

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: P575287

Luminaire Tested: **EPH-VN-07-730-U-T4FT-HSS**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575287
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-07-730-U-T4FT-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T4FT distribution lens and House Side Shield
Light Source: (112) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

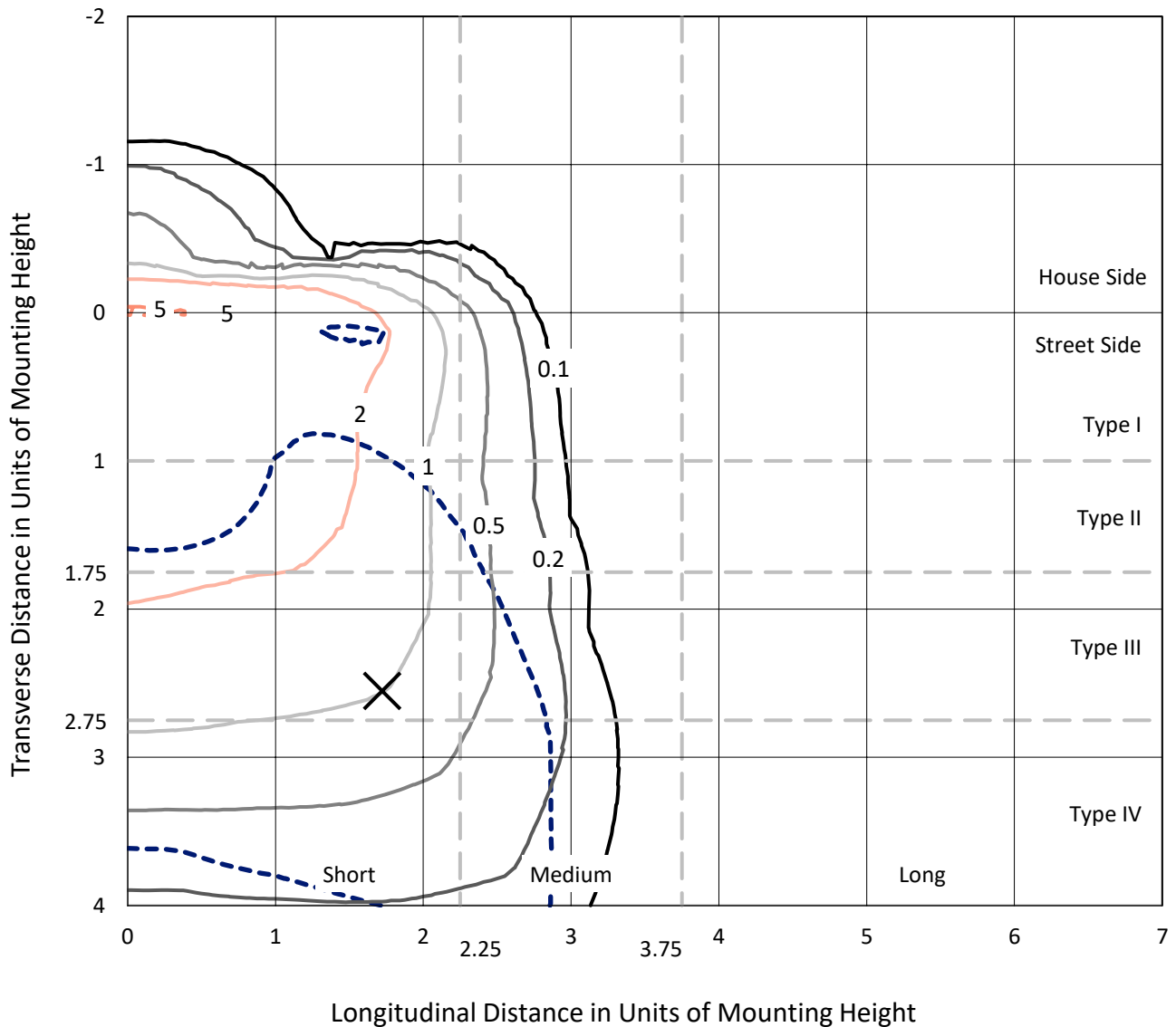
Lumens per Lamp: N/A
Luminaire Lumens: 32118.7 lumens
Efficiency: N/A
Efficacy: 76.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 422.5
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

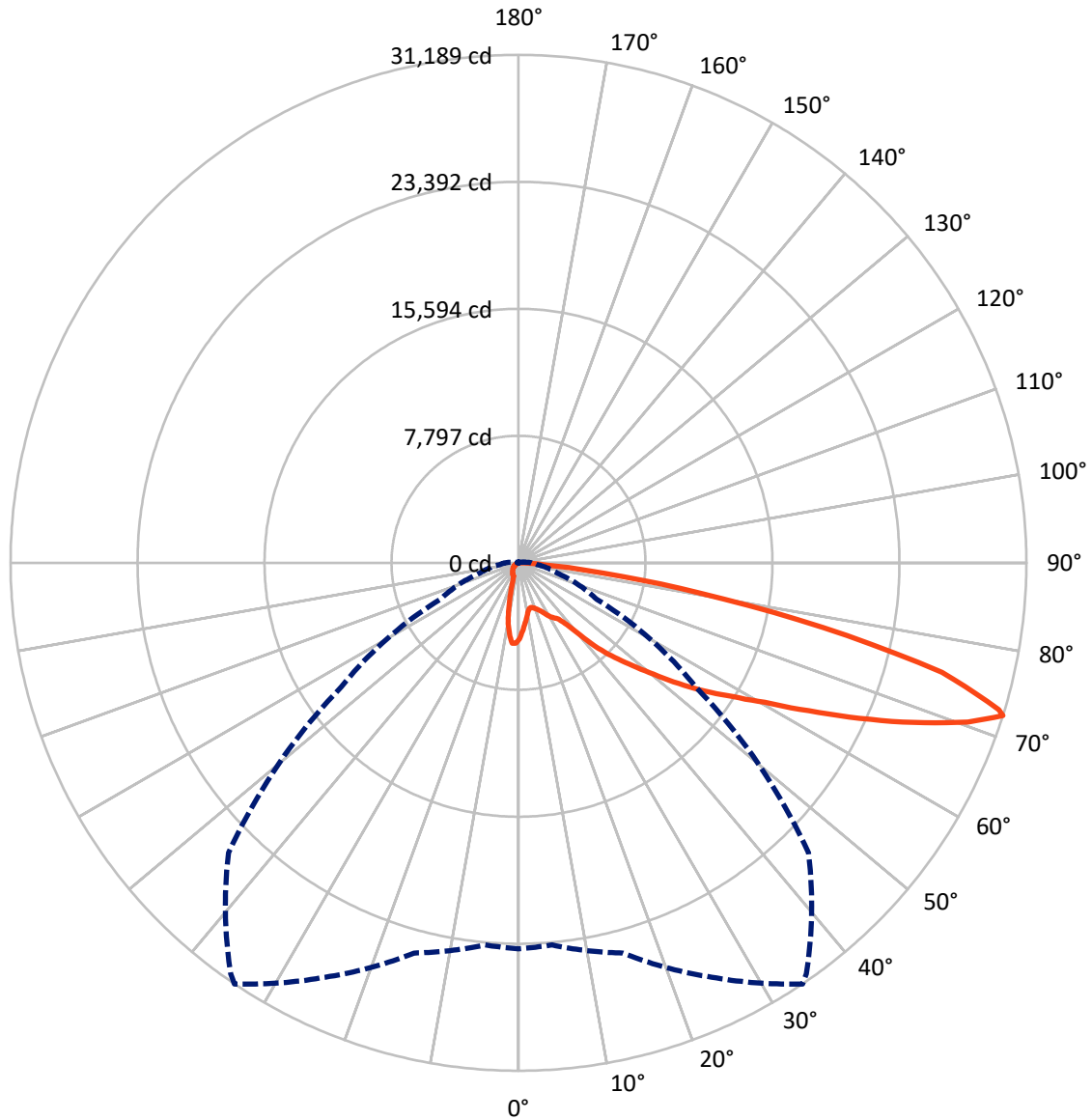
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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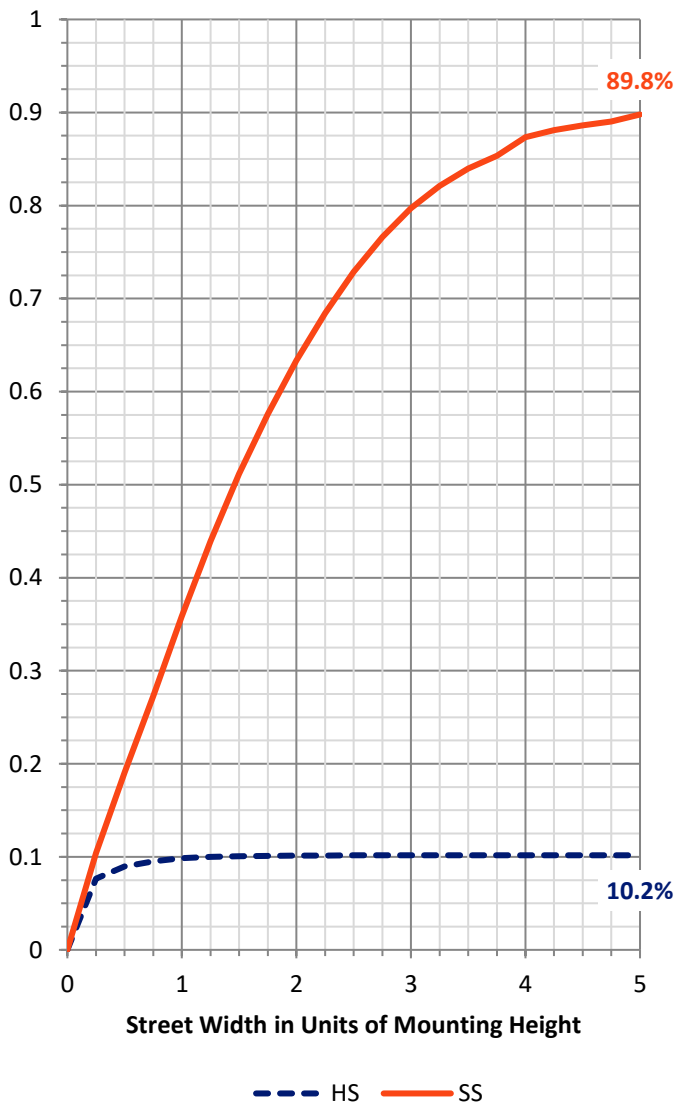
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3288.2	0.0	3288.2
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	28830.5	0.0	28830.5
	% Fixture	89.8	0.0	89.8
Total	Lumens	32118.7	0.0	32118.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	407.9	1.3
10°-20°	923.5	2.9
20°-30°	1393.9	4.3
30°-40°	2262.1	7.0
40°-50°	4253.7	13.2
50°-60°	6954.9	21.7
60°-70°	9245.6	28.8
70°-80°	6191.7	19.3
80°-90°	485.2	1.5
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°	32118.7	100.0
0°-180°	32118.7	100.0

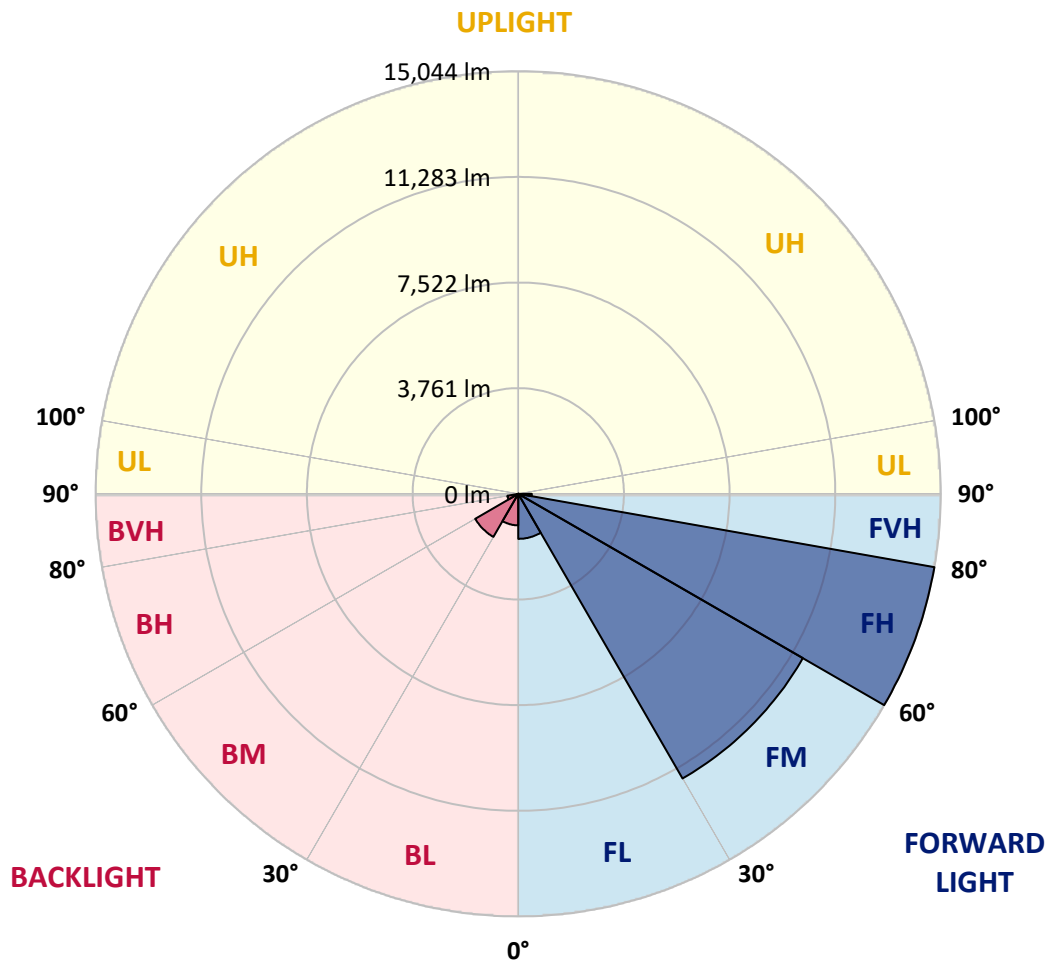


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1603.4	5.0			
FM (30°-60°)	11700.8	36.4			
FH (60°-80°)	15044.1	46.8			G5
FVH (80°-90°)	482.2	1.5			G3/500
BL (0°-30°)	1121.9	3.5	B3/2500		
BM (30°-60°)	1770.0	5.5	B2/2500		
BH (60°-80°)	393.2	1.2	B1/500		G1/500
BVH (80°-90°)	3.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	4699.0	4699.0	4699.0	4699.0	4699.0	4699.0	4699.0	4699.0	4699.0	4699.0
2.5°	4155.7	4146.4	4174.3	4220.7	4267.2	4248.6	4336.8	4429.7	4494.7	4582.9
5°	3631.0	3654.3	3682.1	3775.0	3835.3	3849.3	4011.8	4132.5	4332.2	4536.5
7.5°	3152.8	3180.6	3236.4	3338.5	3463.9	3496.4	3658.9	3900.3	4160.4	4429.7
10°	2804.5	2832.4	2892.8	2957.8	3124.9	3124.9	3347.8	3682.1	4021.1	4336.8
12.5°	2730.2	2744.2	2739.5	2790.6	2897.4	2920.6	3138.8	3505.7	3900.3	4304.3
15°	2818.5	2827.8	2781.3	2753.5	2846.3	2869.5	3073.8	3398.9	3821.4	4322.9
17.5°	2994.9	2962.4	2869.5	2827.8	2906.7	2920.6	3111.0	3394.2	3812.1	4374.0
20°	3097.1	3134.2	2971.7	2892.8	3004.2	3022.8	3227.1	3468.5	3858.6	4462.2
22.5°	3278.1	3296.7	3078.5	3027.4	3134.2	3134.2	3366.4	3617.1	3970.0	4606.1
25°	3533.5	3510.3	3254.9	3203.9	3306.0	3347.8	3580.0	3853.9	4141.8	4740.8
27.5°	3733.2	3747.1	3538.2	3403.5	3575.3	3603.2	3853.9	4109.3	4271.8	4852.2
30°	4030.4	4002.5	3779.6	3626.4	3840.0	3844.6	4086.1	4350.7	4522.5	5051.9
32.5°	4383.2	4327.5	4072.1	3853.9	4025.7	4067.5	4313.6	4699.0	4912.6	5428.0
35°	5130.8	4996.2	4578.3	4239.3	4253.2	4271.8	4652.6	5205.1	5451.2	5906.2
37.5°	6222.0	6166.3	5692.6	5047.2	4801.1	4745.4	5172.6	5873.7	6180.2	6537.7
40°	7303.9	7224.9	6783.8	6296.3	5850.5	5739.1	5952.7	6760.6	7039.2	7415.3
42.5°	8506.5	8367.2	7847.1	7452.4	7173.8	7053.1	6969.5	7875.0	8190.7	8446.1
45°	9723.0	9495.5	8743.3	8441.5	8292.9	8227.9	8218.6	9277.2	9467.6	9518.7
47.5°	10791.0	10544.9	9862.3	9523.3	9411.9	9393.3	9913.4	10893.1	10744.5	10609.9
50°	11612.8	11454.9	10962.8	10842.0	10758.5	10725.9	11942.5	12555.4	11868.2	11631.4
52.5°	12885.1	12532.2	11975.0	12016.8	12309.3	12313.9	13999.5	14134.1	12801.5	12332.5
55°	13901.9	13669.8	13214.7	13154.4	13925.2	14008.7	15842.8	15332.1	13321.5	13001.2
57.5°	15099.9	14993.1	14663.4	14672.7	15480.7	15657.1	17481.9	16344.3	13753.4	13433.0
60°	16831.8	16525.4	16353.6	16432.5	17384.4	17556.2	19069.9	17073.3	13962.3	13716.2
62.5°	18744.9	18387.3	18201.6	18605.6	19993.9	20021.8	20277.2	17718.7	13832.3	13790.5
65°	21047.9	20695.0	20546.5	21359.0	23007.4	22905.2	21971.9	17992.7	13419.0	13042.9
67.5°	23341.7	23128.1	22821.7	24117.1	26169.5	26169.5	23731.7	17890.5	12337.2	10470.6
70°	24428.2	24576.8	25064.4	27098.1	29275.8	29052.9	25468.3	16715.8	9184.4	5623.0
72°	23703.9	23550.7	24809.0	28073.2	31188.8	30822.0	25175.8	13289.0	5307.3	2465.6
72.5°	22459.5	22603.4	24335.4	27938.5	30831.3	31133.1	24460.7	12258.2	4364.7	1964.1
75°	13771.9	14018.0	18164.5	23722.5	26865.9	26527.0	18921.3	5841.2	1676.2	835.8
77.5°	5028.7	5233.0	8812.9	14928.1	19107.0	18893.5	10948.8	2075.5	910.1	622.2
80°	1309.4	1416.2	2994.9	6886.0	11236.7	11250.6	4582.9	831.1	617.6	510.8
82.5°	260.0	287.9	919.4	2679.2	5251.5	5181.9	1448.7	445.8	464.3	417.9
85°	32.5	41.8	195.0	910.1	1699.4	1523.0	357.5	222.9	343.6	325.0
87.5°	4.6	4.6	46.4	208.9	357.5	348.2	74.3	69.6	153.2	199.7
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°
4699.0	0°	4699.0	4699.0	4699.0	4699.0	4699.0	4699.0	4699.0	4699.0	4699.0	4699.0
4689.7	2.5°	4750.1	4768.6	4833.6	4889.4	4954.4	4972.9	4945.1	4991.5	4926.5	4963.7
4726.8	5°	4759.3	4866.1	4986.9	5065.8	5047.2	5000.8	4963.7	4838.3	4750.1	4717.6
4740.8	7.5°	4824.4	4945.1	5075.1	5075.1	4972.9	4731.5	4499.3	4276.4	4090.7	3997.9
4745.4	10°	4907.9	5033.3	5168.0	4991.5	4610.8	4169.7	3840.0	3422.1	3138.8	2990.3
4819.7	12.5°	5019.4	5195.8	5242.2	4833.6	4202.2	3547.5	2948.5	2368.1	2098.8	1885.2
4940.4	15°	5163.3	5335.1	5195.8	4490.0	3682.1	2716.3	1996.6	1444.1	1230.5	1119.0
5079.7	17.5°	5353.7	5483.7	5181.9	4174.3	2981.0	1857.3	1225.8	975.1	928.7	910.1
5274.8	20°	5576.6	5674.1	5047.2	3682.1	2214.8	1193.3	900.8	872.9	877.6	868.3
5506.9	22.5°	5827.3	5859.8	4894.0	3111.0	1499.8	882.2	840.4	845.1	849.7	840.4
5720.5	25°	6092.0	6003.7	4671.1	2442.4	998.3	803.3	812.6	821.9	826.5	831.1
5980.5	27.5°	6389.1	6212.7	4360.0	1787.7	780.1	756.9	784.7	812.6	817.2	817.2
6370.6	30°	6825.6	6533.1	4058.2	1211.9	687.2	705.8	752.2	784.7	807.9	807.9
6974.2	32.5°	7378.2	6867.4	3635.7	826.5	636.1	645.4	682.6	747.6	798.6	803.3
7782.1	35°	8144.3	7271.4	3194.6	659.3	599.0	603.6	626.8	677.9	766.1	794.0
8831.5	37.5°	8952.2	7731.0	2646.7	594.3	571.1	566.5	580.4	622.2	701.1	770.8
9908.7	40°	9811.2	8213.9	2070.9	561.8	547.9	538.6	543.3	561.8	622.2	710.4
10962.8	42.5°	10619.2	8650.4	1555.5	529.3	524.7	515.4	515.4	520.0	552.5	612.9
12132.9	45°	11492.1	9007.9	1184.0	506.1	492.2	496.8	478.3	469.0	492.2	496.8
13437.6	47.5°	12309.3	9365.5	947.2	478.3	464.3	464.3	441.1	422.5	422.5	380.7
14584.5	50°	13075.4	9560.5	756.9	441.1	436.5	431.8	399.3	366.8	339.0	287.9
15666.4	52.5°	13711.6	9551.2	585.1	394.7	408.6	394.7	343.6	297.2	255.4	208.9
16065.7	55°	13901.9	9105.4	441.1	325.0	348.2	329.7	274.0	232.2	185.7	148.6
16126.1	57.5°	13739.4	8427.5	334.3	250.7	269.3	250.7	208.9	171.8	130.0	102.2
15977.5	60°	13196.2	7633.5	260.0	195.0	204.3	190.4	157.9	130.0	92.9	65.0
15021.0	62.5°	12165.4	6639.9	199.7	153.2	148.6	148.6	120.7	97.5	65.0	37.1
12509.0	65°	9983.0	5177.2	153.2	106.8	106.8	106.8	92.9	69.6	41.8	18.6
8181.4	67.5°	6268.4	3013.5	125.4	83.6	78.9	78.9	65.0	46.4	23.2	4.6
3217.8	70°	2358.8	1105.1	97.5	65.0	60.4	60.4	46.4	27.9	13.9	0.0
1119.0	72°	812.6	422.5	78.9	46.4	46.4	41.8	32.5	23.2	9.3	0.0
845.1	72.5°	668.6	339.0	74.3	46.4	41.8	41.8	32.5	23.2	9.3	0.0
301.8	75°	241.4	139.3	51.1	32.5	27.9	27.9	23.2	13.9	4.6	0.0
153.2	77.5°	120.7	88.2	41.8	27.9	23.2	13.9	13.9	9.3	4.6	0.0
92.9	80°	74.3	55.7	23.2	18.6	13.9	9.3	4.6	4.6	0.0	0.0
65.0	82.5°	51.1	32.5	13.9	13.9	9.3	4.6	0.0	0.0	0.0	0.0
41.8	85°	32.5	13.9	9.3	9.3	4.6	0.0	0.0	0.0	0.0	0.0
23.2	87.5°	13.9	9.3	4.6	0.0	0.0	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°
4699.0
4972.9
4787.2
4076.8
3004.2
1889.8
1119.0
910.1
868.3
845.1
831.1
812.6
803.3
789.4
789.4
775.4
729.0
622.2
492.2
376.1
278.6
199.7
143.9
92.9
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