

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: P574607

Luminaire Tested: **EPH-VN-07-730-U-T2**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P574607  
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-T2  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T2 distribution lens  
Light Source: (112) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

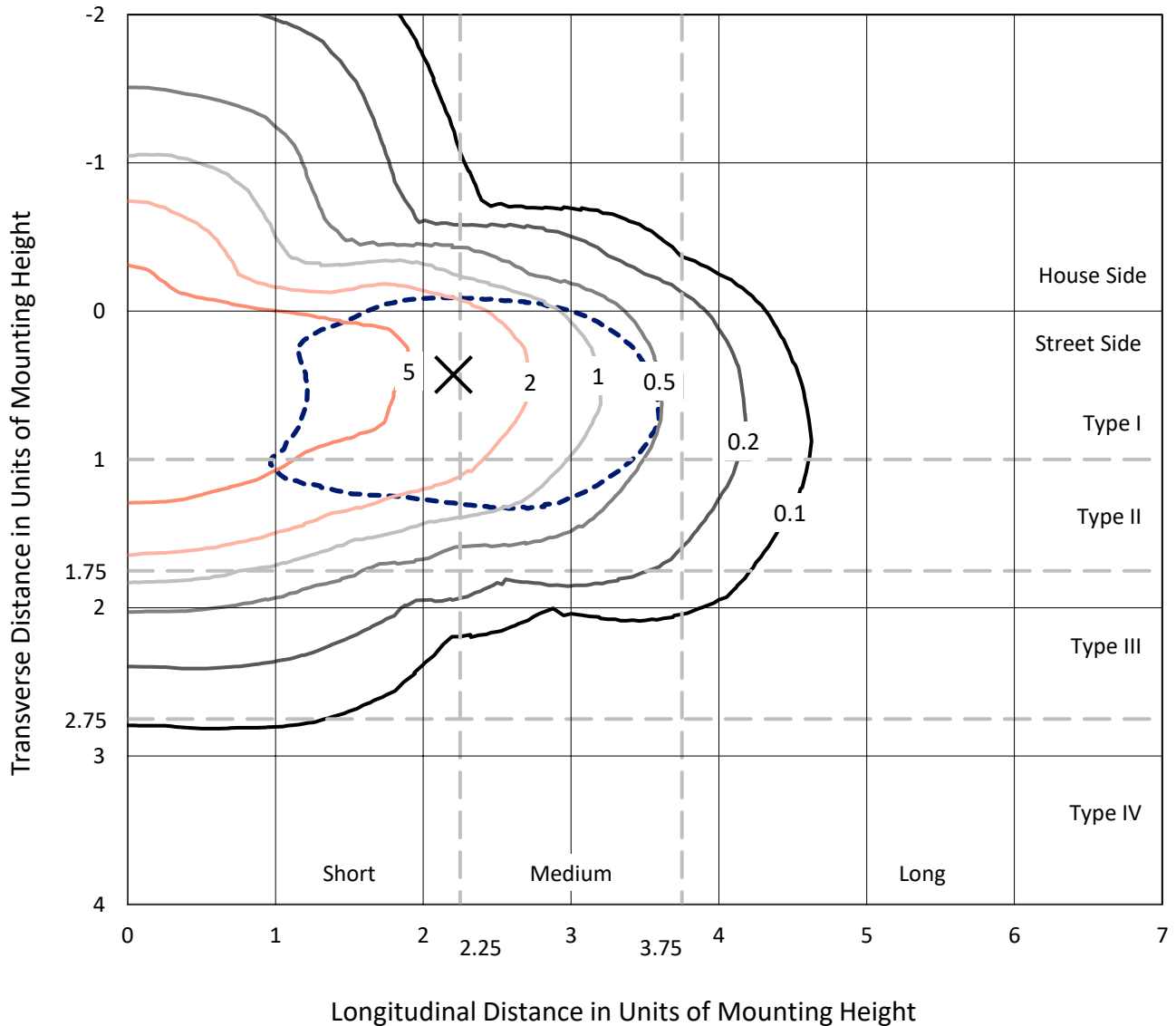
Lumens per Lamp: N/A  
Luminaire Lumens: 51342.6 lumens  
Efficiency: N/A  
Efficacy: 96.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G5

Input Watts (W): 532.7  
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

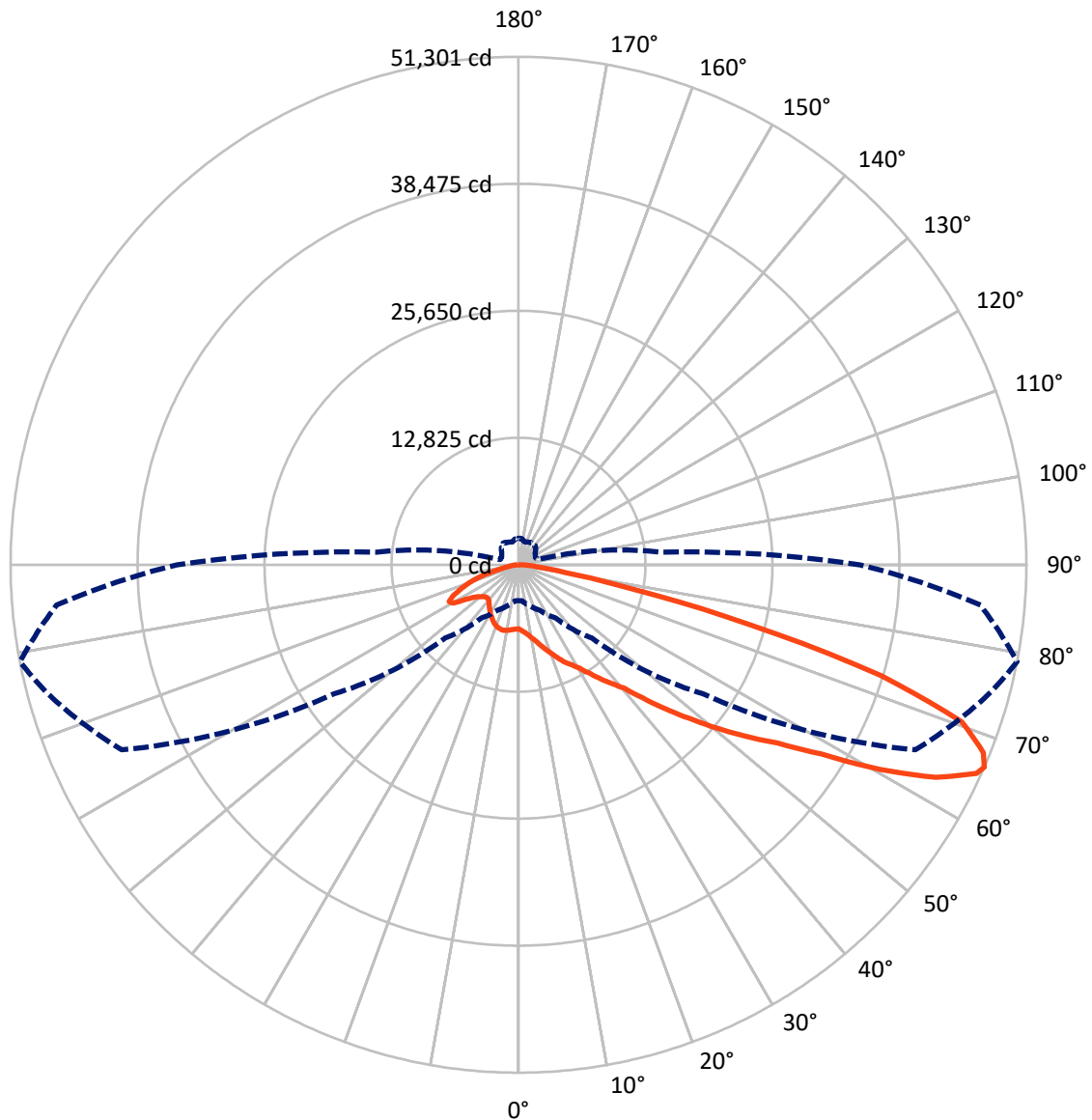
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

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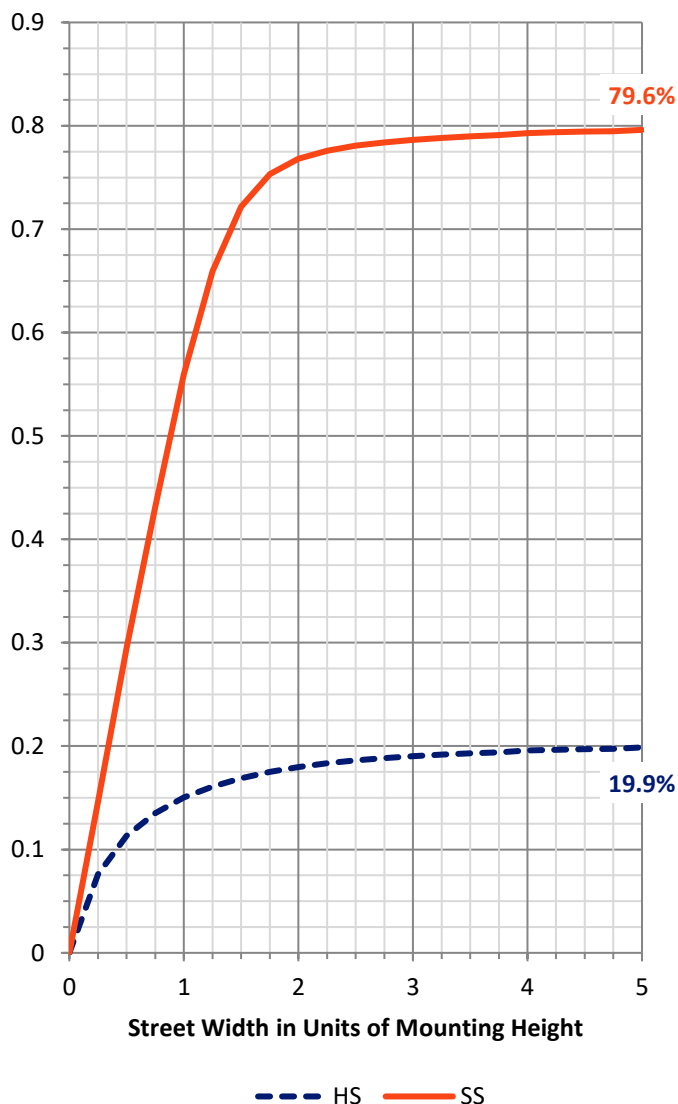
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10367.9	0.0	10367.9
	% Fixture	20.2	0.0	20.2
<b>Street Side</b>	Lumens	40974.7	0.0	40974.7
	% Fixture	79.8	0.0	79.8
<b>Total</b>	Lumens	51342.6	0.0	51342.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	637.5	1.2
10°-20°	1968.5	3.8
20°-30°	3379.0	6.6
30°-40°	5219.9	10.2
40°-50°	8361.0	16.3
50°-60°	12483.6	24.3
60°-70°	12826.9	25.0
70°-80°	5686.0	11.1
80°-90°	780.2	1.5
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°	51342.6	100.0
0°-180°	51342.6	100.0

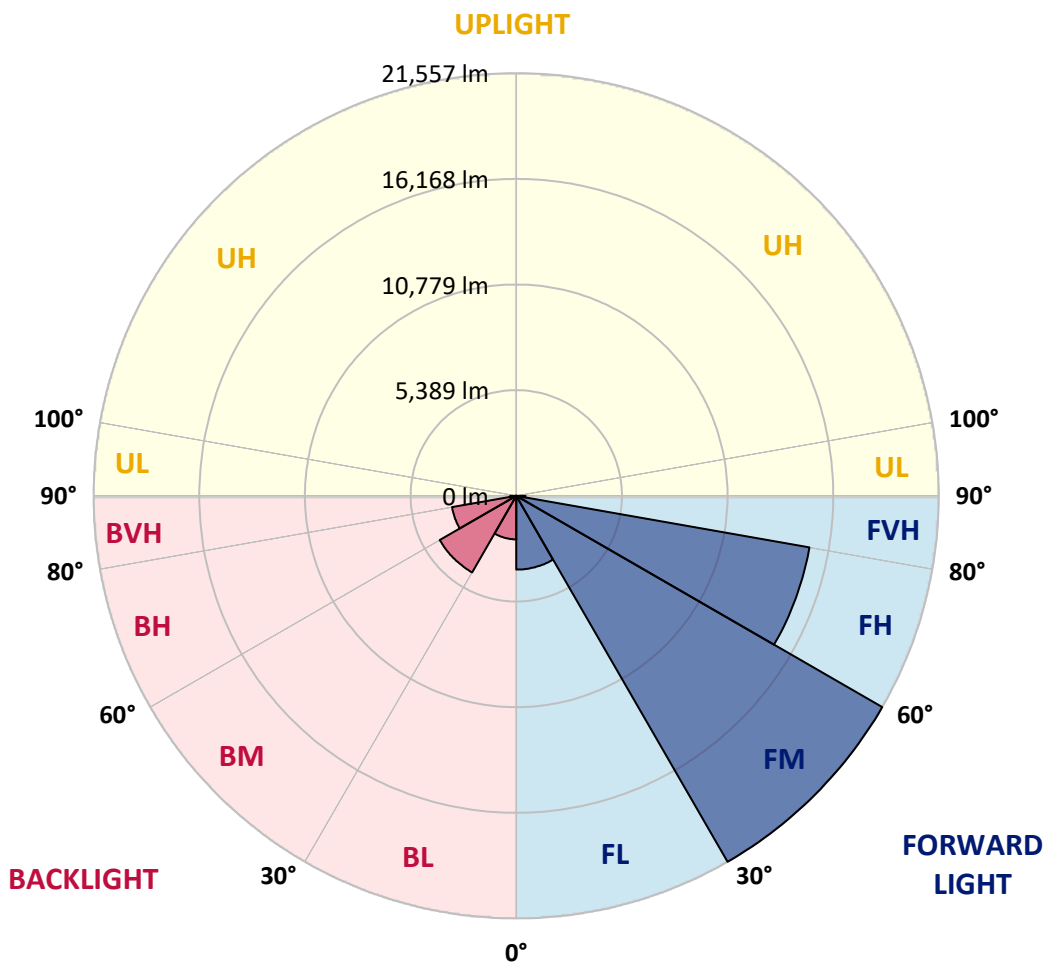


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3763.7	7.3			
FM (30°-60°)	21557.0	42.0			
FH (60°-80°)	15186.0	29.6			G5
FVH (80°-90°)	467.9	0.9			G3/500
BL (0°-30°)	2221.3	4.3	B3/2500		
BM (30°-60°)	4507.5	8.8	B3/5000		
BH (60°-80°)	3326.9	6.5	B4/5000		G4/5000
BVH (80°-90°)	312.2	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	6483.2	6483.2	6483.2	6483.2	6483.2	6483.2	6483.2	6483.2	6483.2	6483.2
2.5°	6895.4	6901.1	6901.1	6878.5	6884.1	6901.1	6838.9	6703.4	6703.4	6680.8
5°	7319.0	7290.7	7251.2	7256.8	7234.2	7234.2	7166.5	7036.6	6923.6	6878.5
7.5°	7375.4	7403.7	7398.0	7465.8	7499.7	7499.7	7533.6	7426.3	7256.8	7149.5
10°	7488.4	7415.0	7409.3	7567.4	7618.3	7736.9	7872.4	7815.9	7674.7	7522.3
12.5°	7556.1	7601.3	7601.3	7680.4	7799.0	7974.1	8211.2	8318.5	8098.3	7940.2
15°	7657.8	7595.7	7776.4	7844.2	8070.1	8194.3	8533.1	8809.9	8663.0	8471.0
17.5°	7703.0	7663.4	7765.1	7889.3	8273.4	8459.7	8872.0	9256.0	9131.8	9007.5
20°	7934.5	7928.9	7974.1	8075.7	8352.4	8719.5	9233.4	9764.3	9809.4	9583.5
22.5°	8499.3	8425.8	8425.8	8386.3	8504.9	8883.3	9577.9	10312.1	10515.4	10249.9
25°	9018.8	9120.5	9058.3	8877.6	8832.4	9030.1	9826.4	10893.7	11164.8	10916.3
27.5°	9685.2	9719.1	9826.4	9583.5	9272.9	9335.1	10097.5	11221.3	11780.4	11447.2
30°	10645.2	10583.1	10560.5	10289.5	9882.9	9798.1	10408.1	11701.3	12587.9	12119.2
32.5°	11294.7	11447.2	11441.5	11068.8	10577.5	10391.1	10792.1	12153.1	13452.0	13017.1
35°	12582.3	12740.4	12616.2	12068.4	11492.3	11119.6	11345.5	12740.4	14440.3	14101.4
37.5°	14225.7	14598.4	14333.0	13322.1	12508.9	12102.3	12113.6	13378.6	15451.1	15174.4
40°	15360.8	15863.4	15496.3	14547.6	13683.5	13299.5	13147.0	14135.3	16659.7	16366.0
42.5°	16767.0	17184.9	16992.9	16055.4	15044.5	14717.0	14412.0	15400.3	18506.3	18370.8
45°	18303.0	18500.7	18438.6	17845.6	16721.8	16608.8	15936.8	17066.3	20680.6	20737.0
47.5°	19731.8	19839.1	19957.7	19528.5	18828.2	18924.3	17693.1	18850.8	22792.7	23165.4
50°	20098.9	20466.0	20742.7	21030.7	21183.2	21832.6	19630.2	21042.0	25221.0	25943.9
52.5°	19726.2	19697.9	20539.4	21443.0	22967.7	24328.8	22267.5	23764.0	27367.0	28795.8
55°	18032.0	17975.5	19330.9	20528.1	23504.2	25718.0	26034.3	27389.6	29959.2	31817.1
57.5°	15067.1	14717.0	16196.6	18161.9	22340.9	25870.5	29818.0	32771.5	33946.2	36063.9
60°	10125.7	9978.9	11396.3	13740.0	18139.3	23707.6	32082.6	39508.8	39565.3	41948.5
62.5°	6234.7	6262.9	7172.1	8928.5	12700.9	18794.4	31105.6	44890.7	44902.0	47290.9
65°	4077.4	4094.3	4828.5	5799.8	7934.5	12746.1	25723.7	45314.3	48612.3	50831.7
66°	3631.2	3636.9	4269.4	5060.0	6573.5	10430.6	22719.3	44213.1	49448.1	51300.5
67.5°	3060.9	3134.3	3642.5	4252.5	5127.8	7494.0	18026.3	41028.0	49018.9	50645.4
70°	2394.5	2434.0	2835.0	3456.2	3845.8	4337.2	10713.0	33443.6	44868.2	47505.5
72.5°	1920.1	1954.0	2258.9	2806.7	3123.0	2857.6	5833.7	24266.6	35442.7	38255.1
75°	1620.8	1626.4	1773.3	2208.1	2569.5	2146.0	3106.0	15575.4	22741.9	24052.0
77.5°	1310.2	1332.8	1434.4	1682.9	2066.9	1688.6	1852.3	8725.1	11418.9	11514.9
80°	1067.3	1078.6	1140.8	1225.5	1575.6	1248.1	1253.7	4258.1	4896.2	4783.3
82.5°	841.5	852.7	926.2	909.2	1157.7	892.3	779.3	2050.0	2253.3	2208.1
85°	474.4	474.4	728.5	728.5	734.2	564.7	474.4	965.7	1191.6	1112.5
87.5°	152.5	158.1	220.2	231.5	367.1	254.1	231.5	361.4	564.7	497.0
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°
6483.2	0°	6483.2	6483.2	6483.2	6483.2	6483.2	6483.2	6483.2	6483.2	6483.2	6483.2
6641.3	2.5°	6618.7	6528.3	6488.8	6358.9	6325.0	6240.3	6200.8	6150.0	6133.0	6059.6
6759.9	5°	6669.5	6641.3	6483.2	6319.4	6195.1	6138.7	6054.0	5941.0	5929.7	5828.1
7030.9	7.5°	6884.1	6788.1	6511.4	6336.3	6087.8	5946.7	5760.3	5703.8	5630.4	5596.5
7364.1	10°	7217.3	6974.5	6562.2	6121.7	5816.8	5647.3	5511.8	5472.3	5477.9	5455.3
7697.3	12.5°	7454.5	7223.0	6477.5	5941.0	5545.7	5381.9	5370.6	5410.2	5472.3	5444.0
8087.0	15°	7793.3	7358.5	6415.4	5641.7	5325.4	5280.3	5274.6	5393.2	5387.6	5387.6
8612.2	17.5°	8109.6	7494.0	6189.5	5381.9	5093.9	5127.8	5167.3	5161.7	5218.1	5240.7
9047.0	20°	8510.5	7652.2	5873.2	5122.1	4918.8	4907.5	4901.9	4907.5	4964.0	4997.9
9538.4	22.5°	8860.7	7686.0	5607.8	4873.7	4709.9	4664.7	4591.3	4664.7	4636.5	4647.8
10204.8	25°	9165.6	7691.7	5229.4	4687.3	4500.9	4399.3	4342.8	4337.2	4286.3	4280.7
10583.1	27.5°	9419.8	7499.7	4896.2	4427.5	4252.5	4156.4	4150.8	4088.7	3958.8	3874.1
11029.3	30°	9617.4	7352.8	4664.7	4201.6	4032.2	4015.3	3964.4	3823.3	3653.8	3546.5
11853.8	32.5°	9967.6	7059.2	4348.5	3970.1	3885.4	3862.8	3744.2	3619.9	3461.8	3360.2
12554.0	35°	10227.3	6788.1	4139.5	3772.4	3732.9	3687.7	3586.1	3450.5	3405.3	3382.8
13305.1	37.5°	10521.0	6483.2	3885.4	3603.0	3642.5	3557.8	3439.2	3377.1	3535.2	3495.7
14479.8	40°	10989.7	6268.6	3636.9	3501.4	3540.9	3444.9	3292.4	3269.8	3467.5	3326.3
15987.6	42.5°	11848.1	6262.9	3484.4	3348.9	3377.1	3303.7	3168.2	3156.9	3235.9	3066.5
17873.8	45°	12915.5	6460.6	3371.5	3235.9	3213.3	3202.0	3156.9	3106.0	3038.3	2818.0
19974.7	47.5°	14191.8	6782.5	3348.9	3066.5	3094.7	3190.7	3134.3	3004.4	2829.3	2688.1
22312.7	50°	15739.1	7448.8	3292.4	2942.3	2993.1	3145.6	3100.4	2919.7	2761.6	2671.2
24453.0	52.5°	17450.3	8290.3	3219.0	2750.3	2863.2	3106.0	3128.6	2959.2	2727.7	2648.6
27350.1	55°	19466.4	9532.7	3134.3	2541.3	2710.7	3066.5	3128.6	2846.3	2682.5	2682.5
31772.0	57.5°	23447.8	11769.1	2959.2	2349.3	2575.2	2993.1	3038.3	2851.9	2688.1	2688.1
38633.5	60°	29287.1	15259.1	2626.0	2202.5	2445.3	2891.4	2970.5	2767.2	2626.0	2659.9
44280.8	62.5°	33855.8	16320.8	2343.6	2061.3	2315.4	2705.1	2880.1	2676.8	2552.6	2676.8
46867.3	65°	34832.8	15247.8	2055.6	1908.8	2134.7	2524.4	2750.3	2547.0	2445.3	2688.1
46833.4	66°	34482.7	14412.0	1954.0	1863.6	2055.6	2434.0	2671.2	2501.8	2388.8	2676.8
45771.7	67.5°	32924.0	13158.3	1841.0	1767.6	1948.3	2304.1	2580.8	2439.7	2298.5	2643.0
41908.9	70°	29535.6	11159.2	1649.0	1598.2	1795.9	2089.5	2371.9	2281.5	2157.3	2434.0
32963.5	72.5°	22747.5	8917.2	1445.7	1451.4	1620.8	1869.3	2162.9	2100.8	1993.5	2134.7
20194.9	75°	13852.9	5698.2	1259.4	1270.7	1411.8	1660.3	1965.3	1920.1	1790.2	1869.3
9335.1	77.5°	6138.7	2823.7	1061.7	1084.3	1197.2	1462.7	1711.1	1637.7	1502.2	1519.1
3795.0	80°	2383.2	1338.4	864.0	892.3	965.7	1169.0	1417.5	1349.7	1231.1	1208.5
1745.0	82.5°	1146.4	745.4	666.4	677.7	705.9	931.8	1219.8	1135.1	977.0	875.3
818.9	85°	576.0	463.1	468.7	429.2	468.7	632.5	824.5	689.0	570.4	508.3
293.7	87.5°	231.5	231.5	231.5	197.7	209.0	299.3	384.0	259.8	237.2	141.2
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°  
6483.2  
6127.4  
5816.8  
5669.9  
5421.5  
5483.6  
5381.9  
5280.3  
4969.7  
4681.6  
4280.7  
3885.4  
3546.5  
3343.2  
3399.7  
3512.6  
3292.4  
3015.7  
2761.6  
2659.9  
2654.3  
2637.3  
2671.2  
2665.5  
2654.3  
2688.1  
2699.4  
2682.5  
2592.1  
2343.6  
2078.2  
1841.0  
1507.8  
1197.2  
875.3  
519.6  
141.2  
0.0

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