

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: P575450

Luminaire Tested: **EPH-VN-04-735-U-SL4-HSS**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575450
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-04-735-U-SL4-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL4 distribution lens and House Side Shield
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

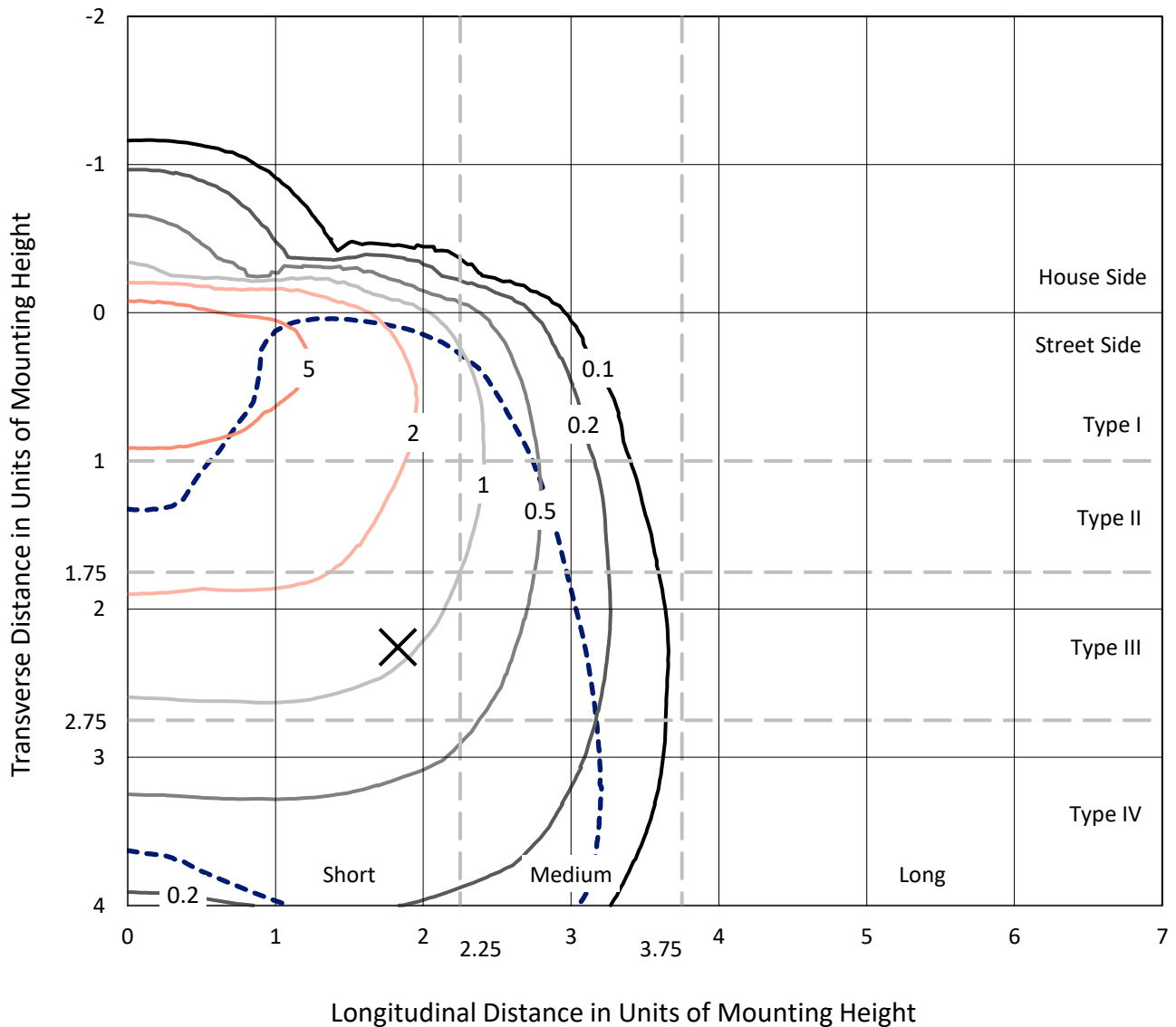
Lumens per Lamp: N/A
Luminaire Lumens: 28497.4 lumens
Efficiency: N/A
Efficacy: 118.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

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

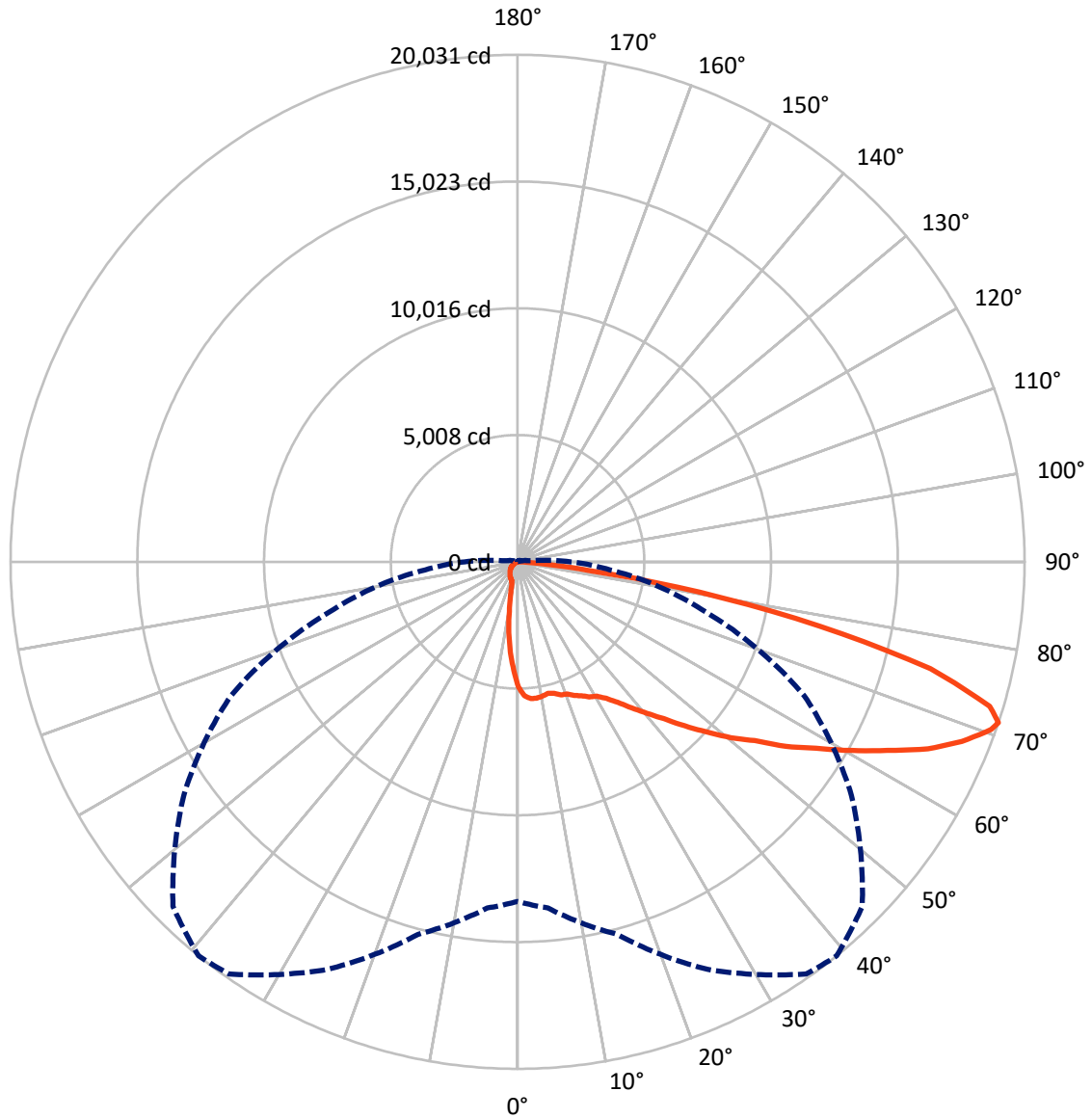
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 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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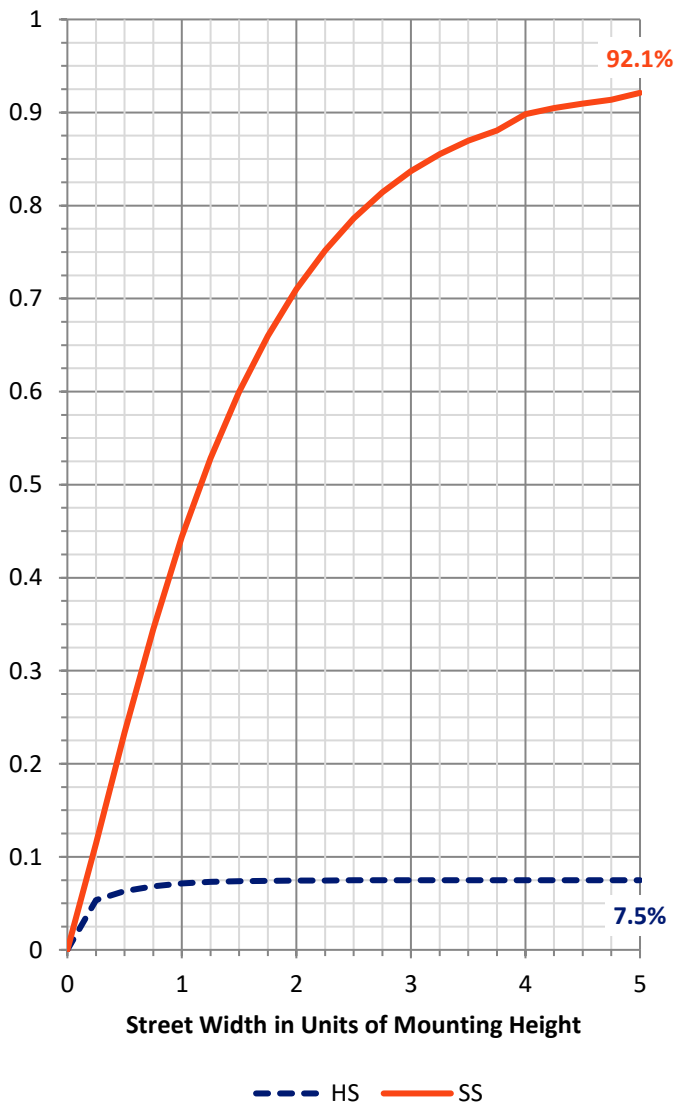
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2145.4	0.0	2145.4
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	26352.0	0.0	26352.0
	% Fixture	92.5	0.0	92.5
Total	Lumens	28497.4	0.0	28497.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	414.7	1.5
10°-20°	1020.7	3.6
20°-30°	1638.6	5.8
30°-40°	2508.3	8.8
40°-50°	4026.3	14.1
50°-60°	5913.9	20.8
60°-70°	7448.4	26.1
70°-80°	4970.9	17.4
80°-90°	555.5	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°	28497.4	100.0
0°-180°	28497.4	100.0

Coefficient of Utilization

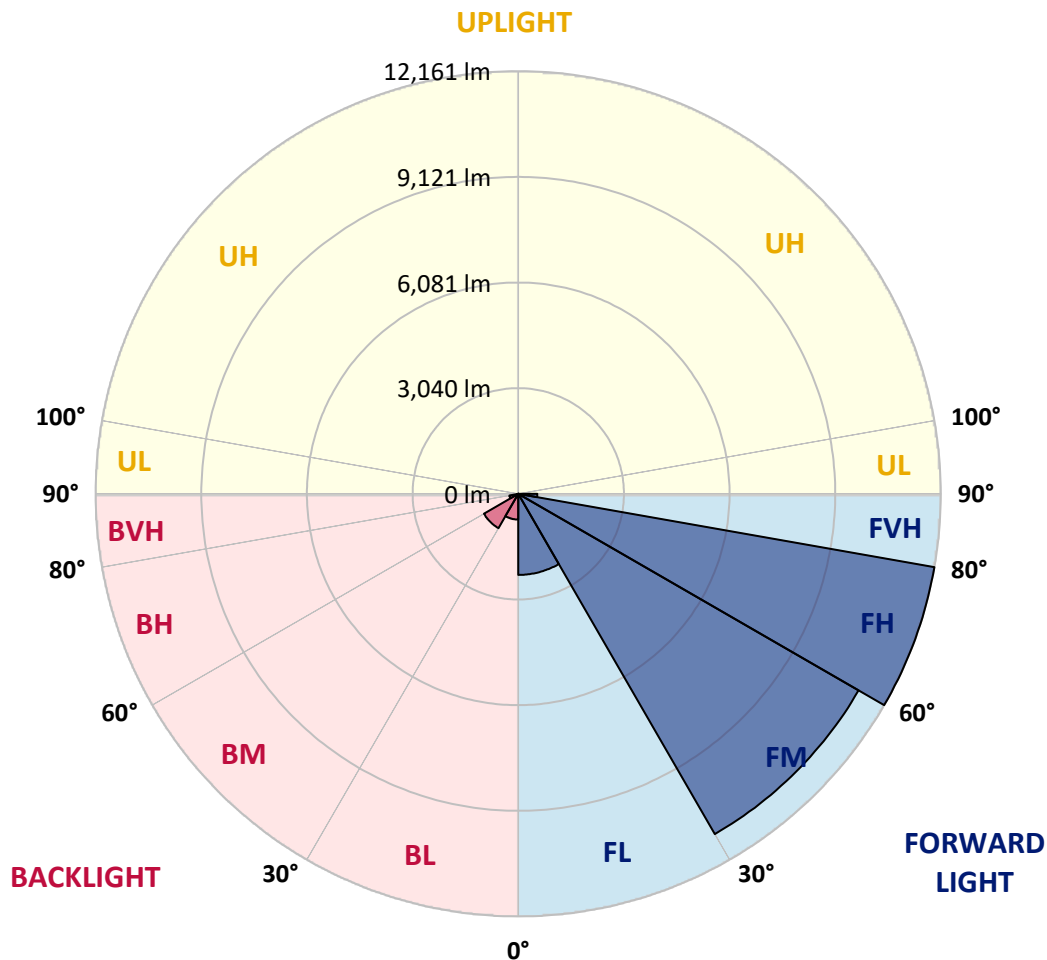


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2333.3	8.2			
FM (30°-60°)	11308.2	39.7			
FH (60°-80°)	12161.0	42.7			G5
FVH (80°-90°)	549.4	1.9			G4/750
BL (0°-30°)	740.7	2.6	B2/1000		
BM (30°-60°)	1140.4	4.0	B2/2500		
BH (60°-80°)	258.2	0.9	B1/500		G1/500
BVH (80°-90°)	6.1	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-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°
0°	4960.1	4960.1	4960.1	4960.1	4960.1	4960.1	4960.1	4960.1	4960.1	4960.1
2.5°	5345.1	5397.5	5345.1	5322.7	5300.3	5304.0	5244.2	5255.4	5184.4	5091.0
5°	5513.3	5584.4	5528.3	5502.1	5498.4	5427.4	5397.5	5326.5	5240.5	5094.7
7.5°	5498.4	5483.4	5509.6	5487.2	5438.6	5438.6	5405.0	5304.0	5218.1	5053.6
10°	5386.3	5431.1	5408.7	5382.5	5393.7	5397.5	5333.9	5262.9	5236.7	5072.3
12.5°	5375.0	5300.3	5382.5	5386.3	5337.7	5333.9	5326.5	5307.8	5225.5	5076.0
15°	5337.7	5307.8	5390.0	5393.7	5405.0	5393.7	5405.0	5390.0	5307.8	5221.8
17.5°	5367.6	5333.9	5449.8	5505.9	5479.7	5532.0	5513.3	5446.1	5375.0	5274.1
20°	5375.0	5423.6	5550.7	5573.2	5655.4	5569.4	5565.7	5494.7	5449.8	5341.4
22.5°	5513.3	5535.8	5692.8	5741.4	5745.1	5733.9	5640.4	5558.2	5539.5	5405.0
25°	5722.7	5801.2	5872.2	5902.1	5913.3	5861.0	5763.8	5659.1	5614.3	5528.3
27.5°	6092.7	6044.1	6107.7	6152.5	6025.4	6044.1	5920.8	5831.1	5767.5	5692.8
30°	6421.7	6376.8	6380.5	6373.1	6264.7	6163.7	6130.1	5973.1	5894.6	5924.5
32.5°	6716.9	6619.8	6702.0	6664.6	6462.8	6432.9	6406.7	6208.6	6223.5	6361.8
35°	6989.8	6956.2	7023.4	6956.2	6821.6	6814.1	6788.0	6616.0	6698.3	6896.4
37.5°	7240.2	7251.5	7333.7	7300.0	7311.3	7318.7	7303.8	7120.6	7356.1	7800.9
40°	7472.0	7457.0	7658.9	7763.5	7786.0	7868.2	7868.2	7823.3	8185.9	8686.8
42.5°	7718.7	7756.1	8017.7	8193.4	8406.5	8477.5	8574.7	8597.1	9157.8	9729.7
45°	8122.4	8058.8	8391.5	8806.4	8993.3	9243.7	9393.3	9520.3	10196.9	10981.8
47.5°	8634.5	8507.4	8798.9	9400.7	9834.3	10039.9	10309.0	10477.2	11138.8	11950.0
50°	9202.6	9071.8	9213.8	10043.6	10548.3	10922.0	11265.9	11479.0	12278.9	13033.9
52.5°	9845.5	9725.9	9748.3	10712.7	11456.6	11729.4	12181.7	12499.4	13295.6	13688.1
55°	10529.6	10499.7	10428.6	11366.8	12252.7	12865.7	13138.6	13519.9	14338.4	14043.2
57.5°	11217.3	11123.9	11224.8	12234.0	13531.1	13897.4	14274.9	14502.9	14917.8	14353.4
60°	11864.0	11871.5	12013.5	13176.0	14618.8	15138.3	15478.5	15340.2	15512.1	14488.0
62.5°	12409.7	12394.8	12753.6	14233.8	16057.9	16409.2	16663.4	16046.6	15788.7	14618.8
65°	12899.4	13067.6	13632.0	15493.4	17411.0	17814.7	17661.4	16715.7	16057.9	14233.8
67.5°	13269.4	13519.9	14499.2	16678.3	18651.9	18936.0	18723.0	17224.1	15740.1	12723.7
70°	13486.2	13740.4	15119.7	17665.1	19642.5	19848.1	19347.2	16831.6	13886.2	9213.8
71°	13418.9	13729.2	15239.3	17769.8	19878.0	20031.2	19253.7	16106.5	12488.2	7715.0
72.5°	12809.7	13101.2	14742.1	17695.0	19593.9	19500.4	18524.9	14364.6	9830.6	4919.0
75°	9411.9	9725.9	12652.7	15306.6	17489.5	16846.6	14992.6	10081.0	5128.3	1506.4
77.5°	4687.3	4739.6	7853.3	11112.7	12828.3	12189.2	10047.4	5621.7	1917.5	444.8
80°	2160.5	2175.4	2945.4	5756.3	7756.1	7300.0	5629.2	2773.5	867.2	235.5
82.5°	1472.7	1495.1	1775.5	2384.8	3367.8	2840.8	2280.1	1775.5	497.1	142.0
85°	269.1	246.7	994.3	1263.4	1300.8	882.1	788.7	1536.3	186.9	82.2
87.5°	0.0	3.7	138.3	515.8	463.5	205.6	269.1	373.8	18.7	26.2
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°
4960.1	0°	4960.1	4960.1	4960.1	4960.1	4960.1	4960.1	4960.1	4960.1	4960.1	4960.1
5016.2	2.5°	4952.7	4911.6	4773.3	4620.0	4481.7	4373.3	4235.0	4171.5	4070.5	4014.5
5005.0	5°	4881.7	4769.5	4530.3	4272.4	3984.6	3745.3	3480.0	3330.4	3158.5	3106.2
4900.3	7.5°	4762.0	4601.3	4250.0	3887.4	3446.3	3023.9	2698.7	2351.1	2138.1	2048.3
4821.8	10°	4687.3	4492.9	4014.5	3472.5	2855.7	2261.4	1805.4	1435.3	1241.0	1147.5
4840.5	12.5°	4687.3	4478.0	3823.8	3076.3	2257.7	1547.5	1117.6	904.6	841.0	818.6
4922.8	15°	4676.1	4448.1	3640.7	2668.8	1670.8	1039.1	833.5	788.7	781.2	777.5
5001.3	17.5°	4732.1	4395.7	3453.8	2231.5	1181.2	818.6	766.3	758.8	751.3	751.3
5049.9	20°	4773.3	4365.8	3229.5	1768.0	882.1	758.8	736.4	725.1	721.4	717.7
5061.1	22.5°	4739.6	4321.0	2952.9	1323.2	770.0	721.4	706.5	695.2	687.8	687.8
5176.9	25°	4803.2	4279.9	2676.3	998.0	721.4	687.8	672.8	665.3	661.6	657.9
5311.5	27.5°	4889.1	4298.5	2347.4	803.6	680.3	654.1	639.2	631.7	628.0	620.5
5520.8	30°	4993.8	4294.8	1984.8	702.7	642.9	616.7	601.8	598.1	590.6	586.8
5834.8	32.5°	5173.2	4392.0	1611.0	650.4	601.8	579.4	564.4	560.7	556.9	553.2
6373.1	35°	5558.2	4511.6	1259.7	609.3	564.4	538.3	527.0	519.6	515.8	512.1
7001.0	37.5°	6032.9	4777.0	960.6	571.9	527.0	500.9	489.7	485.9	471.0	467.2
7871.9	40°	6627.2	5061.1	740.1	530.8	493.4	467.2	456.0	444.8	426.1	418.6
8761.6	42.5°	7367.3	5337.7	609.3	493.4	456.0	437.3	418.6	400.0	385.0	370.0
9651.2	45°	8107.4	5659.1	534.5	459.8	426.1	403.7	388.7	362.6	336.4	314.0
10492.2	47.5°	8724.2	5775.0	489.7	422.4	396.2	377.5	355.1	321.5	284.1	261.7
11105.2	50°	9183.9	5707.7	444.8	385.0	362.6	343.9	314.0	272.9	235.5	213.1
11322.0	52.5°	9273.6	5412.4	403.7	355.1	328.9	306.5	272.9	228.0	186.9	164.5
11557.5	55°	9210.1	4922.8	370.0	328.9	299.0	265.4	228.0	183.2	145.8	123.3
11467.8	57.5°	9079.3	4343.4	332.7	295.3	261.7	228.0	186.9	149.5	108.4	86.0
11262.2	60°	8634.5	3554.7	295.3	257.9	224.3	194.4	153.3	108.4	74.8	56.1
10903.3	62.5°	8014.0	2732.4	257.9	220.5	194.4	160.7	119.6	78.5	44.9	29.9
9894.1	65°	6881.4	1913.8	216.8	183.2	160.7	130.8	89.7	48.6	26.2	11.2
8058.8	67.5°	5229.3	1184.9	179.4	153.3	138.3	104.7	63.5	29.9	11.2	3.7
5027.4	70°	3001.5	616.7	142.0	123.3	108.4	78.5	44.9	15.0	7.5	0.0
3666.8	71°	2096.9	456.0	127.1	108.4	97.2	71.0	37.4	11.2	3.7	0.0
1895.1	72.5°	1050.3	302.8	108.4	89.7	78.5	56.1	29.9	11.2	3.7	0.0
553.2	75°	373.8	194.4	74.8	59.8	56.1	41.1	18.7	7.5	3.7	0.0
276.6	77.5°	257.9	157.0	52.3	37.4	37.4	26.2	11.2	3.7	3.7	0.0
216.8	80°	235.5	86.0	33.6	22.4	18.7	15.0	7.5	3.7	0.0	0.0
213.1	82.5°	235.5	63.5	18.7	15.0	11.2	7.5	3.7	0.0	0.0	0.0
186.9	85°	164.5	33.6	11.2	11.2	7.5	3.7	0.0	0.0	0.0	0.0
33.6	87.5°	26.2	11.2	7.5	3.7	3.7	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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180°
4960.1
4010.7
3095.0
2014.7
1125.1
818.6
773.7
743.8
725.1
691.5
650.4
628.0
590.6
549.5
508.3
463.5
411.2
362.6
310.2
257.9
205.6
160.7
119.6
86.0
52.3
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