

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: P575455

Luminaire Tested: **EPH-VN-03-740-U-SL4-HSS**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P575455  
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-SL4-HSS  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL4 distribution lens and House Side Shield  
Light Source: (48) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

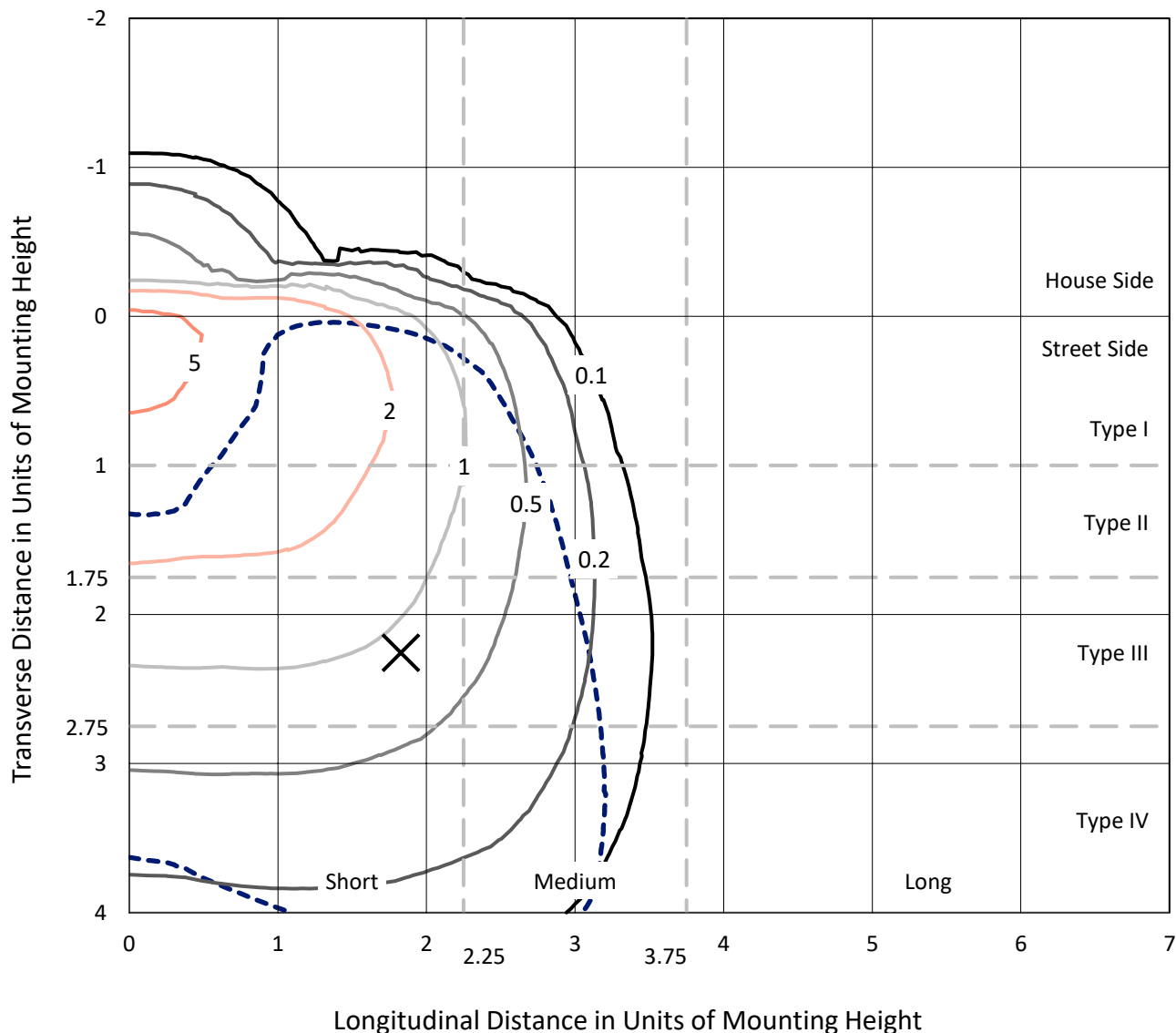
Lumens per Lamp: N/A  
Luminaire Lumens: 22283.2 lumens  
Efficiency: N/A  
Efficacy: 121.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

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

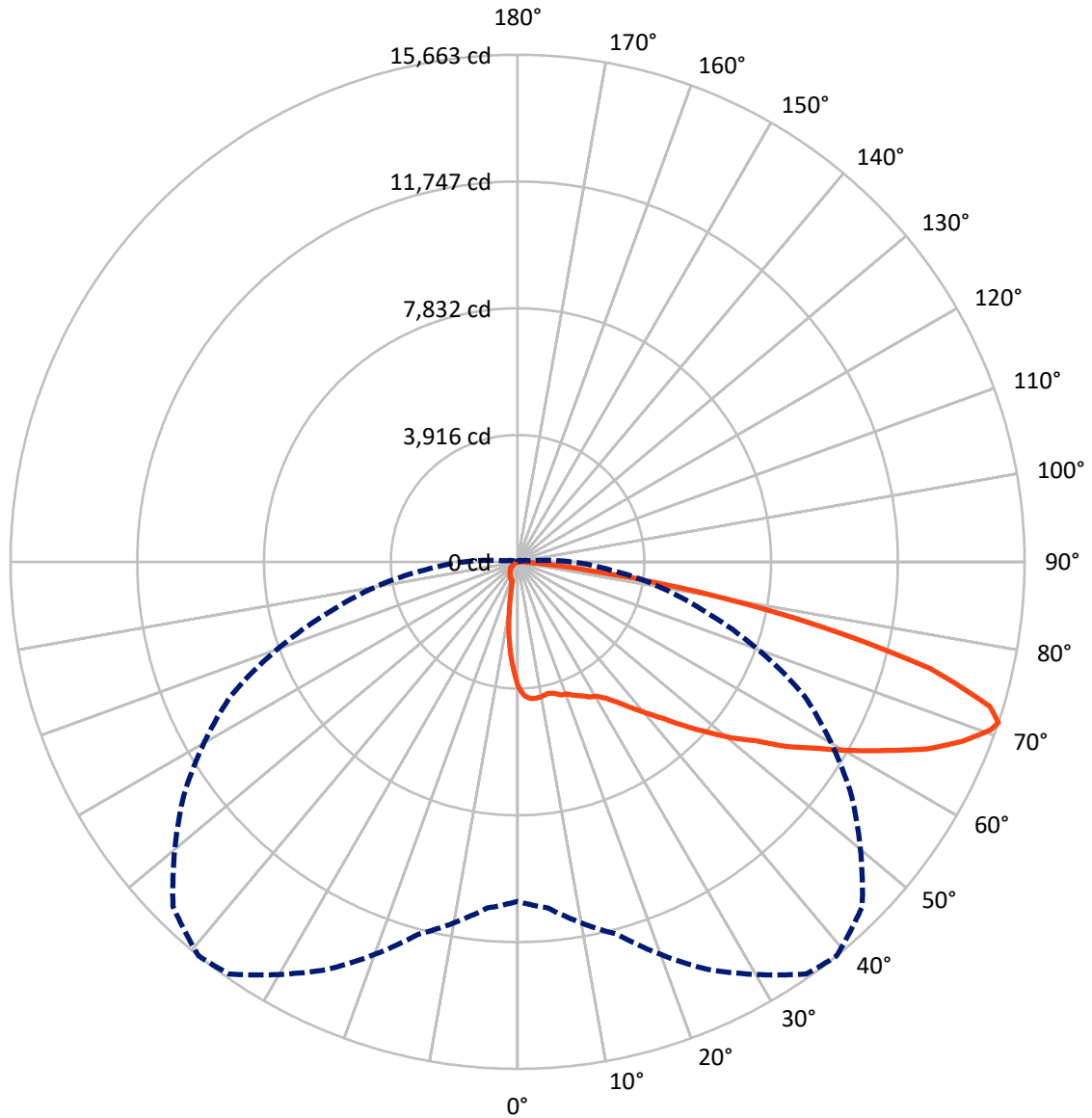
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 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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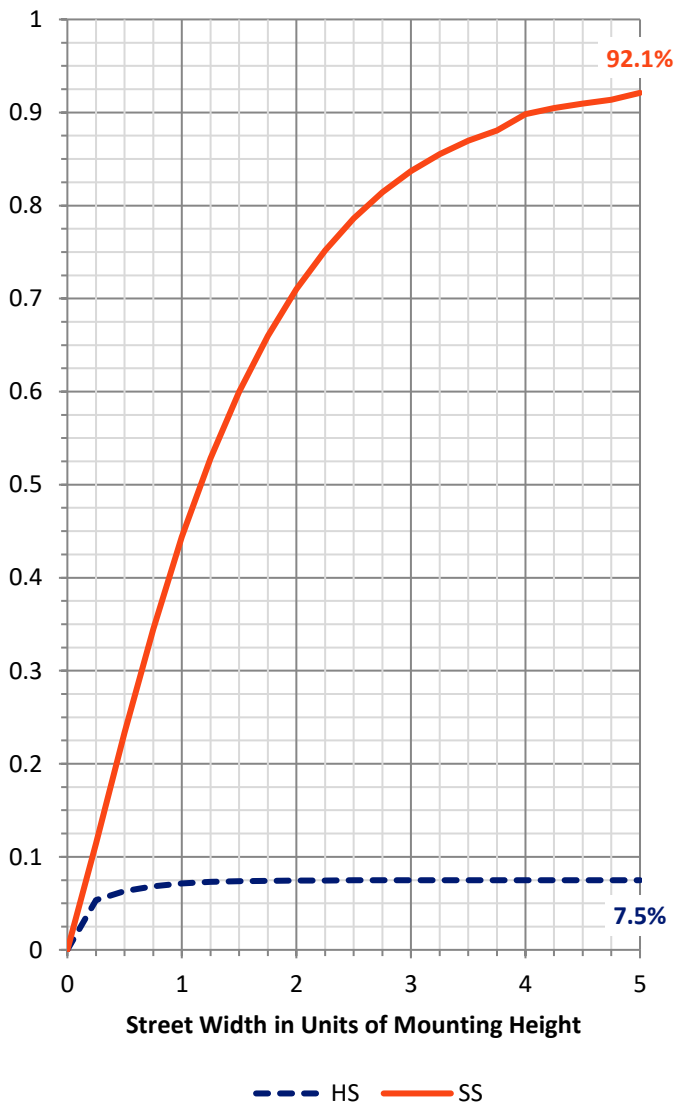
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1677.6	0.0	1677.6
	% Fixture	7.5	0.0	7.5
<b>Street Side</b>	Lumens	20605.6	0.0	20605.6
	% Fixture	92.5	0.0	92.5
<b>Total</b>	Lumens	22283.2	0.0	22283.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	324.3	1.5
10°-20°	798.1	3.6
20°-30°	1281.3	5.8
30°-40°	1961.3	8.8
40°-50°	3148.3	14.1
50°-60°	4624.3	20.8
60°-70°	5824.2	26.1
70°-80°	3886.9	17.4
80°-90°	434.4	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°	22283.2	100.0
0°-180°	22283.2	100.0

**Coefficient of Utilization**



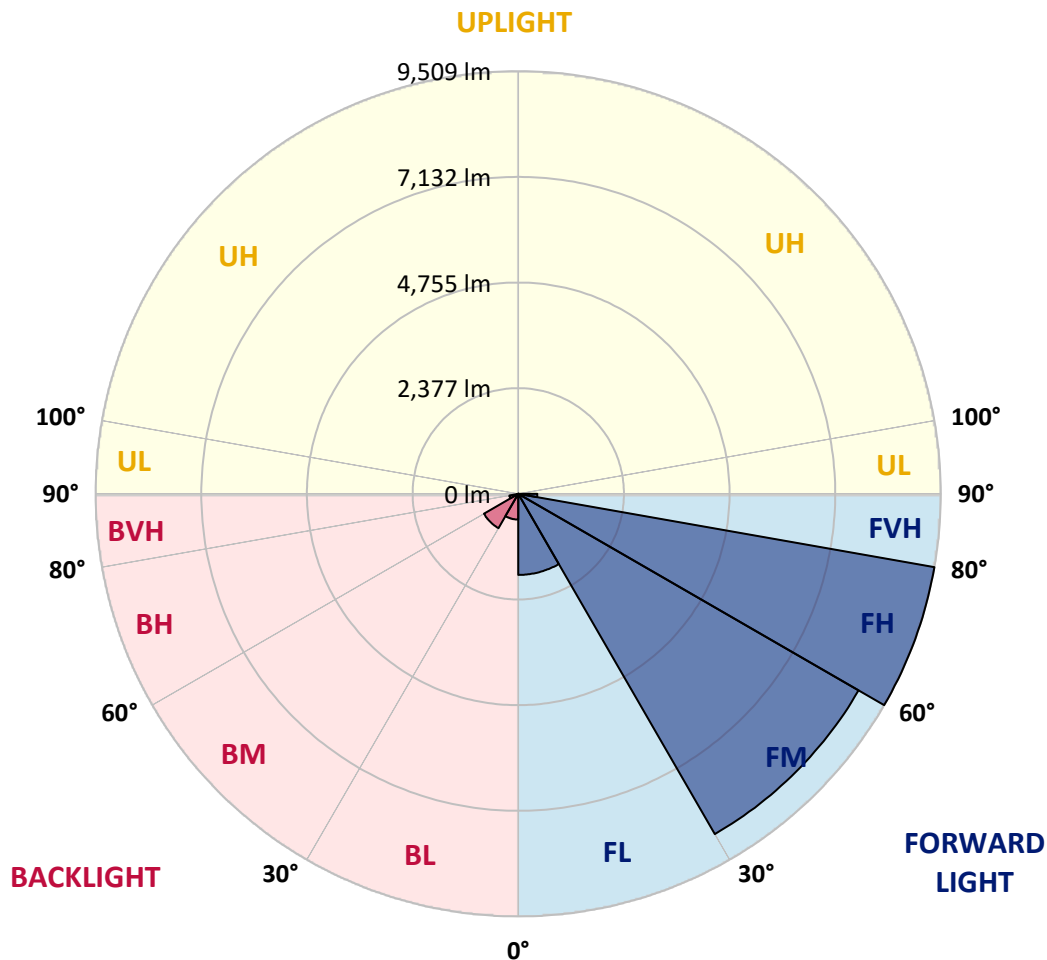
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1824.5	8.2			
FM (30°-60°)	8842.3	39.7			
FH (60°-80°)	9509.2	42.7			G4/12000
FVH (80°-90°)	429.6	1.9			G3/500
BL (0°-30°)	579.2	2.6	B2/1000		
BM (30°-60°)	891.7	4.0	B1/1000		
BH (60°-80°)	201.9	0.9	B1/500		G1/500
BVH (80°-90°)	4.8	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-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°
0°	3878.5	3878.5	3878.5	3878.5	3878.5	3878.5	3878.5	3878.5	3878.5	3878.5
2.5°	4179.6	4220.5	4179.6	4162.0	4144.5	4147.4	4100.7	4109.4	4053.9	3980.8
5°	4311.1	4366.6	4322.8	4302.3	4299.4	4243.9	4220.5	4165.0	4097.7	3983.7
7.5°	4299.4	4287.7	4308.2	4290.6	4252.6	4252.6	4226.3	4147.4	4080.2	3951.6
10°	4211.7	4246.8	4229.3	4208.8	4217.6	4220.5	4170.8	4115.3	4094.8	3966.2
12.5°	4203.0	4144.5	4208.8	4211.7	4173.7	4170.8	4165.0	4150.3	4086.0	3969.1
15°	4173.7	4150.3	4214.6	4217.6	4226.3	4217.6	4226.3	4214.6	4150.3	4083.1
17.5°	4197.1	4170.8	4261.4	4305.3	4284.8	4325.7	4311.1	4258.5	4203.0	4124.0
20°	4203.0	4240.9	4340.3	4357.9	4422.2	4354.9	4352.0	4296.5	4261.4	4176.6
22.5°	4311.1	4328.6	4451.4	4489.4	4492.3	4483.5	4410.5	4346.2	4331.6	4226.3
25°	4474.8	4536.1	4591.7	4615.1	4623.8	4582.9	4506.9	4425.1	4390.0	4322.8
27.5°	4764.1	4726.1	4775.8	4810.9	4711.5	4726.1	4629.7	4559.5	4509.8	4451.4
30°	5021.3	4986.3	4989.2	4983.3	4898.6	4819.7	4793.4	4670.6	4609.2	4632.6
32.5°	5252.2	5176.2	5240.5	5211.3	5053.5	5030.1	5009.6	4854.7	4866.4	4974.6
35°	5465.6	5439.3	5491.9	5439.3	5334.1	5328.2	5307.8	5173.3	5237.6	5392.5
37.5°	5661.4	5670.2	5734.5	5708.2	5717.0	5722.8	5711.1	5567.9	5752.0	6099.8
40°	5842.6	5830.9	5988.8	6070.6	6088.1	6152.4	6152.4	6117.4	6400.9	6792.5
42.5°	6035.5	6064.8	6269.4	6406.7	6573.3	6628.9	6704.9	6722.4	7160.8	7608.0
45°	6351.2	6301.5	6561.6	6886.1	7032.2	7228.0	7344.9	7444.3	7973.3	8587.1
47.5°	6751.6	6652.2	6880.2	7350.8	7689.8	7850.6	8061.0	8192.5	8709.9	9344.1
50°	7195.9	7093.6	7204.6	7853.5	8248.1	8540.4	8809.2	8975.8	9601.3	10191.7
52.5°	7698.6	7605.1	7622.6	8376.7	8958.3	9171.7	9525.3	9773.8	10396.3	10703.2
55°	8233.5	8210.1	8154.5	8888.2	9580.9	10060.2	10273.6	10571.7	11211.8	10980.9
57.5°	8771.3	8698.2	8777.1	9566.2	10580.5	10866.9	11162.1	11340.4	11664.8	11223.5
60°	9276.9	9282.7	9393.8	10302.8	11431.0	11837.2	12103.2	11995.1	12129.5	11328.7
62.5°	9703.6	9691.9	9972.5	11129.9	12556.2	12831.0	13029.7	12547.5	12345.8	11431.0
65°	10086.5	10218.0	10659.4	12114.9	13614.3	13930.0	13810.1	13070.7	12556.2	11129.9
67.5°	10375.9	10571.7	11337.5	13041.4	14584.7	14806.8	14640.2	13468.2	12307.8	9949.1
70°	10545.4	10744.1	11822.6	13813.0	15359.2	15519.9	15128.3	13161.3	10858.1	7204.6
71°	10492.8	10735.4	11916.2	13894.9	15543.3	15663.2	15055.2	12594.2	9765.0	6032.6
72.5°	10016.4	10244.3	11527.4	13836.4	15321.2	15248.1	14485.3	11232.2	7686.9	3846.4
75°	7359.6	7605.1	9893.6	11968.8	13675.7	13173.0	11723.3	7882.7	4010.0	1177.9
77.5°	3665.2	3706.1	6140.8	8689.4	10031.0	9531.2	7856.4	4395.9	1499.4	347.8
80°	1689.4	1701.1	2303.1	4501.1	6064.8	5708.2	4401.7	2168.7	678.1	184.1
82.5°	1151.6	1169.1	1388.3	1864.7	2633.4	2221.3	1782.9	1388.3	388.7	111.1
85°	210.4	192.9	777.5	987.9	1017.1	689.8	616.7	1201.3	146.1	64.3
87.5°	0.0	2.9	108.1	403.3	362.4	160.8	210.4	292.3	14.6	20.5
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°
3878.5	0°	3878.5	3878.5	3878.5	3878.5	3878.5	3878.5	3878.5	3878.5	3878.5	3878.5
3922.4	2.5°	3872.7	3840.5	3732.4	3612.6	3504.4	3419.6	3311.5	3261.8	3182.9	3139.1
3913.6	5°	3817.1	3729.5	3542.4	3340.7	3115.7	2928.6	2721.1	2604.2	2469.7	2428.8
3831.8	7.5°	3723.6	3597.9	3323.2	3039.7	2694.8	2364.5	2110.2	1838.4	1671.8	1601.7
3770.4	10°	3665.2	3513.2	3139.1	2715.3	2233.0	1768.3	1411.7	1122.3	970.4	897.3
3785.0	12.5°	3665.2	3501.5	2990.0	2405.4	1765.4	1210.0	873.9	707.3	657.6	640.1
3849.3	15°	3656.4	3478.1	2846.8	2086.9	1306.5	812.5	651.8	616.7	610.9	607.9
3910.7	17.5°	3700.2	3437.2	2700.6	1744.9	923.6	640.1	599.2	593.3	587.5	587.5
3948.7	20°	3732.4	3413.8	2525.3	1382.5	689.8	593.3	575.8	567.0	564.1	561.2
3957.4	22.5°	3706.1	3378.7	2309.0	1034.7	602.1	564.1	552.4	543.6	537.8	537.8
4048.0	25°	3755.8	3346.6	2092.7	780.4	564.1	537.8	526.1	520.3	517.3	514.4
4153.3	27.5°	3823.0	3361.2	1835.5	628.4	531.9	511.5	499.8	493.9	491.0	485.2
4316.9	30°	3904.8	3358.3	1552.0	549.5	502.7	482.3	470.6	467.6	461.8	458.9
4562.5	32.5°	4045.1	3434.3	1259.7	508.6	470.6	453.0	441.3	438.4	435.5	432.6
4983.3	35°	4346.2	3527.8	985.0	476.4	441.3	420.9	412.1	406.3	403.3	400.4
5474.4	37.5°	4717.4	3735.3	751.2	447.2	412.1	391.7	382.9	380.0	368.3	365.3
6155.4	40°	5182.1	3957.4	578.7	415.0	385.8	365.3	356.6	347.8	333.2	327.4
6851.0	42.5°	5760.8	4173.7	476.4	385.8	356.6	342.0	327.4	312.7	301.0	289.4
7546.6	45°	6339.5	4425.1	418.0	359.5	333.2	315.7	304.0	283.5	263.0	245.5
8204.2	47.5°	6821.8	4515.7	382.9	330.3	309.8	295.2	277.7	251.4	222.1	204.6
8683.6	50°	7181.3	4463.1	347.8	301.0	283.5	268.9	245.5	213.4	184.1	166.6
8853.1	52.5°	7251.4	4232.2	315.7	277.7	257.2	239.7	213.4	178.3	146.1	128.6
9037.2	55°	7201.7	3849.3	289.4	257.2	233.8	207.5	178.3	143.2	114.0	96.5
8967.1	57.5°	7099.4	3396.3	260.1	230.9	204.6	178.3	146.1	116.9	84.8	67.2
8806.3	60°	6751.6	2779.6	230.9	201.7	175.4	152.0	119.8	84.8	58.5	43.8
8525.7	62.5°	6266.4	2136.5	201.7	172.4	152.0	125.7	93.5	61.4	35.1	23.4
7736.6	65°	5380.8	1496.5	169.5	143.2	125.7	102.3	70.1	38.0	20.5	8.8
6301.5	67.5°	4089.0	926.5	140.3	119.8	108.1	81.8	49.7	23.4	8.8	2.9
3931.1	70°	2347.0	482.3	111.1	96.5	84.8	61.4	35.1	11.7	5.8	0.0
2867.2	71°	1639.7	356.6	99.4	84.8	76.0	55.5	29.2	8.8	2.9	0.0
1481.8	72.5°	821.3	236.7	84.8	70.1	61.4	43.8	23.4	8.8	2.9	0.0
432.6	75°	292.3	152.0	58.5	46.8	43.8	32.2	14.6	5.8	2.9	0.0
216.3	77.5°	201.7	122.8	40.9	29.2	29.2	20.5	8.8	2.9	2.9	0.0
169.5	80°	184.1	67.2	26.3	17.5	14.6	11.7	5.8	2.9	0.0	0.0
166.6	82.5°	184.1	49.7	14.6	11.7	8.8	5.8	2.9	0.0	0.0	0.0
146.1	85°	128.6	26.3	8.8	8.8	5.8	2.9	0.0	0.0	0.0	0.0
26.3	87.5°	20.5	8.8	5.8	2.9	2.9	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°  
3878.5  
3136.1  
2420.1  
1575.4  
879.8  
640.1  
605.0  
581.6  
567.0  
540.7  
508.6  
491.0  
461.8  
429.6  
397.5  
362.4  
321.5  
283.5  
242.6  
201.7  
160.8  
125.7  
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67.2  
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