

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: P574821

Luminaire Tested: **EPH-VN-03-750-U-T4W**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P574821  
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-T4W  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T4W distribution lens  
Light Source: (48) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

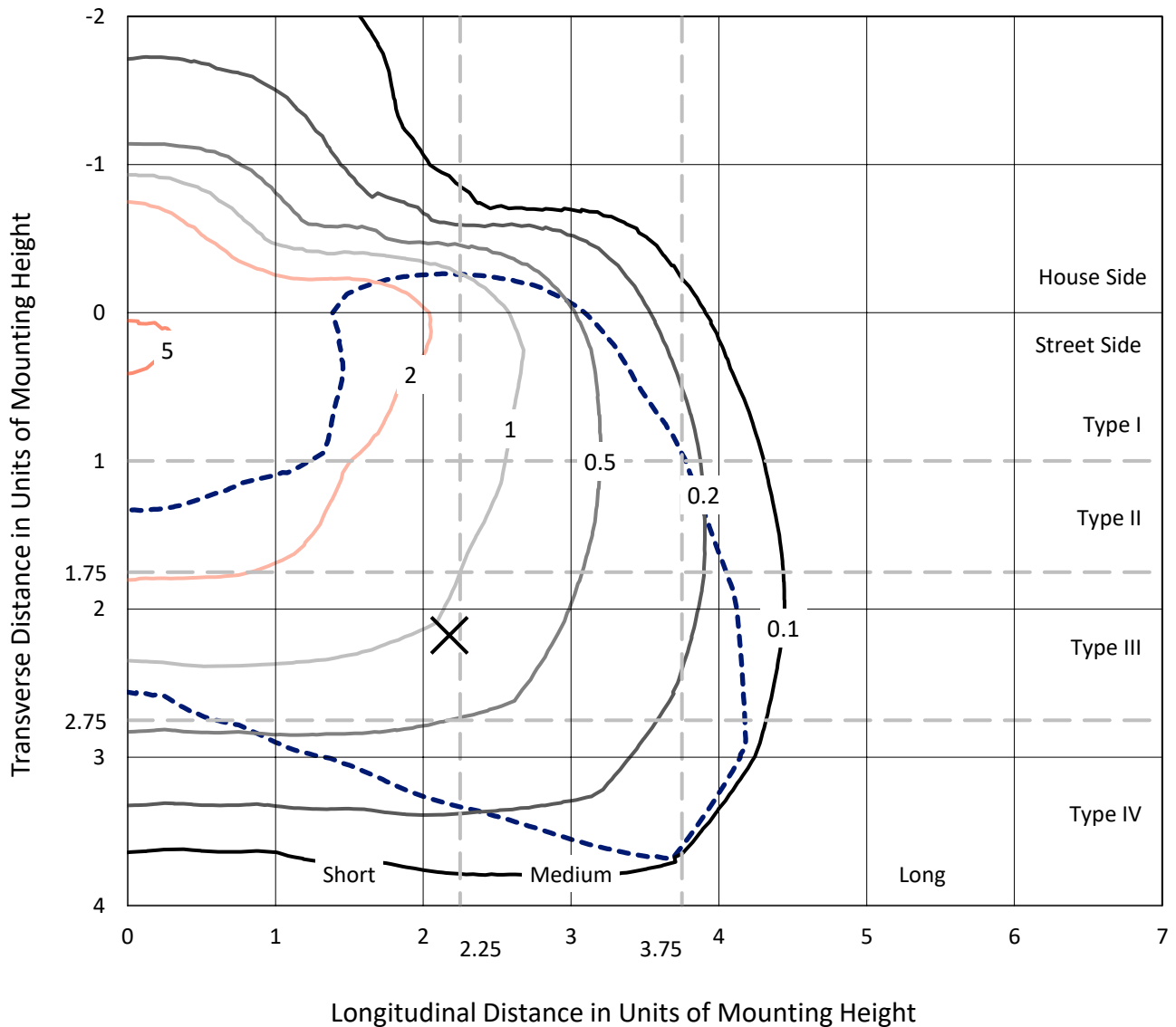
Lumens per Lamp: N/A  
Luminaire Lumens: 27888.5 lumens  
Efficiency: N/A  
Efficacy: 120.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4

Input Watts (W): 232.1  
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

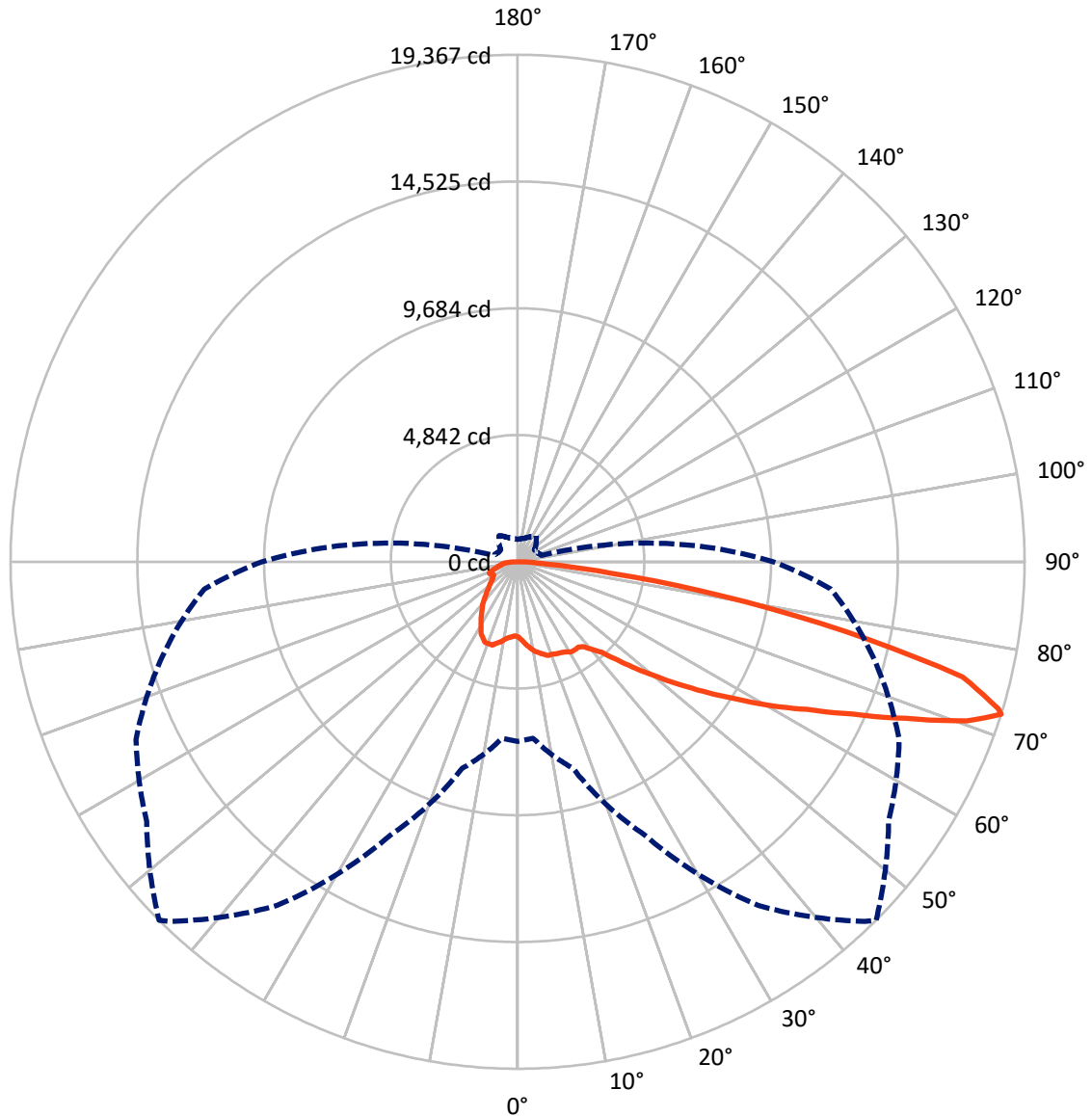
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 72-Deg Vertical

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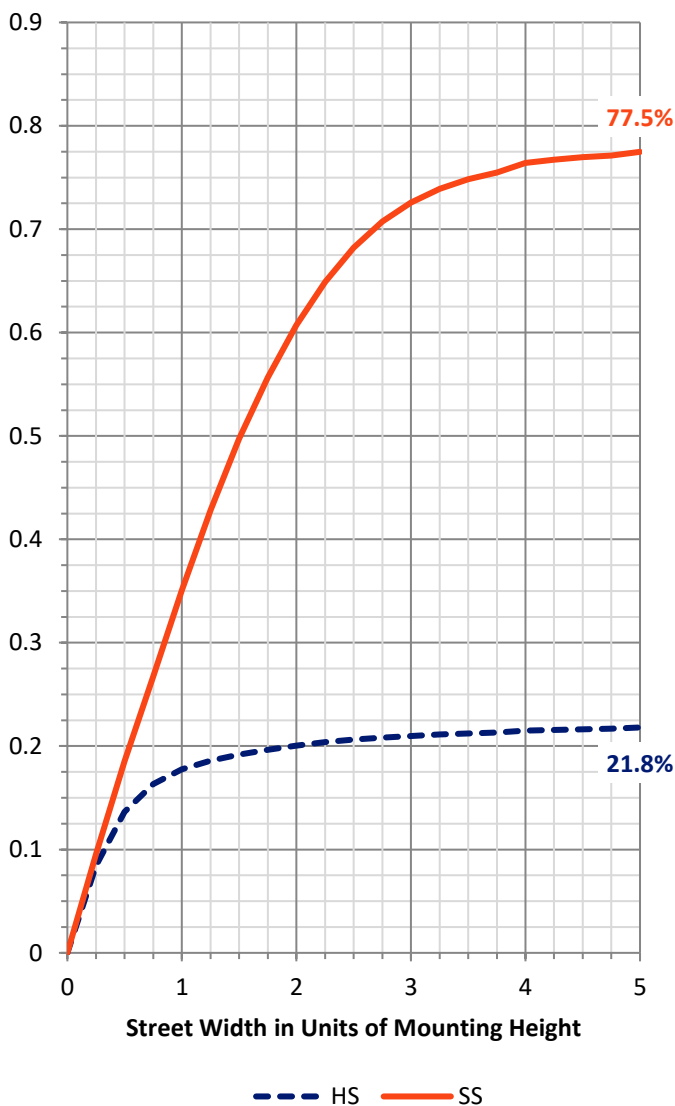
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6208.1	0.0	6208.1
	% Fixture	22.3	0.0	22.3
<b>Street Side</b>	Lumens	21680.3	0.0	21680.3
	% Fixture	77.7	0.0	77.7
<b>Total</b>	Lumens	27888.5	0.0	27888.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	293.9	1.1
10°-20°	977.8	3.5
20°-30°	1651.2	5.9
30°-40°	2285.0	8.2
40°-50°	3268.4	11.7
50°-60°	5271.6	18.9
60°-70°	7774.9	27.9
70°-80°	5645.9	20.2
80°-90°	719.7	2.6
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°	27888.5	100.0
0°-180°	27888.5	100.0

**Coefficient of Utilization**

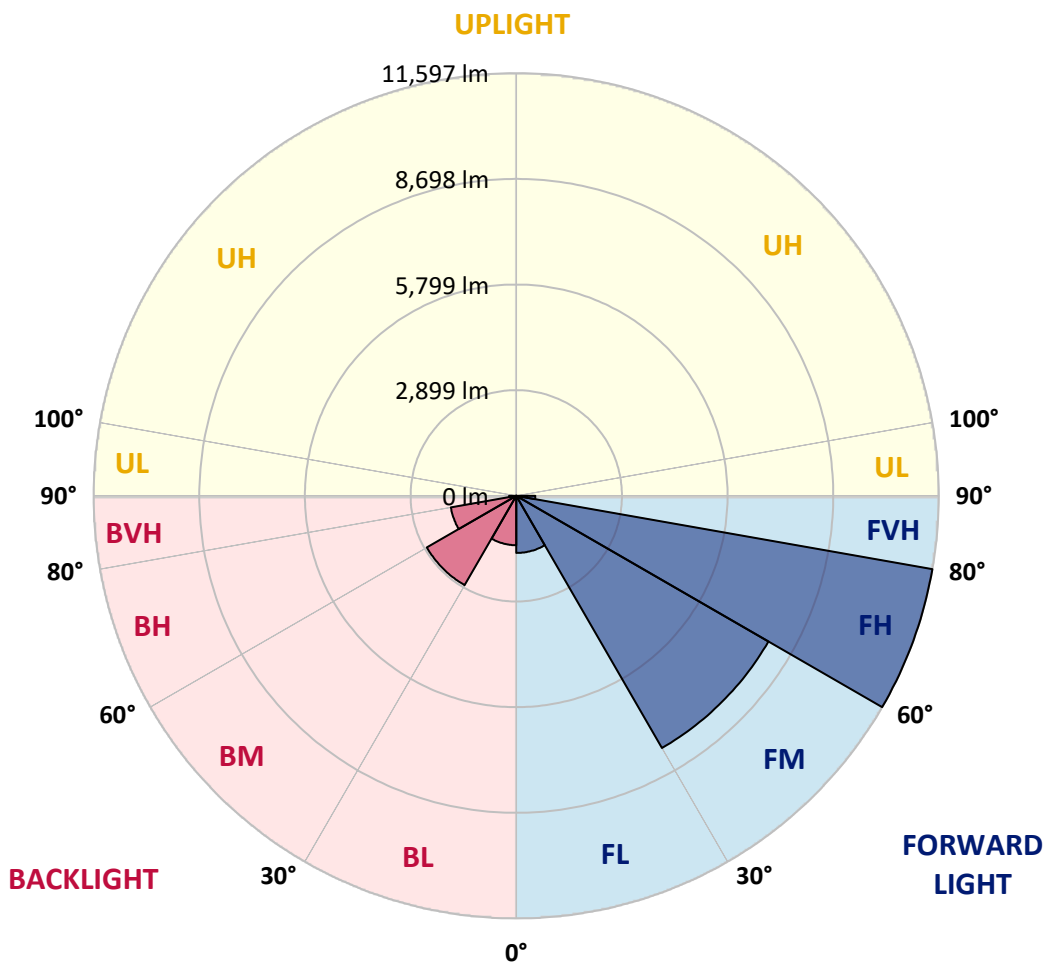


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1567.4	5.6			
FM (30°-60°)	7991.9	28.7			
FH (60°-80°)	11597.3	41.6			G4/12000
FVH (80°-90°)	523.9	1.9			G4/750
BL (0°-30°)	1355.5	4.9	B3/2500		
BM (30°-60°)	2833.2	10.2	B3/5000		
BH (60°-80°)	1823.6	6.5	B3/2500		G3/2500
BVH (80°-90°)	195.9	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	2872.0	2872.0	2872.0	2872.0	2872.0	2872.0	2872.0	2872.0	2872.0	2872.0
2.5°	3025.4	3043.4	3025.4	3022.4	2992.3	2971.2	2989.3	2962.2	2932.2	2920.1
5°	3302.1	3305.1	3272.0	3275.0	3211.8	3145.7	3157.7	3076.5	2989.3	2956.2
7.5°	3584.7	3551.7	3503.5	3488.5	3389.3	3317.1	3308.1	3235.9	3100.6	3025.4
10°	3768.2	3780.2	3702.0	3635.9	3551.7	3464.5	3461.4	3326.1	3247.9	3136.7
12.5°	3930.6	3933.6	3867.4	3762.2	3656.9	3548.7	3563.7	3503.5	3371.2	3266.0
15°	4056.9	4038.9	3966.7	3870.4	3759.2	3675.0	3665.9	3614.8	3503.5	3416.3
17.5°	4093.0	4084.0	4011.8	3909.5	3801.3	3738.1	3762.2	3678.0	3632.9	3554.7
20°	4023.8	4002.8	3990.7	3876.5	3798.3	3792.3	3771.2	3789.2	3714.1	3641.9
22.5°	3897.5	3888.5	3882.5	3792.3	3756.2	3783.2	3819.3	3846.4	3834.4	3765.2
25°	3768.2	3810.3	3771.2	3729.1	3780.2	3849.4	3840.4	3927.6	3927.6	3906.5
27.5°	3858.4	3831.3	3801.3	3780.2	3798.3	3906.5	3900.5	4005.8	4044.9	4005.8
30°	4084.0	4056.9	3969.7	3876.5	3852.4	3969.7	3999.8	4093.0	4111.0	4014.8
32.5°	4508.0	4493.0	4354.6	4081.0	3933.6	3999.8	4014.8	4120.1	4105.0	4044.9
35°	5136.5	5085.4	4892.9	4429.8	4105.0	4038.9	3999.8	4084.0	4141.1	4111.0
37.5°	5825.2	5768.1	5530.5	4944.1	4414.8	4144.1	4114.0	4183.2	4249.4	4234.3
40°	6483.8	6483.8	6270.3	5587.6	4874.9	4399.7	4405.7	4327.6	4387.7	4360.6
42.5°	7133.4	7109.3	7022.1	6342.5	5368.1	4826.8	4730.5	4535.1	4643.3	4634.3
45°	7792.0	7774.0	7749.9	7046.2	6074.8	5404.2	5353.1	5001.2	5100.4	5058.3
47.5°	8318.3	8339.3	8339.3	7831.1	6829.7	6174.1	6098.9	5542.5	5732.0	5753.0
50°	8766.4	8775.4	8766.4	8579.9	7671.7	7055.2	6901.8	6336.5	6525.9	6691.3
52.5°	9385.9	9397.9	9355.8	9283.6	8814.5	7981.5	7810.1	7181.5	7569.5	7743.9
55°	10149.8	10059.5	9981.4	10035.5	9912.2	9001.0	8823.5	8053.6	8637.1	8868.6
57.5°	10291.1	10369.3	10567.8	10997.8	11175.3	9993.4	9891.1	9124.3	9843.0	10044.5
60°	10790.3	10661.0	11148.2	12080.5	12279.0	11286.5	11181.3	10297.1	11042.9	11253.5
62.5°	11118.1	11112.1	11833.9	12940.6	13391.7	12627.8	12414.3	11821.8	12339.1	12543.6
65°	11021.9	11109.1	12390.2	13445.8	14320.9	14152.5	14029.2	13133.0	13815.7	13797.7
67.5°	10143.7	10390.3	12038.4	13809.7	15704.3	16011.1	15972.0	14976.5	15015.6	14633.7
70°	8925.8	8841.6	10549.7	13430.8	16396.0	18215.4	18206.4	16347.9	16095.3	14817.1
72°	6856.7	6763.5	8167.9	11533.1	16032.1	19096.6	19367.2	17298.2	16083.2	14056.3
72.5°	6225.2	6144.0	7542.4	10856.5	15629.1	19325.1	19198.8	17334.3	15956.9	13698.4
75°	2866.0	2772.8	3768.2	6646.2	12191.7	17123.8	17553.8	16221.6	13936.0	10904.6
77.5°	854.1	827.0	1212.0	2682.5	7085.3	12615.8	12781.2	12239.9	9728.7	5972.6
80°	475.2	478.2	625.5	1004.5	3115.6	7292.8	7888.2	7560.4	4772.6	1972.8
82.5°	264.6	279.7	391.0	595.5	1431.5	3347.2	3602.8	3473.5	1726.2	926.3
85°	138.3	144.4	204.5	318.8	812.0	1058.6	1088.7	1166.8	896.2	631.5
87.5°	54.1	54.1	75.2	132.3	300.7	327.8	294.7	357.9	514.3	409.0
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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**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2872.0	0°	2872.0	2872.0	2872.0	2872.0	2872.0	2872.0	2872.0	2872.0	2872.0	2872.0
2893.1	2.5°	2917.1	2893.1	2890.1	2851.0	2863.0	2829.9	2832.9	2826.9	2829.9	2823.9
2902.1	5°	2902.1	2884.0	2832.9	2866.0	2835.9	2878.0	2911.1	2899.1	2908.1	2905.1
2950.2	7.5°	2923.1	2899.1	2893.1	2875.0	2902.1	2920.1	2947.2	3022.4	3016.4	3025.4
3040.4	10°	2986.3	2959.2	2941.2	2968.2	2953.2	3010.3	3040.4	3079.5	3148.7	3151.7
3169.7	12.5°	3109.6	3091.5	3055.5	3061.5	3112.6	3130.6	3148.7	3172.7	3217.9	3208.8
3256.9	15°	3250.9	3211.8	3190.8	3184.8	3196.8	3217.9	3214.8	3238.9	3263.0	3284.0
3401.3	17.5°	3353.2	3302.1	3308.1	3338.1	3335.1	3329.1	3290.0	3278.0	3290.0	3302.1
3530.6	20°	3458.4	3464.5	3419.3	3392.3	3380.2	3320.1	3290.0	3253.9	3217.9	3235.9
3638.9	22.5°	3590.8	3563.7	3497.5	3416.3	3356.2	3320.1	3226.9	3163.7	3163.7	3181.8
3801.3	25°	3741.1	3684.0	3569.7	3422.3	3347.2	3193.8	3127.6	3118.6	3094.5	3121.6
3885.5	27.5°	3858.4	3807.3	3650.9	3401.3	3193.8	3070.5	3031.4	3019.4	3058.5	3061.5
3912.5	30°	3906.5	3891.5	3662.9	3347.2	3037.4	2838.9	2814.9	2869.0	2911.1	2974.3
4002.8	32.5°	3969.7	3975.7	3681.0	3220.9	2832.9	2634.4	2598.3	2664.5	2784.8	2835.9
4071.9	35°	4074.9	4105.0	3665.9	3064.5	2616.4	2426.9	2420.9	2439.0	2556.2	2646.5
4153.1	37.5°	4258.4	4252.4	3662.9	2878.0	2445.0	2246.5	2198.4	2204.4	2282.6	2357.8
4375.7	40°	4505.0	4480.9	3653.9	2634.4	2222.4	2093.1	2011.9	1981.8	1975.8	1954.8
4655.4	42.5°	4841.8	4793.7	3650.9	2387.8	2020.9	1882.6	1825.5	1747.3	1690.1	1581.9
5148.6	45°	5311.0	5226.8	3572.7	2156.3	1822.4	1708.2	1621.0	1563.8	1440.5	1305.2
5774.1	47.5°	6035.7	5762.1	3575.7	1900.6	1630.0	1536.7	1476.6	1377.4	1245.0	1136.8
6883.8	50°	7103.3	6477.8	3473.5	1699.1	1473.6	1410.4	1347.3	1233.0	1106.7	1031.5
8089.7	52.5°	8480.7	7545.4	3470.5	1518.7	1350.3	1305.2	1236.0	1133.8	1040.5	992.4
9560.3	55°	10122.7	8958.9	3578.7	1371.3	1224.0	1199.9	1169.9	1085.6	995.4	953.3
11199.3	57.5°	11803.8	10339.2	3753.2	1266.1	1115.7	1133.8	1112.7	1046.6	974.4	926.3
12712.0	60°	13298.4	11433.9	3401.3	1139.8	1019.5	1058.6	1088.7	1031.5	992.4	989.4
14360.0	62.5°	14426.2	11903.0	2586.3	1043.5	968.4	1040.5	1121.7	1157.8	1139.8	1163.8
15433.7	65°	14838.2	11620.3	1780.3	992.4	929.3	1082.6	1263.1	1251.1	1145.8	1100.7
15911.8	67.5°	14260.8	10474.6	1320.2	932.3	902.2	1169.9	1344.3	1193.9	1034.5	1028.5
14540.5	70°	12263.9	8877.7	1076.6	869.1	857.1	1121.7	1308.2	1106.7	974.4	935.3
12011.3	72°	9770.8	6913.9	944.3	824.0	784.9	1001.4	1224.0	1037.5	923.3	875.1
11220.4	72.5°	8919.8	6408.6	926.3	803.0	769.9	974.4	1181.9	1016.5	911.2	869.1
6721.4	75°	4892.9	3281.0	815.0	736.8	649.6	842.1	1094.7	953.3	860.1	800.0
2493.1	77.5°	1819.4	1272.1	703.7	652.6	562.4	727.8	995.4	905.2	781.9	706.7
830.0	80°	697.7	670.6	574.4	550.3	472.2	637.6	917.2	812.0	664.6	589.4
454.1	82.5°	424.0	391.0	436.1	430.0	360.9	580.4	863.1	760.9	589.4	478.2
243.6	85°	231.6	231.6	303.7	291.7	252.6	463.1	652.6	505.2	372.9	306.7
120.3	87.5°	102.2	120.3	162.4	153.4	138.3	261.6	318.8	267.7	186.5	126.3
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°  
2872.0  
2808.9  
2908.1  
3043.4  
3115.6  
3241.9  
3275.0  
3296.0  
3263.0  
3172.7  
3133.6  
3109.6  
2977.3  
2875.0  
2697.6  
2348.7  
1960.8  
1587.9  
1305.2  
1124.7  
1040.5  
974.4  
950.3  
920.2  
968.4  
1166.8  
1124.7  
1010.5  
917.2  
*854.1*  
836.0  
793.9  
691.7  
565.4  
463.1  
312.8  
135.3  
0.0

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