

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: P574815

Luminaire Tested: **EPH-VN-03-740-U-T4W**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P574815  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 10/19/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-VN-03-740-U-T4W  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T4W distribution lens  
Light Source: (48) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

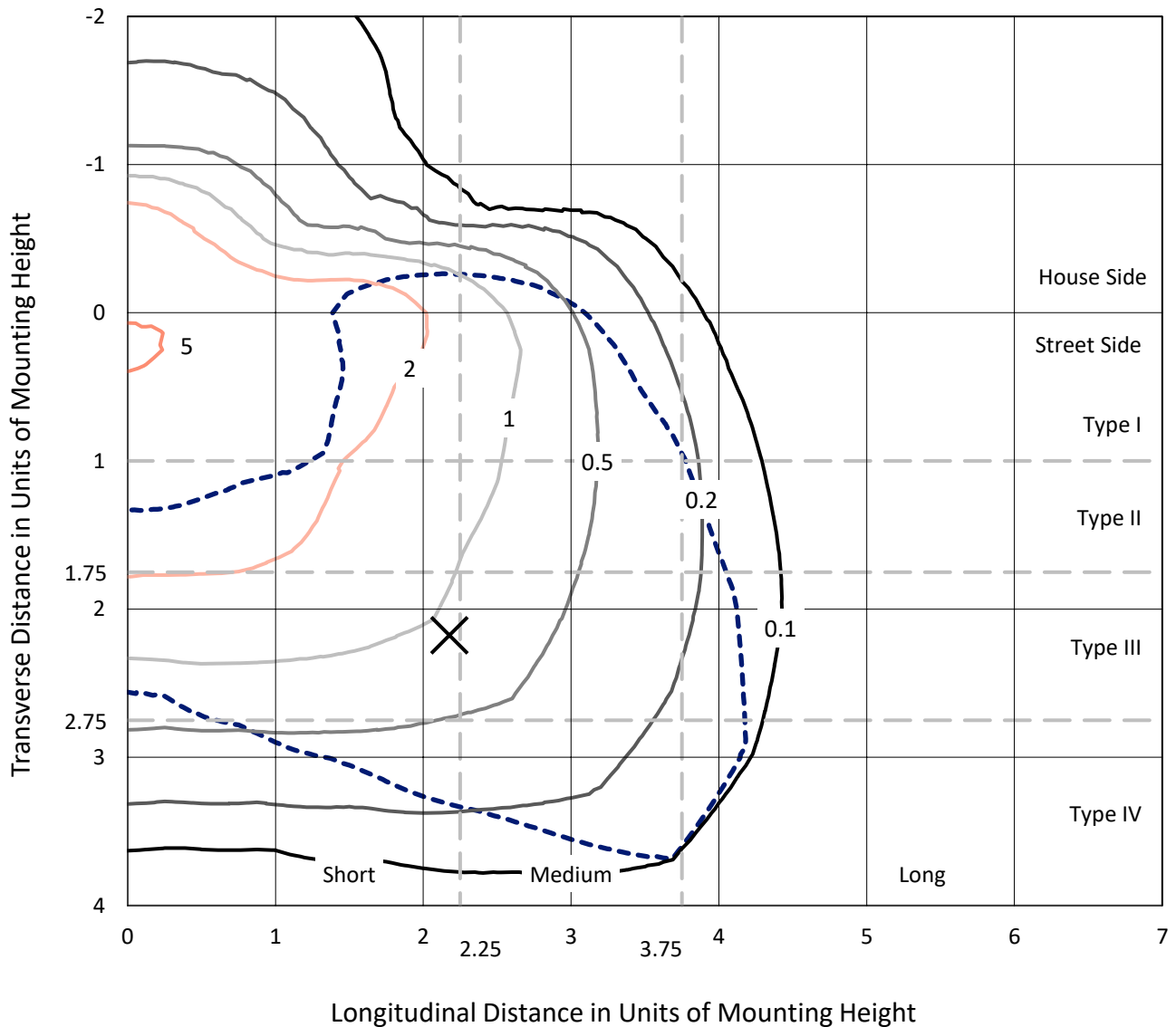
Lumens per Lamp: N/A  
Luminaire Lumens: 27264.1 lumens  
Efficiency: N/A  
Efficacy: 117.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4

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

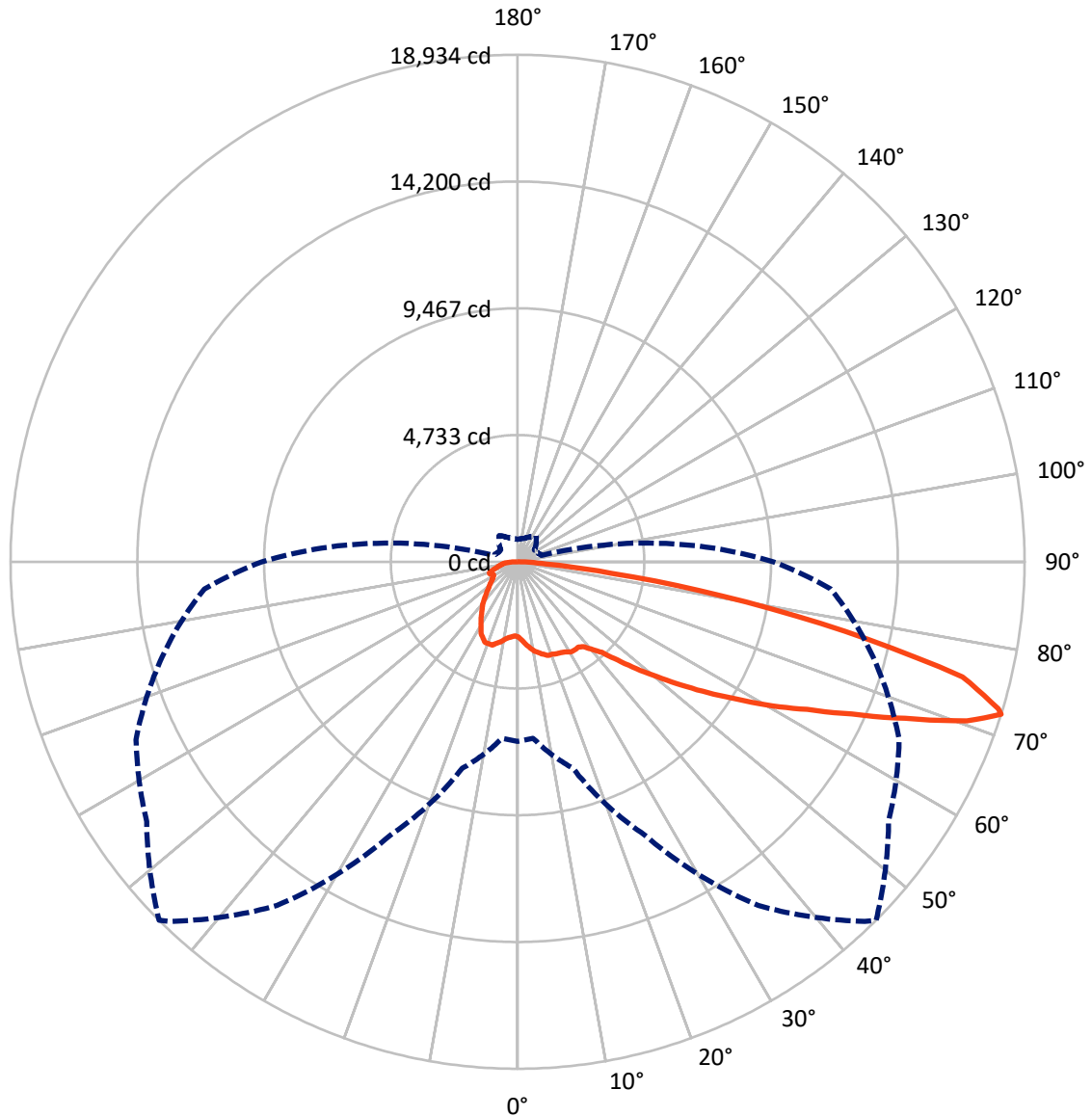
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 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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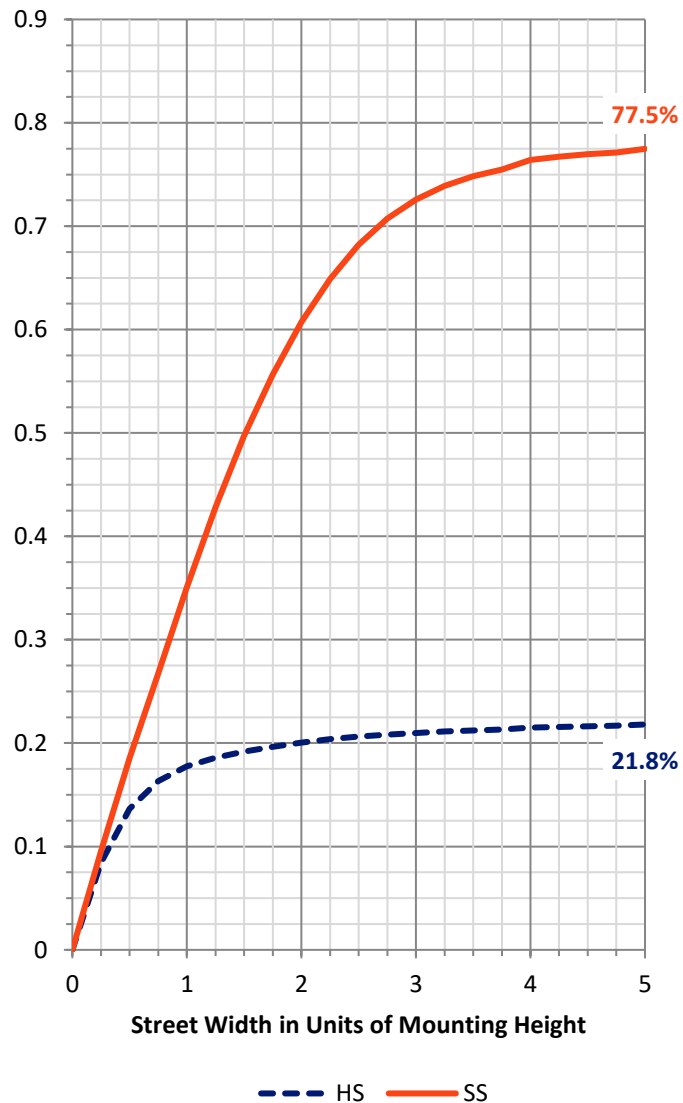
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6069.2	0.0	6069.2
	% Fixture	22.3	0.0	22.3
<b>Street Side</b>	Lumens	21195.0	0.0	21195.0
	% Fixture	77.7	0.0	77.7
<b>Total</b>	Lumens	27264.1	0.0	27264.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	287.3	1.1
10°-20°	955.9	3.5
20°-30°	1614.2	5.9
30°-40°	2233.8	8.2
40°-50°	3195.3	11.7
50°-60°	5153.6	18.9
60°-70°	7600.8	27.9
70°-80°	5519.5	20.2
80°-90°	703.6	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°	27264.1	100.0
0°-180°	27264.1	100.0

**Coefficient of Utilization**

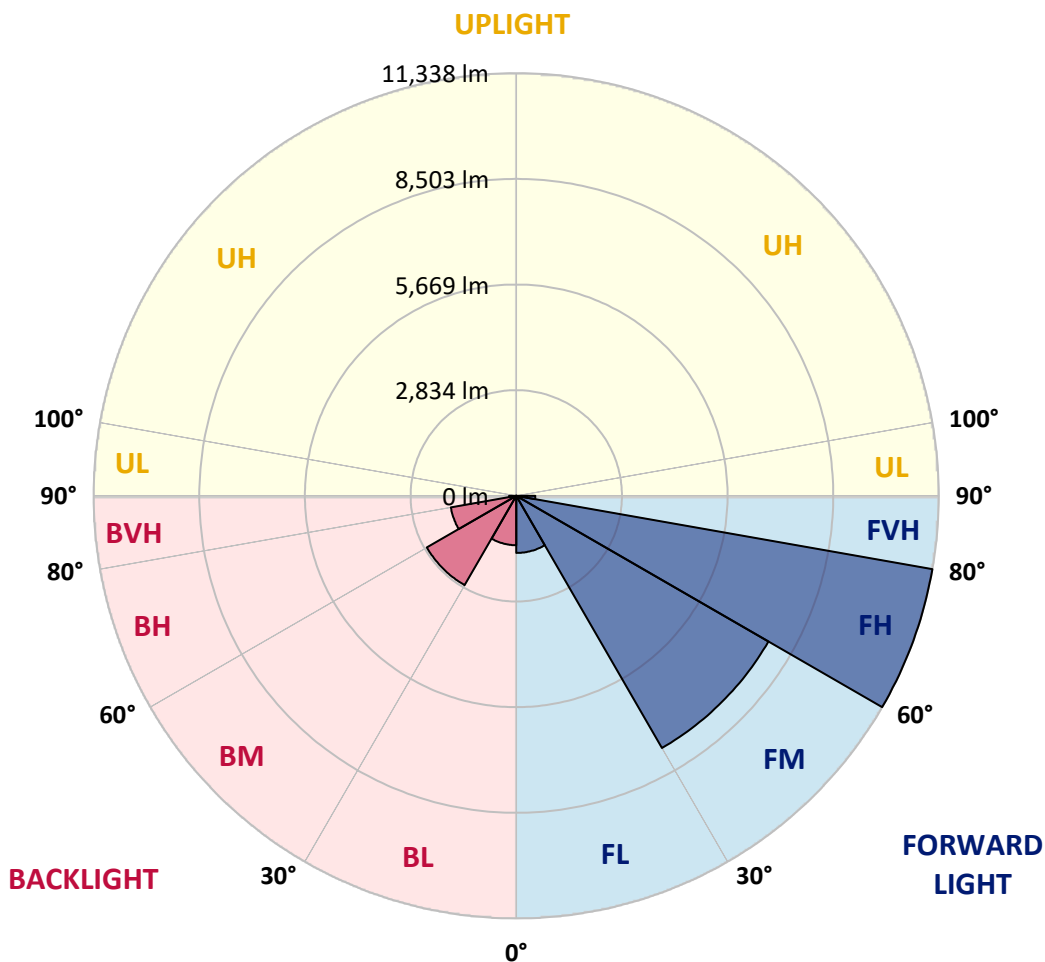


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1532.3	5.6			
FM (30°-60°)	7812.9	28.7			
FH (60°-80°)	11337.6	41.6			G4/12000
FVH (80°-90°)	512.1	1.9			G4/750
BL (0°-30°)	1325.2	4.9	B3/2500		
BM (30°-60°)	2769.8	10.2	B3/5000		
BH (60°-80°)	1782.7	6.5	B3/2500		G3/2500
BVH (80°-90°)	191.5	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°	2807.7	2807.7	2807.7	2807.7	2807.7	2807.7	2807.7	2807.7	2807.7	2807.7
2.5°	2957.7	2975.3	2957.7	2954.7	2925.3	2904.7	2922.4	2895.9	2866.5	2854.8
5°	3228.1	3231.1	3198.7	3201.7	3139.9	3075.3	3087.0	3007.6	2922.4	2890.0
7.5°	3504.5	3472.2	3425.1	3410.4	3313.4	3242.8	3234.0	3163.5	3031.2	2957.7
10°	3683.8	3695.6	3619.2	3554.5	3472.2	3386.9	3384.0	3251.7	3175.2	3066.4
12.5°	3842.6	3845.5	3780.9	3678.0	3575.1	3469.2	3483.9	3425.1	3295.8	3192.9
15°	3966.1	3948.4	3877.9	3783.8	3675.0	3592.7	3583.9	3533.9	3425.1	3339.9
17.5°	4001.4	3992.5	3922.0	3822.0	3716.2	3654.4	3678.0	3595.6	3551.5	3475.1
20°	3933.7	3913.2	3901.4	3789.7	3713.2	3707.4	3686.8	3704.4	3630.9	3560.4
22.5°	3810.3	3801.4	3795.6	3707.4	3672.1	3698.5	3733.8	3760.3	3748.5	3680.9
25°	3683.8	3725.0	3686.8	3645.6	3695.6	3763.2	3754.4	3839.7	3839.7	3819.1
27.5°	3772.0	3745.6	3716.2	3695.6	3713.2	3819.1	3813.2	3916.1	3954.3	3916.1
30°	3992.5	3966.1	3880.8	3789.7	3766.2	3880.8	3910.2	4001.4	4019.0	3924.9
32.5°	4407.1	4392.4	4257.1	3989.6	3845.5	3910.2	3924.9	4027.8	4013.1	3954.3
35°	5021.5	4971.6	4783.4	4330.6	4013.1	3948.4	3910.2	3992.5	4048.4	4019.0
37.5°	5694.8	5638.9	5406.7	4833.4	4315.9	4051.3	4021.9	4089.6	4154.2	4139.5
40°	6338.7	6338.7	6129.9	5462.5	4765.8	4301.2	4307.1	4230.7	4289.5	4263.0
42.5°	6973.7	6950.2	6864.9	6200.5	5247.9	4718.7	4624.6	4433.5	4539.4	4530.6
45°	7617.6	7599.9	7576.4	6888.4	5938.8	5283.2	5233.2	4889.2	4986.3	4945.1
47.5°	8132.1	8152.6	8152.6	7655.8	6676.8	6035.8	5962.3	5418.4	5603.7	5624.2
50°	8570.1	8579.0	8570.1	8387.9	7500.0	6897.3	6747.3	6194.6	6379.8	6541.5
52.5°	9175.8	9187.5	9146.4	9075.8	8617.2	7802.8	7635.2	7020.7	7400.0	7570.5
55°	9922.5	9834.3	9757.9	9810.8	9690.3	8799.5	8626.0	7873.3	8443.7	8670.1
57.5°	10060.7	10137.2	10331.2	10751.6	10925.1	9769.7	9669.7	8920.0	9622.7	9819.6
60°	10548.8	10422.3	10898.6	11810.0	12004.1	11033.9	10931.0	10066.6	10795.7	11001.5
62.5°	10869.2	10863.3	11568.9	12650.9	13091.9	12345.1	12136.4	11557.2	12062.9	12262.8
65°	10775.1	10860.4	12112.8	13144.8	14000.3	13835.7	13715.1	12839.0	13506.4	13488.8
67.5°	9916.7	10157.7	11768.9	13500.5	15352.7	15652.6	15614.4	14641.3	14679.5	14306.1
70°	8726.0	8643.6	10313.6	13130.1	16028.9	17807.6	17798.8	15981.9	15734.9	14485.4
72°	6703.2	6612.1	7985.1	11274.9	15673.2	18669.1	18933.7	16910.9	15723.2	13741.6
72.5°	6085.8	6006.4	7373.5	10613.4	15279.2	18892.5	18769.0	16946.2	15599.7	13391.7
75°	2801.8	2710.7	3683.8	6497.4	11918.8	16740.4	17160.8	15858.4	13624.0	10660.5
77.5°	835.0	808.5	1184.8	2622.5	6926.7	12333.3	12495.0	11965.8	9510.9	5838.9
80°	464.5	467.5	611.5	982.0	3045.9	7129.5	7711.6	7391.2	4665.8	1928.6
82.5°	258.7	273.4	382.2	582.1	1399.4	3272.2	3522.1	3395.7	1687.6	905.5
85°	135.2	141.1	199.9	311.6	793.8	1034.9	1064.3	1140.7	876.1	617.4
87.5°	52.9	52.9	73.5	129.4	294.0	320.5	288.1	349.9	502.7	399.8
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°
2807.7	0°	2807.7	2807.7	2807.7	2807.7	2807.7	2807.7	2807.7	2807.7	2807.7	2807.7
2828.3	2.5°	2851.8	2828.3	2825.4	2787.1	2798.9	2766.5	2769.5	2763.6	2766.5	2760.7
2837.1	5°	2837.1	2819.5	2769.5	2801.8	2772.4	2813.6	2845.9	2834.2	2843.0	2840.1
2884.2	7.5°	2857.7	2834.2	2828.3	2810.7	2837.1	2854.8	2881.2	2954.7	2948.8	2957.7
2972.4	10°	2919.4	2893.0	2875.3	2901.8	2887.1	2943.0	2972.4	3010.6	3078.2	3081.1
3098.8	12.5°	3040.0	3022.3	2987.1	2992.9	3042.9	3060.6	3078.2	3101.7	3145.8	3137.0
3184.0	15°	3178.2	3139.9	3119.4	3113.5	3125.2	3145.8	3142.9	3166.4	3189.9	3210.5
3325.2	17.5°	3278.1	3228.1	3234.0	3263.4	3260.5	3254.6	3216.4	3204.6	3216.4	3228.1
3451.6	20°	3381.0	3386.9	3342.8	3316.3	3304.6	3245.8	3216.4	3181.1	3145.8	3163.5
3557.4	22.5°	3510.4	3483.9	3419.2	3339.9	3281.1	3245.8	3154.6	3092.9	3092.9	3110.5
3716.2	25°	3657.4	3601.5	3489.8	3345.7	3272.2	3122.3	3057.6	3048.8	3025.3	3051.7
3798.5	27.5°	3772.0	3722.1	3569.2	3325.2	3122.3	3001.8	2963.5	2951.8	2990.0	2992.9
3825.0	30°	3819.1	3804.4	3580.9	3272.2	2969.4	2775.4	2751.8	2804.8	2845.9	2907.7
3913.2	32.5°	3880.8	3886.7	3598.6	3148.8	2769.5	2575.4	2540.2	2604.8	2722.4	2772.4
3980.8	35°	3983.7	4013.1	3583.9	2995.9	2557.8	2372.6	2366.7	2384.3	2499.0	2587.2
4060.2	37.5°	4163.1	4157.2	3580.9	2813.6	2390.2	2196.2	2149.1	2155.0	2231.5	2305.0
4277.7	40°	4404.1	4380.6	3572.1	2575.4	2172.7	2046.2	1966.9	1937.5	1931.6	1911.0
4551.1	42.5°	4733.4	4686.4	3569.2	2334.4	1975.7	1840.4	1784.6	1708.1	1652.3	1546.4
5033.3	45°	5192.1	5109.7	3492.7	2108.0	1781.6	1669.9	1584.7	1528.8	1408.3	1276.0
5644.8	47.5°	5900.6	5633.1	3495.7	1858.1	1593.5	1502.3	1443.5	1346.5	1217.2	1111.3
6729.7	50°	6944.3	6332.8	3395.7	1661.1	1440.6	1378.9	1317.1	1205.4	1081.9	1008.4
7908.6	52.5°	8290.8	7376.5	3392.8	1484.7	1320.1	1276.0	1208.3	1108.4	1017.2	970.2
9346.3	55°	9896.1	8758.3	3498.6	1340.6	1196.6	1173.1	1143.7	1061.3	973.1	932.0
10948.6	57.5°	11539.5	10107.8	3669.1	1237.7	1090.7	1108.4	1087.8	1023.1	952.6	905.5
12427.4	60°	13000.7	11177.9	3325.2	1114.3	996.7	1034.9	1064.3	1008.4	970.2	967.3
14038.6	62.5°	14103.2	11636.6	2528.4	1020.2	946.7	1017.2	1096.6	1131.9	1114.3	1137.8
15088.1	65°	14506.0	11360.2	1740.5	970.2	908.5	1058.4	1234.8	1223.0	1120.1	1076.0
15555.6	67.5°	13941.5	10240.1	1290.7	911.4	882.0	1143.7	1314.2	1167.2	1011.4	1005.5
14215.0	70°	11989.4	8678.9	1052.5	849.7	837.9	1096.6	1278.9	1081.9	952.6	914.3
11742.4	72°	9552.1	6759.1	923.2	805.6	767.3	979.0	1196.6	1014.3	902.6	855.5
10969.2	72.5°	8720.1	6265.2	905.5	785.0	752.6	952.6	1155.4	993.7	890.8	849.7
6570.9	75°	4783.4	3207.6	796.7	720.3	635.0	823.2	1070.2	932.0	840.8	782.0
2437.3	77.5°	1778.7	1243.6	688.0	638.0	549.8	711.5	973.1	884.9	764.4	690.9
811.4	80°	682.1	655.6	561.5	538.0	461.6	623.3	896.7	793.8	649.7	576.2
443.9	82.5°	414.5	382.2	426.3	420.4	352.8	567.4	843.8	743.8	576.2	467.5
238.1	85°	226.4	226.4	296.9	285.2	247.0	452.8	638.0	493.9	364.6	299.9
117.6	87.5°	100.0	117.6	158.8	149.9	135.2	255.8	311.6	261.7	182.3	123.5
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°  
2807.7  
2746.0  
2843.0  
2975.3  
3045.9  
3169.3  
3201.7  
3222.3  
3189.9  
3101.7  
3063.5  
3040.0  
2910.6  
2810.7  
2637.2  
2296.1  
1916.9  
1552.3  
1276.0  
1099.6  
1017.2  
952.6  
929.0  
899.6  
946.7  
1140.7  
1099.6  
987.8  
896.7  
**835.0**  
817.3  
776.2  
676.2  
552.7  
452.8  
305.8  
132.3  
0.0

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