

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: P575328

Luminaire Tested: **EPH-VN-08-730-U-T4W-HSS**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P575328  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 10/19/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-VN-08-730-U-T4W-HSS  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T4W distribution lens and House Side Shield  
Light Source: (128) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

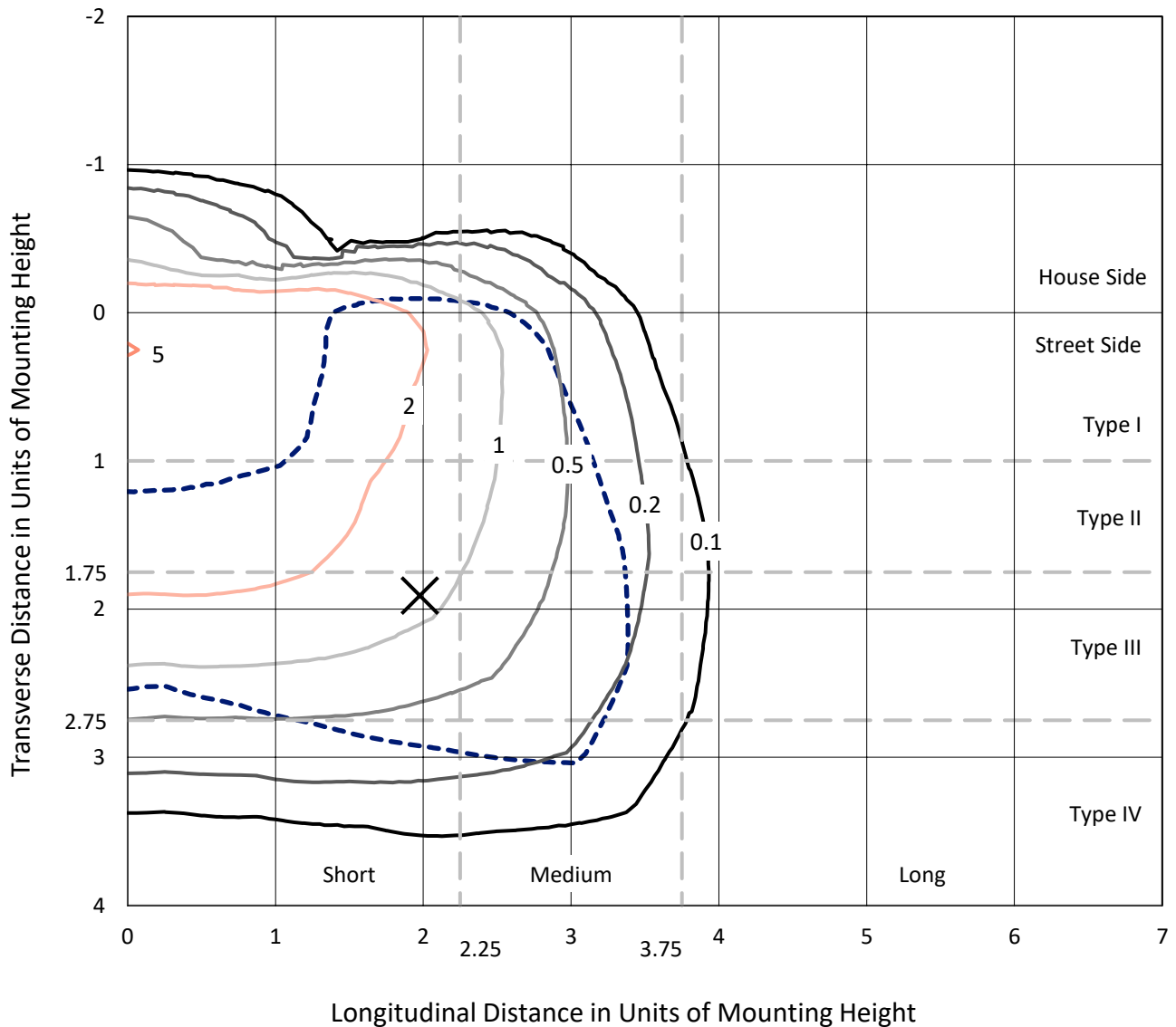
Lumens per Lamp: N/A  
Luminaire Lumens: 32365.2 lumens  
Efficiency: N/A  
Efficacy: 66.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5

Input Watts (W): 488.3  
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

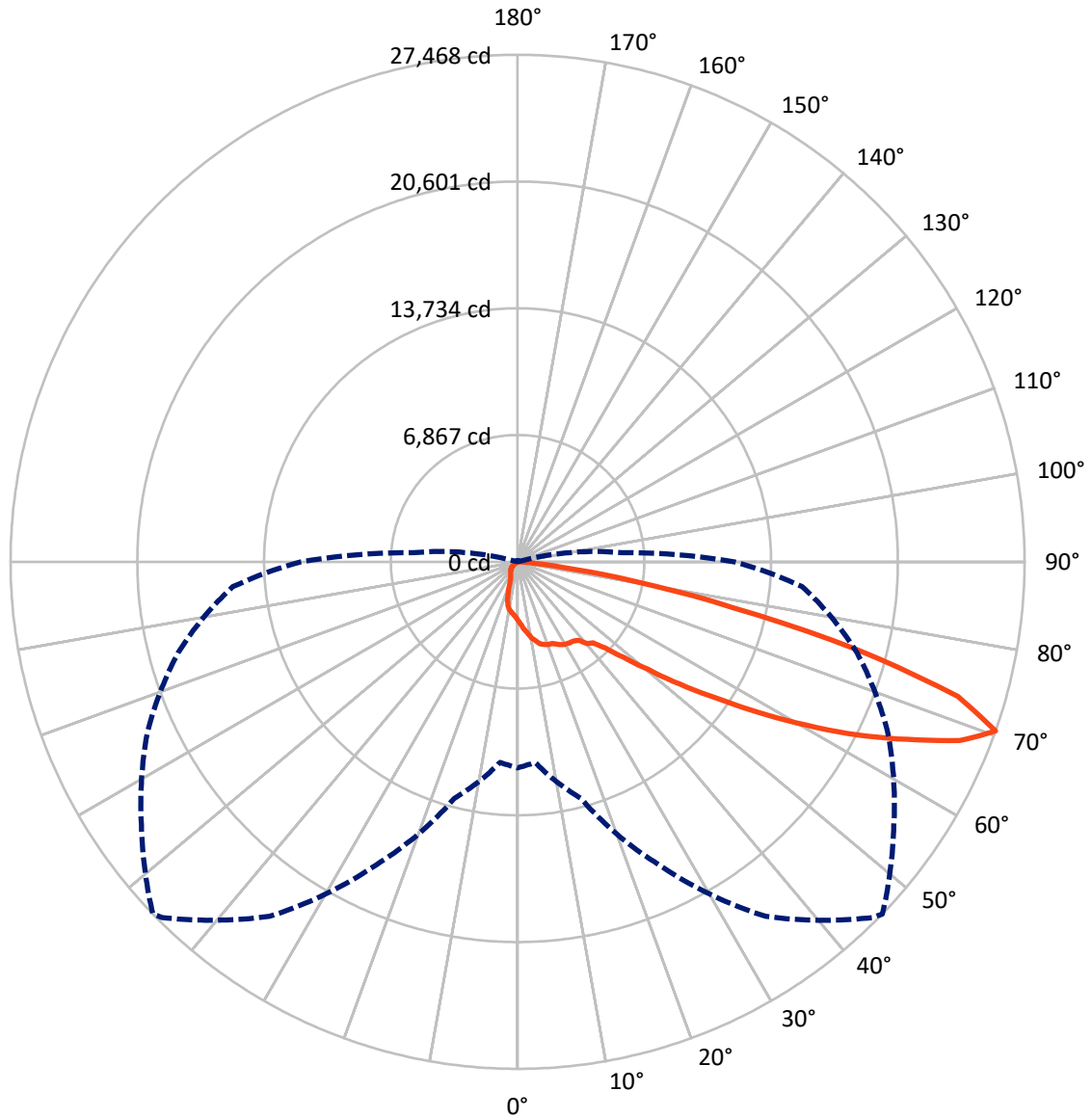
✕ Max cd  
 - - - 1/2 Max cd



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

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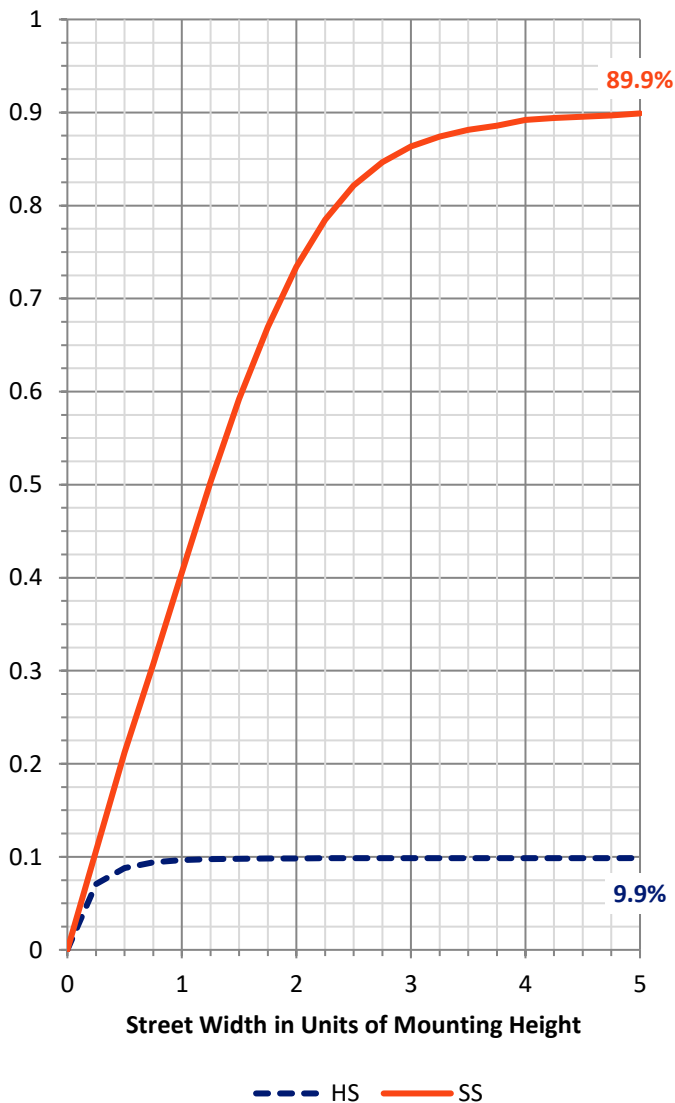
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3220.4	0.0	3220.4
	% Fixture	10.0	0.0	10.0
<b>Street Side</b>	Lumens	29144.7	0.0	29144.7
	% Fixture	90.0	0.0	90.0
<b>Total</b>	Lumens	32365.2	0.0	32365.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	316.8	1.0
10°-20°	956.7	3.0
20°-30°	1532.5	4.7
30°-40°	2187.4	6.8
40°-50°	3777.1	11.7
50°-60°	7231.5	22.3
60°-70°	10708.7	33.1
70°-80°	5303.9	16.4
80°-90°	350.5	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°	32365.2	100.0
0°-180°	32365.2	100.0

**Coefficient of Utilization**

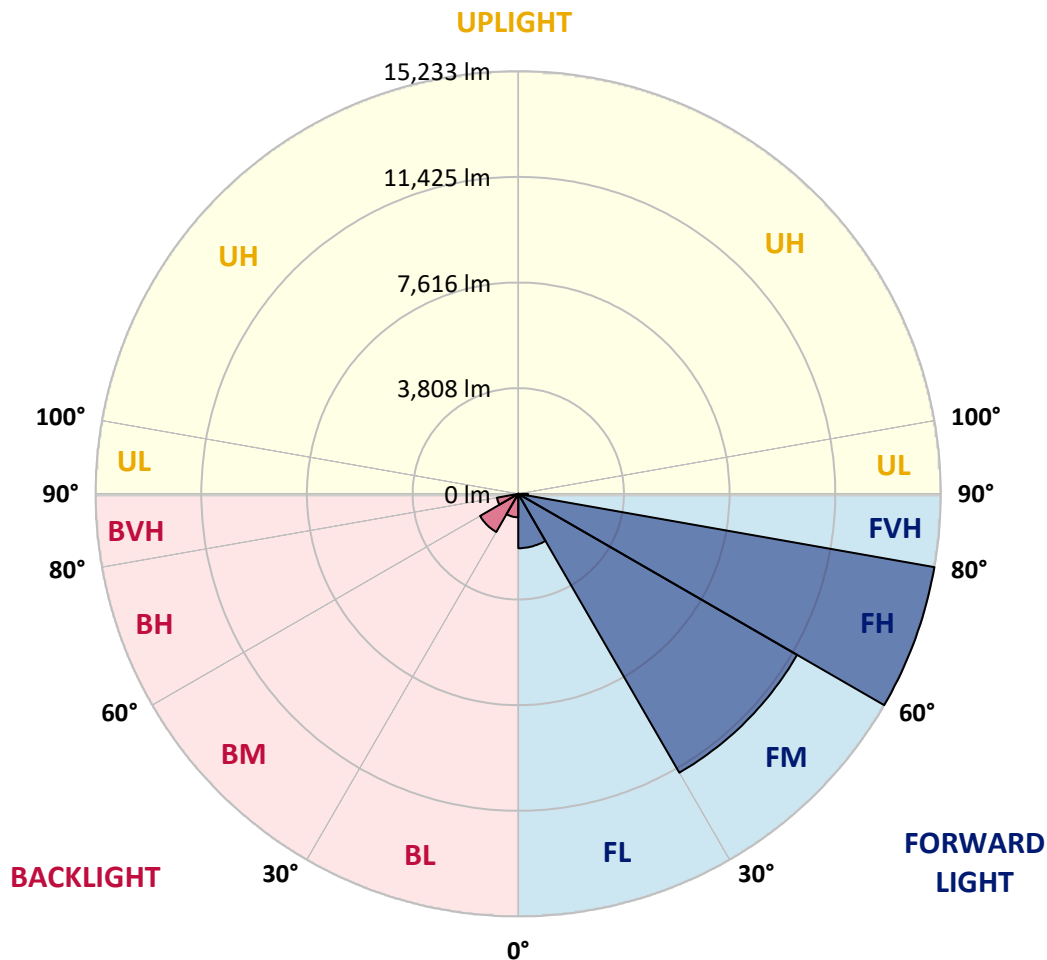


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1959.9	6.1			
FM (30°-60°)	11606.1	35.9			
FH (60°-80°)	15232.7	47.1			G5
FVH (80°-90°)	346.0	1.1			G3/500
BL (0°-30°)	846.1	2.6	B2/1000		
BM (30°-60°)	1589.9	4.9	B2/2500		
BH (60°-80°)	780.0	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°	3177.3	3177.3	3177.3	3177.3	3177.3	3177.3	3177.3	3177.3	3177.3	3177.3
2.5°	3545.3	3522.0	3484.7	3470.8	3433.5	3414.8	3386.9	3372.9	3321.7	3270.4
5°	3978.6	3922.6	3941.3	3885.4	3764.3	3666.4	3661.8	3554.6	3438.1	3345.0
7.5°	4416.5	4369.9	4300.0	4220.8	4085.7	3941.3	3899.4	3796.9	3633.8	3470.8
10°	4747.2	4714.6	4654.1	4542.3	4355.9	4192.9	4197.5	4025.1	3852.8	3666.4
12.5°	4952.2	4966.2	4877.7	4765.9	4602.8	4397.8	4393.2	4276.7	4081.0	3885.4
15°	5157.2	5208.5	5073.4	4942.9	4733.3	4584.2	4612.1	4472.4	4281.4	4057.8
17.5°	5189.8	5203.8	5175.8	4984.8	4831.1	4705.3	4710.0	4616.8	4472.4	4230.1
20°	5133.9	5124.6	5092.0	4952.2	4849.7	4775.2	4779.9	4756.6	4677.4	4481.7
22.5°	4970.9	4970.9	4928.9	4835.8	4789.2	4859.1	4803.1	4891.7	4807.8	4691.3
25°	4840.4	4891.7	4868.4	4807.8	4826.4	4919.6	4947.6	5031.4	5017.4	4873.0
27.5°	4980.2	4919.6	4933.6	4863.7	4933.6	5073.4	5087.3	5147.9	5143.2	5026.8
30°	5073.4	5129.3	5022.1	4868.4	4942.9	5180.5	5171.2	5250.4	5287.7	5147.9
32.5°	5371.5	5324.9	5236.4	5031.4	5040.7	5175.8	5217.8	5320.3	5343.6	5259.7
35°	5981.8	5911.9	5525.2	5217.8	5171.2	5236.4	5264.4	5464.7	5506.6	5413.4
37.5°	6922.9	6764.5	6298.6	5618.4	5408.8	5394.8	5394.8	5660.4	5818.7	5604.4
40°	8269.2	8045.6	7542.5	6359.2	5720.9	5776.8	5832.7	5977.1	5958.5	5818.7
42.5°	9983.7	9811.3	9266.2	7603.0	6317.2	6037.7	5991.1	6186.8	6480.3	6424.4
45°	11413.9	11423.2	11073.8	9308.1	7346.8	6638.7	6671.3	6820.4	7314.2	7272.3
47.5°	12457.4	12327.0	12275.7	10952.7	8846.9	7780.1	7733.5	7836.0	8478.9	8744.4
50°	13407.8	13319.3	13198.2	12550.6	10649.8	9210.3	9163.7	9173.0	10156.0	10528.7
52.5°	14586.5	14698.3	14297.6	13901.6	12983.9	11069.1	11017.9	10836.2	12056.8	12569.2
55°	16040.0	15830.4	15378.5	15583.4	15215.4	13077.0	12983.9	12769.6	14223.1	14437.4
57.5°	16361.4	16203.1	16668.9	17395.7	17749.7	15434.4	15397.1	15010.4	16044.7	15849.0
60°	17162.7	17204.7	17852.2	19296.4	19911.4	18155.1	17973.4	17293.2	17810.3	17847.6
62.5°	17987.3	17889.5	19338.4	20726.7	21672.4	20731.3	20670.8	19319.7	19906.7	19431.5
65°	17381.7	17530.8	19603.9	21928.6	23955.2	23251.7	23200.5	21271.7	21593.2	21001.5
67.5°	15229.4	14926.6	17828.9	21378.9	25129.2	25893.2	25837.3	23400.8	22543.6	20992.2
70°	11162.3	10901.4	13268.1	18103.8	23447.4	27244.2	27467.9	24882.3	22156.9	19035.6
72.5°	5469.3	5474.0	7435.3	12275.7	18551.0	24831.0	24942.8	22813.8	19035.6	14032.1
75°	1616.6	1635.2	2753.3	6019.1	11991.6	18858.5	18984.3	17316.5	13193.5	7249.0
77.5°	591.7	591.7	913.1	2259.5	5981.8	11903.0	11893.7	10631.2	6680.6	2455.1
80°	307.5	321.5	475.2	922.4	2590.3	6200.8	6433.7	5203.8	2539.0	1034.2
82.5°	125.8	139.8	260.9	475.2	1243.9	2175.6	2380.6	2040.5	1104.1	722.1
85°	37.3	41.9	125.8	265.5	489.2	545.1	605.6	684.8	694.2	559.0
87.5°	4.7	4.7	51.2	88.5	107.2	116.5	135.1	135.1	354.1	391.3
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°
3177.3	0°	3177.3	3177.3	3177.3	3177.3	3177.3	3177.3	3177.3	3177.3	3177.3	3177.3
3237.8	2.5°	3200.5	3177.3	3140.0	3056.1	3037.5	2976.9	2972.3	2916.4	2935.0	2897.7
3219.2	5°	3177.3	3126.0	3023.5	2958.3	2893.1	2851.1	2823.2	2799.9	2795.2	2776.6
3303.0	7.5°	3219.2	3149.3	2990.9	2888.4	2776.6	2739.3	2678.8	2674.1	2641.5	2608.9
3438.1	10°	3358.9	3233.2	3060.8	2888.4	2744.0	2622.9	2483.1	2380.6	2343.3	2259.5
3615.2	12.5°	3470.8	3358.9	3107.4	2930.3	2711.4	2436.5	2129.0	1891.4	1779.6	1672.5
3759.6	15°	3629.1	3466.1	3195.9	2939.7	2585.6	2110.4	1607.3	1341.7	1239.2	1215.9
3973.9	17.5°	3801.5	3629.1	3307.7	2916.4	2329.4	1630.6	1183.3	1029.6	1048.2	1076.2
4132.3	20°	3992.5	3782.9	3391.6	2837.2	1924.1	1183.3	969.0	964.4	992.3	1034.2
4402.5	22.5°	4192.9	4011.2	3494.0	2599.6	1434.9	950.4	931.7	931.7	950.4	1001.6
4588.8	25°	4416.5	4174.2	3545.3	2231.5	1029.6	875.8	885.2	903.8	913.1	955.0
4756.6	27.5°	4588.8	4355.9	3559.3	1789.0	838.6	810.6	833.9	857.2	871.2	903.8
4915.0	30°	4747.2	4584.2	3484.7	1332.4	768.7	754.7	764.0	796.6	824.6	852.5
5068.7	32.5°	4947.6	4714.6	3312.4	945.7	726.8	703.5	698.8	712.8	745.4	778.0
5231.8	35°	5152.6	4933.6	3037.5	759.4	689.5	656.9	638.2	624.3	638.2	661.5
5474.0	37.5°	5450.7	5264.4	2692.7	698.8	661.5	615.0	577.7	545.1	521.8	517.1
5790.8	40°	5874.7	5637.1	2250.2	656.9	628.9	573.0	517.1	461.2	410.0	377.4
6405.7	42.5°	6517.6	6186.8	1770.3	633.6	605.6	526.4	447.2	368.0	302.8	270.2
7267.6	45°	7435.3	6913.6	1299.8	610.3	577.7	470.5	368.0	274.9	209.6	191.0
8865.6	47.5°	8819.0	7789.4	931.7	573.0	540.4	410.0	288.8	195.7	153.7	144.4
10826.9	50°	10626.6	8828.3	726.8	531.1	493.8	344.7	214.3	144.4	121.1	116.5
12923.3	52.5°	12522.7	9876.5	638.2	493.8	423.9	274.9	158.4	116.5	102.5	97.8
14810.1	55°	14143.9	10552.0	554.4	437.9	340.1	205.0	125.8	102.5	88.5	74.5
16901.9	57.5°	15783.8	10892.1	437.9	363.4	251.6	153.7	107.2	88.5	74.5	60.6
18970.3	60°	17116.2	11134.4	312.1	270.2	177.0	121.1	93.2	79.2	60.6	46.6
20917.7	62.5°	17992.0	10440.2	228.3	205.0	130.4	102.5	79.2	65.2	46.6	32.6
21709.7	65°	17558.7	9480.5	177.0	144.4	97.8	79.2	65.2	46.6	32.6	18.6
20065.1	67.5°	15755.8	7724.2	144.4	107.2	74.5	60.6	51.2	37.3	18.6	4.7
15480.9	70°	11754.0	5660.4	116.5	79.2	60.6	46.6	37.3	23.3	9.3	4.7
8767.7	72.5°	6429.0	3098.1	93.2	65.2	46.6	37.3	28.0	18.6	9.3	0.0
2990.9	75°	2124.4	824.6	69.9	46.6	28.0	23.3	18.6	14.0	4.7	0.0
698.8	77.5°	512.5	214.3	55.9	41.9	23.3	14.0	9.3	4.7	4.7	0.0
205.0	80°	158.4	88.5	41.9	28.0	18.6	14.0	4.7	0.0	0.0	0.0
93.2	82.5°	65.2	41.9	18.6	18.6	14.0	4.7	0.0	0.0	0.0	0.0
41.9	85°	32.6	23.3	14.0	9.3	9.3	4.7	0.0	0.0	0.0	0.0
23.3	87.5°	23.3	9.3	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°
3177.3
2883.8
2767.3
2608.9
2268.8
1714.4
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1071.5
1043.6
992.3
959.7
917.8
852.5
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531.1
382.0
270.2
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