

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: P575461

Luminaire Tested: **EPH-VN-03-750-U-SL4-HSS**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575461
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-03-750-U-SL4-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL4 distribution lens and House Side Shield
Light Source: (48) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

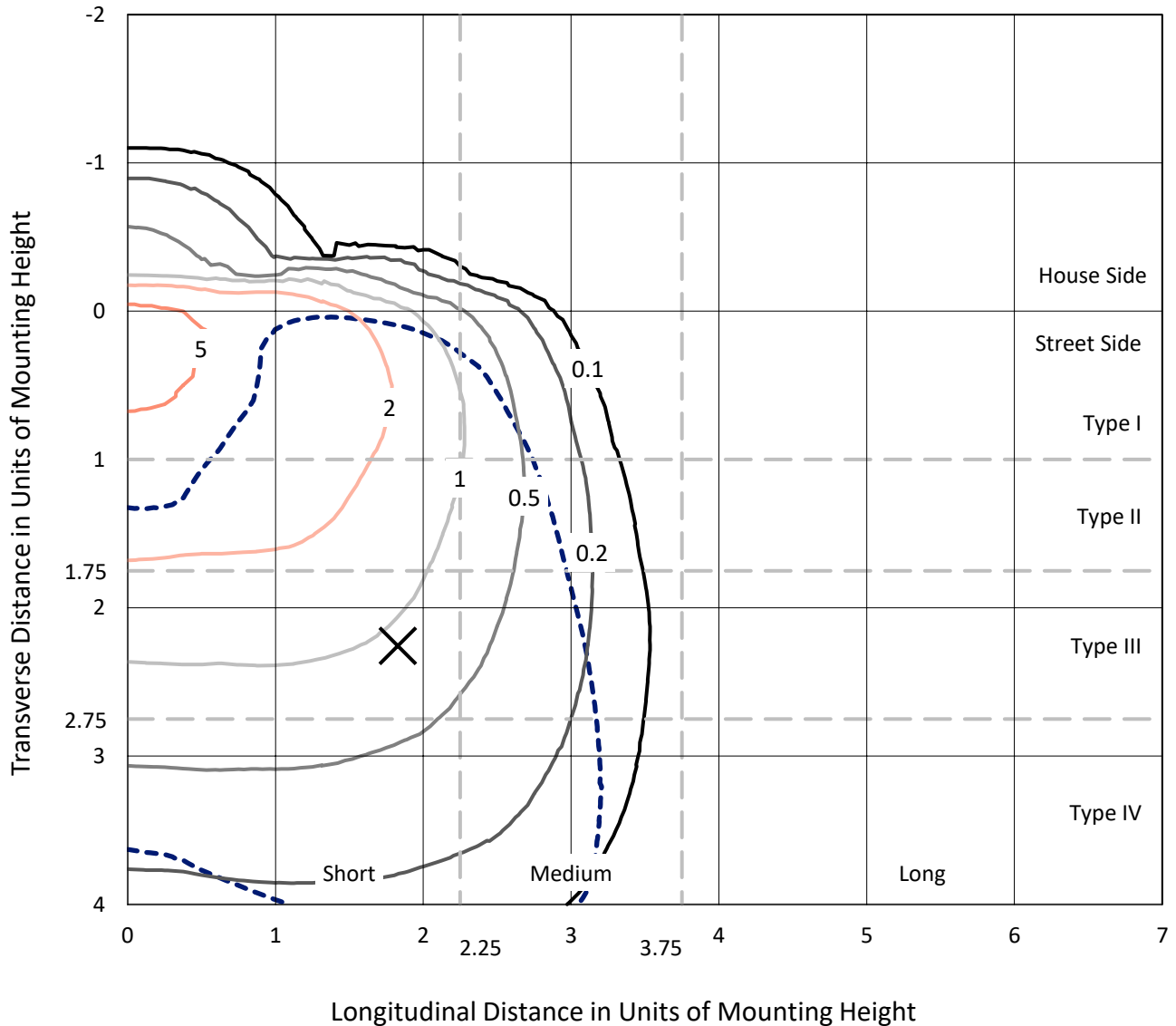
Lumens per Lamp: N/A
Luminaire Lumens: 22793.4 lumens
Efficiency: N/A
Efficacy: 123.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

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

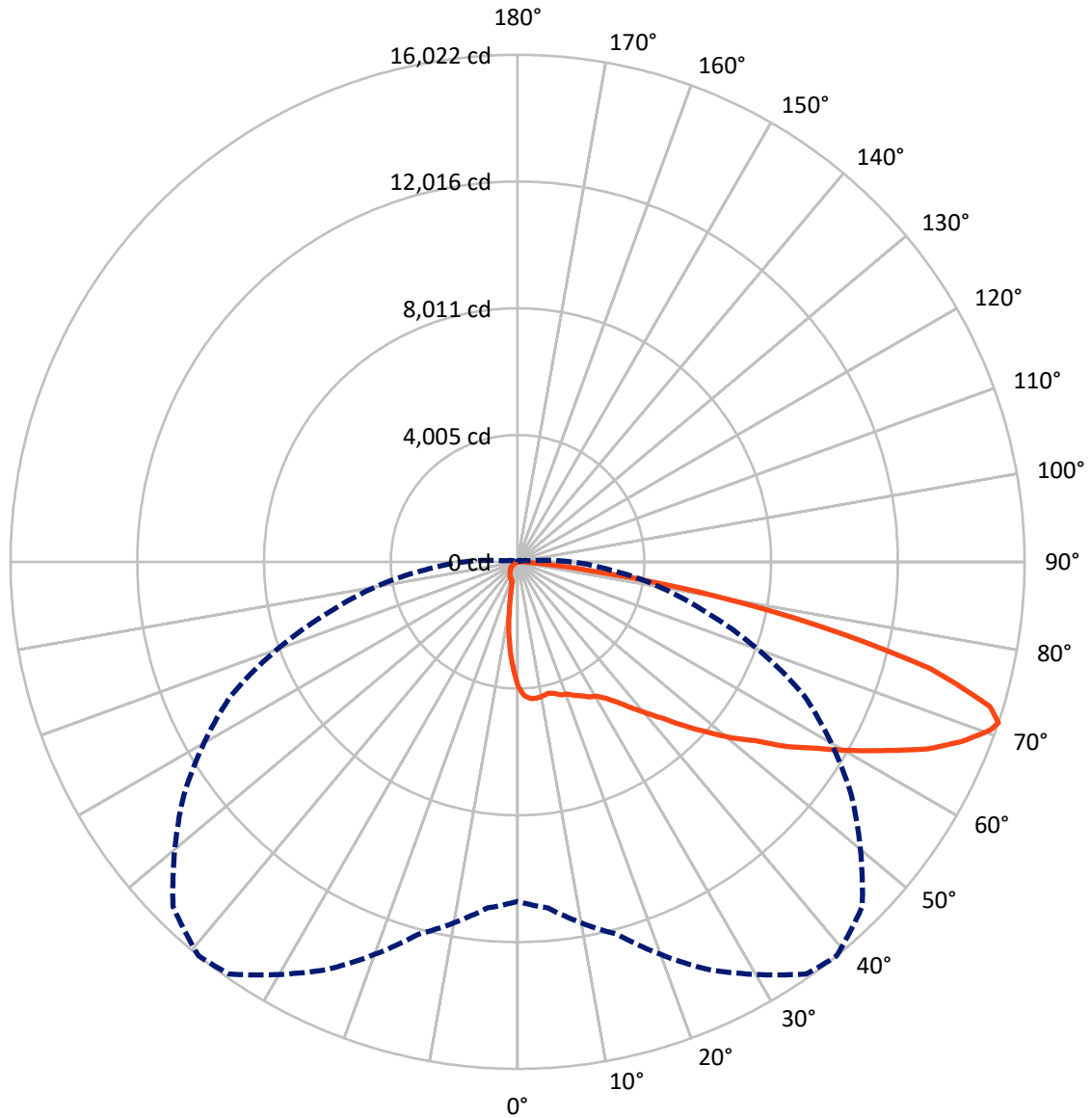
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 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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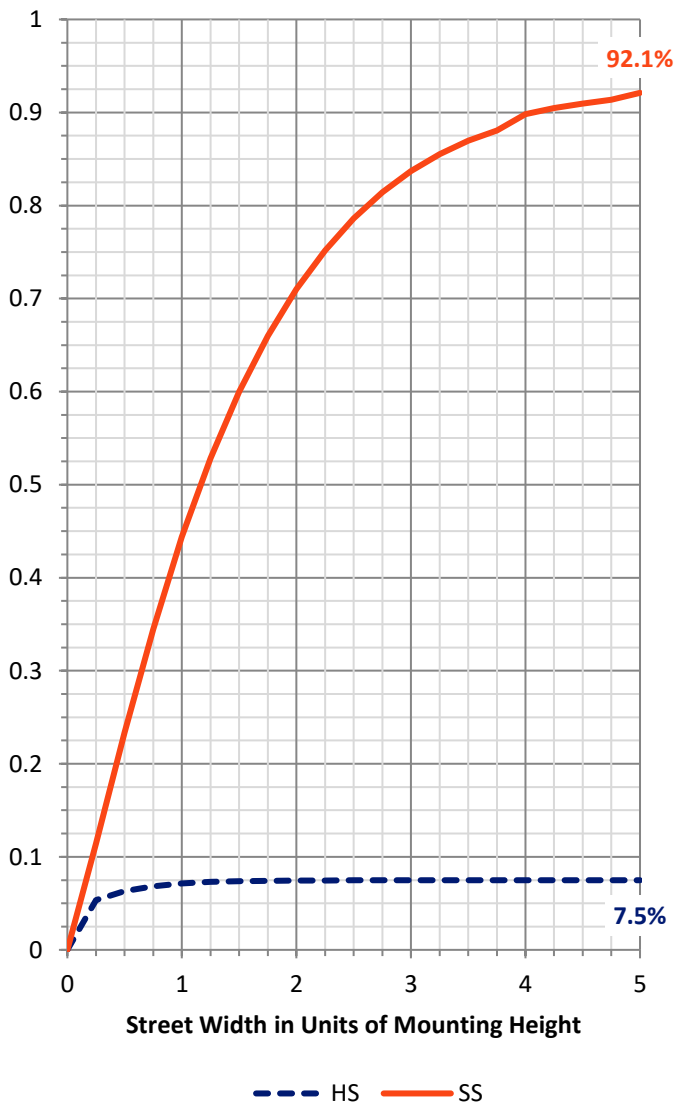
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1716.0	0.0	1716.0
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	21077.5	0.0	21077.5
	% Fixture	92.5	0.0	92.5
Total	Lumens	22793.4	0.0	22793.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	331.7	1.5
10°-20°	816.4	3.6
20°-30°	1310.6	5.8
30°-40°	2006.3	8.8
40°-50°	3220.4	14.1
50°-60°	4730.2	20.8
60°-70°	5957.6	26.1
70°-80°	3975.9	17.4
80°-90°	444.3	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°	22793.4	100.0
0°-180°	22793.4	100.0

Coefficient of Utilization

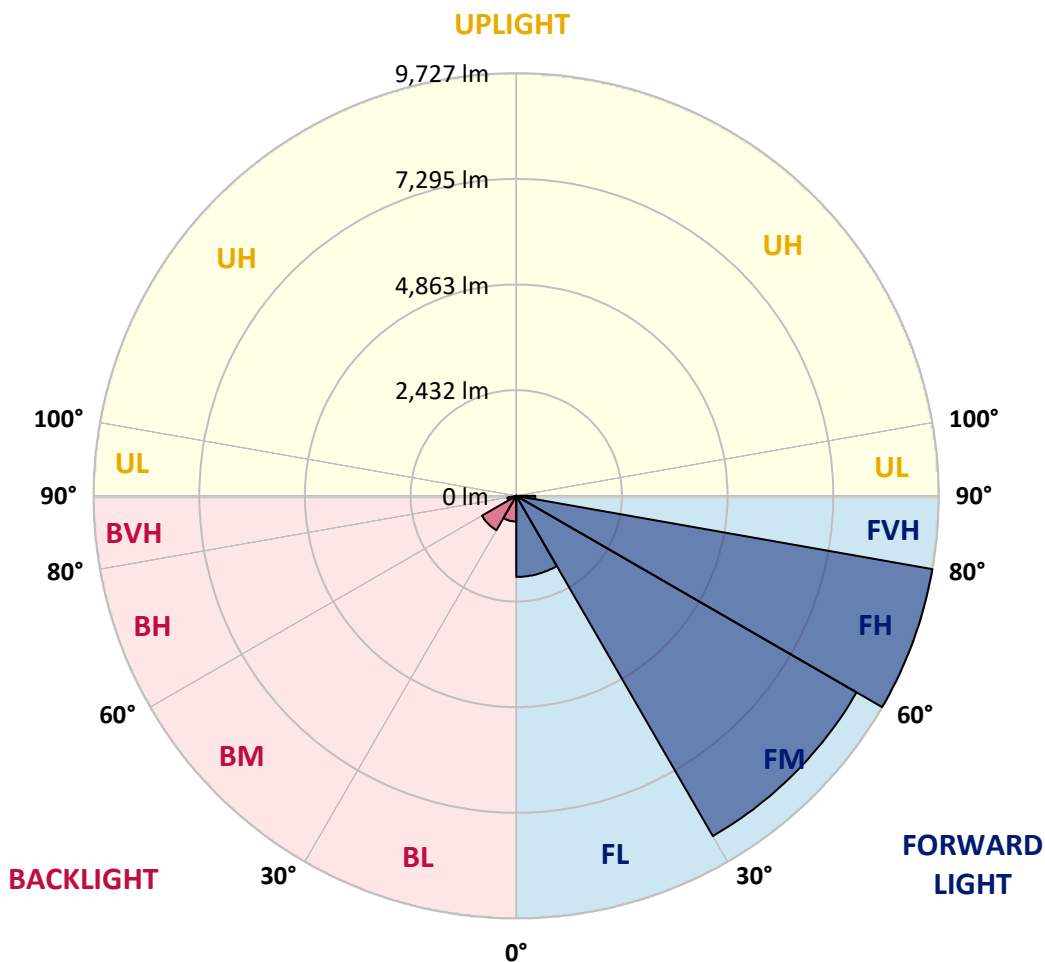


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1866.3	8.2			
FM (30°-60°)	9044.8	39.7			
FH (60°-80°)	9726.9	42.7			G4/12000
FVH (80°-90°)	439.4	1.9			G3/500
BL (0°-30°)	592.4	2.6	B2/1000		
BM (30°-60°)	912.1	4.0	B1/1000		
BH (60°-80°)	206.5	0.9	B1/500		G1/500
BVH (80°-90°)	4.9	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°	3967.3	3967.3	3967.3	3967.3	3967.3	3967.3	3967.3	3967.3	3967.3	3967.3
2.5°	4275.3	4317.1	4275.3	4257.3	4239.4	4242.4	4194.6	4203.5	4146.7	4072.0
5°	4409.8	4466.6	4421.8	4400.9	4397.9	4341.1	4317.1	4260.3	4191.6	4075.0
7.5°	4397.9	4385.9	4406.8	4388.9	4350.0	4350.0	4323.1	4242.4	4173.6	4042.1
10°	4308.2	4344.0	4326.1	4305.2	4314.1	4317.1	4266.3	4209.5	4188.6	4057.0
12.5°	4299.2	4239.4	4305.2	4308.2	4269.3	4266.3	4260.3	4245.4	4179.6	4060.0
15°	4269.3	4245.4	4311.2	4314.1	4323.1	4314.1	4323.1	4311.2	4245.4	4176.6
17.5°	4293.2	4266.3	4359.0	4403.8	4382.9	4424.8	4409.8	4356.0	4299.2	4218.5
20°	4299.2	4338.1	4439.7	4457.7	4523.4	4454.7	4451.7	4394.9	4359.0	4272.3
22.5°	4409.8	4427.8	4553.3	4592.2	4595.2	4586.2	4511.5	4445.7	4430.7	4323.1
25°	4577.2	4640.0	4696.8	4720.7	4729.7	4687.9	4610.1	4526.4	4490.5	4421.8
27.5°	4873.2	4834.4	4885.2	4921.1	4819.4	4834.4	4735.7	4663.9	4613.1	4553.3
30°	5136.3	5100.4	5103.4	5097.5	5010.8	4930.0	4903.1	4777.6	4714.8	4738.7
32.5°	5372.5	5294.8	5360.5	5330.7	5169.2	5145.3	5124.4	4965.9	4977.9	5088.5
35°	5590.8	5563.8	5617.7	5563.8	5456.2	5450.2	5429.3	5291.8	5357.6	5516.0
37.5°	5791.1	5800.0	5865.8	5838.9	5847.9	5853.8	5841.9	5695.4	5883.7	6239.5
40°	5976.4	5964.5	6125.9	6209.6	6227.6	6293.3	6293.3	6257.5	6547.5	6948.1
42.5°	6173.7	6203.6	6412.9	6553.4	6723.9	6780.7	6858.4	6876.3	7324.8	7782.2
45°	6496.6	6445.8	6711.9	7043.8	7193.2	7393.5	7513.1	7614.8	8155.9	8783.8
47.5°	6906.2	6804.6	7037.8	7519.1	7865.9	8030.4	8245.6	8380.2	8909.3	9558.1
50°	7360.7	7256.0	7369.6	8033.3	8437.0	8735.9	9011.0	9181.4	9821.2	10425.1
52.5°	7874.9	7779.2	7797.2	8568.5	9163.5	9381.7	9743.5	9997.6	10634.4	10948.3
55°	8422.0	8398.1	8341.3	9091.7	9800.3	10290.6	10508.8	10813.8	11468.5	11232.3
57.5°	8972.1	8897.4	8978.1	9785.3	10822.7	11115.7	11417.7	11600.1	11931.9	11480.5
60°	9489.3	9495.3	9608.9	10538.7	11692.7	12108.3	12380.4	12269.8	12407.3	11588.1
62.5°	9925.8	9913.9	10200.9	11384.8	12843.8	13124.8	13328.1	12834.8	12628.5	11692.7
65°	10317.5	10452.0	10903.5	12392.3	13926.1	14249.0	14126.4	13370.0	12843.8	11384.8
67.5°	10613.5	10813.8	11597.1	13340.1	14918.6	15145.9	14975.4	13776.6	12589.7	10177.0
70°	10786.9	10990.2	12093.4	14129.4	15710.9	15875.4	15474.7	13462.7	11106.8	7369.6
71°	10733.1	10981.2	12189.0	14213.1	15899.3	16021.8	15400.0	12882.7	9988.6	6170.8
72.5°	10245.7	10478.9	11791.4	14153.3	15672.1	15597.3	14817.0	11489.4	7862.9	3934.5
75°	7528.1	7779.2	10120.2	12242.9	13988.8	13474.6	11991.7	8063.2	4101.9	1204.9
77.5°	3749.1	3791.0	6281.4	8888.4	10260.7	9749.4	8036.3	4496.5	1533.7	355.8
80°	1728.1	1740.0	2355.9	4604.2	6203.6	5838.9	4502.5	2218.4	693.6	188.4
82.5°	1177.9	1195.9	1420.1	1907.4	2693.7	2272.2	1823.7	1420.1	397.6	113.6
85°	215.3	197.3	795.3	1010.5	1040.4	705.6	630.8	1228.8	149.5	65.8
87.5°	0.0	3.0	110.6	412.6	370.7	164.4	215.3	299.0	14.9	20.9
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°
3967.3	0°	3967.3	3967.3	3967.3	3967.3	3967.3	3967.3	3967.3	3967.3	3967.3	3967.3
4012.2	2.5°	3961.4	3928.5	3817.9	3695.3	3584.7	3498.0	3387.3	3336.5	3255.8	3210.9
4003.2	5°	3904.6	3814.9	3623.5	3417.2	3187.0	2995.7	2783.4	2663.8	2526.3	2484.4
3919.5	7.5°	3808.9	3680.3	3399.3	3109.3	2756.5	2418.7	2158.6	1880.5	1710.1	1638.4
3856.7	10°	3749.1	3593.6	3210.9	2777.4	2284.1	1808.8	1444.0	1148.0	992.6	917.8
3871.7	12.5°	3749.1	3581.7	3058.5	2460.5	1805.8	1237.7	893.9	723.5	672.7	654.7
3937.4	15°	3740.1	3557.8	2912.0	2134.7	1336.4	831.1	666.7	630.8	624.8	621.9
4000.2	17.5°	3785.0	3515.9	2762.5	1784.9	944.7	654.7	612.9	606.9	600.9	600.9
4039.1	20°	3817.9	3492.0	2583.1	1414.1	705.6	606.9	589.0	580.0	577.0	574.0
4048.1	22.5°	3791.0	3456.1	2361.9	1058.4	615.9	577.0	565.1	556.1	550.1	550.1
4140.7	25°	3841.8	3423.2	2140.6	798.3	577.0	550.1	538.1	532.2	529.2	526.2
4248.4	27.5°	3910.5	3438.2	1877.5	642.8	544.1	523.2	511.2	505.3	502.3	496.3
4415.8	30°	3994.3	3435.2	1587.5	562.1	514.2	493.3	481.3	478.4	472.4	469.4
4666.9	32.5°	4137.8	3512.9	1288.6	520.2	481.3	463.4	451.4	448.5	445.5	442.5
5097.5	35°	4445.7	3608.6	1007.5	487.3	451.4	430.5	421.5	415.6	412.6	409.6
5599.7	37.5°	4825.4	3820.8	768.4	457.4	421.5	400.6	391.7	388.7	376.7	373.7
6296.3	40°	5300.8	4048.1	592.0	424.5	394.6	373.7	364.7	355.8	340.8	334.8
7007.9	42.5°	5892.7	4269.3	487.3	394.6	364.7	349.8	334.8	319.9	307.9	296.0
7719.4	45°	6484.7	4526.4	427.5	367.7	340.8	322.9	310.9	290.0	269.1	251.1
8392.1	47.5°	6978.0	4619.1	391.7	337.8	316.9	302.0	284.0	257.1	227.2	209.3
8882.4	50°	7345.7	4565.3	355.8	307.9	290.0	275.1	251.1	218.2	188.4	170.4
9055.8	52.5°	7417.5	4329.1	322.9	284.0	263.1	245.2	218.2	182.4	149.5	131.5
9244.2	55°	7366.6	3937.4	296.0	263.1	239.2	212.3	182.4	146.5	116.6	98.7
9172.4	57.5°	7262.0	3474.0	266.1	236.2	209.3	182.4	149.5	119.6	86.7	68.8
9008.0	60°	6906.2	2843.2	236.2	206.3	179.4	155.5	122.6	86.7	59.8	44.8
8721.0	62.5°	6409.9	2185.5	206.3	176.4	155.5	128.6	95.7	62.8	35.9	23.9
7913.8	65°	5504.1	1530.7	173.4	146.5	128.6	104.6	71.8	38.9	20.9	9.0
6445.8	67.5°	4182.6	947.7	143.5	122.6	110.6	83.7	50.8	23.9	9.0	3.0
4021.2	70°	2400.7	493.3	113.6	98.7	86.7	62.8	35.9	12.0	6.0	0.0
2932.9	71°	1677.2	364.7	101.7	86.7	77.7	56.8	29.9	9.0	3.0	0.0
1515.8	72.5°	840.1	242.2	86.7	71.8	62.8	44.8	23.9	9.0	3.0	0.0
442.5	75°	299.0	155.5	59.8	47.8	44.8	32.9	14.9	6.0	3.0	0.0
221.2	77.5°	206.3	125.6	41.9	29.9	29.9	20.9	9.0	3.0	3.0	0.0
173.4	80°	188.4	68.8	26.9	17.9	14.9	12.0	6.0	3.0	0.0	0.0
170.4	82.5°	188.4	50.8	14.9	12.0	9.0	6.0	3.0	0.0	0.0	0.0
149.5	85°	131.5	26.9	9.0	9.0	6.0	3.0	0.0	0.0	0.0	0.0
26.9	87.5°	20.9	9.0	6.0	3.0	3.0	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°
3967.3
3208.0
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580.0
553.1
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502.3
472.4
439.5
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