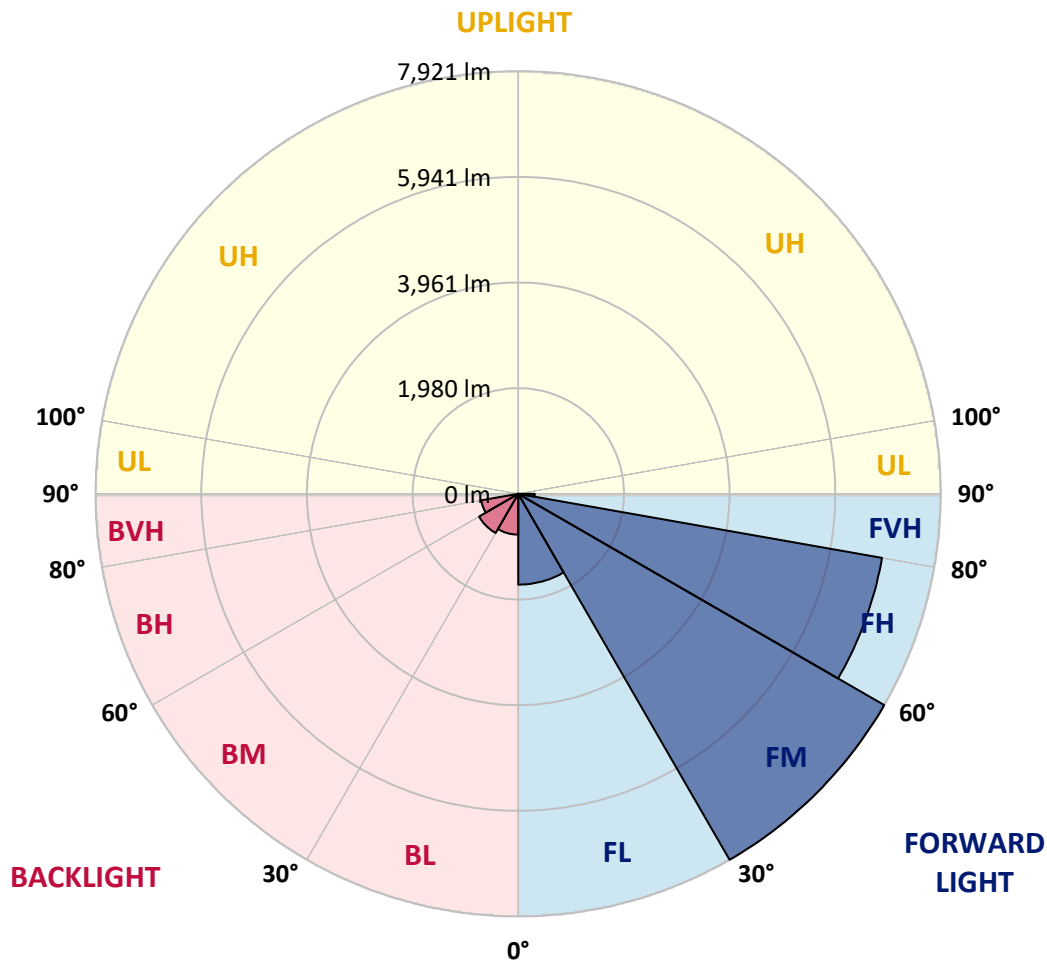


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1702.3	8.9			
FM (30°-60°)	7921.0	41.3			
FH (60°-80°)	6923.0	36.1			G3/7500
FVH (80°-90°)	310.0	1.6			G3/500
BL (0°-30°)	765.1	4.0	B2/1000		
BM (30°-60°)	849.1	4.4	B1/1000		
BH (60°-80°)	704.1	3.7	B2/1000		G2/1000
BVH (80°-90°)	8.8	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°	4836.6	4836.6	4836.6	4836.6	4836.6	4836.6	4836.6	4836.6	4836.6	4836.6
2.5°	4658.0	4694.3	4704.6	4740.8	4759.0	4836.6	4880.6	4906.5	4893.5	4922.0
5°	4326.8	4306.1	4360.4	4399.3	4482.1	4616.6	4753.8	4859.9	4909.0	4955.6
7.5°	3972.3	3961.9	4016.3	4104.2	4179.3	4342.3	4562.3	4823.6	4813.3	4927.2
10°	3729.0	3739.4	3757.5	3845.5	3956.7	4122.4	4396.7	4639.9	4694.3	4934.9
12.5°	3506.5	3524.6	3558.2	3648.8	3778.2	3949.0	4215.5	4500.2	4583.0	4890.9
15°	3434.0	3392.6	3459.9	3527.2	3661.7	3814.4	4039.5	4394.1	4430.3	4839.2
17.5°	3374.5	3348.6	3379.7	3434.0	3576.3	3700.5	3912.7	4280.2	4347.5	4818.5
20°	3392.6	3369.3	3382.2	3423.7	3488.3	3604.8	3801.5	4171.5	4244.0	4722.7
22.5°	3444.4	3462.5	3439.2	3449.5	3470.2	3529.8	3742.0	4093.9	4156.0	4704.6
25°	3677.3	3646.2	3615.1	3602.2	3480.6	3506.5	3723.8	4088.7	4132.7	4639.9
27.5°	3920.5	3894.6	3881.7	3806.6	3641.0	3563.4	3726.4	4016.3	4075.8	4614.0
30°	4215.5	4249.2	4197.4	4106.8	3876.5	3685.0	3754.9	3980.0	4062.8	4515.7
32.5°	4526.1	4544.2	4570.0	4502.8	4205.2	3868.8	3840.3	4013.7	4018.8	4515.7
35°	4878.0	4852.1	4919.4	4924.6	4663.2	4194.8	4003.3	4037.0	4091.3	4495.0
37.5°	5180.8	5224.8	5302.4	5426.6	5157.5	4655.4	4256.9	4145.6	4168.9	4590.7
40°	5512.0	5556.0	5732.0	5856.2	5703.5	5173.0	4642.5	4399.3	4417.4	4733.1
42.5°	5876.9	5962.3	6171.9	6389.3	6347.9	5830.3	5139.4	4771.9	4764.1	5087.6
45°	6371.2	6485.0	6712.7	6963.8	7000.0	6583.4	5801.8	5328.3	5354.1	5550.8
47.5°	7059.5	7054.3	7276.9	7556.4	7766.0	7364.9	6593.7	6076.1	6073.6	6283.2
50°	7724.6	7727.2	7786.7	8110.1	8653.6	8449.2	7574.5	7069.9	7041.4	7144.9
52.5°	8032.5	7996.3	7952.3	8343.1	9336.8	9815.5	8816.6	8195.5	8172.3	8110.1
55°	7709.0	7722.0	7719.4	8125.7	9696.5	11256.9	10410.7	9435.1	9396.3	9202.2
57.5°	6671.3	6629.9	6720.5	7354.5	9285.0	12240.3	12690.5	10998.1	10897.2	10252.8
60°	4966.0	4978.9	5054.0	5801.8	8262.8	12447.3	14872.1	12832.9	12398.1	10993.0
62.5°	3467.6	3441.8	3470.2	3889.5	5907.9	11619.2	16347.1	15063.6	14644.3	11834.0
65°	2481.7	2448.1	2561.9	2818.1	3547.9	8883.9	16556.7	18034.3	17659.1	13177.1
67.5°	1785.6	1780.4	1912.4	2378.2	2520.5	5116.1	15004.0	20725.7	20497.9	14771.1
69°	1477.6	1480.2	1607.0	2129.8	2406.6	3493.5	12910.5	21188.9	21147.5	15594.1
70°	1288.7	1299.1	1446.6	1982.3	2360.1	2872.5	11130.1	20733.4	20692.0	15754.5
72.5°	794.5	802.2	996.3	1588.9	2243.6	2344.5	6655.8	16963.0	17105.3	15019.6
75°	380.4	383.0	522.7	1149.0	2163.4	2222.9	3566.0	12517.2	12817.3	12126.4
77.5°	201.8	201.8	251.0	610.7	1751.9	2090.9	2116.8	8829.6	9078.0	7667.6
80°	100.9	103.5	152.7	318.3	1086.9	2049.5	1653.6	5266.2	5400.7	3128.6
82.5°	38.8	41.4	72.5	191.5	564.1	1731.2	1451.8	2590.4	2556.7	732.3
85°	5.2	5.2	25.9	113.9	240.7	763.4	1198.1	1081.7	1045.5	160.4
87.5°	0.0	0.0	5.2	33.6	72.5	222.6	463.2	297.6	331.2	44.0
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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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4836.6	0°	4836.6	4836.6	4836.6	4836.6	4836.6	4836.6	4836.6	4836.6	4836.6	4836.6
4924.6	2.5°	4911.6	4857.3	4774.5	4694.3	4608.9	4505.4	4391.5	4350.1	4277.6	4272.4
4947.9	5°	4906.5	4818.5	4673.6	4502.8	4259.5	4075.8	3876.5	3731.6	3620.3	3547.9
4960.8	7.5°	4932.3	4826.2	4575.2	4207.8	3894.6	3529.8	3221.8	3009.6	2815.5	2719.8
5002.2	10°	4890.9	4748.6	4381.1	3866.2	3405.5	2895.7	2445.5	2160.8	1871.0	1764.9
5025.5	12.5°	4914.2	4715.0	4171.5	3514.2	2880.2	2217.7	1679.5	1291.3	1019.6	931.6
5064.3	15°	4929.7	4642.5	3969.7	3092.4	2298.0	1511.3	973.0	732.3	646.9	631.4
5059.1	17.5°	4870.2	4554.5	3685.0	2675.8	1702.8	918.7	646.9	597.8	582.3	571.9
5051.4	20°	4867.6	4502.8	3439.2	2248.8	1136.0	626.2	559.0	540.8	517.6	509.8
5095.4	22.5°	4823.6	4394.1	3144.2	1780.4	724.6	538.3	502.0	473.6	447.7	437.3
5059.1	25°	4810.7	4267.3	2867.3	1337.9	551.2	481.3	445.1	403.7	372.6	357.1
5015.1	27.5°	4774.5	4158.6	2587.8	942.0	481.3	429.6	383.0	339.0	302.8	279.5
4986.7	30°	4645.1	4044.7	2277.3	652.1	437.3	380.4	328.6	276.9	240.7	225.1
4922.0	32.5°	4590.7	3938.6	1938.3	502.0	398.5	336.4	276.9	230.3	201.8	186.3
4898.7	35°	4526.1	3783.4	1609.6	437.3	362.3	292.4	232.9	194.1	170.8	157.9
4916.8	37.5°	4533.8	3659.1	1301.7	395.9	323.5	251.0	199.3	165.6	144.9	132.0
5010.0	40°	4510.5	3560.8	1011.8	359.7	287.2	214.8	168.2	139.7	121.6	108.7
5201.5	42.5°	4616.6	3534.9	763.4	328.6	251.0	183.7	144.9	119.0	100.9	85.4
5597.4	45°	4795.2	3576.3	595.2	300.2	214.8	157.9	124.2	98.3	80.2	69.9
6184.8	47.5°	5271.3	3739.4	465.8	276.9	183.7	137.2	103.5	80.2	64.7	54.3
6987.0	50°	5962.3	4104.2	395.9	243.3	155.3	116.5	85.4	62.1	51.8	41.4
8068.7	52.5°	6945.6	4717.6	359.7	214.8	129.4	95.7	67.3	49.2	38.8	31.1
9259.1	55°	8017.0	5483.5	326.1	181.1	108.7	77.6	54.3	38.8	28.5	20.7
10123.5	57.5°	8852.8	6146.0	297.6	150.1	88.0	62.1	41.4	28.5	20.7	12.9
10814.4	60°	9766.3	6611.8	261.4	119.0	72.5	46.6	31.1	20.7	15.5	7.8
11730.5	62.5°	10708.3	7157.8	214.8	93.2	56.9	36.2	23.3	15.5	10.4	2.6
12928.6	65°	12017.7	7584.8	165.6	72.5	44.0	25.9	18.1	12.9	5.2	0.0
13658.4	67.5°	12387.8	7375.2	121.6	56.9	31.1	18.1	12.9	7.8	2.6	0.0
13521.2	69°	12017.7	6642.9	106.1	49.2	25.9	15.5	10.4	5.2	2.6	0.0
13068.4	70°	11342.3	6073.6	93.2	41.4	23.3	15.5	7.8	5.2	2.6	0.0
11259.5	72.5°	9486.9	4658.0	72.5	31.1	18.1	12.9	7.8	5.2	0.0	0.0
8798.5	75°	6958.6	2877.6	54.3	23.3	15.5	10.4	7.8	5.2	0.0	0.0
5002.2	77.5°	3729.0	1050.6	38.8	15.5	10.4	7.8	7.8	5.2	0.0	0.0
1557.9	80°	1022.2	310.5	28.5	10.4	7.8	5.2	5.2	2.6	0.0	0.0
380.4	82.5°	279.5	80.2	18.1	10.4	7.8	5.2	2.6	0.0	0.0	0.0
183.7	85°	150.1	31.1	10.4	7.8	5.2	2.6	0.0	0.0	0.0	0.0
90.6	87.5°	77.6	10.4	7.8	5.2	5.2	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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