

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: P574695

Luminaire Tested: **EPH-VN-03-740-U-T3**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P574695  
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-T3  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T3 distribution lens  
Light Source: (48) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

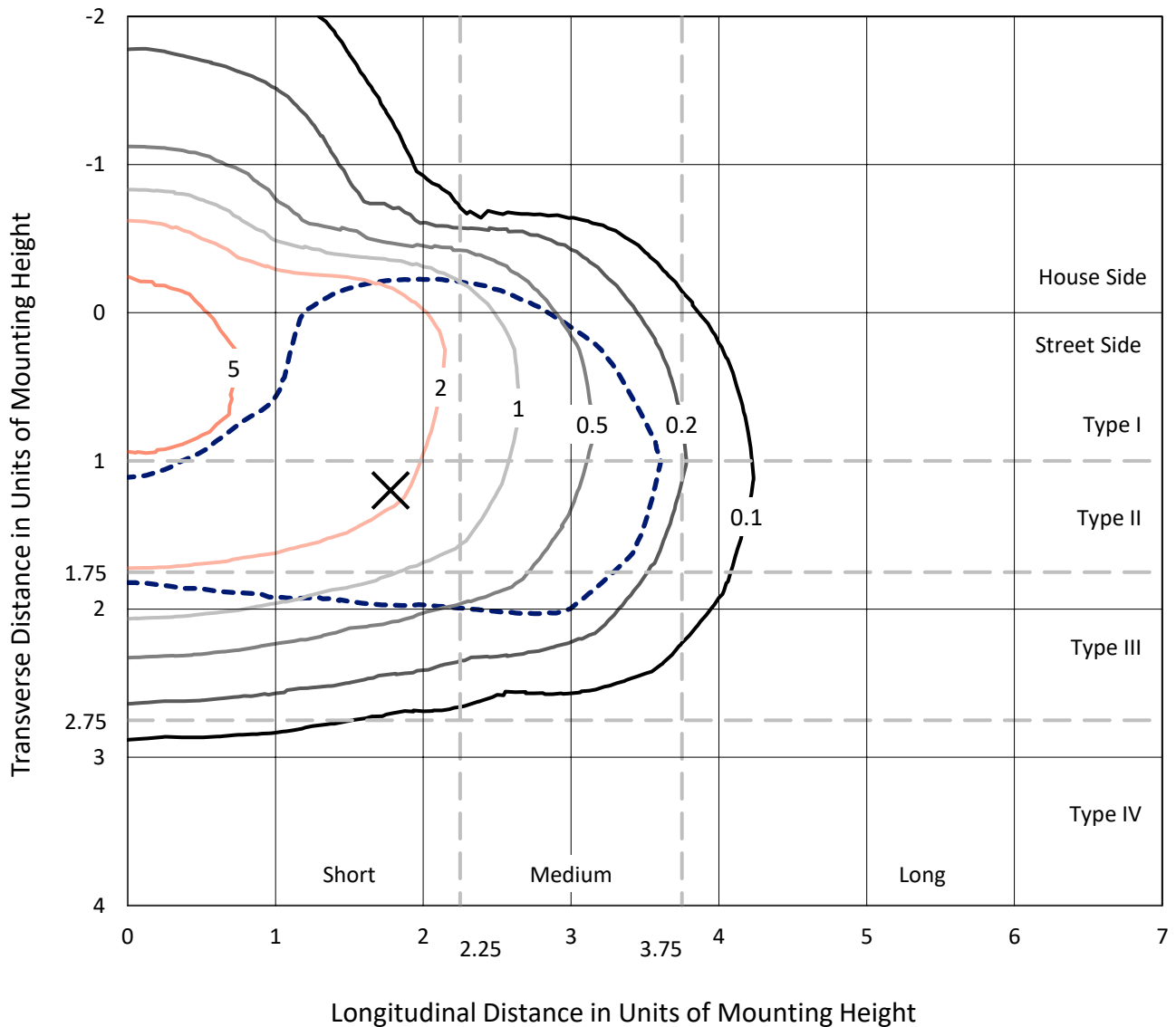
Lumens per Lamp: N/A  
Luminaire Lumens: 27472.9 lumens  
Efficiency: N/A  
Efficacy: 118.4 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

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

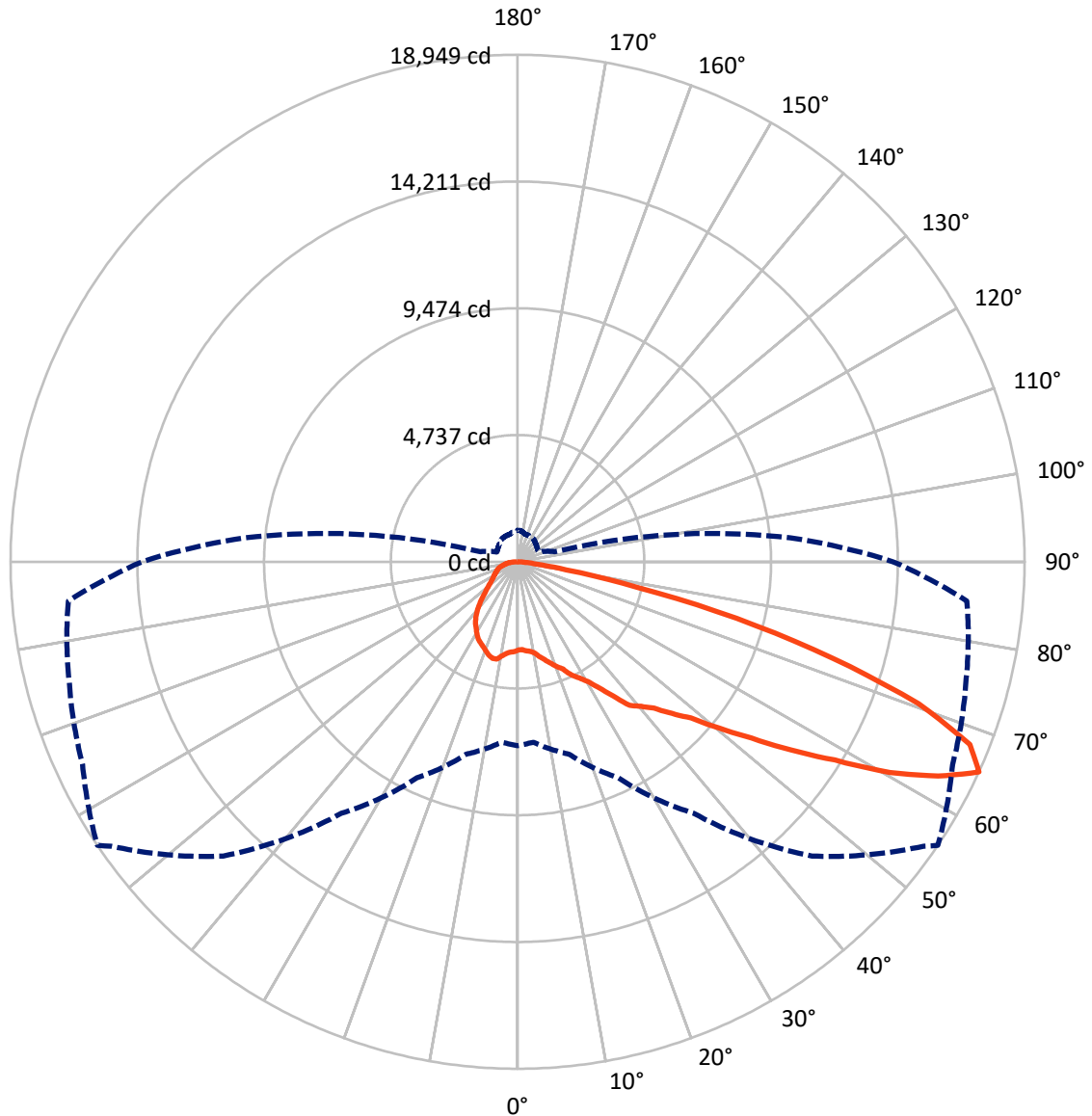
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical



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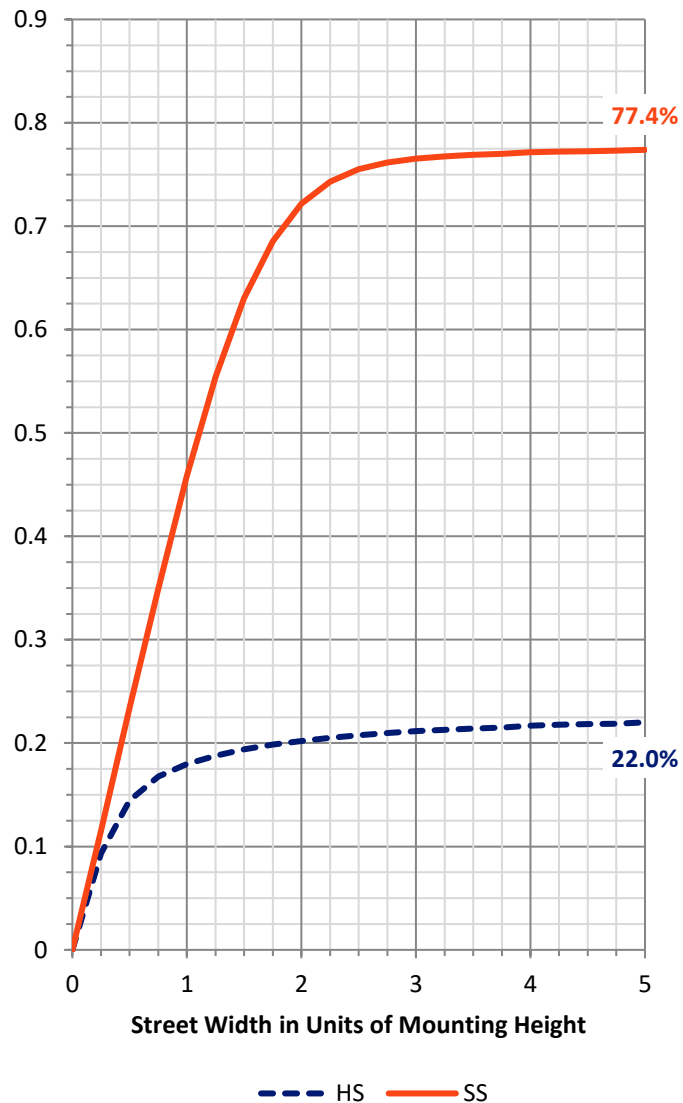
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6161.3	0.0	6161.3
	% Fixture	22.4	0.0	22.4
<b>Street Side</b>	Lumens	21311.6	0.0	21311.6
	% Fixture	77.6	0.0	77.6
<b>Total</b>	Lumens	27472.9	0.0	27472.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	326.8	1.2
10°-20°	1061.1	3.9
20°-30°	1889.3	6.9
30°-40°	2829.2	10.3
40°-50°	4191.8	15.3
50°-60°	6459.0	23.5
60°-70°	7312.4	26.6
70°-80°	3034.7	11.0
80°-90°	368.7	1.3
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°	27472.9	100.0
0°-180°	27472.9	100.0

**Coefficient of Utilization**

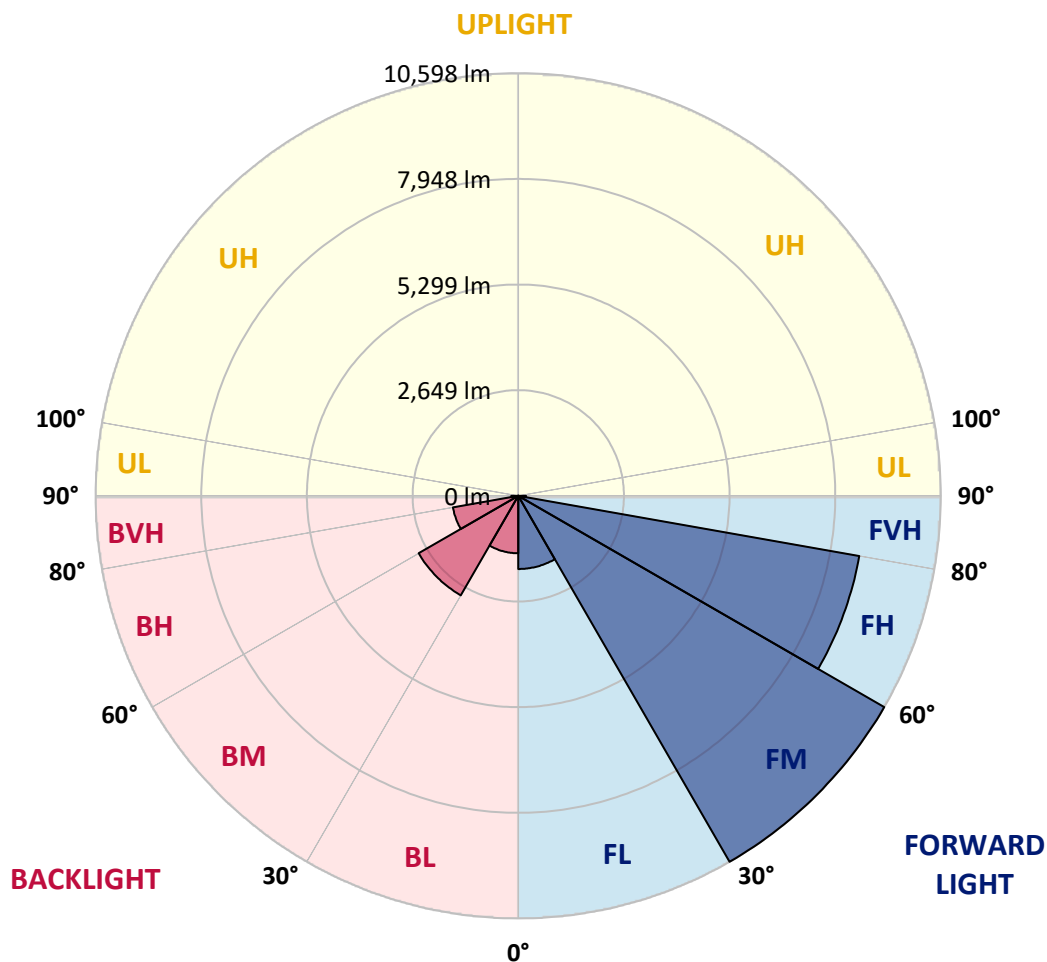


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1836.0	6.7			
FM (30°-60°)	10597.8	38.6			
FH (60°-80°)	8683.3	31.6			G4/12000
FVH (80°-90°)	194.5	0.7			G2/225
BL (0°-30°)	1441.2	5.2	B3/2500		
BM (30°-60°)	2882.1	10.5	B3/5000		
BH (60°-80°)	1663.8	6.1	B3/2500		G3/2500
BVH (80°-90°)	174.2	0.6			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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	3297.5	3297.5	3297.5	3297.5	3297.5	3297.5	3297.5	3297.5	3297.5	3297.5
2.5°	3211.3	3228.5	3217.0	3251.5	3280.3	3280.3	3303.3	3286.0	3309.0	3340.7
5°	3317.7	3248.7	3286.0	3303.3	3294.7	3309.0	3286.0	3343.5	3306.2	3366.5
7.5°	3343.5	3369.4	3401.0	3372.3	3398.2	3383.8	3386.7	3378.0	3357.9	3406.8
10°	3533.3	3495.9	3567.8	3524.7	3518.9	3513.2	3501.7	3458.5	3507.4	3510.3
12.5°	3751.8	3717.3	3714.4	3679.9	3725.9	3642.5	3659.8	3636.8	3645.4	3656.9
15°	3909.9	3895.5	3961.6	3921.4	3861.0	3823.6	3863.9	3800.6	3832.3	3826.5
17.5°	4223.3	4220.4	4171.5	4105.4	4070.9	4016.3	4007.6	3981.8	4004.8	3993.3
20°	4441.8	4473.4	4482.0	4404.4	4272.1	4211.8	4197.4	4177.3	4203.1	4194.5
22.5°	4775.2	4726.4	4763.7	4628.6	4579.7	4436.0	4384.3	4355.5	4479.1	4447.5
25°	4988.0	5039.7	5002.4	4956.4	4847.1	4668.9	4631.5	4694.7	4743.6	4709.1
27.5°	5468.1	5416.3	5381.8	5243.9	5172.0	4985.1	4942.0	4919.0	4930.5	4950.6
30°	5833.2	5862.0	5784.3	5686.6	5505.5	5315.7	5215.1	5195.0	5154.7	5120.2
32.5°	6353.6	6310.4	6264.4	6201.2	6046.0	5795.8	5698.1	5623.3	5502.6	5341.6
35°	6603.7	6727.3	6692.8	6523.2	6405.3	6310.4	6281.7	6166.7	6066.1	5813.1
37.5°	7020.6	7072.3	7023.4	6968.8	6914.2	6813.6	6779.1	6810.7	6612.3	6195.5
40°	7290.8	7400.0	7500.7	7348.3	7336.8	7356.9	7144.2	7106.8	6698.6	6480.1
42.5°	7842.8	7888.8	7908.9	7903.2	7969.3	7969.3	7563.9	7483.4	7193.0	7014.8
45°	8573.0	8610.4	8682.3	8734.0	8659.3	8696.6	8118.8	8087.1	7828.4	7793.9
47.5°	9205.5	9294.6	9455.6	9608.0	9705.7	9579.2	8946.7	8722.5	8656.4	8863.4
50°	9757.5	9651.1	10027.7	10183.0	10611.3	10821.2	9861.0	9771.9	9665.5	10062.2
52.5°	9812.1	9955.8	10487.7	10798.2	11680.8	12068.9	10982.2	10944.8	10815.4	11272.6
55°	10203.1	10185.8	10720.6	11393.3	12442.7	13095.3	12442.7	12419.7	12137.9	12572.0
57.5°	10137.0	10312.3	10734.9	11675.0	13129.8	14196.4	14136.0	13977.9	13584.0	13937.6
60°	9912.7	9958.7	10473.3	11666.4	13529.4	15326.2	15964.4	15996.1	15191.1	15472.8
62.5°	8642.0	8748.4	9401.0	10749.3	13244.8	16105.3	17749.8	17637.6	16993.6	16671.7
65°	6873.9	6767.6	7446.0	8903.6	11473.8	15553.3	18531.7	18948.6	17936.6	17347.3
67.5°	4214.6	4188.8	4841.4	6126.5	8584.5	13236.1	17907.9	18232.7	17675.0	17203.5
70°	2170.6	2104.4	2512.7	3418.3	5396.2	9711.5	15584.9	15904.1	16435.9	15429.7
72.5°	1012.0	997.6	1216.1	1681.8	2748.4	5709.6	12068.9	12298.9	13420.1	13009.0
75°	595.1	603.7	727.4	879.7	1339.7	2690.9	8009.5	8455.1	9671.2	9375.1
77.5°	445.6	445.6	517.5	612.4	782.0	1040.7	3953.0	4542.4	5655.0	5085.7
80°	327.7	333.5	396.7	460.0	543.4	537.6	1569.7	1839.9	2593.2	2216.6
82.5°	255.9	264.5	307.6	342.1	382.4	324.9	644.0	692.9	1066.6	848.1
85°	178.2	184.0	241.5	232.9	232.9	181.1	267.4	281.7	422.6	402.5
87.5°	43.1	48.9	117.9	129.4	97.7	54.6	83.4	94.9	152.4	175.4
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°
3297.5	0°	3297.5	3297.5	3297.5	3297.5	3297.5	3297.5	3297.5	3297.5	3297.5
3355.0	2.5°	3311.9	3323.4	3372.3	3346.4	3360.8	3300.4	3349.3	3309.0	3343.5
3380.9	5°	3403.9	3378.0	3406.8	3386.7	3386.7	3409.7	3444.2	3418.3	3470.0
3401.0	7.5°	3441.3	3444.2	3461.4	3464.3	3449.9	3521.8	3524.7	3516.0	3564.9
3539.0	10°	3533.3	3536.2	3567.8	3585.0	3570.6	3596.5	3567.8	3544.8	3541.9
3648.3	12.5°	3679.9	3708.6	3702.9	3717.3	3720.1	3610.9	3544.8	3432.7	3418.3
3809.3	15°	3815.0	3803.5	3809.3	3838.0	3717.3	3541.9	3424.0	3329.2	3334.9
4019.1	17.5°	3976.0	3984.6	3993.3	3861.0	3639.6	3432.7	3329.2	3329.2	3300.4
4165.8	20°	4160.0	4125.5	4050.8	3863.9	3504.5	3306.2	3274.5	3274.5	3240.0
4323.9	22.5°	4303.8	4234.8	4122.6	3774.8	3383.8	3257.3	3179.7	3125.0	3084.8
4499.2	25°	4395.8	4358.4	4139.9	3682.8	3294.7	3127.9	3012.9	2929.5	2877.8
4637.2	27.5°	4536.6	4464.7	4188.8	3576.4	3196.9	2998.5	2820.3	2690.9	2593.2
4847.1	30°	4726.4	4622.9	4154.3	3424.0	3047.4	2774.3	2564.4	2397.7	2285.6
5045.5	32.5°	4881.6	4746.5	4125.5	3286.0	2880.7	2547.2	2268.3	2098.7	2035.4
5379.0	35°	5177.7	4910.4	4105.4	3208.4	2731.2	2320.1	2026.8	1880.2	1799.7
5577.3	37.5°	5404.8	5195.0	4056.5	3047.4	2538.6	2098.7	1842.8	1710.6	1589.8
6037.3	40°	5761.3	5591.7	4059.4	2820.3	2311.4	1908.9	1699.1	1561.1	1408.7
6718.7	42.5°	6431.2	5982.7	4076.6	2639.2	2055.6	1753.7	1569.7	1405.8	1253.5
7494.9	45°	7253.4	6520.3	3970.3	2475.3	1793.9	1607.1	1414.5	1250.6	1152.8
8550.0	47.5°	8199.3	7046.4	3826.5	2167.7	1575.5	1451.8	1270.7	1175.8	1104.0
9909.8	50°	9257.2	7799.7	3786.3	1885.9	1405.8	1319.6	1201.7	1129.8	1081.0
11442.2	52.5°	10620.0	8676.5	3705.8	1595.6	1259.2	1213.2	1175.8	1127.0	1083.8
12871.0	55°	11922.3	9648.2	3619.5	1357.0	1155.7	1161.5	1181.6	1138.5	1101.1
14472.3	57.5°	13388.5	10640.1	3300.4	1181.6	1078.1	1135.6	1175.8	1127.0	1089.6
16111.0	60°	14294.1	11197.8	2676.5	1029.2	1009.1	1086.7	1141.3	1089.6	1049.3
16864.3	62.5°	14662.1	10904.6	2018.2	934.3	960.2	1020.6	1086.7	1066.6	1037.8
16855.7	65°	14035.4	10229.0	1443.2	853.9	894.1	954.5	1037.8	1060.8	1069.5
15481.4	67.5°	12488.6	8906.5	1060.8	787.7	825.1	914.2	1072.3	1109.7	1104.0
12991.8	70°	9993.2	6965.9	828.0	733.1	799.2	945.8	1121.2	1121.2	1081.0
9909.8	72.5°	7270.7	4910.4	713.0	669.9	733.1	868.2	1115.5	1112.6	1060.8
6310.4	75°	4401.5	2857.7	629.6	606.6	629.6	744.6	1066.6	1049.3	977.5
3035.9	77.5°	2193.6	1437.5	514.6	537.6	549.1	623.9	937.2	963.1	865.4
1198.8	80°	925.7	626.7	428.4	462.9	462.9	526.1	779.1	796.4	718.7
474.4	82.5°	422.6	359.4	365.1	402.5	376.6	408.2	618.1	638.2	583.6
201.2	85°	178.2	204.1	278.9	316.2	278.9	264.5	425.5	448.5	379.5
86.2	87.5°	80.5	112.1	175.4	230.0	140.9	123.6	227.1	235.7	189.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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180°  
3297.5  
3294.7  
3415.4  
3536.2  
3530.4  
3438.4  
3378.0  
3314.8  
3182.5  
3012.9  
2828.9  
2558.7  
2262.6  
1966.4  
1693.3  
1489.2  
1328.2  
1184.5  
1109.7  
1066.6  
1049.3  
1049.3  
1049.3  
1049.3  
1049.3  
1052.2  
1078.1  
**1175.8**  
1244.8  
1210.3  
1089.6  
960.2  
828.0  
661.2  
500.2  
319.1  
132.2  
0.0

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