

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: P575363

Luminaire Tested: **EPH-VN-03-730-U-SL2-HSS**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575363
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-03-730-U-SL2-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL2 distribution lens and House Side Shield
Light Source: (48) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

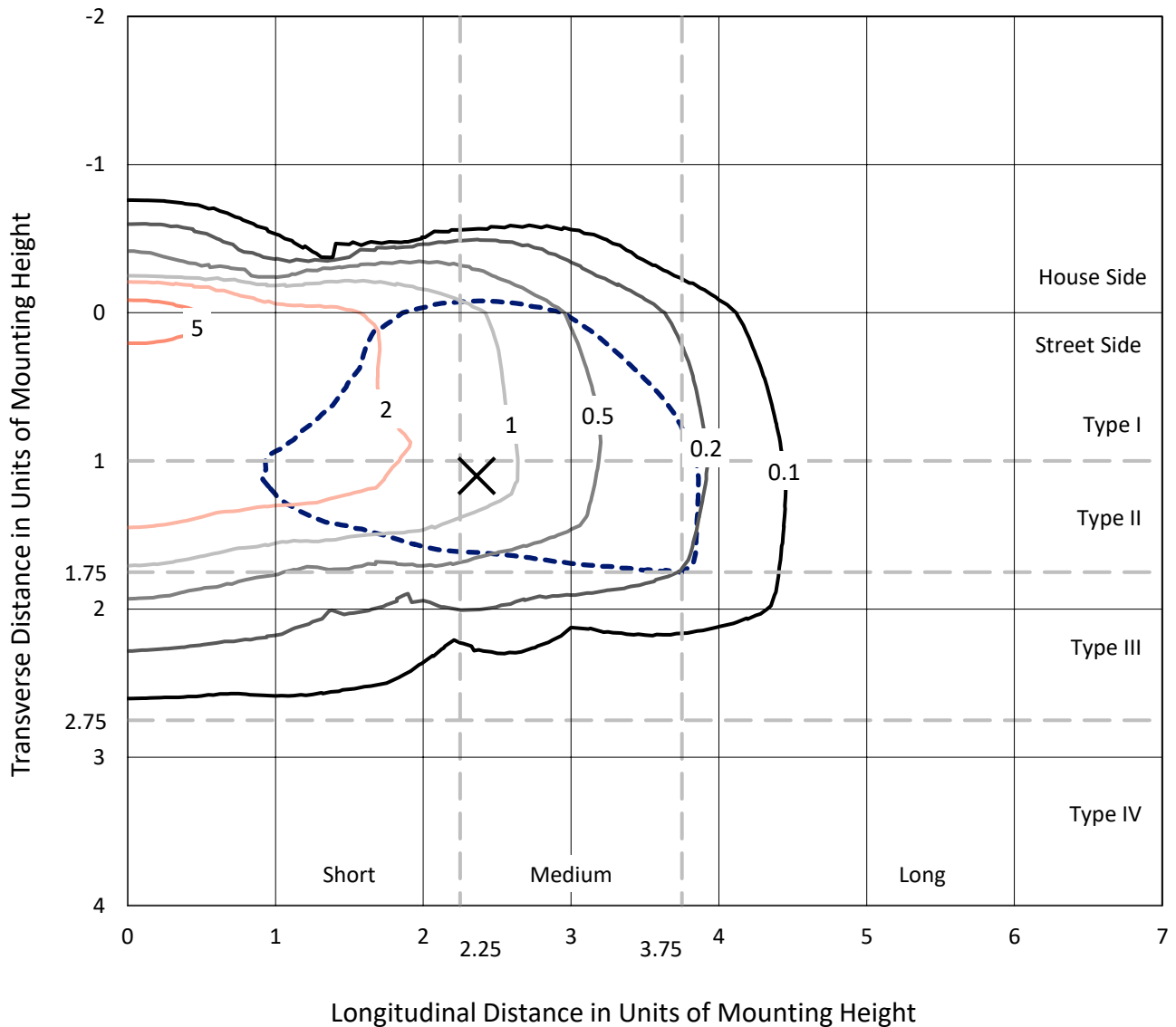
Lumens per Lamp: N/A
Luminaire Lumens: 17468.4 lumens
Efficiency: N/A
Efficacy: 94.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G3

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

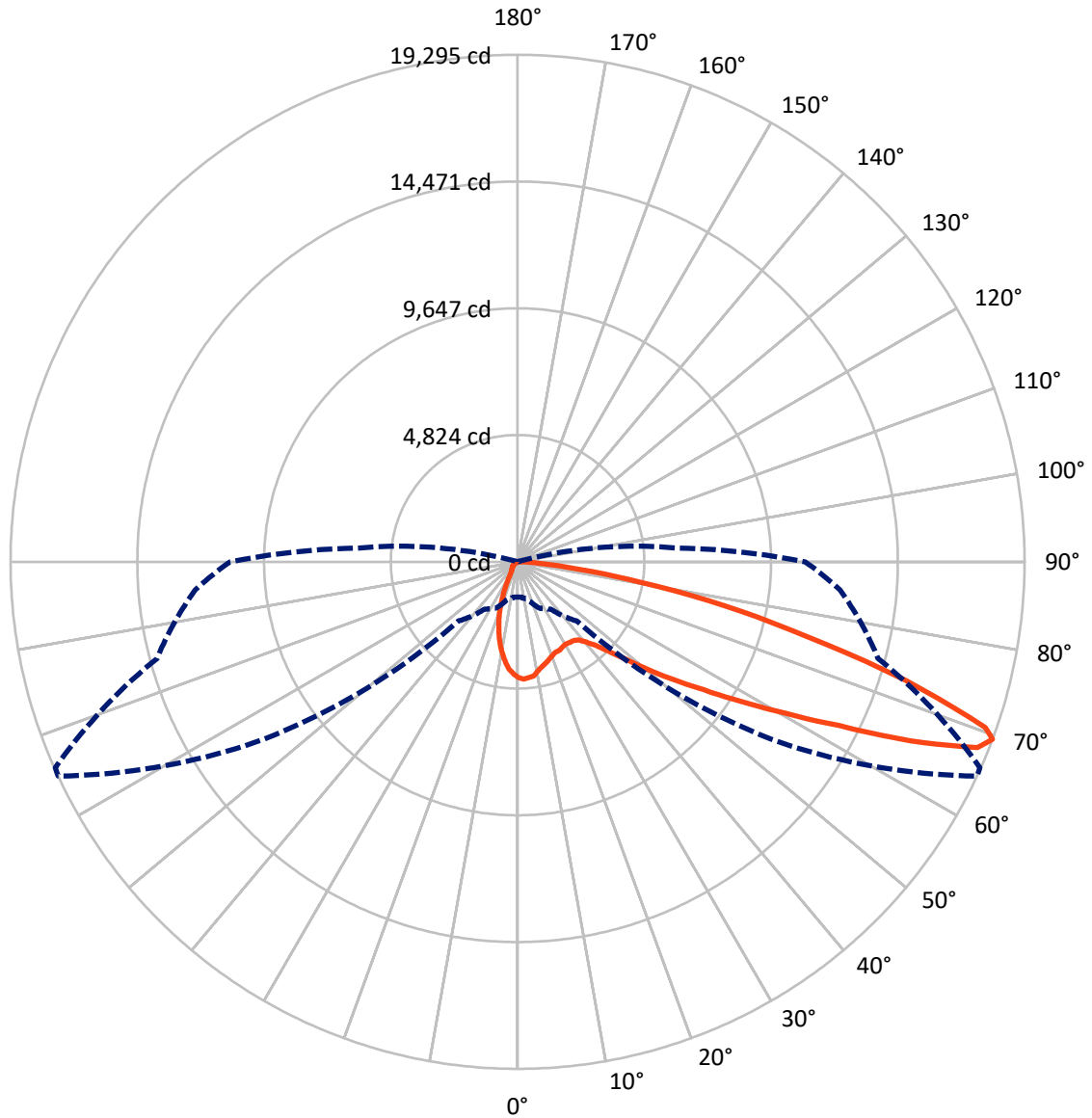
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 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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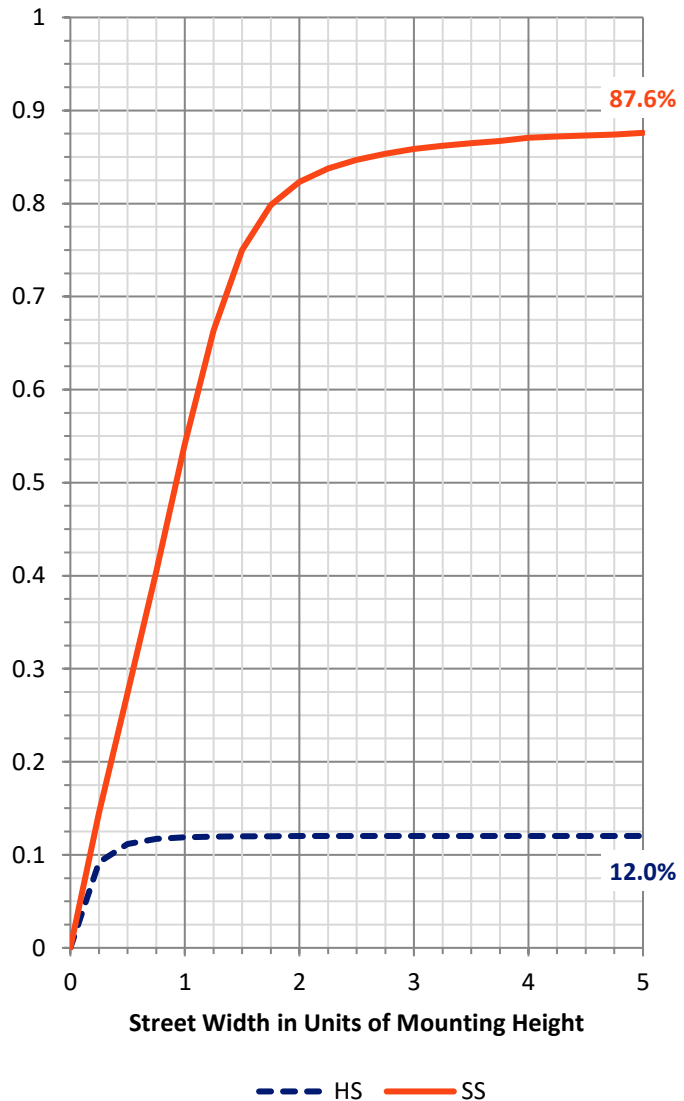
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2119.0	0.0	2119.0
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	15349.4	0.0	15349.4
	% Fixture	87.9	0.0	87.9
Total	Lumens	17468.4	0.0	17468.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	360.4	2.1
10°-20°	788.6	4.5
20°-30°	1097.9	6.3
30°-40°	1555.8	8.9
40°-50°	2451.8	14.0
50°-60°	3978.5	22.8
60°-70°	4443.2	25.4
70°-80°	2502.0	14.3
80°-90°	290.3	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°	17468.4	100.0
0°-180°	17468.4	100.0

Coefficient of Utilization

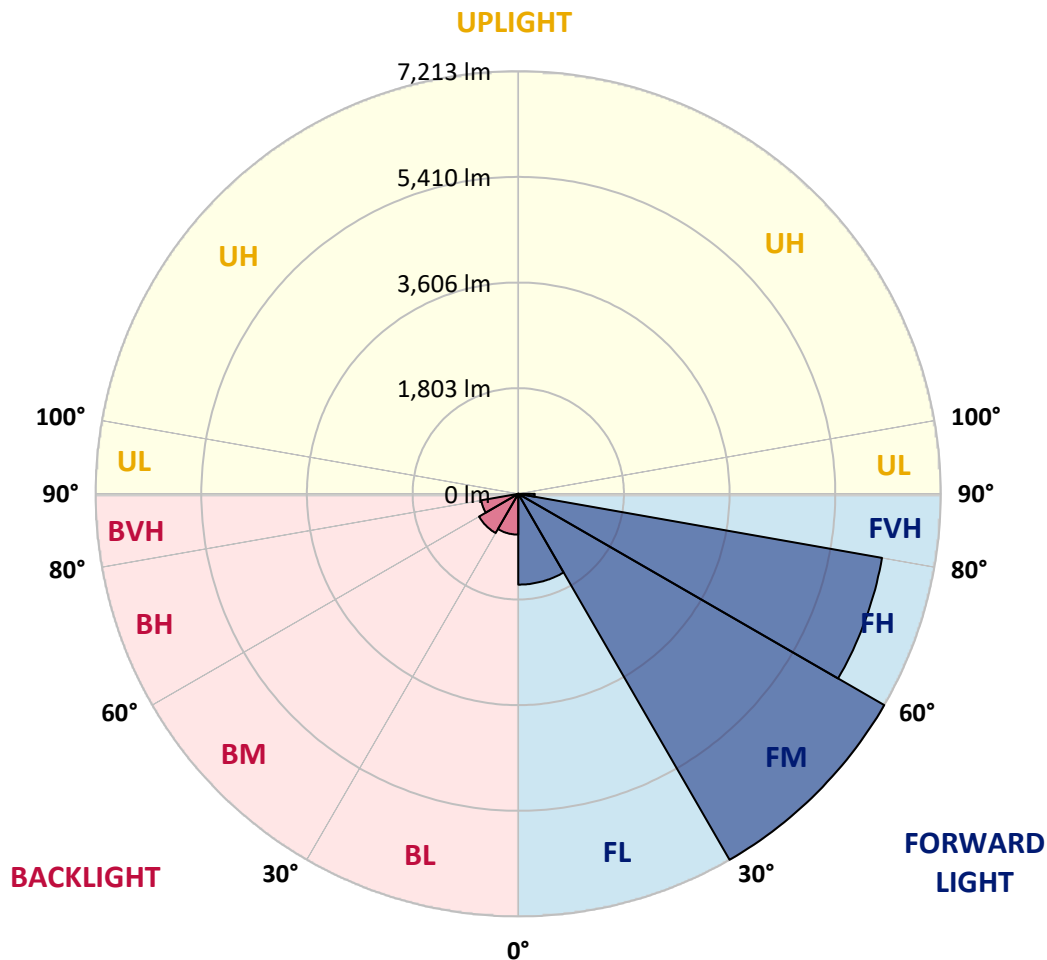


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1550.2	8.9			
FM (30°-60°)	7212.9	41.3			
FH (60°-80°)	6304.1	36.1			G3/7500
FVH (80°-90°)	282.3	1.6			G3/500
BL (0°-30°)	696.7	4.0	B2/1000		
BM (30°-60°)	773.2	4.4	B1/1000		
BH (60°-80°)	641.1	3.7	B2/1000		G2/1000
BVH (80°-90°)	8.0	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°	4404.2	4404.2	4404.2	4404.2	4404.2	4404.2	4404.2	4404.2	4404.2	4404.2
2.5°	4241.6	4274.6	4284.0	4317.0	4333.5	4404.2	4444.3	4467.8	4456.0	4482.0
5°	3940.0	3921.1	3970.6	4006.0	4081.4	4203.9	4328.8	4425.4	4470.2	4512.6
7.5°	3617.1	3607.7	3657.2	3737.3	3805.7	3954.1	4154.4	4392.4	4383.0	4486.7
10°	3395.6	3405.1	3421.6	3501.7	3603.0	3753.8	4003.6	4225.1	4274.6	4493.7
12.5°	3193.0	3209.5	3240.1	3322.6	3440.4	3595.9	3838.7	4097.9	4173.3	4453.7
15°	3127.0	3089.3	3150.6	3211.8	3334.4	3473.4	3678.4	4001.2	4034.2	4406.6
17.5°	3072.8	3049.2	3077.5	3127.0	3256.6	3369.7	3562.9	3897.6	3958.8	4387.7
20°	3089.3	3068.1	3079.9	3117.6	3176.5	3282.5	3461.6	3798.6	3864.6	4300.5
22.5°	3136.4	3152.9	3131.7	3141.1	3160.0	3214.2	3407.4	3727.9	3784.5	4284.0
25°	3348.5	3320.2	3292.0	3280.2	3169.4	3193.0	3390.9	3723.2	3763.2	4225.1
27.5°	3570.0	3546.5	3534.7	3466.3	3315.5	3244.8	3393.3	3657.2	3711.4	4201.5
30°	3838.7	3869.3	3822.2	3739.7	3530.0	3355.6	3419.2	3624.2	3699.6	4112.0
32.5°	4121.4	4137.9	4161.5	4100.2	3829.2	3522.9	3497.0	3654.8	3659.6	4112.0
35°	4441.9	4418.3	4479.6	4484.3	4246.3	3819.8	3645.4	3676.1	3725.5	4093.1
37.5°	4717.6	4757.7	4828.4	4941.5	4696.4	4239.2	3876.4	3775.0	3796.2	4180.3
40°	5019.2	5059.3	5219.5	5332.6	5193.6	4710.5	4227.5	4006.0	4022.5	4309.9
42.5°	5351.5	5429.3	5620.1	5818.1	5780.4	5309.1	4679.9	4345.3	4338.2	4632.8
45°	5801.6	5905.3	6112.6	6341.2	6374.2	5994.8	5283.2	4851.9	4875.5	5054.6
47.5°	6428.4	6423.7	6626.3	6880.8	7071.7	6706.4	6004.2	5532.9	5530.6	5721.5
50°	7034.0	7036.3	7090.5	7385.1	7880.0	7693.8	6897.3	6437.8	6411.9	6506.1
52.5°	7314.4	7281.4	7241.4	7597.2	8502.1	8938.0	8028.4	7462.9	7441.7	7385.1
55°	7019.9	7031.6	7029.3	7399.2	8829.6	10250.5	9480.0	8591.6	8556.3	8379.5
57.5°	6074.9	6037.2	6119.7	6697.0	8454.9	11146.0	11556.0	10014.9	9923.0	9336.2
60°	4522.0	4533.8	4602.1	5283.2	7524.1	11334.5	13542.5	11685.6	11289.7	10010.2
62.5°	3157.6	3134.1	3160.0	3541.7	5379.8	10580.4	14885.7	13716.9	13335.1	10776.0
65°	2259.8	2229.2	2332.9	2566.2	3230.7	8089.7	15076.5	16422.1	16080.4	11999.0
67.5°	1625.9	1621.2	1741.4	2165.6	2295.2	4658.7	13662.7	18872.8	18665.4	13450.6
69°	1345.5	1347.9	1463.4	1939.4	2191.5	3181.2	11756.3	19294.6	19256.9	14199.9
70°	1173.5	1182.9	1317.3	1805.0	2149.1	2615.7	10135.1	18879.8	18842.1	14346.0
72.5°	723.4	730.5	907.2	1446.9	2043.0	2134.9	6060.8	15446.5	15576.1	13676.8
75°	346.4	348.8	476.0	1046.3	1970.0	2024.2	3247.2	11398.1	11671.5	11042.3
77.5°	183.8	183.8	228.6	556.1	1595.3	1904.0	1927.6	8040.2	8266.4	6982.1
80°	91.9	94.3	139.0	289.8	989.7	1866.3	1505.8	4795.4	4917.9	2848.9
82.5°	35.3	37.7	66.0	174.4	513.7	1576.5	1322.0	2358.8	2328.2	666.9
85°	4.7	4.7	23.6	103.7	219.1	695.2	1091.0	985.0	952.0	146.1
87.5°	0.0	0.0	4.7	30.6	66.0	202.7	421.8	271.0	301.6	40.1
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°
4404.2	0°	4404.2	4404.2	4404.2	4404.2	4404.2	4404.2	4404.2	4404.2	4404.2	4404.2
4484.3	2.5°	4472.5	4423.0	4347.6	4274.6	4196.8	4102.6	3998.9	3961.2	3895.2	3890.5
4505.5	5°	4467.8	4387.7	4255.7	4100.2	3878.7	3711.4	3530.0	3398.0	3296.7	3230.7
4517.3	7.5°	4491.4	4394.8	4166.2	3831.6	3546.5	3214.2	2933.8	2740.5	2563.8	2476.6
4555.0	10°	4453.7	4324.1	3989.5	3520.5	3101.1	2636.9	2226.8	1967.6	1703.7	1607.1
4576.2	12.5°	4474.9	4293.4	3798.6	3200.1	2622.7	2019.5	1529.3	1175.9	928.4	848.3
4611.6	15°	4489.0	4227.5	3614.8	2816.0	2092.5	1376.2	886.0	666.9	589.1	575.0
4606.9	17.5°	4434.8	4147.3	3355.6	2436.6	1550.5	836.5	589.1	544.3	530.2	520.8
4599.8	20°	4432.5	4100.2	3131.7	2047.8	1034.5	570.3	509.0	492.5	471.3	464.2
4639.8	22.5°	4392.4	4001.2	2863.1	1621.2	659.8	490.1	457.2	431.2	407.7	398.2
4606.9	25°	4380.6	3885.8	2610.9	1218.3	501.9	438.3	405.3	367.6	339.3	325.2
4566.8	27.5°	4347.6	3786.8	2356.4	857.7	438.3	391.2	348.8	308.7	275.7	254.5
4540.9	30°	4229.8	3683.1	2073.7	593.8	398.2	346.4	299.3	252.1	219.1	205.0
4482.0	32.5°	4180.3	3586.5	1765.0	457.2	362.9	306.3	252.1	209.7	183.8	169.7
4460.8	35°	4121.4	3445.1	1465.7	398.2	329.9	266.3	212.1	176.7	155.5	143.7
4477.2	37.5°	4128.5	3332.0	1185.3	360.5	294.6	228.6	181.4	150.8	132.0	120.2
4562.1	40°	4107.3	3242.5	921.4	327.5	261.6	195.6	153.2	127.2	110.8	99.0
4736.5	42.5°	4203.9	3218.9	695.2	299.3	228.6	167.3	132.0	108.4	91.9	77.8
5097.0	45°	4366.5	3256.6	542.0	273.3	195.6	143.7	113.1	89.5	73.0	63.6
5631.9	47.5°	4800.1	3405.1	424.2	252.1	167.3	124.9	94.3	73.0	58.9	49.5
6362.4	50°	5429.3	3737.3	360.5	221.5	141.4	106.0	77.8	56.6	47.1	37.7
7347.4	52.5°	6324.7	4295.8	327.5	195.6	117.8	87.2	61.3	44.8	35.3	28.3
8431.4	55°	7300.3	4993.3	296.9	165.0	99.0	70.7	49.5	35.3	25.9	18.9
9218.4	57.5°	8061.4	5596.6	271.0	136.7	80.1	56.6	37.7	25.9	18.9	11.8
9847.6	60°	8893.2	6020.7	238.0	108.4	66.0	42.4	28.3	18.9	14.1	7.1
10681.8	62.5°	9751.0	6517.9	195.6	84.8	51.8	33.0	21.2	14.1	9.4	2.4
11772.8	65°	10943.3	6906.7	150.8	66.0	40.1	23.6	16.5	11.8	4.7	0.0
12437.3	67.5°	11280.3	6715.9	110.8	51.8	28.3	16.5	11.8	7.1	2.4	0.0
12312.4	69°	10943.3	6049.0	96.6	44.8	23.6	14.1	9.4	4.7	2.4	0.0
11900.1	70°	10328.3	5530.6	84.8	37.7	21.2	14.1	7.1	4.7	2.4	0.0
10252.9	72.5°	8638.7	4241.6	66.0	28.3	16.5	11.8	7.1	4.7	0.0	0.0
8011.9	75°	6336.5	2620.4	49.5	21.2	14.1	9.4	7.1	4.7	0.0	0.0
4555.0	77.5°	3395.6	956.7	35.3	14.1	9.4	7.1	7.1	4.7	0.0	0.0
1418.6	80°	930.8	282.8	25.9	9.4	7.1	4.7	4.7	2.4	0.0	0.0
346.4	82.5°	254.5	73.0	16.5	9.4	7.1	4.7	2.4	0.0	0.0	0.0
167.3	85°	136.7	28.3	9.4	7.1	4.7	2.4	0.0	0.0	0.0	0.0
82.5	87.5°	70.7	9.4	7.1	4.7	4.7	2.4	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°
4404.2
3928.2
3247.2
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252.1
200.3
167.3
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