

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: P575327

Luminaire Tested: **EPH-VN-07-730-U-T4W-HSS**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P575327  
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-T4W-HSS  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T4W distribution lens and House Side Shield  
Light Source: (112) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

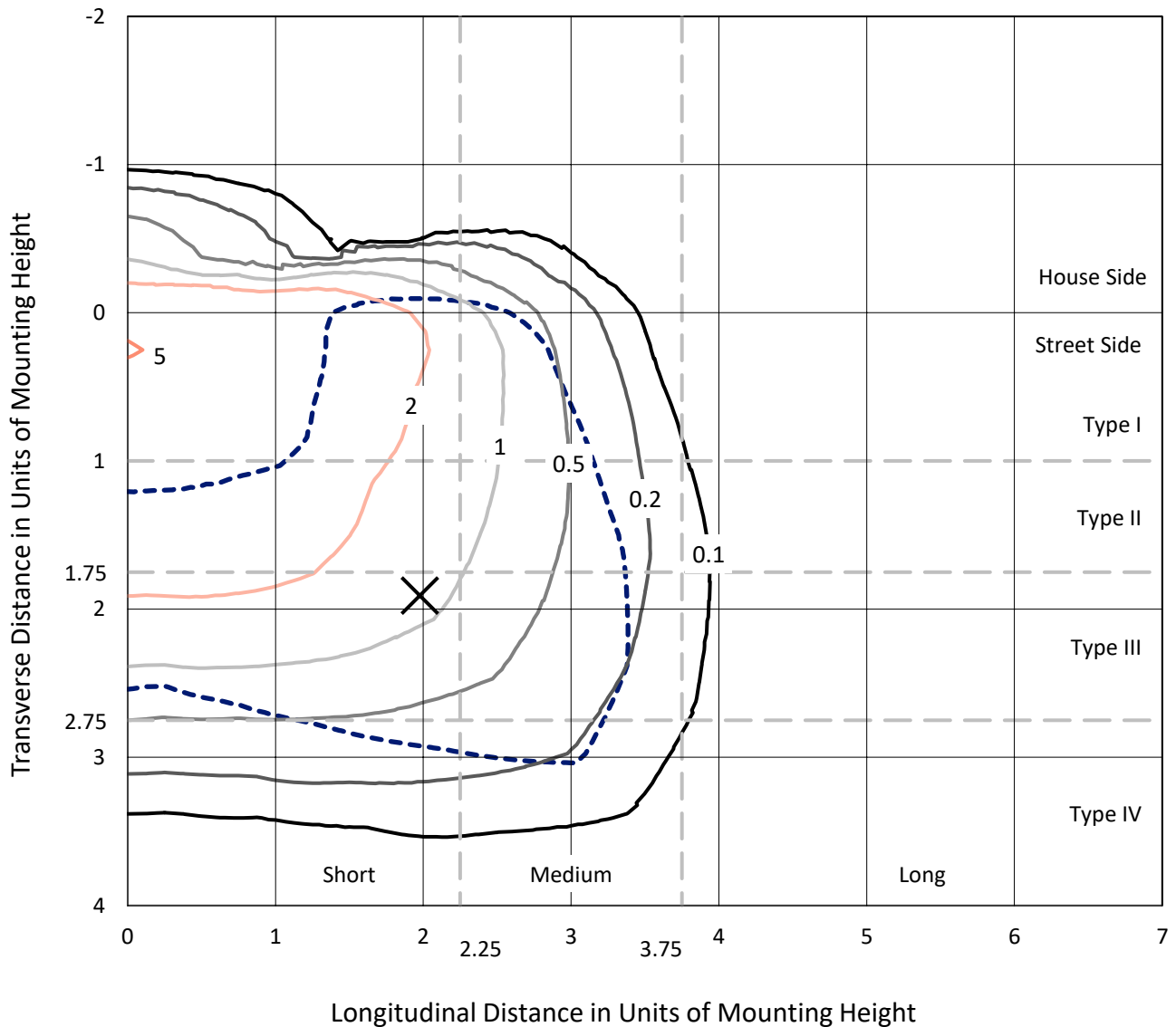
Lumens per Lamp: N/A  
Luminaire Lumens: 32773.8 lumens  
Efficiency: N/A  
Efficacy: 77.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5

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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 CATALOG NUMBER: EPH-VN-07-730-U-T4W-HSS

### Iso-Footcandle Lines of Horizontal Illumination

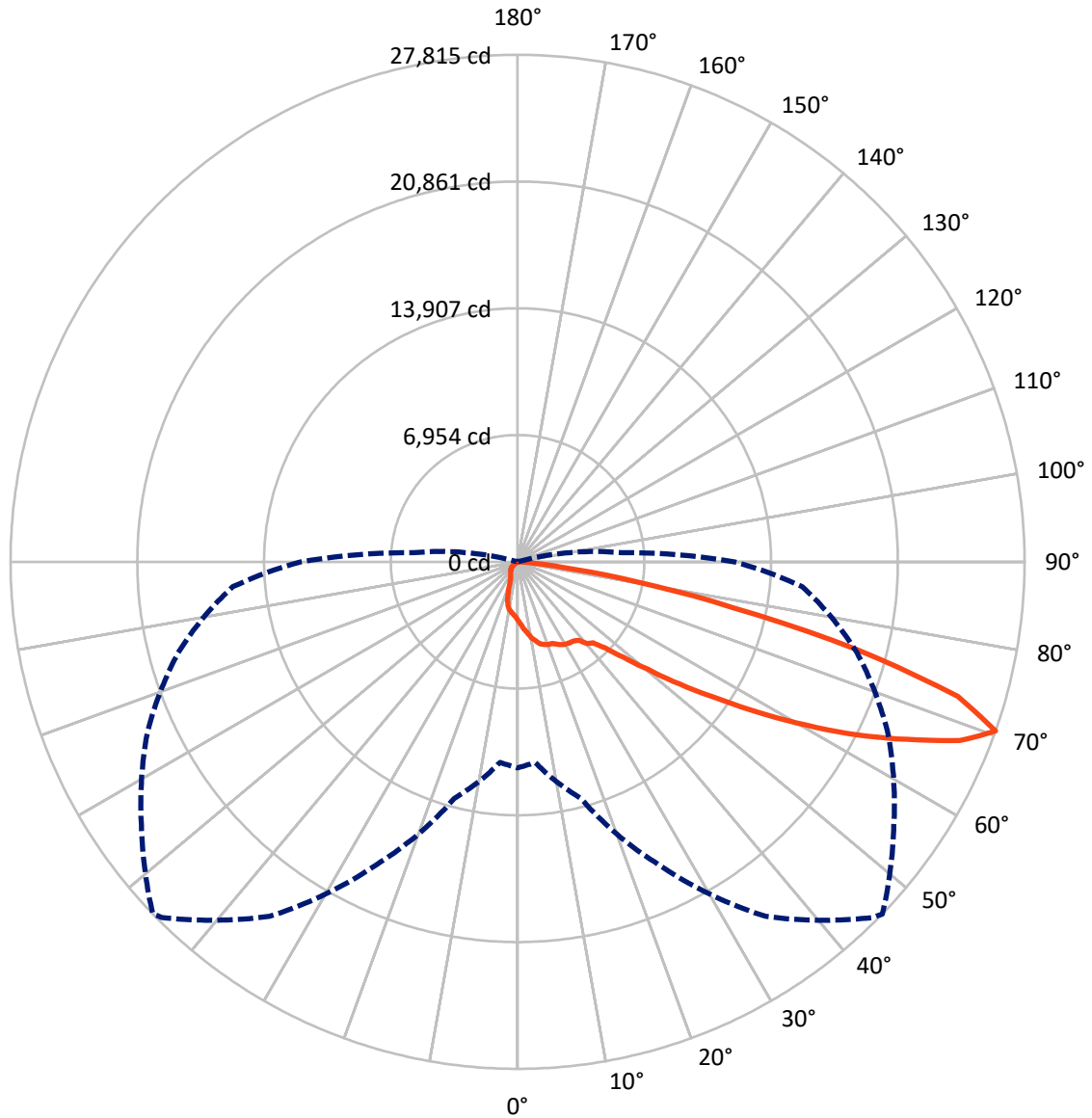
✕ Max cd  
 - - - 1/2 Max cd



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

REPORT NUMBER: P575327  
CATALOG NUMBER: EPH-VN-07-730-U-T4W-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P575327  
 CATALOG NUMBER: EPH-VN-07-730-U-T4W-HSS

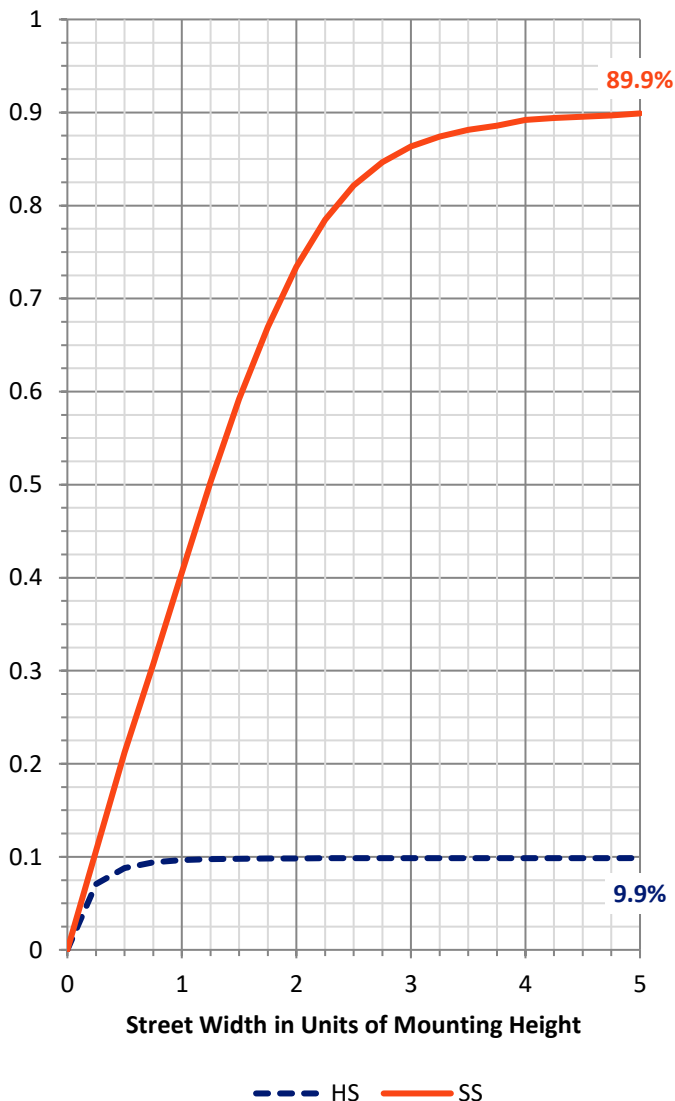
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3261.1	0.0	3261.1
	% Fixture	10.0	0.0	10.0
<b>Street Side</b>	Lumens	29512.7	0.0	29512.7
	% Fixture	90.0	0.0	90.0
<b>Total</b>	Lumens	32773.8	0.0	32773.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	320.8	1.0
10°-20°	968.8	3.0
20°-30°	1551.8	4.7
30°-40°	2215.0	6.8
40°-50°	3824.8	11.7
50°-60°	7322.8	22.3
60°-70°	10843.9	33.1
70°-80°	5370.9	16.4
80°-90°	354.9	1.1
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°	32773.8	100.0
0°-180°	32773.8	100.0

**Coefficient of Utilization**

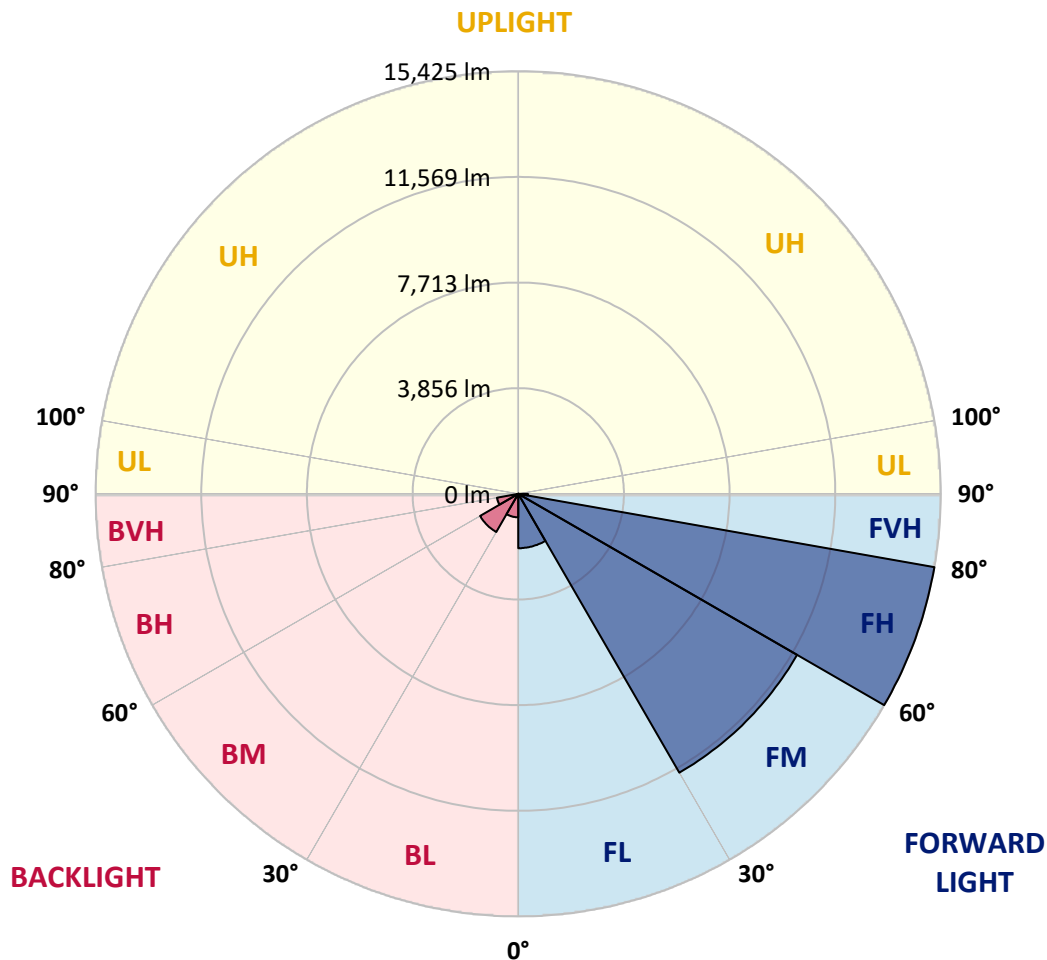


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 CATALOG NUMBER: EPH-VN-07-730-U-T4W-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1984.7	6.1			
FM (30°-60°)	11752.6	35.9			
FH (60°-80°)	15425.0	47.1			G5
FVH (80°-90°)	350.4	1.1			G3/500
BL (0°-30°)	856.7	2.6	B2/1000		
BM (30°-60°)	1610.0	4.9	B2/2500		
BH (60°-80°)	789.8	2.4	B2/1000		G2/1000
BVH (80°-90°)	4.5	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-G5**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	3217.4	3217.4	3217.4	3217.4	3217.4	3217.4	3217.4	3217.4	3217.4	3217.4
2.5°	3590.0	3566.5	3528.7	3514.6	3476.8	3458.0	3429.7	3415.5	3363.6	3311.7
5°	4028.8	3972.2	3991.0	3934.4	3811.8	3712.7	3708.0	3599.5	3481.5	3387.2
7.5°	4472.2	4425.1	4354.3	4274.1	4137.3	3991.0	3948.6	3844.8	3679.7	3514.6
10°	4807.2	4774.2	4712.8	4599.6	4410.9	4245.8	4250.5	4076.0	3901.4	3712.7
12.5°	5014.7	5028.9	4939.3	4826.0	4660.9	4453.4	4448.6	4330.7	4132.6	3934.4
15°	5222.3	5274.2	5137.4	5005.3	4793.0	4642.1	4670.4	4528.8	4335.4	4109.0
17.5°	5255.3	5269.5	5241.2	5047.8	4892.1	4764.7	4769.4	4675.1	4528.8	4283.5
20°	5198.7	5189.3	5156.3	5014.7	4911.0	4835.5	4840.2	4816.6	4736.4	4538.3
22.5°	5033.6	5033.6	4991.2	4896.8	4849.6	4920.4	4863.8	4953.4	4868.5	4750.6
25°	4901.5	4953.4	4929.8	4868.5	4887.4	4981.7	5010.0	5094.9	5080.8	4934.5
27.5°	5043.1	4981.7	4995.9	4925.1	4995.9	5137.4	5151.6	5212.9	5208.2	5090.2
30°	5137.4	5194.0	5085.5	4929.8	5005.3	5245.9	5236.5	5316.7	5354.4	5212.9
32.5°	5439.3	5392.1	5302.5	5094.9	5104.4	5241.2	5283.6	5387.4	5411.0	5326.1
35°	6057.3	5986.6	5595.0	5283.6	5236.5	5302.5	5330.8	5533.7	5576.1	5481.8
37.5°	7010.3	6849.9	6378.1	5689.4	5477.1	5462.9	5462.9	5731.8	5892.2	5675.2
40°	8373.6	8147.2	7637.7	6439.4	5793.1	5849.8	5906.4	6052.6	6033.7	5892.2
42.5°	10109.7	9935.1	9383.2	7699.0	6397.0	6113.9	6066.8	6264.9	6562.1	6505.5
45°	11558.0	11567.4	11213.6	9425.6	7439.6	6722.5	6755.5	6906.5	7406.5	7364.1
47.5°	12614.7	12482.6	12430.7	11090.9	8958.6	7878.3	7831.1	7934.9	8585.9	8854.8
50°	13577.1	13487.4	13364.8	12709.1	10784.3	9326.6	9279.4	9288.8	10284.2	10661.6
52.5°	14770.6	14883.8	14478.1	14077.1	13147.8	11208.9	11157.0	10973.0	12209.0	12727.9
55°	16242.5	16030.2	15572.6	15780.2	15407.5	13242.1	13147.8	12930.8	14402.7	14619.7
57.5°	16568.0	16407.6	16879.4	17615.3	17973.8	15629.2	15591.5	15199.9	16247.2	16049.1
60°	17379.4	17421.9	18077.6	19540.1	20162.8	18384.3	18200.3	17511.5	18035.2	18072.9
62.5°	18214.4	18115.4	19582.5	20988.3	21946.0	20993.1	20931.7	19563.6	20158.1	19676.9
65°	17601.1	17752.1	19851.4	22205.5	24257.6	23545.2	23493.4	21540.3	21865.8	21266.7
67.5°	15421.6	15115.0	18054.0	21648.8	25446.4	26220.1	26163.5	23696.2	22828.2	21257.2
70°	11303.2	11039.0	13435.6	18332.4	23743.4	27588.2	27814.6	25196.4	22436.6	19275.9
72.5°	5538.4	5543.1	7529.2	12430.7	18785.2	25144.5	25257.7	23101.8	19275.9	14209.2
75°	1637.0	1655.9	2788.1	6095.1	12143.0	19096.6	19224.0	17535.1	13360.1	7340.5
77.5°	599.1	599.1	924.6	2288.0	6057.3	12053.3	12043.9	10765.4	6765.0	2486.1
80°	311.4	325.5	481.2	934.1	2623.0	6279.0	6514.9	5269.5	2571.1	1047.3
82.5°	127.4	141.5	264.2	481.2	1259.6	2203.1	2410.7	2066.3	1118.1	731.2
85°	37.7	42.5	127.4	268.9	495.3	552.0	613.3	693.5	702.9	566.1
87.5°	4.7	4.7	51.9	89.6	108.5	117.9	136.8	136.8	358.5	396.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P575327

CATALOG NUMBER: EPH-VN-07-730-U-T4W-HSS

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3217.4	0°	3217.4	3217.4	3217.4	3217.4	3217.4	3217.4	3217.4	3217.4	3217.4	3217.4
3278.7	2.5°	3241.0	3217.4	3179.6	3094.7	3075.8	3014.5	3009.8	2953.2	2972.1	2934.3
3259.8	5°	3217.4	3165.5	3061.7	2995.6	2929.6	2887.1	2858.8	2835.2	2830.5	2811.7
3344.7	7.5°	3259.8	3189.1	3028.7	2924.9	2811.7	2773.9	2712.6	2707.9	2674.8	2641.8
3481.5	10°	3401.3	3274.0	3099.4	2924.9	2778.6	2656.0	2514.4	2410.7	2372.9	2288.0
3660.8	12.5°	3514.6	3401.3	3146.6	2967.3	2745.6	2467.3	2155.9	1915.3	1802.1	1693.6
3807.1	15°	3675.0	3509.9	3236.2	2976.8	2618.2	2137.0	1627.6	1358.7	1254.9	1231.3
4024.1	17.5°	3849.5	3675.0	3349.5	2953.2	2358.8	1651.1	1198.3	1042.6	1061.4	1089.8
4184.5	20°	4042.9	3830.6	3434.4	2873.0	1948.3	1198.3	981.2	976.5	1004.8	1047.3
4458.1	22.5°	4245.8	4061.8	3538.2	2632.4	1453.0	962.4	943.5	943.5	962.4	1014.3
4646.8	25°	4472.2	4226.9	3590.0	2259.7	1042.6	886.9	896.3	915.2	924.6	967.1
4816.6	27.5°	4646.8	4410.9	3604.2	1811.5	849.2	820.9	844.4	868.0	882.2	915.2
4977.0	30°	4807.2	4642.1	3528.7	1349.2	778.4	764.2	773.7	806.7	835.0	863.3
5132.7	32.5°	5010.0	4774.2	3354.2	957.7	735.9	712.3	707.6	721.8	754.8	787.8
5297.8	35°	5217.6	4995.9	3075.8	769.0	698.2	665.2	646.3	632.2	646.3	669.9
5543.1	37.5°	5519.5	5330.8	2726.7	707.6	669.9	622.7	585.0	552.0	528.4	523.6
5863.9	40°	5948.8	5708.2	2278.6	665.2	636.9	580.3	523.6	467.0	415.1	382.1
6486.6	42.5°	6599.8	6264.9	1792.7	641.6	613.3	533.1	452.9	372.7	306.6	273.6
7359.4	45°	7529.2	7000.8	1316.2	618.0	585.0	476.5	372.7	278.3	212.3	193.4
8977.5	47.5°	8930.3	7887.7	943.5	580.3	547.2	415.1	292.5	198.1	155.7	146.2
10963.6	50°	10760.7	8939.7	735.9	537.8	500.1	349.1	217.0	146.2	122.7	117.9
13086.5	52.5°	12680.8	10001.2	646.3	500.1	429.3	278.3	160.4	117.9	103.8	99.1
14997.1	55°	14322.5	10685.2	561.4	443.4	344.4	207.6	127.4	103.8	89.6	75.5
17115.2	57.5°	15983.0	11029.6	443.4	368.0	254.7	155.7	108.5	89.6	75.5	61.3
19209.8	60°	17332.2	11274.9	316.1	273.6	179.3	122.7	94.4	80.2	61.3	47.2
21181.8	62.5°	18219.1	10572.0	231.2	207.6	132.1	103.8	80.2	66.0	47.2	33.0
21983.7	65°	17780.4	9600.2	179.3	146.2	99.1	80.2	66.0	47.2	33.0	18.9
20318.4	67.5°	15954.7	7821.7	146.2	108.5	75.5	61.3	51.9	37.7	18.9	4.7
15676.4	70°	11902.4	5731.8	117.9	80.2	61.3	47.2	37.7	23.6	9.4	4.7
8878.4	72.5°	6510.2	3137.2	94.4	66.0	47.2	37.7	28.3	18.9	9.4	0.0
3028.7	75°	2151.2	835.0	70.8	47.2	28.3	23.6	18.9	14.2	4.7	0.0
707.6	77.5°	518.9	217.0	56.6	42.5	23.6	14.2	9.4	4.7	4.7	0.0
207.6	80°	160.4	89.6	42.5	28.3	18.9	14.2	4.7	0.0	0.0	0.0
94.4	82.5°	66.0	42.5	18.9	18.9	14.2	4.7	0.0	0.0	0.0	0.0
42.5	85°	33.0	23.6	14.2	9.4	9.4	4.7	0.0	0.0	0.0	0.0
23.6	87.5°	23.6	9.4	4.7	4.7	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°
3217.4
2920.2
2802.2
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2297.4
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863.3
787.8
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