

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: P574661

Luminaire Tested: **EPH-VN-03-750-U-T2R**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P574661  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 10/19/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-VN-03-750-U-T2R  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T2R distribution lens  
Light Source: (48) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

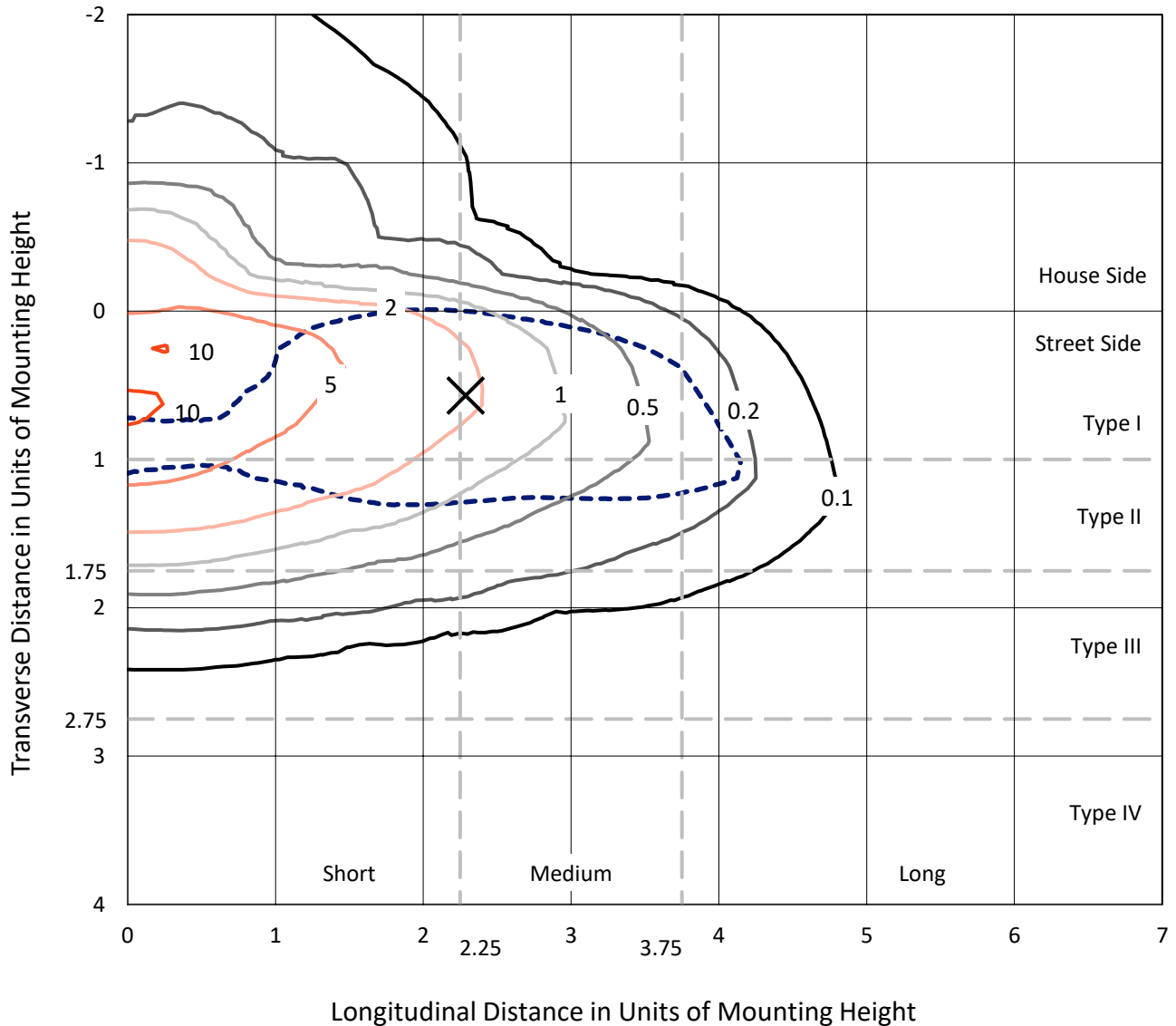
Lumens per Lamp: N/A  
Luminaire Lumens: 27746.1 lumens  
Efficiency: N/A  
Efficacy: 119.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3

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

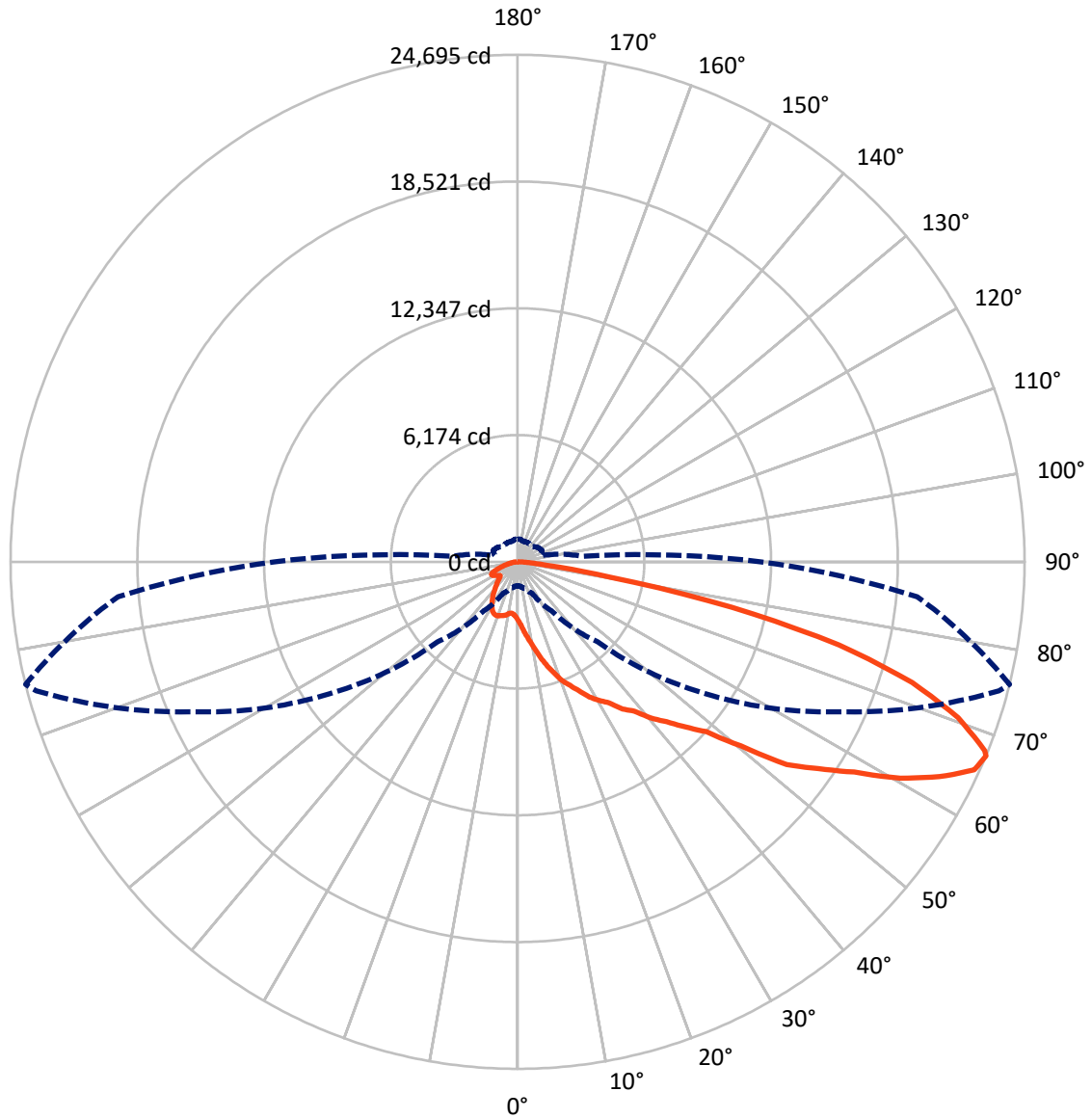
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 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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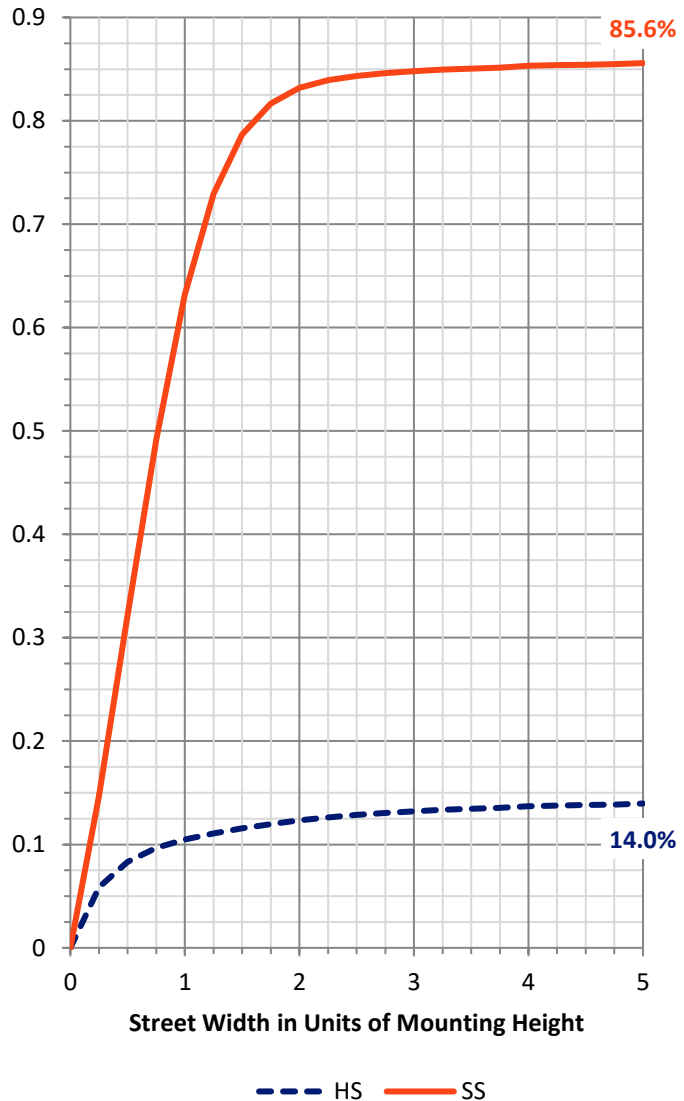
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3947.2	0.0	3947.2
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	23798.9	0.0	23798.9
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	27746.1	0.0	27746.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	328.9	1.2
10°-20°	1233.6	4.4
20°-30°	2293.3	8.3
30°-40°	3635.5	13.1
40°-50°	5028.2	18.1
50°-60°	6185.0	22.3
60°-70°	5755.4	20.7
70°-80°	2888.0	10.4
80°-90°	398.2	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°	27746.1	100.0
0°-180°	27746.1	100.0

**Coefficient of Utilization**

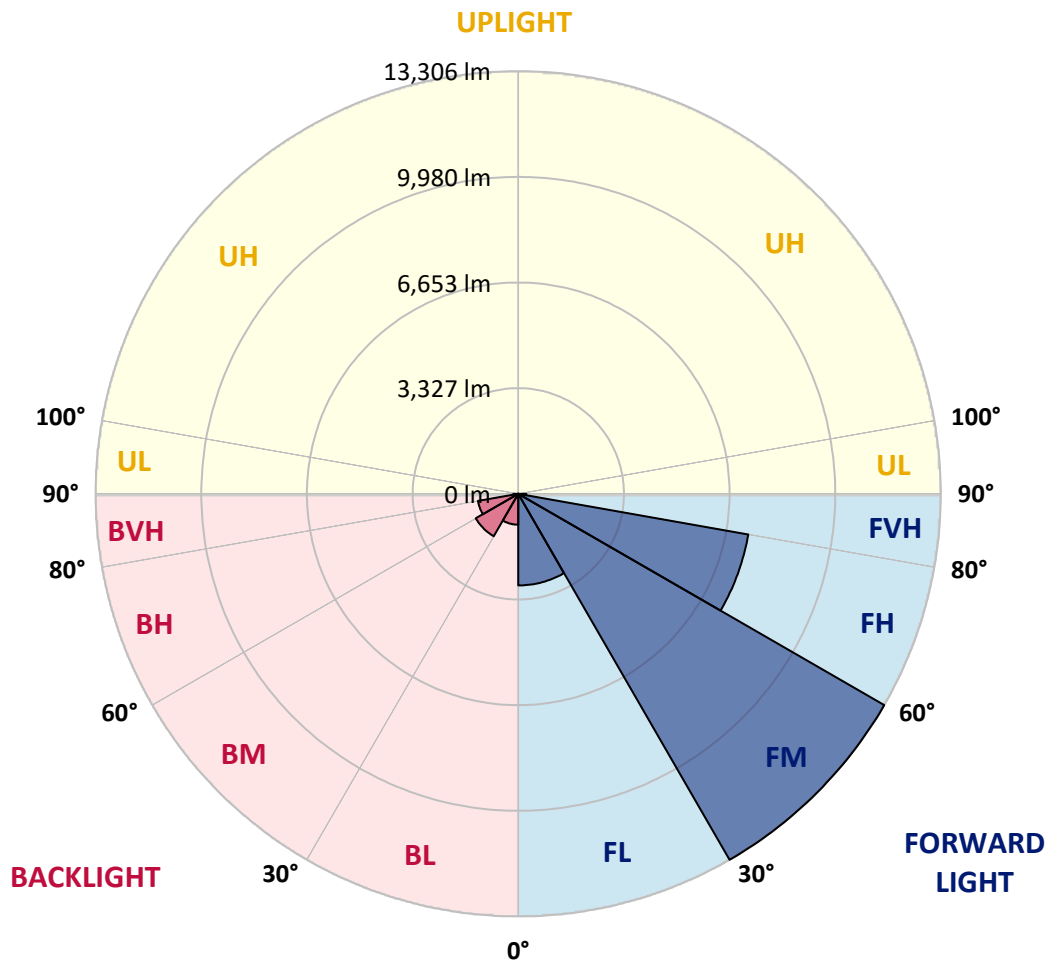


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2883.8	10.4			
FM (30°-60°)	13306.1	48.0			
FH (60°-80°)	7355.3	26.5			G3/7500
FVH (80°-90°)	253.7	0.9			G3/500
BL (0°-30°)	972.0	3.5	B2/1000		
BM (30°-60°)	1542.5	5.6	B2/2500		
BH (60°-80°)	1288.2	4.6	B3/2500		G3/2500
BVH (80°-90°)	144.5	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-G3**  
 Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°
0°	2839.4	2839.4	2839.4	2839.4	2839.4	2839.4	2839.4	2839.4	2839.4	2839.4
2.5°	3939.7	3892.3	3844.9	3743.7	3708.9	3614.1	3440.2	3247.3	3089.2	3067.0
5°	4888.3	4818.7	4802.9	4746.0	4565.8	4382.4	4097.8	3788.0	3402.2	3430.7
7.5°	5599.7	5558.6	5473.3	5419.5	5312.0	5068.5	4774.5	4363.4	3873.3	3778.5
10°	6137.3	6080.3	6077.2	6029.8	5972.8	5723.0	5498.6	4945.2	4316.0	4186.4
12.5°	6409.2	6399.7	6567.3	6567.3	6545.1	6440.8	6055.0	5549.1	4736.5	4692.3
15°	6703.2	6624.2	6769.6	6880.3	6937.2	6991.0	6671.6	6137.3	5274.1	5188.7
17.5°	6703.2	6696.9	6842.4	7025.8	7323.0	7392.5	7218.6	6677.9	5719.9	5656.6
20°	6589.4	6681.1	6782.3	7028.9	7351.4	7632.8	7683.4	7231.3	6213.1	6162.6
22.5°	7120.6	7032.1	7136.4	7231.3	7481.1	7907.9	8047.0	7718.2	6731.7	6538.8
25°	8012.3	7952.2	7876.3	7737.2	7841.5	8028.1	8239.9	8078.7	7174.4	6959.4
27.5°	8881.8	8884.9	8720.5	8417.0	8192.5	8230.4	8480.2	8394.9	7547.5	7452.6
30°	10118.1	10042.2	9858.8	9447.8	9008.3	8647.8	8606.7	8688.9	8021.7	7838.4
32.5°	11044.5	11060.3	10801.1	10209.8	9609.0	9315.0	8954.5	8989.3	8322.1	8186.2
35°	11793.9	11774.9	11591.5	11101.4	10390.0	10035.9	9548.9	9349.7	9020.9	8805.9
37.5°	12603.3	12448.4	12151.2	11597.9	11142.5	10652.5	10178.2	9729.2	9485.7	9226.4
40°	12929.0	12929.0	12530.6	12277.7	11737.0	11367.0	11060.3	10228.8	10051.7	10001.1
42.5°	12698.2	12840.5	12676.1	12388.3	12167.0	11699.0	11616.8	10747.3	10750.5	10649.3
45°	12676.1	12480.0	12344.1	12416.8	12312.5	12287.2	12495.8	11465.1	11484.0	11471.4
47.5°	12040.5	11952.0	12154.4	12274.5	12359.9	12752.0	13352.7	12321.9	12457.9	12363.0
50°	11408.1	11392.3	11518.8	11955.2	12325.1	12970.1	14168.5	13643.6	14089.4	14083.1
52.5°	9675.4	9843.0	10339.4	11262.7	12176.5	13267.3	14785.1	15332.1	16182.6	16413.4
55°	8018.6	7930.1	8663.6	10004.3	11528.3	13384.3	15474.4	16347.0	17599.2	17766.7
57.5°	6238.4	6402.9	6981.5	8268.4	10187.7	12805.7	15980.3	17349.4	19199.1	19328.7
60°	4654.3	4676.5	5312.0	6349.1	8404.3	11499.8	16144.7	18377.0	21033.0	21402.9
62.5°	2927.9	3060.7	3544.5	4565.8	6327.0	9672.3	15408.0	18999.9	22955.4	23053.4
65°	1577.8	1663.2	2026.8	2668.6	4420.3	7316.6	13453.9	18626.8	23859.7	24441.5
67°	1166.7	1182.6	1350.1	1704.3	2956.4	5508.0	11218.4	17276.6	24270.8	24694.5
67.5°	1094.0	1116.2	1249.0	1530.4	2621.2	5071.7	10633.5	16796.0	24087.4	24542.7
70°	935.9	942.2	973.9	1052.9	1470.3	3051.2	7240.8	13763.8	22326.2	22762.5
72.5°	831.6	837.9	850.6	866.4	996.0	1764.3	4404.5	10592.4	19404.6	20100.2
75°	730.4	752.5	758.9	746.2	847.4	1147.8	2343.0	7784.6	15828.5	16166.8
77.5°	619.7	629.2	641.9	654.5	755.7	856.9	1125.6	5255.1	10864.3	10658.8
80°	521.7	524.9	534.4	543.8	654.5	654.5	638.7	2839.4	4746.0	4537.3
82.5°	373.1	395.2	417.4	442.7	543.8	439.5	417.4	1264.8	1501.9	1429.2
85°	145.4	177.1	275.1	303.5	344.6	237.1	278.2	547.0	626.1	619.7
87.5°	25.3	28.5	75.9	117.0	126.5	82.2	132.8	196.0	234.0	253.0
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°
2839.4	0°	2839.4	2839.4	2839.4	2839.4	2839.4	2839.4	2839.4	2839.4	2839.4	2839.4
2956.4	2.5°	2864.7	2766.7	2649.7	2532.7	2456.8	2336.6	2327.2	2254.4	2245.0	2219.7
3051.2	5°	2886.8	2769.8	2532.7	2346.1	2260.8	2191.2	2207.0	2175.4	2165.9	2150.1
3263.1	7.5°	3060.7	2829.9	2475.8	2314.5	2251.3	2219.7	2219.7	2181.7	2153.3	2172.2
3522.4	10°	3174.6	2858.4	2520.0	2358.8	2308.2	2238.6	2263.9	2216.5	2232.3	2194.4
3822.7	12.5°	3357.9	3019.6	2611.7	2425.2	2343.0	2279.7	2305.0	2251.3	2238.6	2241.8
4145.3	15°	3604.6	3127.1	2652.8	2463.1	2406.2	2327.2	2308.2	2260.8	2213.3	2197.5
4499.4	17.5°	3835.4	3259.9	2681.3	2485.3	2393.6	2305.0	2282.9	2222.8	2207.0	2159.6
4901.0	20°	4110.5	3418.0	2719.2	2504.2	2346.1	2257.6	2200.7	2140.6	2086.9	2058.4
5264.6	22.5°	4293.9	3500.2	2738.2	2466.3	2276.6	2194.4	2074.2	2033.1	1957.2	1925.6
5615.5	25°	4594.2	3601.4	2690.8	2361.9	2153.3	2020.5	1913.0	1856.0	1802.3	1761.2
5855.8	27.5°	4670.1	3677.3	2580.1	2184.9	1957.2	1818.1	1726.4	1656.8	1622.1	1558.8
6200.5	30°	4891.5	3601.4	2415.7	1969.9	1770.7	1628.4	1536.7	1486.1	1403.9	1388.1
6475.6	32.5°	5033.8	3623.5	2207.0	1761.2	1555.7	1429.2	1369.1	1318.5	1296.4	1220.5
6896.1	35°	5270.9	3547.7	1995.2	1568.3	1378.6	1280.6	1230.0	1214.2	1141.4	1106.7
7256.6	37.5°	5422.7	3503.4	1783.3	1350.1	1185.7	1144.6	1160.4	1094.0	1005.5	939.1
7718.2	40°	5688.3	3487.6	1543.0	1169.9	1052.9	1043.4	1094.0	967.5	806.3	749.4
8271.5	42.5°	6070.9	3380.1	1356.5	1008.6	948.6	989.7	999.2	806.3	714.6	667.2
9014.6	45°	6437.6	3402.2	1173.1	834.7	825.3	885.3	863.2	683.0	629.2	594.4
9871.5	47.5°	7142.7	3512.9	992.8	695.6	743.0	800.0	670.3	610.2	559.7	534.4
11424.0	50°	8233.6	3620.4	834.7	635.5	701.9	724.1	575.5	553.3	550.2	499.6
12710.9	52.5°	8888.1	3579.3	806.3	711.4	752.5	724.1	626.1	610.2	585.0	562.8
14032.5	55°	9928.4	3699.4	866.4	831.6	853.7	695.6	701.9	695.6	676.6	619.7
15566.1	57.5°	10756.8	3778.5	945.4	929.6	917.0	724.1	733.6	736.7	724.1	698.8
17172.3	60°	11895.1	3936.6	1027.6	1030.8	1033.9	787.3	803.1	822.1	818.9	809.4
18791.2	62.5°	12593.9	3863.8	1119.3	1169.9	1154.1	917.0	913.8	926.4	926.4	942.2
19512.1	65°	12489.5	3595.1	1166.7	1293.2	1211.0	1011.8	1011.8	1018.1	1021.3	1052.9
19540.6	67°	11863.5	3114.5	1141.4	1312.2	1211.0	1049.8	1049.8	1056.1	1033.9	1116.2
19319.2	67.5°	11572.6	2972.2	1119.3	1296.4	1201.5	1046.6	1046.6	1049.8	1030.8	1109.8
17766.7	70°	10064.3	2207.0	964.4	1147.8	1113.0	1018.1	1018.1	999.2	983.4	1087.7
15328.9	72.5°	8590.9	1603.1	774.7	977.0	1005.5	980.2	986.5	939.1	894.8	967.5
11920.4	75°	6579.9	1179.4	603.9	752.5	850.6	917.0	958.1	837.9	781.0	800.0
6447.1	77.5°	3671.0	768.3	477.4	556.5	648.2	853.7	920.1	755.7	638.7	616.6
2178.6	80°	1245.8	449.0	351.0	414.2	445.8	755.7	860.0	613.4	502.7	480.6
736.7	82.5°	471.1	275.1	240.3	284.6	284.6	597.6	701.9	471.1	379.4	490.1
275.1	85°	215.0	164.4	158.1	164.4	164.4	366.8	496.4	306.7	341.5	294.1
101.2	87.5°	85.4	79.0	72.7	69.6	56.9	63.2	170.7	82.2	154.9	41.1
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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<u>180°</u>
2839.4
2232.3
2124.8
2191.2
2194.4
2232.3
2216.5
2121.6
2071.0
1900.3
1748.5
1546.2
1353.3
1201.5
1075.0
917.0
717.8
645.0
613.4
537.5
496.4
537.5
635.5
720.9
815.8
951.7
1056.1
1090.9
1084.5
1065.6
948.6
765.2
616.6
464.8
499.6
259.3
37.9
0.0

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