

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: P574644

Luminaire Tested: **EPH-VN-04-730-U-T2R**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P574644  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 10/19/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-VN-04-730-U-T2R  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T2R distribution lens  
Light Source: (64) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

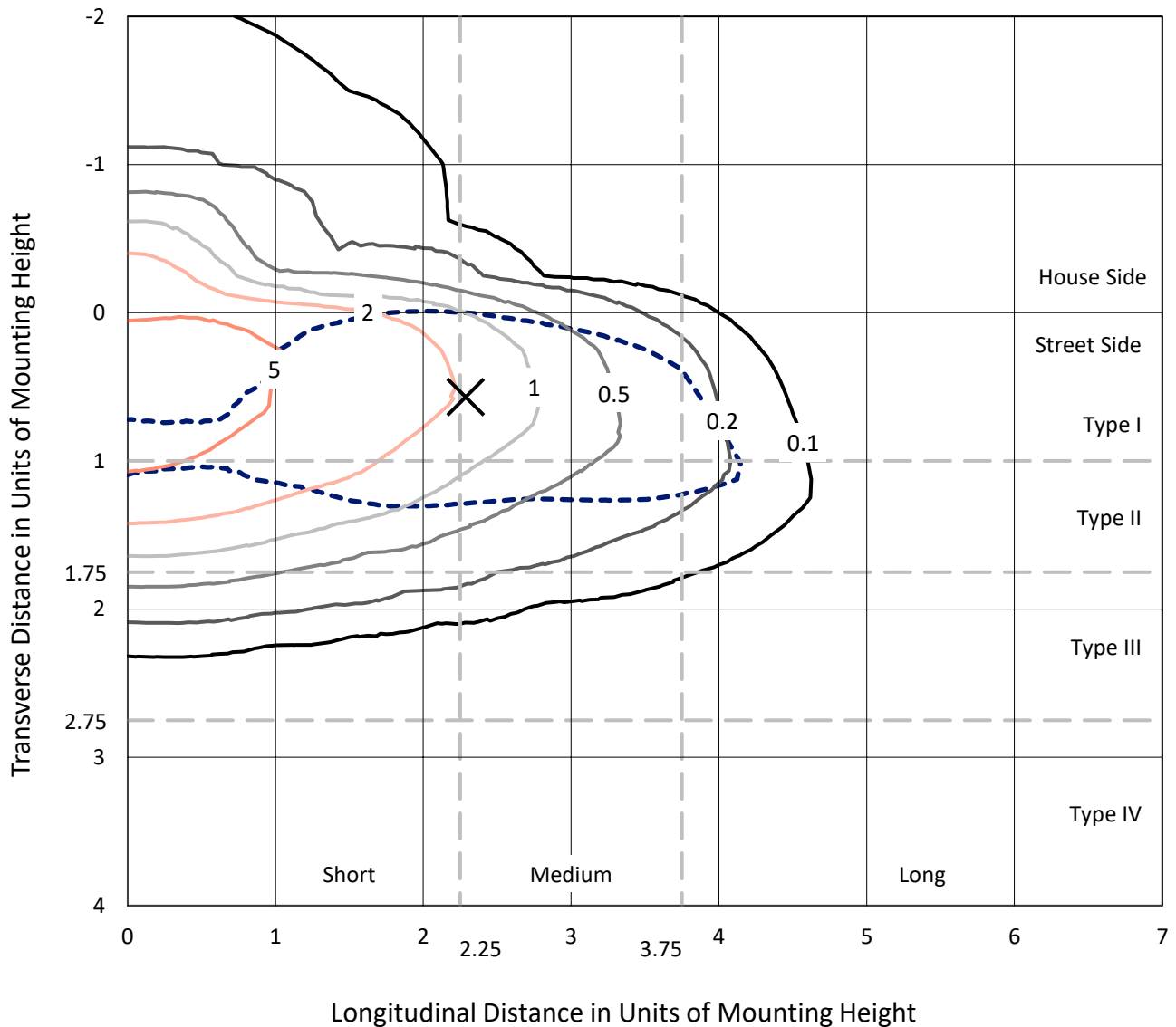
Lumens per Lamp: N/A  
Luminaire Lumens: 32026.9 lumens  
Efficiency: N/A  
Efficacy: 105.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4

Input Watts (W): 303.8  
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

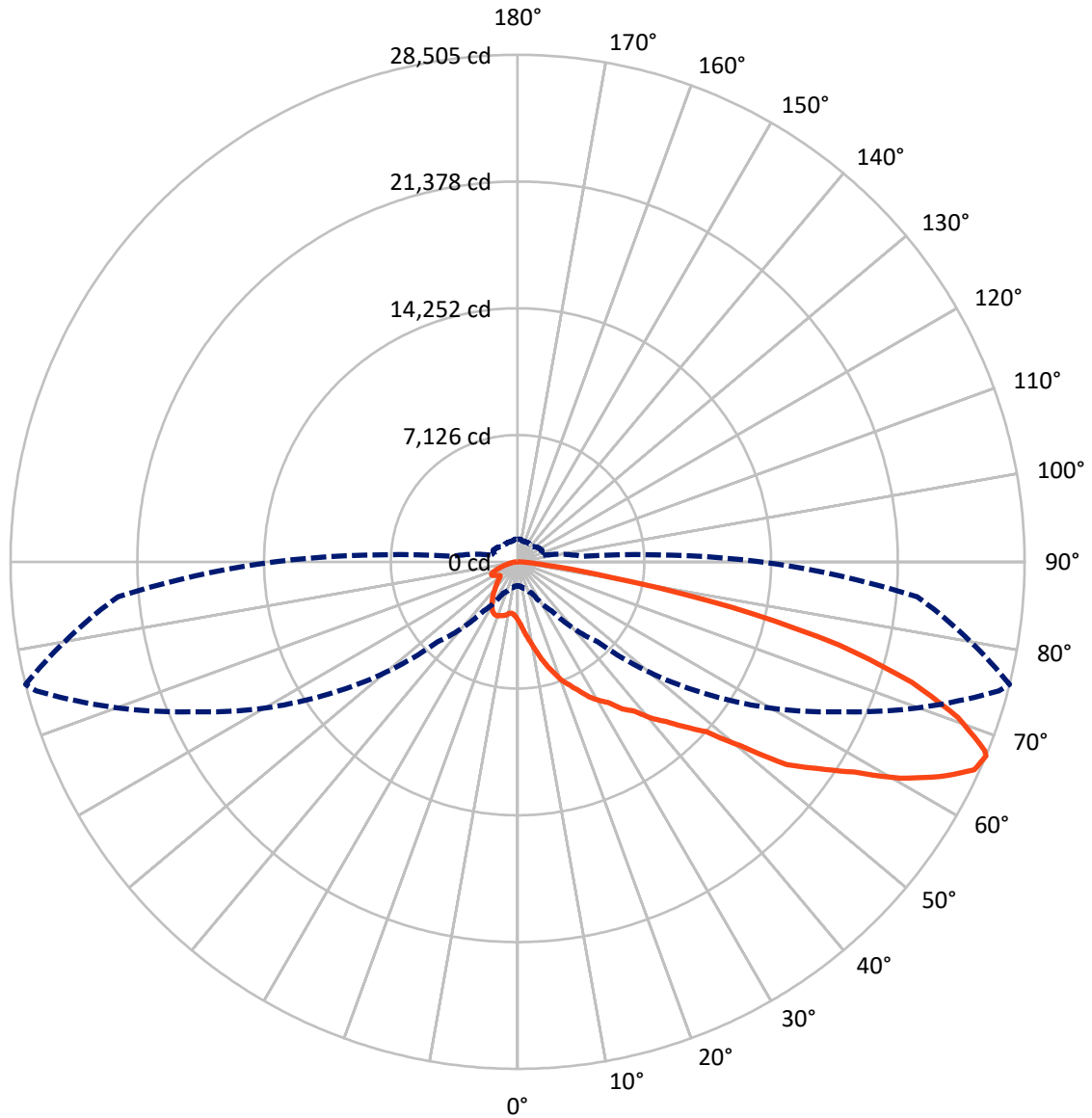
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.5 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 67-Deg Vertical

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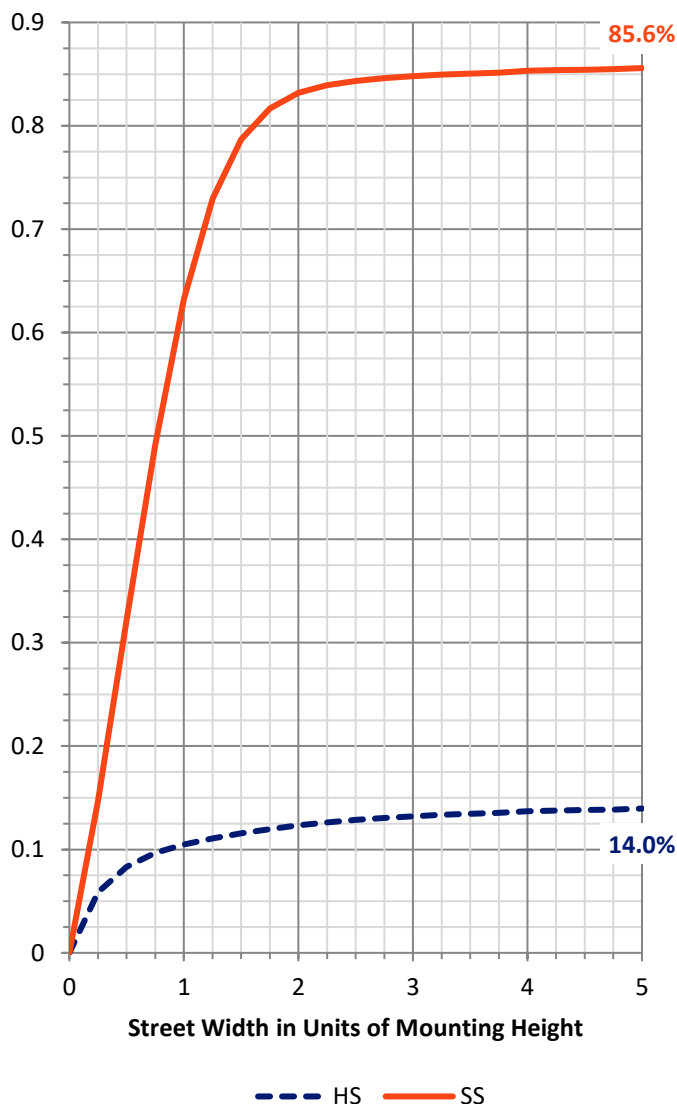
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4556.2	0.0	4556.2
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	27470.7	0.0	27470.7
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	32026.9	0.0	32026.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	379.6	1.2
10°-20°	1423.9	4.4
20°-30°	2647.2	8.3
30°-40°	4196.4	13.1
40°-50°	5804.0	18.1
50°-60°	7139.2	22.3
60°-70°	6643.4	20.7
70°-80°	3333.6	10.4
80°-90°	459.7	1.4
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°	32026.9	100.0
0°-180°	32026.9	100.0

**Coefficient of Utilization**

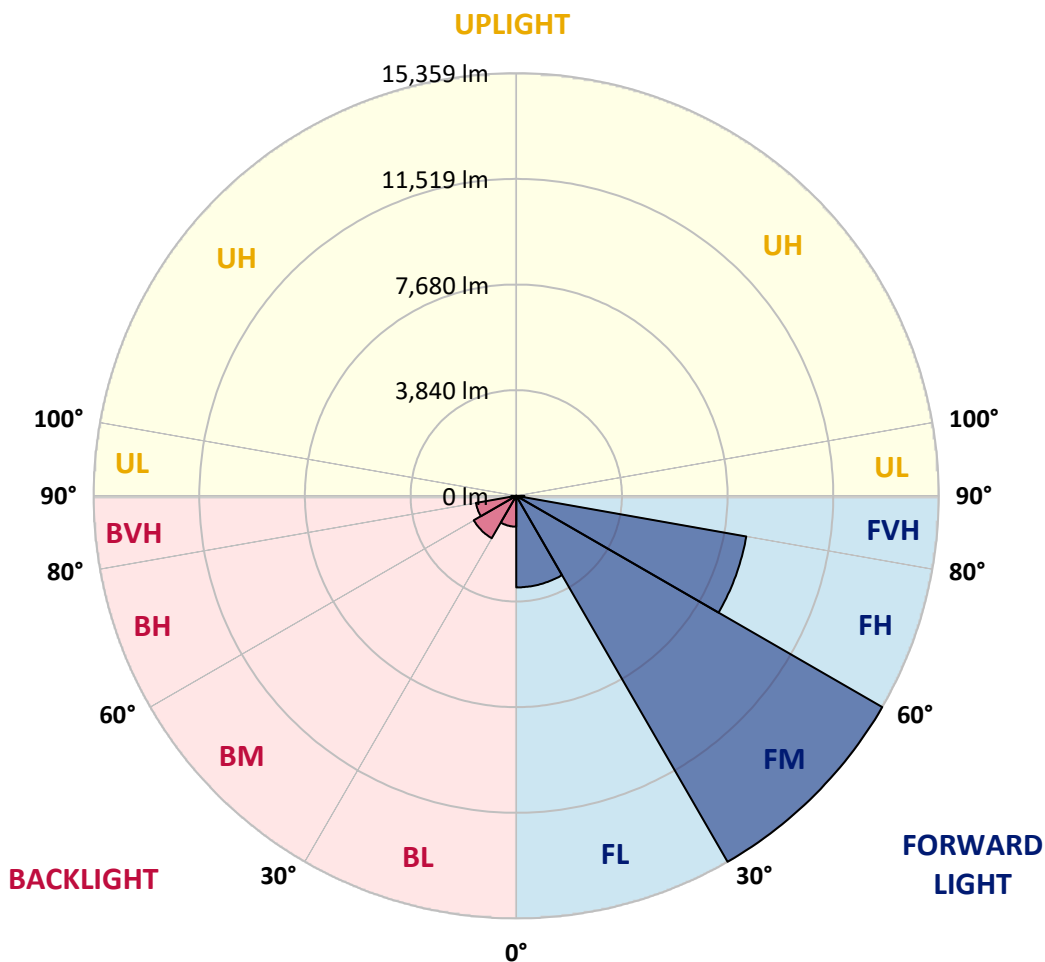


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3328.7	10.4			
FM (30°-60°)	15359.1	48.0			
FH (60°-80°)	8490.1	26.5			G4/12000
FVH (80°-90°)	292.9	0.9			G3/500
BL (0°-30°)	1122.0	3.5	B3/2500		
BM (30°-60°)	1780.5	5.6	B2/2500		
BH (60°-80°)	1486.9	4.6	B3/2500		G3/2500
BVH (80°-90°)	166.8	0.5			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 II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°
0°	3277.5	3277.5	3277.5	3277.5	3277.5	3277.5	3277.5	3277.5	3277.5	3277.5
2.5°	4547.6	4492.8	4438.1	4321.3	4281.1	4171.7	3970.9	3748.3	3565.8	3540.2
5°	5642.5	5562.2	5544.0	5478.3	5270.2	5058.5	4730.1	4372.4	3927.1	3960.0
7.5°	6463.7	6416.2	6317.7	6255.7	6131.6	5850.5	5511.1	5036.6	4470.9	4361.4
10°	7084.1	7018.4	7014.8	6960.1	6894.4	6606.0	6346.9	5708.2	4981.9	4832.3
12.5°	7398.0	7387.1	7580.5	7580.5	7555.0	7434.5	6989.3	6405.3	5467.3	5416.2
15°	7737.4	7646.2	7814.1	7941.8	8007.5	8069.6	7701.0	7084.1	6087.8	5989.2
17.5°	7737.4	7730.1	7898.0	8109.7	8452.8	8533.1	8332.4	7708.3	6602.4	6529.4
20°	7606.1	7711.9	7828.7	8113.4	8485.6	8810.5	8868.9	8347.0	7171.7	7113.3
22.5°	8219.2	8117.0	8237.5	8347.0	8635.3	9128.0	9288.6	8909.0	7770.3	7547.7
25°	9248.4	9179.1	9091.5	8930.9	9051.4	9266.7	9511.2	9325.1	8281.3	8033.1
27.5°	10252.1	10255.8	10066.0	9715.6	9456.5	9500.3	9788.6	9690.1	8711.9	8602.4
30°	11679.2	11591.6	11379.9	10905.4	10398.1	9982.0	9934.6	10029.5	9259.4	9047.7
32.5°	12748.5	12766.8	12467.5	11785.0	11091.6	10752.1	10336.1	10376.2	9606.1	9449.2
35°	13613.5	13591.6	13379.9	12814.2	11993.0	11584.3	11022.2	10792.3	10412.7	10164.5
37.5°	14547.9	14369.0	14025.9	13387.2	12861.7	12296.0	11748.5	11230.2	10949.2	10649.9
40°	14923.8	14923.8	14463.9	14171.9	13547.8	13120.8	12766.8	11806.9	11602.5	11544.1
42.5°	14657.4	14821.6	14631.8	14299.7	14044.2	13504.0	13409.1	12405.5	12409.1	12292.3
45°	14631.8	14405.5	14248.6	14332.5	14212.1	14182.9	14423.8	13234.0	13255.9	13241.3
47.5°	13898.2	13796.0	14029.6	14168.3	14266.8	14719.4	15412.9	14223.0	14380.0	14270.5
50°	13168.3	13150.0	13296.0	13799.7	14226.7	14971.2	16354.5	15748.6	16263.2	16255.9
52.5°	11168.2	11361.6	11934.6	13000.4	14055.1	15314.3	17066.2	17697.6	18679.4	18945.8
55°	9255.7	9153.5	10000.3	11547.8	13307.0	15449.3	17861.8	18869.2	20314.5	20507.9
57.5°	7200.9	7390.7	8058.6	9544.1	11759.5	14781.4	18445.8	20026.1	22161.2	22310.9
60°	5372.4	5398.0	6131.6	7328.7	9701.0	13274.1	18635.6	21212.3	24278.1	24705.1
62.5°	3379.7	3532.9	4091.4	5270.2	7303.1	11164.6	17785.2	21931.3	26497.1	26610.3
65°	1821.2	1919.8	2339.5	3080.4	5102.3	8445.5	15529.6	21500.6	27540.9	28212.5
67°	1346.8	1365.0	1558.4	1967.2	3412.5	6357.8	12949.3	19942.2	28015.4	28504.5
67.5°	1262.8	1288.4	1441.6	1766.5	3025.6	5854.2	12274.1	19387.4	27803.7	28329.3
70°	1080.3	1087.6	1124.1	1215.4	1697.1	3522.0	8357.9	15887.3	25770.8	26274.5
72.5°	959.9	967.2	981.8	1000.0	1149.7	2036.6	5084.1	12226.6	22398.5	23201.4
75°	843.1	868.6	875.9	861.3	978.1	1324.9	2704.5	8985.7	18270.6	18661.1
77.5°	715.3	726.3	740.9	755.5	872.3	989.1	1299.3	6065.9	12540.5	12303.3
80°	602.2	605.9	616.8	627.8	755.5	755.5	737.2	3277.5	5478.3	5237.4
82.5°	430.7	456.2	481.8	511.0	627.8	507.3	481.8	1459.9	1733.6	1649.7
85°	167.9	204.4	317.5	350.4	397.8	273.7	321.2	631.4	722.6	715.3
87.5°	29.2	32.8	87.6	135.0	146.0	94.9	153.3	226.3	270.1	292.0
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°
3277.5	0°	3277.5	3277.5	3277.5	3277.5	3277.5	3277.5	3277.5	3277.5	3277.5	3277.5
3412.5	2.5°	3306.7	3193.5	3058.5	2923.4	2835.8	2697.2	2686.2	2602.3	2591.3	2562.1
3522.0	5°	3332.2	3197.2	2923.4	2708.1	2609.6	2529.3	2547.5	2511.0	2500.1	2481.8
3766.5	7.5°	3532.9	3266.5	2857.7	2671.6	2598.6	2562.1	2562.1	2518.3	2485.5	2507.4
4065.8	10°	3664.3	3299.4	2908.8	2722.7	2664.3	2584.0	2613.2	2558.5	2576.7	2532.9
4412.5	12.5°	3876.0	3485.5	3014.7	2799.4	2704.5	2631.5	2660.7	2598.6	2584.0	2587.7
4784.8	15°	4160.7	3609.6	3062.1	2843.1	2777.5	2686.2	2664.3	2609.6	2554.8	2536.6
5193.6	17.5°	4427.1	3762.9	3095.0	2868.7	2762.9	2660.7	2635.1	2565.8	2547.5	2492.8
5657.1	20°	4744.7	3945.4	3138.8	2890.6	2708.1	2605.9	2540.2	2470.9	2408.8	2376.0
6076.8	22.5°	4956.3	4040.3	3160.7	2846.8	2627.8	2532.9	2394.2	2346.8	2259.2	2222.7
6481.9	25°	5303.1	4157.1	3105.9	2726.4	2485.5	2332.2	2208.1	2142.4	2080.4	2032.9
6759.3	27.5°	5390.7	4244.6	2978.2	2522.0	2259.2	2098.6	1992.8	1912.5	1872.3	1799.3
7157.1	30°	5646.1	4157.1	2788.4	2273.8	2043.9	1879.6	1773.8	1715.4	1620.5	1602.2
7474.7	32.5°	5810.4	4182.6	2547.5	2032.9	1795.7	1649.7	1580.3	1521.9	1496.4	1408.8
7960.1	35°	6084.1	4095.0	2303.0	1810.3	1591.3	1478.1	1419.7	1401.5	1317.6	1277.4
8376.2	37.5°	6259.3	4043.9	2058.5	1558.4	1368.7	1321.2	1339.5	1262.8	1160.6	1084.0
8909.0	40°	6565.9	4025.7	1781.1	1350.4	1215.4	1204.4	1262.8	1116.8	930.7	865.0
9547.7	42.5°	7007.5	3901.6	1565.7	1164.3	1094.9	1142.4	1153.3	930.7	824.8	770.1
10405.4	45°	7430.9	3927.1	1354.1	963.5	952.6	1021.9	996.4	788.3	726.3	686.2
11394.5	47.5°	8244.8	4054.9	1146.0	802.9	857.7	923.4	773.7	704.4	646.0	616.8
13186.5	50°	9503.9	4179.0	963.5	733.6	810.2	835.8	664.3	638.7	635.1	576.7
14672.0	52.5°	10259.4	4131.5	930.7	821.2	868.6	835.8	722.6	704.4	675.2	649.7
16197.5	55°	11460.2	4270.2	1000.0	959.9	985.4	802.9	810.2	802.9	781.0	715.3
17967.7	57.5°	12416.4	4361.4	1091.3	1073.0	1058.4	835.8	846.7	850.4	835.8	806.6
19821.7	60°	13730.3	4543.9	1186.2	1189.8	1193.5	908.8	927.0	948.9	945.3	934.3
21690.4	62.5°	14536.9	4460.0	1292.0	1350.4	1332.2	1058.4	1054.8	1069.4	1069.4	1087.6
22522.5	65°	14416.5	4149.8	1346.8	1492.7	1397.9	1167.9	1167.9	1175.2	1178.9	1215.4
22555.4	67°	13693.8	3595.0	1317.6	1514.6	1397.9	1211.7	1211.7	1219.0	1193.5	1288.4
22299.9	67.5°	13358.0	3430.8	1292.0	1496.4	1386.9	1208.1	1208.1	1211.7	1189.8	1281.1
20507.9	70°	11617.1	2547.5	1113.2	1324.9	1284.7	1175.2	1175.2	1153.3	1135.1	1255.5
17693.9	72.5°	9916.3	1850.4	894.2	1127.8	1160.6	1131.4	1138.7	1084.0	1032.9	1116.8
13759.5	75°	7595.1	1361.4	697.1	868.6	981.8	1058.4	1105.9	967.2	901.5	923.4
7441.8	77.5°	4237.3	886.9	551.1	642.4	748.2	985.4	1062.1	872.3	737.2	711.7
2514.7	80°	1438.0	518.3	405.1	478.1	514.6	872.3	992.7	708.0	580.3	554.8
850.4	82.5°	543.8	317.5	277.4	328.5	328.5	689.8	810.2	543.8	438.0	565.7
317.5	85°	248.2	189.8	182.5	189.8	189.8	423.4	573.0	354.0	394.2	339.4
116.8	87.5°	98.5	91.2	83.9	80.3	65.7	73.0	197.1	94.9	178.8	47.4
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°  
3277.5  
2576.7  
2452.6  
2529.3  
2532.9  
2576.7  
2558.5  
2449.0  
2390.6  
2193.5  
2018.3  
1784.7  
1562.1  
1386.9  
1240.9  
1058.4  
828.5  
744.5  
708.0  
620.5  
573.0  
620.5  
733.6  
832.1  
941.6  
1098.6  
1219.0  
*1259.2*  
1251.9  
1230.0  
1094.9  
883.2  
711.7  
536.5  
576.7  
299.3  
43.8  
0.0

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