

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: P574606

Luminaire Tested: **EPH-VN-06-730-U-T2**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P574606  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 10/19/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-VN-06-730-U-T2  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T2 distribution lens  
Light Source: (96) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

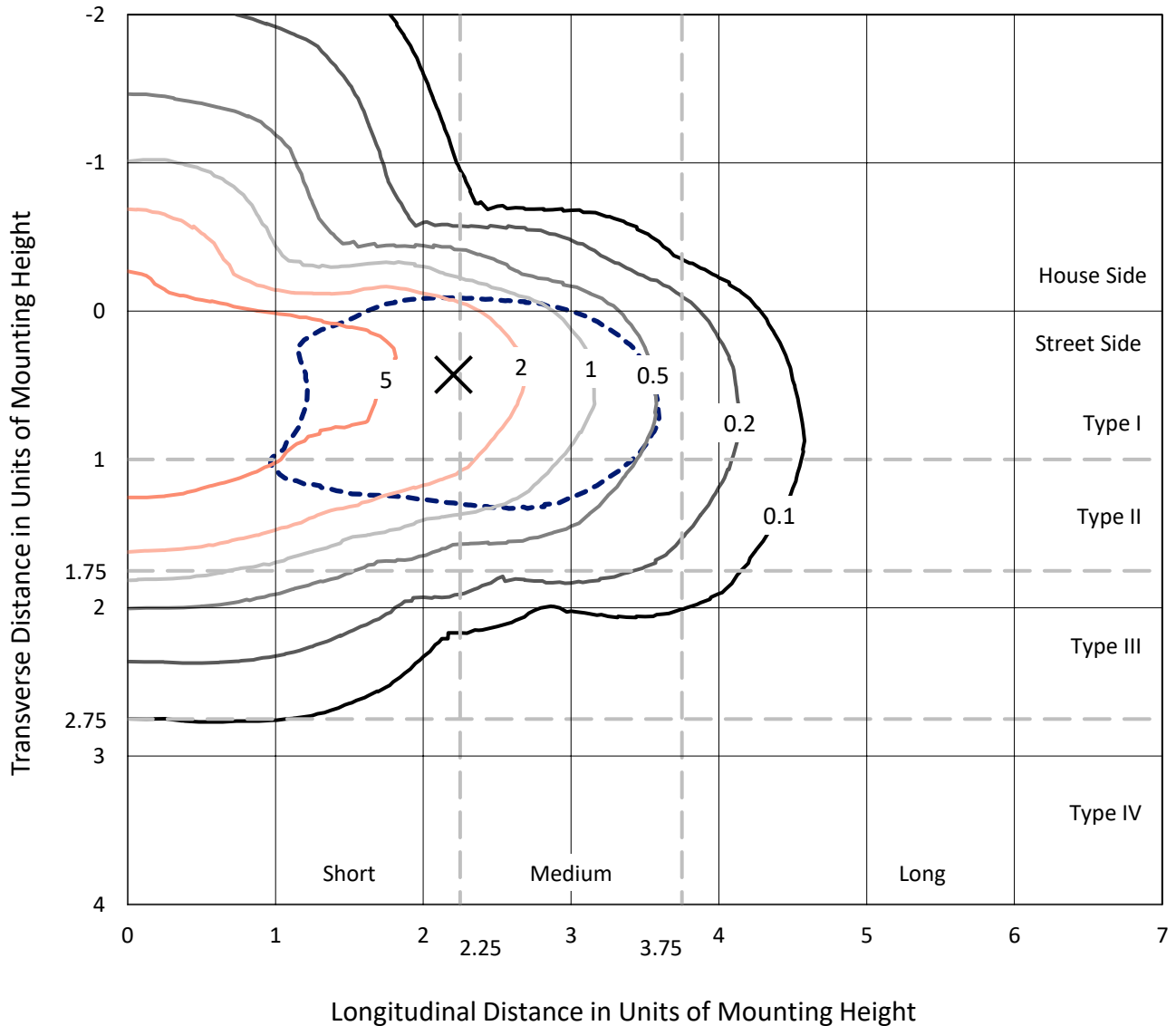
Lumens per Lamp: N/A  
Luminaire Lumens: 48124.4 lumens  
Efficiency: N/A  
Efficacy: 103.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G5

Input Watts (W): 464.2  
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

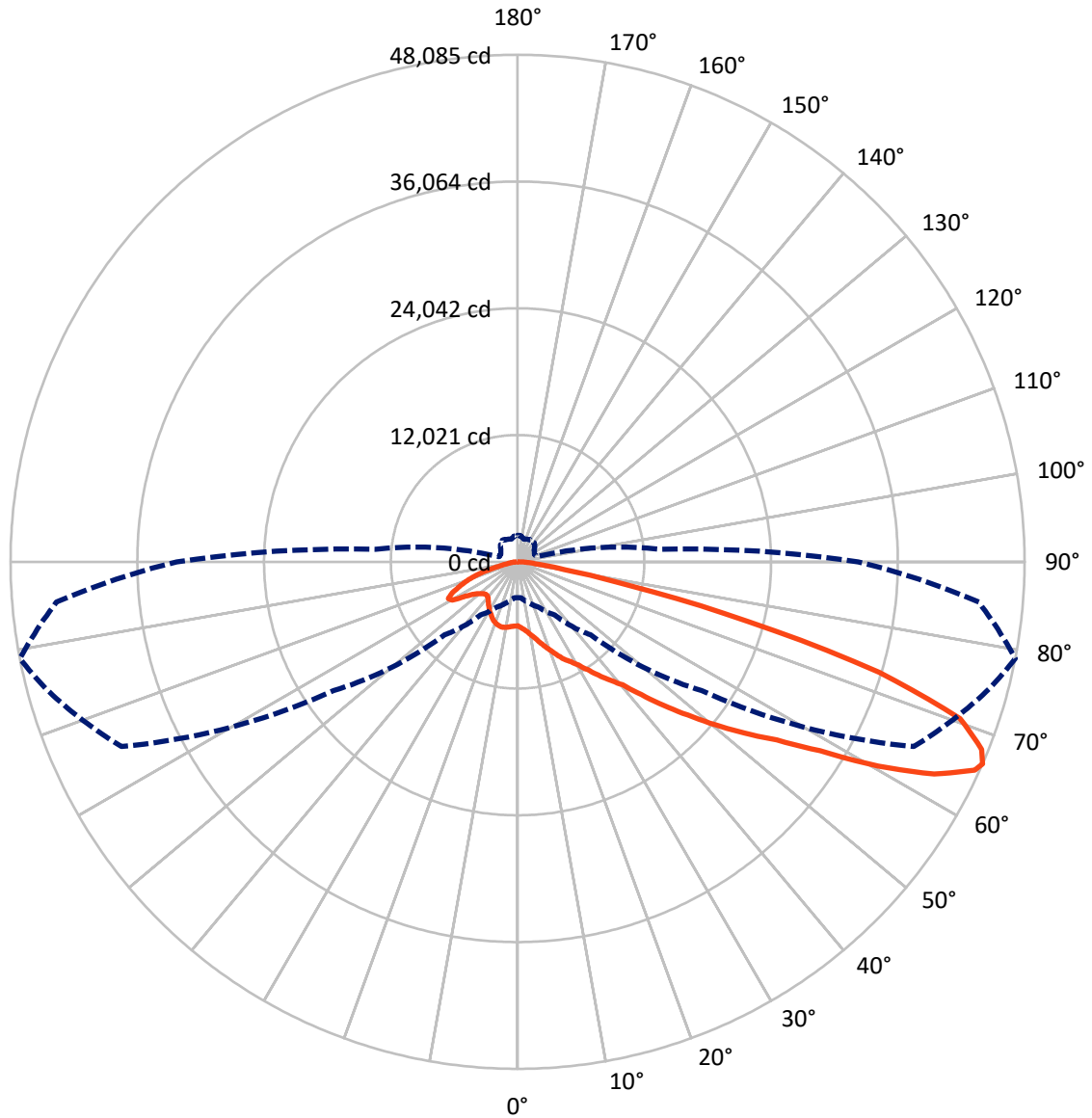
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.5 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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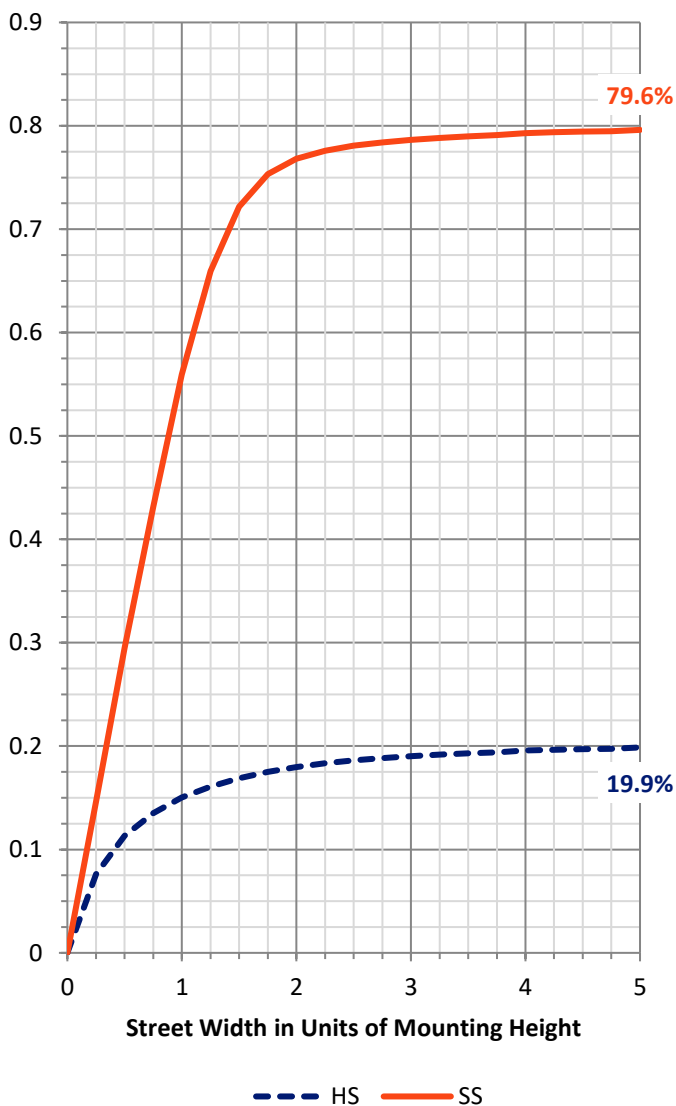
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9718.0	0.0	9718.0
	% Fixture	20.2	0.0	20.2
<b>Street Side</b>	Lumens	38406.3	0.0	38406.3
	% Fixture	79.8	0.0	79.8
<b>Total</b>	Lumens	48124.4	0.0	48124.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	597.5	1.2
10°-20°	1845.1	3.8
20°-30°	3167.2	6.6
30°-40°	4892.7	10.2
40°-50°	7836.9	16.3
50°-60°	11701.1	24.3
60°-70°	12022.9	25.0
70°-80°	5329.6	11.1
80°-90°	731.3	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°	48124.4	100.0
0°-180°	48124.4	100.0

**Coefficient of Utilization**

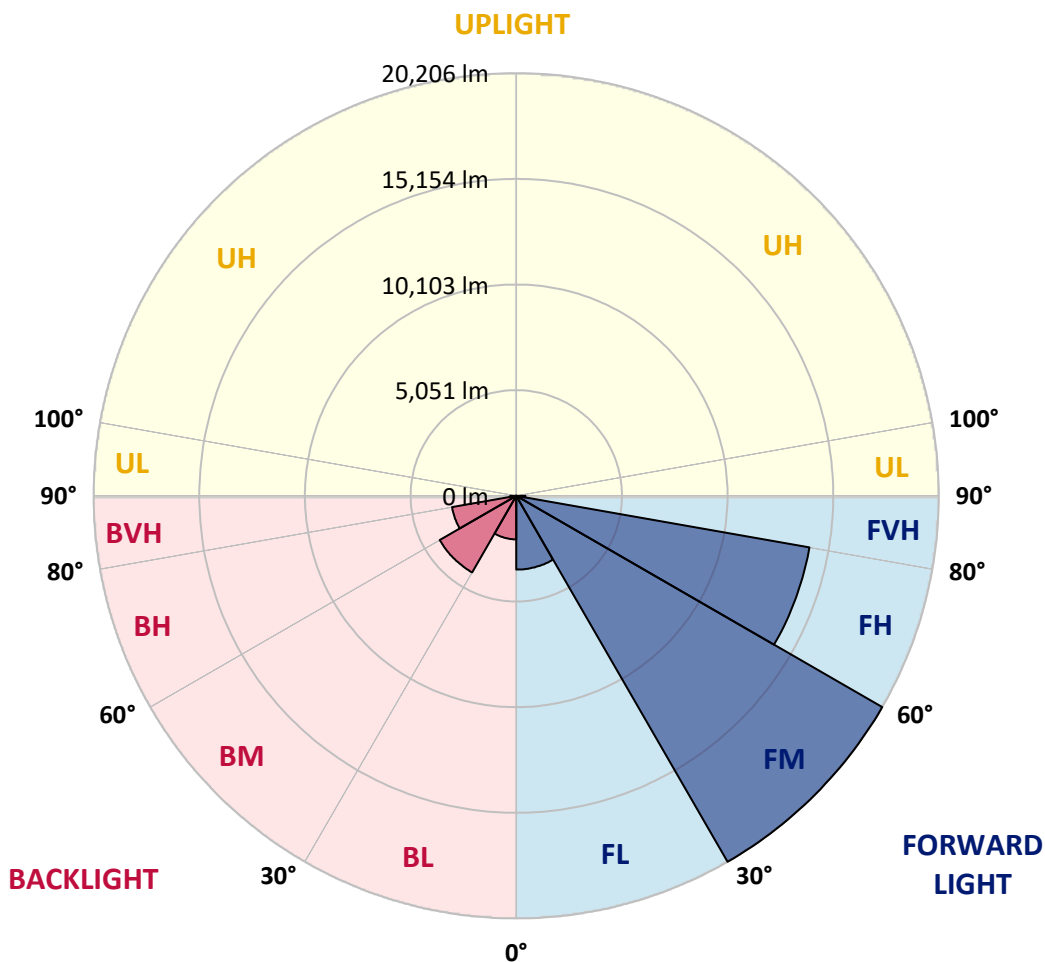


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3527.8	7.3			
FM (30°-60°)	20205.8	42.0			
FH (60°-80°)	14234.1	29.6			G5
FVH (80°-90°)	438.6	0.9			G3/500
BL (0°-30°)	2082.1	4.3	B3/2500		
BM (30°-60°)	4225.0	8.8	B3/5000		
BH (60°-80°)	3118.3	6.5	B4/5000		G4/5000
BVH (80°-90°)	292.7	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°	6076.8	6076.8	6076.8	6076.8	6076.8	6076.8	6076.8	6076.8	6076.8	6076.8
2.5°	6463.2	6468.5	6468.5	6447.3	6452.6	6468.5	6410.3	6283.2	6283.2	6262.0
5°	6860.2	6833.7	6796.7	6802.0	6780.8	6780.8	6717.3	6595.5	6489.7	6447.3
7.5°	6913.1	6939.6	6934.3	6997.8	7029.6	7029.6	7061.3	6960.8	6802.0	6701.4
10°	7019.0	6950.2	6944.9	7093.1	7140.7	7251.9	7378.9	7326.0	7193.7	7050.8
12.5°	7082.5	7124.9	7124.9	7199.0	7310.1	7474.2	7696.5	7797.1	7590.7	7442.5
15°	7177.8	7119.6	7289.0	7352.5	7564.2	7680.7	7998.3	8257.6	8120.0	7940.0
17.5°	7220.1	7183.1	7278.4	7394.8	7754.8	7929.5	8315.9	8675.8	8559.4	8442.9
20°	7437.2	7431.9	7474.2	7569.5	7828.9	8172.9	8654.6	9152.2	9194.6	8982.8
22.5°	7966.5	7897.7	7897.7	7860.6	7971.8	8326.5	8977.5	9665.7	9856.2	9607.4
25°	8453.5	8548.8	8490.5	8321.2	8278.8	8464.1	9210.4	10210.9	10465.0	10232.1
27.5°	9078.1	9109.9	9210.4	8982.8	8691.7	8749.9	9464.5	10517.9	11041.9	10729.6
30°	9978.0	9919.8	9898.6	9644.5	9263.4	9184.0	9755.7	10967.8	11798.9	11359.6
32.5°	10586.7	10729.6	10724.3	10375.0	9914.5	9739.8	10115.6	11391.3	12608.8	12201.2
35°	11793.6	11941.8	11825.4	11311.9	10772.0	10422.6	10634.4	11941.8	13535.1	13217.5
37.5°	13334.0	13683.3	13434.5	12487.0	11724.8	11343.7	11354.3	12540.0	14482.6	14223.3
40°	14397.9	14869.0	14525.0	13635.7	12825.8	12465.9	12322.9	13249.3	15615.4	15340.2
42.5°	15716.0	16107.7	15927.7	15049.0	14101.5	13794.5	13508.7	14435.0	17346.3	17219.3
45°	17155.8	17341.0	17282.8	16727.0	15673.6	15567.8	14937.9	15996.5	19384.3	19437.2
47.5°	18495.0	18595.6	18706.7	18304.4	17648.1	17738.0	16584.1	17669.2	21364.0	21713.4
50°	18839.1	19183.1	19442.5	19712.5	19855.4	20464.1	18399.7	19723.1	23640.1	24317.7
52.5°	18489.7	18463.2	19252.0	20098.9	21528.1	22803.8	20871.7	22274.5	25651.6	26990.8
55°	16901.7	16848.8	18119.2	19241.4	22031.0	24106.0	24402.4	25672.8	28081.3	29822.8
57.5°	14122.7	13794.5	15181.4	17023.4	20940.5	24248.9	27948.9	30717.4	31818.4	33803.4
60°	9491.0	9353.4	10682.0	12878.7	17002.3	22221.5	30071.6	37032.3	37085.3	39319.1
62.5°	5843.9	5870.3	6722.6	8368.8	11904.8	17616.3	29155.8	42076.9	42087.5	44326.6
65°	3821.8	3837.7	4525.8	5436.3	7437.2	11947.1	24111.3	42473.9	45565.2	47645.5
66°	3403.6	3408.9	4001.8	4742.9	6161.5	9776.8	21295.2	41441.7	46348.7	48084.9
67.5°	2869.0	2937.8	3414.2	3985.9	4806.4	7024.3	16896.4	38456.3	45946.4	47470.9
70°	2244.4	2281.4	2657.3	3239.5	3604.8	4065.3	10041.5	31347.3	42055.7	44527.7
72.5°	1799.7	1831.5	2117.3	2630.8	2927.2	2678.4	5468.0	22745.6	33221.1	35857.2
75°	1519.2	1524.5	1662.1	2069.7	2408.5	2011.5	2911.3	14599.1	21316.4	22544.4
77.5°	1228.1	1249.2	1344.5	1577.4	1937.4	1582.7	1736.2	8178.2	10703.2	10793.2
80°	1000.4	1011.0	1069.3	1148.7	1476.8	1169.8	1175.1	3991.2	4589.3	4483.5
82.5°	788.7	799.3	868.1	852.2	1085.1	836.4	730.5	1921.5	2112.1	2069.7
85°	444.6	444.6	682.8	682.8	688.1	529.3	444.6	905.2	1116.9	1042.8
87.5°	142.9	148.2	206.4	217.0	344.1	238.2	217.0	338.8	529.3	465.8
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°
6076.8	0°	6076.8	6076.8	6076.8	6076.8	6076.8	6076.8	6076.8	6076.8	6076.8	6076.8
6225.0	2.5°	6203.8	6119.1	6082.1	5960.3	5928.6	5849.2	5812.1	5764.5	5748.6	5679.8
6336.2	5°	6251.5	6225.0	6076.8	5923.3	5806.8	5753.9	5674.5	5568.6	5558.0	5462.7
6590.2	7.5°	6452.6	6362.6	6103.2	5939.1	5706.2	5573.9	5399.2	5346.3	5277.5	5245.7
6902.5	10°	6764.9	6537.3	6150.9	5738.0	5452.2	5293.4	5166.3	5129.3	5134.6	5113.4
7214.8	12.5°	6987.2	6770.2	6071.5	5568.6	5198.1	5044.6	5034.0	5071.0	5129.3	5102.8
7580.1	15°	7304.8	6897.2	6013.3	5288.1	4991.6	4949.3	4944.0	5055.2	5049.9	5049.9
8072.4	17.5°	7601.3	7024.3	5801.5	5044.6	4774.6	4806.4	4843.4	4838.1	4891.1	4912.2
8480.0	20°	7977.1	7172.5	5505.1	4801.1	4610.5	4599.9	4594.6	4599.9	4652.9	4684.6
8940.5	22.5°	8305.3	7204.3	5256.3	4568.2	4414.7	4372.3	4303.5	4372.3	4345.8	4356.4
9565.1	25°	8591.1	7209.6	4901.7	4393.5	4218.8	4123.5	4070.6	4065.3	4017.7	4012.4
9919.8	27.5°	8829.3	7029.6	4589.3	4150.0	3985.9	3895.9	3890.6	3832.4	3710.6	3631.2
10337.9	30°	9014.6	6892.0	4372.3	3938.3	3779.5	3763.6	3715.9	3583.6	3424.8	3324.2
11110.8	32.5°	9342.8	6616.7	4075.9	3721.2	3641.8	3620.7	3509.5	3393.0	3244.8	3149.5
11767.1	35°	9586.3	6362.6	3880.0	3536.0	3498.9	3456.6	3361.3	3234.2	3191.9	3170.7
12471.2	37.5°	9861.5	6076.8	3641.8	3377.2	3414.2	3334.8	3223.7	3165.4	3313.6	3276.6
13572.2	40°	10300.9	5875.6	3408.9	3281.9	3318.9	3228.9	3086.0	3064.9	3250.1	3117.8
14985.5	42.5°	11105.5	5870.3	3266.0	3139.0	3165.4	3096.6	2969.6	2959.0	3033.1	2874.3
16753.5	45°	12105.9	6055.6	3160.1	3033.1	3011.9	3001.3	2959.0	2911.3	2847.8	2641.4
18722.6	47.5°	13302.2	6357.3	3139.0	2874.3	2900.8	2990.7	2937.8	2816.1	2652.0	2519.6
20914.1	50°	14752.6	6981.9	3086.0	2757.8	2805.5	2948.4	2906.1	2736.7	2588.5	2503.8
22920.2	52.5°	16356.5	7770.7	3017.2	2577.9	2683.7	2911.3	2932.5	2773.7	2556.7	2482.6
25635.7	55°	18246.2	8935.2	2937.8	2382.0	2540.8	2874.3	2932.5	2667.9	2514.3	2514.3
29780.4	57.5°	21978.0	11031.4	2773.7	2202.0	2413.8	2805.5	2847.8	2673.1	2519.6	2519.6
36211.9	60°	27451.4	14302.7	2461.4	2064.4	2292.0	2710.2	2784.3	2593.7	2461.4	2493.2
41505.2	62.5°	31733.7	15297.8	2196.7	1932.1	2170.3	2535.5	2699.6	2509.1	2392.6	2509.1
43929.6	65°	32649.4	14292.1	1926.8	1789.2	2000.9	2366.1	2577.9	2387.3	2292.0	2519.6
43897.8	66°	32321.3	13508.7	1831.5	1746.8	1926.8	2281.4	2503.8	2345.0	2239.1	2509.1
42902.7	67.5°	30860.3	12333.5	1725.6	1656.8	1826.2	2159.7	2419.1	2286.7	2154.4	2477.3
39282.0	70°	27684.3	10459.7	1545.7	1498.0	1683.3	1958.5	2223.2	2138.5	2022.1	2281.4
30897.3	72.5°	21321.7	8358.2	1355.1	1360.4	1519.2	1752.1	2027.4	1969.1	1868.6	2000.9
18929.1	75°	12984.6	5341.0	1180.4	1191.0	1323.3	1556.2	1842.1	1799.7	1678.0	1752.1
8749.9	77.5°	5753.9	2646.7	995.2	1016.3	1122.2	1371.0	1603.9	1535.1	1408.0	1423.9
3557.1	80°	2233.8	1254.5	809.9	836.4	905.2	1095.7	1328.6	1265.1	1154.0	1132.8
1635.6	82.5°	1074.6	698.7	624.6	635.2	661.7	873.4	1143.4	1064.0	915.8	820.5
767.5	85°	539.9	434.1	439.3	402.3	439.3	592.9	772.8	645.8	534.6	476.4
275.3	87.5°	217.0	217.0	217.0	185.3	195.9	280.5	359.9	243.5	222.3	132.3
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°
6076.8
5743.3
5452.2
5314.5
5081.6
5139.9
5044.6
4949.3
4658.2
4388.2
4012.4
3641.8
3324.2
3133.7
3186.6
3292.5
3086.0
2826.7
2588.5
2493.2
2487.9
2472.0
2503.8
2498.5
2487.9
2519.6
2530.2
2514.3
2429.7
2196.7
1948.0
1725.6
1413.3
1122.2
820.5
487.0
132.3
0.0

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