

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: P575449

Luminaire Tested: **EPH-VN-03-735-U-SL4-HSS**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575449
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-SL4-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL4 distribution lens and House Side Shield
Light Source: (48) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

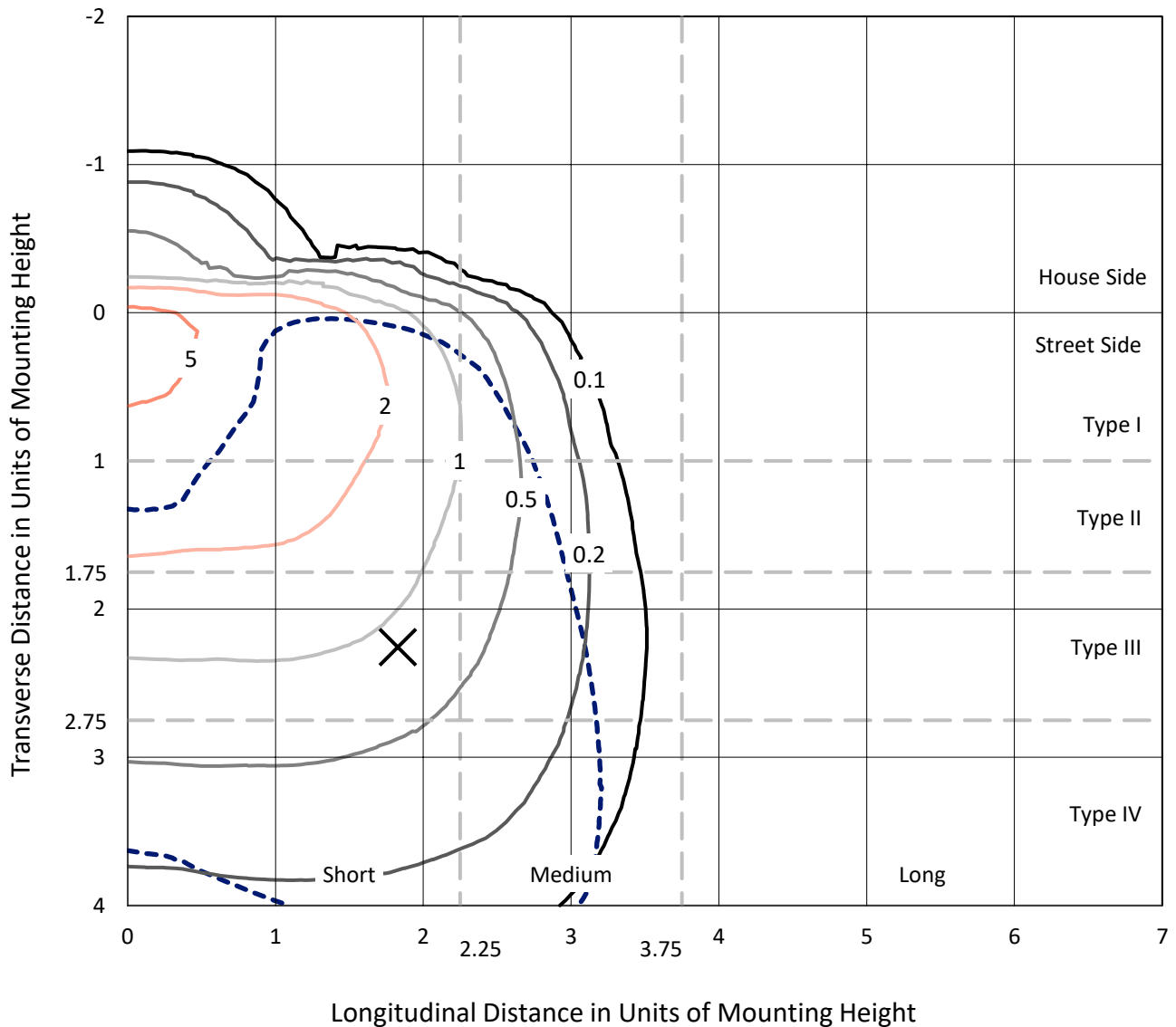
Lumens per Lamp: N/A
Luminaire Lumens: 21977.9 lumens
Efficiency: N/A
Efficacy: 119.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

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

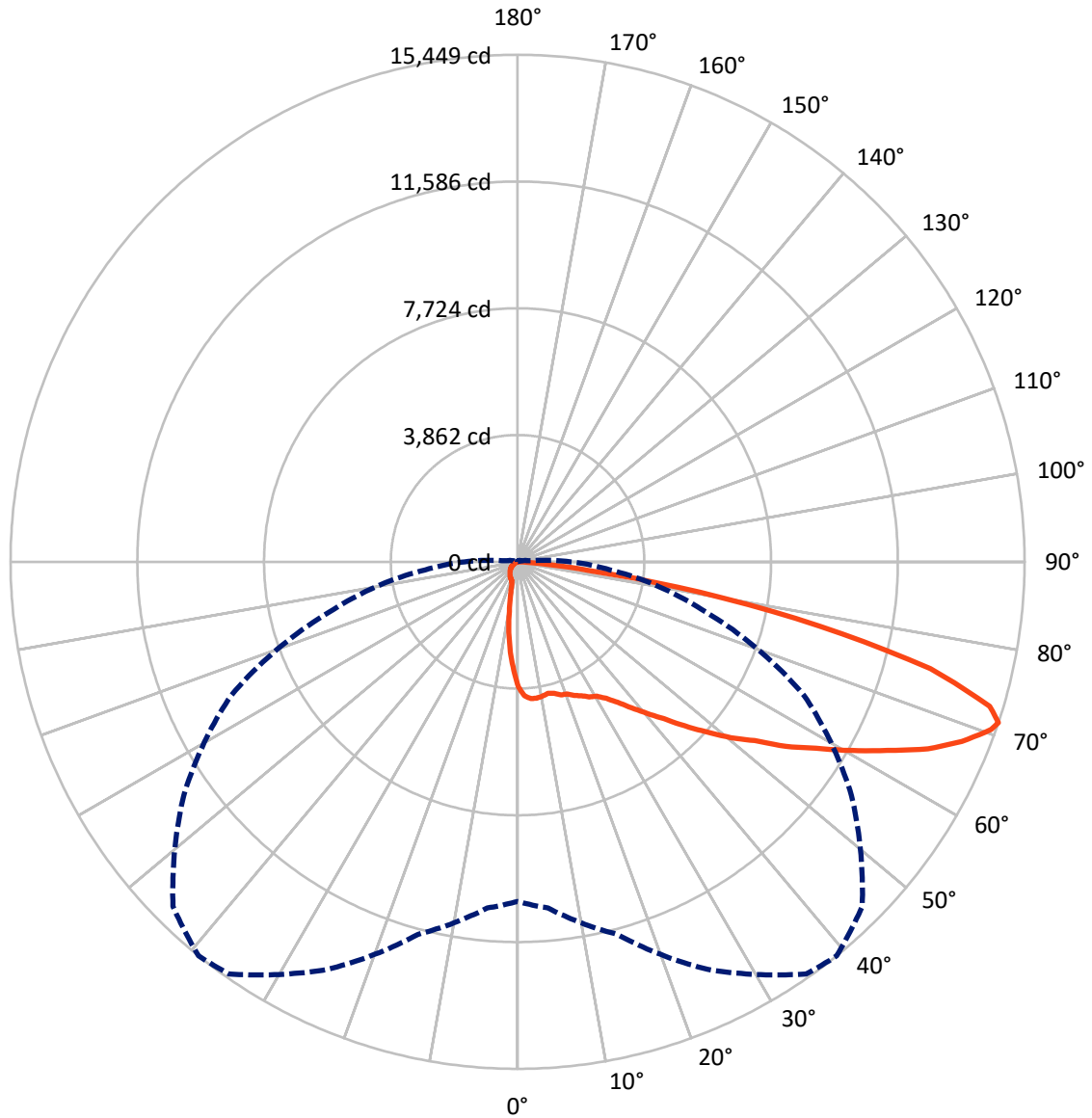
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 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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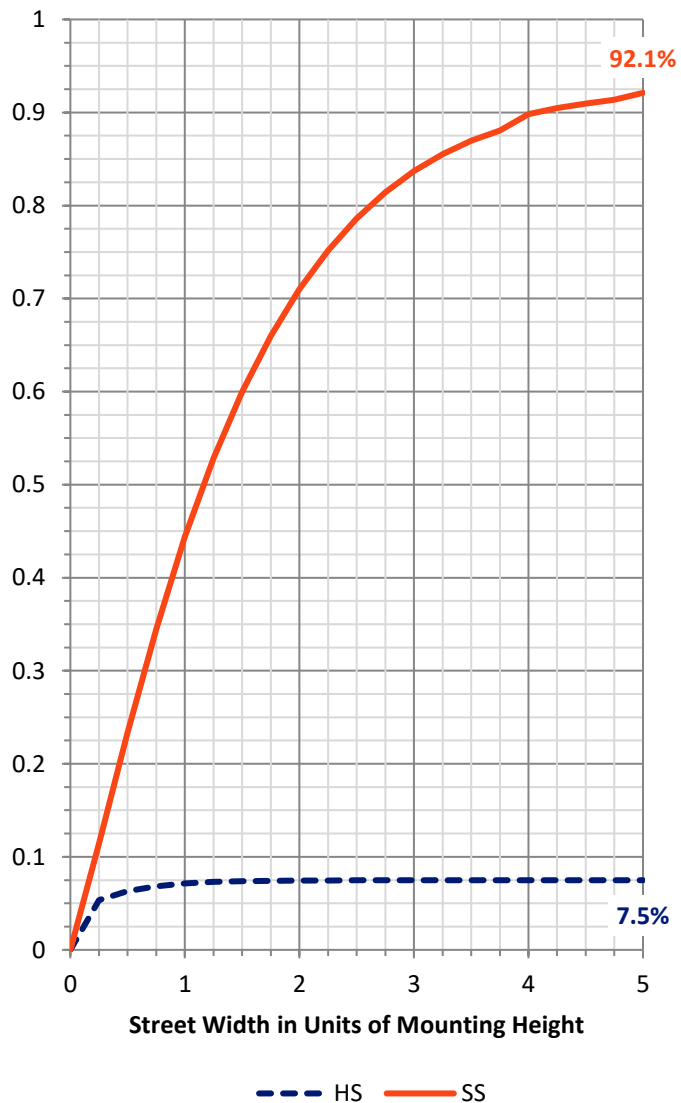
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1654.6	0.0	1654.6
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	20323.3	0.0	20323.3
	% Fixture	92.5	0.0	92.5
Total	Lumens	21977.9	0.0	21977.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	319.8	1.5
10°-20°	787.2	3.6
20°-30°	1263.7	5.8
30°-40°	1934.5	8.8
40°-50°	3105.2	14.1
50°-60°	4561.0	20.8
60°-70°	5744.4	26.1
70°-80°	3833.7	17.4
80°-90°	428.4	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°	21977.9	100.0
0°-180°	21977.9	100.0

Coefficient of Utilization

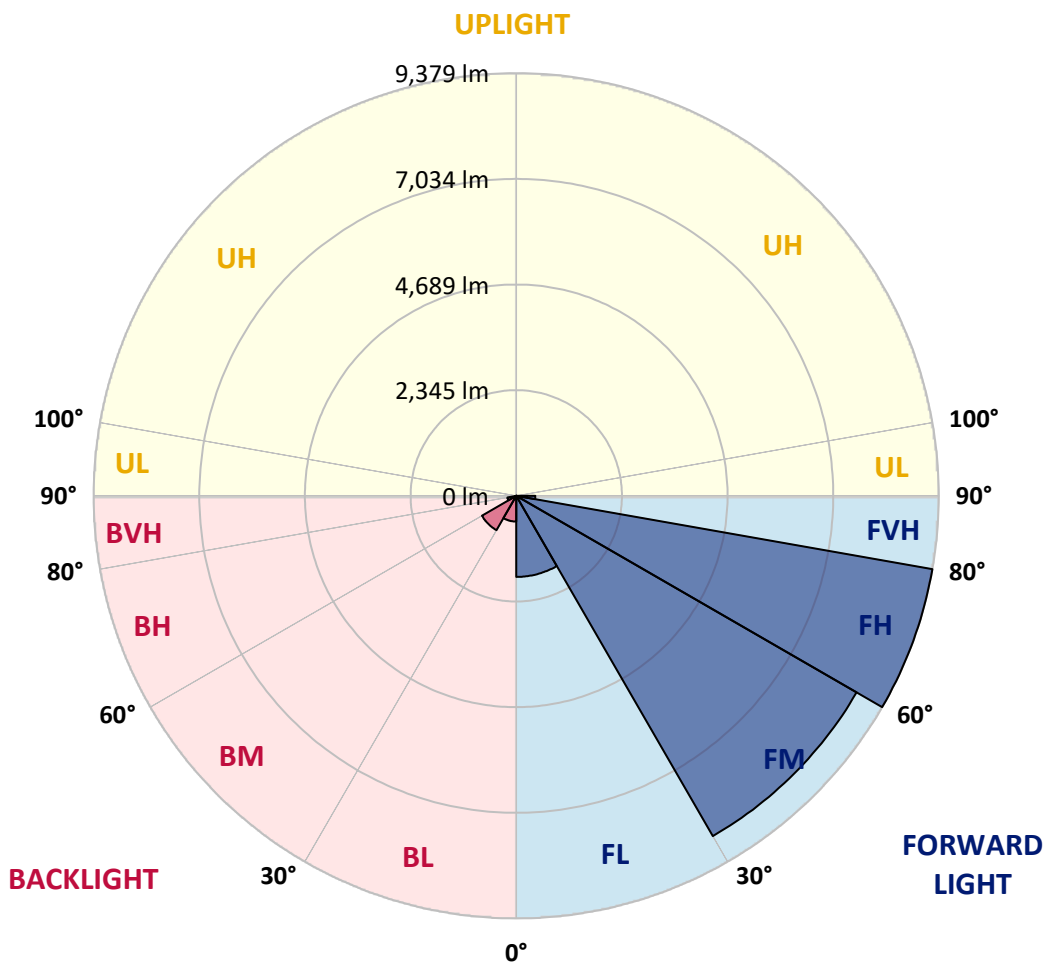


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1799.5	8.2			
FM (30°-60°)	8721.1	39.7			
FH (60°-80°)	9378.9	42.7			G4/12000
FVH (80°-90°)	423.7	1.9			G3/500
BL (0°-30°)	571.2	2.6	B2/1000		
BM (30°-60°)	879.5	4.0	B1/1000		
BH (60°-80°)	199.1	0.9	B1/500		G1/500
BVH (80°-90°)	4.7	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-G4
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°
0°	3825.4	3825.4	3825.4	3825.4	3825.4	3825.4	3825.4	3825.4	3825.4	3825.4
2.5°	4122.3	4162.7	4122.3	4105.0	4087.7	4090.6	4044.5	4053.1	3998.4	3926.3
5°	4252.0	4306.8	4263.6	4243.4	4240.5	4185.7	4162.7	4107.9	4041.6	3929.2
7.5°	4240.5	4229.0	4249.2	4231.9	4194.4	4194.4	4168.4	4090.6	4024.3	3897.5
10°	4154.0	4188.6	4171.3	4151.1	4159.8	4162.7	4113.7	4058.9	4038.7	3911.9
12.5°	4145.4	4087.7	4151.1	4154.0	4116.5	4113.7	4107.9	4093.5	4030.1	3914.8
15°	4116.5	4093.5	4156.9	4159.8	4168.4	4159.8	4168.4	4156.9	4093.5	4027.2
17.5°	4139.6	4113.7	4203.0	4246.3	4226.1	4266.4	4252.0	4200.1	4145.4	4067.5
20°	4145.4	4182.8	4280.9	4298.2	4361.6	4295.3	4292.4	4237.6	4203.0	4119.4
22.5°	4252.0	4269.3	4390.4	4427.9	4430.8	4422.1	4350.0	4286.6	4272.2	4168.4
25°	4413.5	4474.0	4528.8	4551.8	4560.5	4520.1	4445.2	4364.5	4329.9	4263.6
27.5°	4698.9	4661.4	4710.4	4745.0	4647.0	4661.4	4566.3	4497.1	4448.1	4390.4
30°	4952.5	4917.9	4920.8	4915.1	4831.5	4753.6	4727.7	4606.6	4546.1	4569.1
32.5°	5180.3	5105.3	5168.7	5139.9	4984.2	4961.2	4941.0	4788.2	4799.8	4906.4
35°	5390.7	5364.8	5416.7	5364.8	5261.0	5255.2	5235.0	5102.4	5165.9	5318.6
37.5°	5583.9	5592.5	5655.9	5630.0	5638.6	5644.4	5632.9	5491.6	5673.2	6016.3
40°	5762.6	5751.1	5906.7	5987.4	6004.7	6068.2	6068.2	6033.6	6313.2	6699.5
42.5°	5952.8	5981.7	6183.5	6319.0	6483.3	6538.0	6613.0	6630.3	7062.7	7503.8
45°	6264.2	6215.2	6471.7	6791.7	6935.9	7129.0	7244.3	7342.3	7864.1	8469.5
47.5°	6659.1	6561.1	6786.0	7250.1	7584.5	7743.0	7950.6	8080.3	8590.5	9216.1
50°	7097.3	6996.4	7105.9	7745.9	8135.1	8423.4	8688.6	8852.9	9469.8	10052.1
52.5°	7593.1	7500.9	7518.2	8261.9	8835.6	9046.0	9394.8	9639.9	10253.9	10556.6
55°	8120.7	8097.6	8042.8	8766.4	9449.6	9922.4	10132.8	10426.9	11058.2	10830.4
57.5°	8651.1	8579.0	8656.9	9435.2	10435.5	10718.0	11009.2	11185.0	11505.0	11069.7
60°	9149.8	9155.6	9265.1	10161.6	11274.4	11675.1	11937.4	11830.7	11963.3	11173.5
62.5°	9570.7	9559.1	9835.9	10977.5	12384.2	12655.2	12851.2	12375.6	12176.7	11274.4
65°	9948.3	10078.0	10513.3	11948.9	13427.8	13739.1	13620.9	12891.6	12384.2	10977.5
67.5°	10233.7	10426.9	11182.1	12862.8	14384.8	14603.9	14439.6	13283.6	12139.2	9812.8
70°	10400.9	10596.9	11660.7	13623.8	15148.8	15307.3	14921.0	12981.0	10709.4	7105.9
71°	10349.0	10588.3	11752.9	13704.5	15330.4	15448.6	14849.0	12421.7	9631.2	5950.0
72.5°	9879.1	10104.0	11369.5	13646.9	15111.3	15039.2	14286.8	11078.4	7581.6	3793.7
75°	7258.7	7500.9	9758.1	11804.8	13488.3	12992.5	11562.6	7774.7	3955.1	1161.7
77.5°	3614.9	3655.3	6056.6	8570.4	9893.5	9400.6	7748.8	4335.6	1478.8	343.0
80°	1666.2	1677.8	2271.6	4439.4	5981.7	5630.0	4341.4	2139.0	668.8	181.6
82.5°	1135.8	1153.1	1369.3	1839.2	2597.3	2190.9	1758.5	1369.3	383.4	109.5
85°	207.6	190.3	766.8	974.4	1003.2	680.3	608.3	1184.8	144.1	63.4
87.5°	0.0	2.9	106.7	397.8	357.5	158.6	207.6	288.3	14.4	20.2
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°
3825.4	0°	3825.4	3825.4	3825.4	3825.4	3825.4	3825.4	3825.4	3825.4	3825.4	3825.4
3868.6	2.5°	3819.6	3787.9	3681.3	3563.1	3456.4	3372.8	3266.1	3217.1	3139.3	3096.1
3860.0	5°	3764.9	3678.4	3493.9	3295.0	3073.0	2888.5	2683.8	2568.5	2435.9	2395.6
3779.3	7.5°	3672.6	3548.6	3277.7	2998.0	2657.9	2332.1	2081.3	1813.2	1648.9	1579.7
3718.7	10°	3614.9	3465.0	3096.1	2678.1	2202.4	1744.1	1392.4	1107.0	957.1	885.0
3733.1	12.5°	3614.9	3453.5	2949.0	2372.5	1741.2	1193.5	861.9	697.6	648.6	631.3
3796.6	15°	3606.3	3430.5	2807.8	2058.3	1288.6	801.4	642.8	608.3	602.5	599.6
3857.1	17.5°	3649.5	3390.1	2663.6	1721.0	910.9	631.3	591.0	585.2	579.4	579.4
3894.6	20°	3681.3	3367.0	2490.7	1363.5	680.3	585.2	567.9	559.3	556.4	553.5
3903.2	22.5°	3655.3	3332.4	2277.4	1020.5	593.8	556.4	544.8	536.2	530.4	530.4
3992.6	25°	3704.3	3300.7	2064.0	769.7	556.4	530.4	518.9	513.1	510.2	507.4
4096.4	27.5°	3770.6	3315.1	1810.4	619.8	524.7	504.5	492.9	487.2	484.3	478.5
4257.8	30°	3851.3	3312.3	1530.7	542.0	495.8	475.7	464.1	461.2	455.5	452.6
4499.9	32.5°	3989.7	3387.2	1242.5	501.6	464.1	446.8	435.3	432.4	429.5	426.6
4915.1	35°	4286.6	3479.5	971.5	469.9	435.3	415.1	406.5	400.7	397.8	394.9
5399.4	37.5°	4652.7	3684.1	740.9	441.1	406.5	386.3	377.6	374.8	363.2	360.3
6071.0	40°	5111.1	3903.2	570.8	409.3	380.5	360.3	351.7	343.0	328.6	322.9
6757.1	42.5°	5681.9	4116.5	469.9	380.5	351.7	337.3	322.9	308.5	296.9	285.4
7443.2	45°	6252.7	4364.5	412.2	354.6	328.6	311.3	299.8	279.6	259.4	242.1
8091.8	47.5°	6728.3	4453.8	377.6	325.7	305.6	291.2	273.9	247.9	219.1	201.8
8564.6	50°	7082.9	4401.9	343.0	296.9	279.6	265.2	242.1	210.4	181.6	164.3
8731.8	52.5°	7152.1	4174.2	311.3	273.9	253.7	236.4	210.4	175.8	144.1	126.8
8913.4	55°	7103.1	3796.6	285.4	253.7	230.6	204.7	175.8	141.3	112.4	95.1
8844.2	57.5°	7002.2	3349.7	256.6	227.7	201.8	175.8	144.1	115.3	83.6	66.3
8685.7	60°	6659.1	2741.5	227.7	198.9	173.0	149.9	118.2	83.6	57.7	43.2
8408.9	62.5°	6180.6	2107.3	198.9	170.1	149.9	124.0	92.2	60.5	34.6	23.1
7630.6	65°	5307.1	1476.0	167.2	141.3	124.0	100.9	69.2	37.5	20.2	8.6
6215.2	67.5°	4032.9	913.8	138.4	118.2	106.7	80.7	49.0	23.1	8.6	2.9
3877.3	70°	2314.8	475.7	109.5	95.1	83.6	60.5	34.6	11.5	5.8	0.0
2828.0	71°	1617.2	351.7	98.0	83.6	75.0	54.8	28.8	8.6	2.9	0.0
1461.5	72.5°	810.0	233.5	83.6	69.2	60.5	43.2	23.1	8.6	2.9	0.0
426.6	75°	288.3	149.9	57.7	46.1	43.2	31.7	14.4	5.8	2.9	0.0
213.3	77.5°	198.9	121.1	40.4	28.8	28.8	20.2	8.6	2.9	2.9	0.0
167.2	80°	181.6	66.3	25.9	17.3	14.4	11.5	5.8	2.9	0.0	0.0
164.3	82.5°	181.6	49.0	14.4	11.5	8.6	5.8	2.9	0.0	0.0	0.0
144.1	85°	126.8	25.9	8.6	8.6	5.8	2.9	0.0	0.0	0.0	0.0
25.9	87.5°	20.2	8.6	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°
3825.4
3093.2
2386.9
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