

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: P574621

Luminaire Tested: **EPH-VN-03-750-U-T2**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P574621  
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-T2  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T2 distribution lens  
Light Source: (48) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

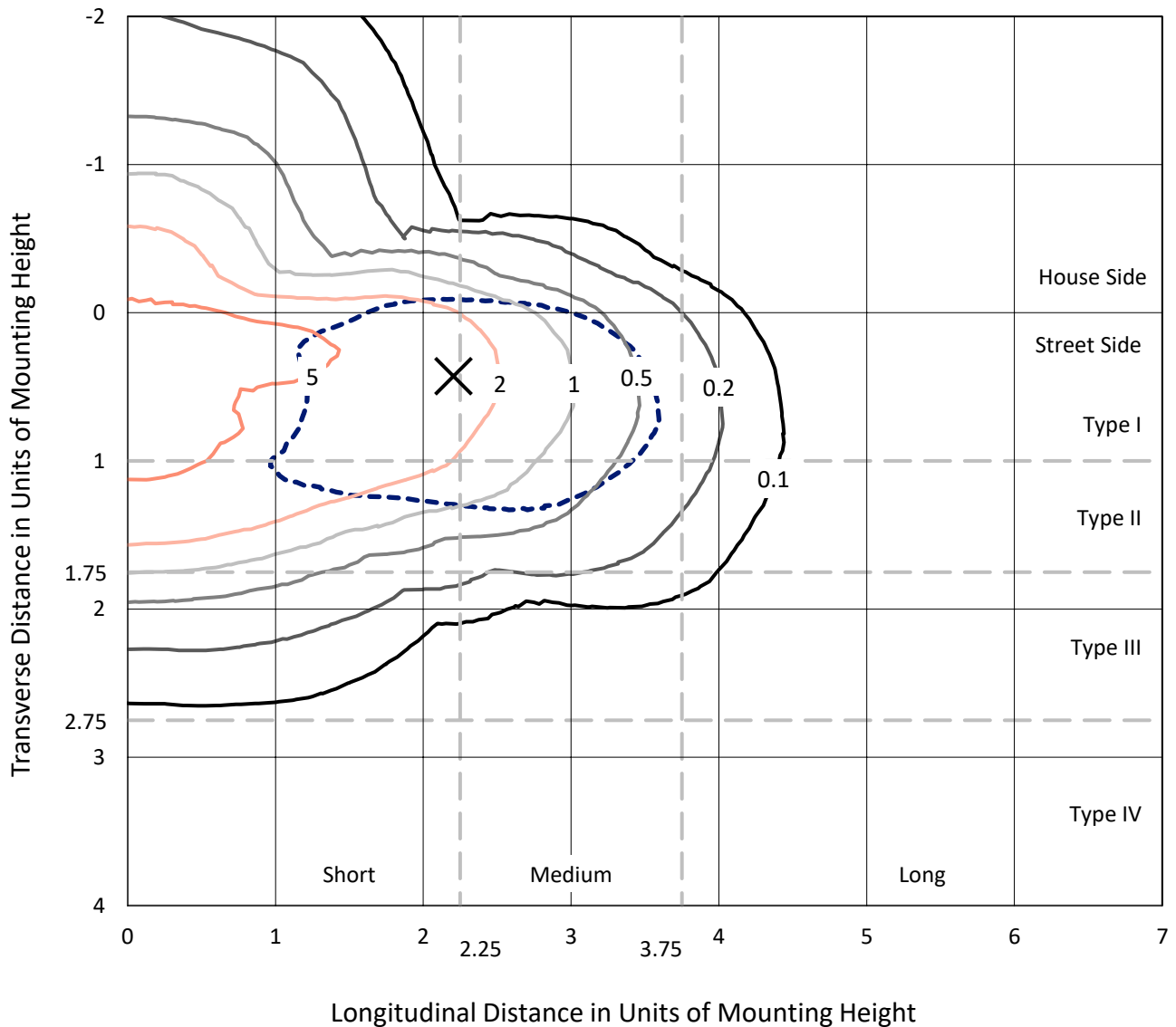
Lumens per Lamp: N/A  
Luminaire Lumens: 27557.7 lumens  
Efficiency: N/A  
Efficacy: 118.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4

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

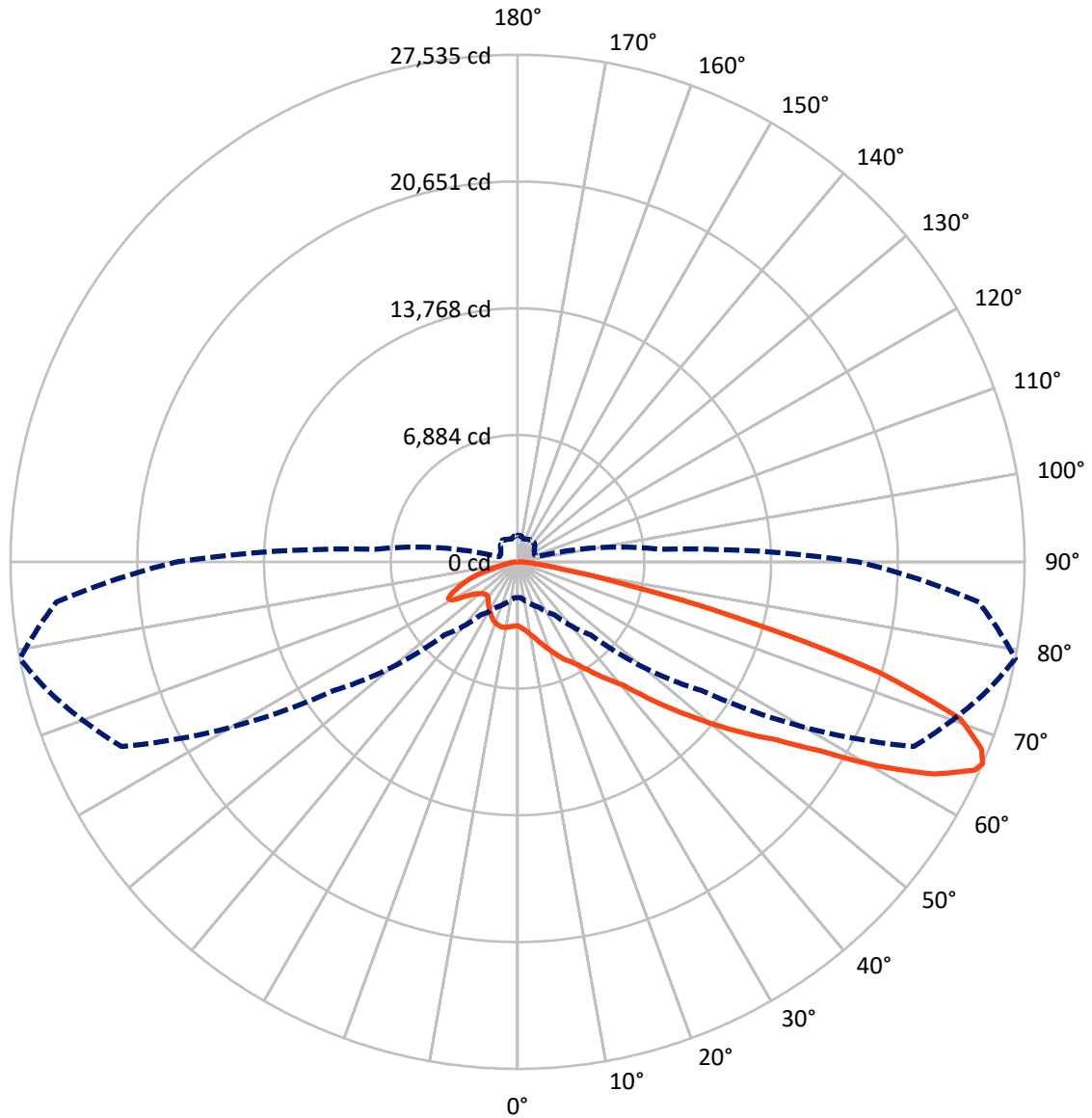
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 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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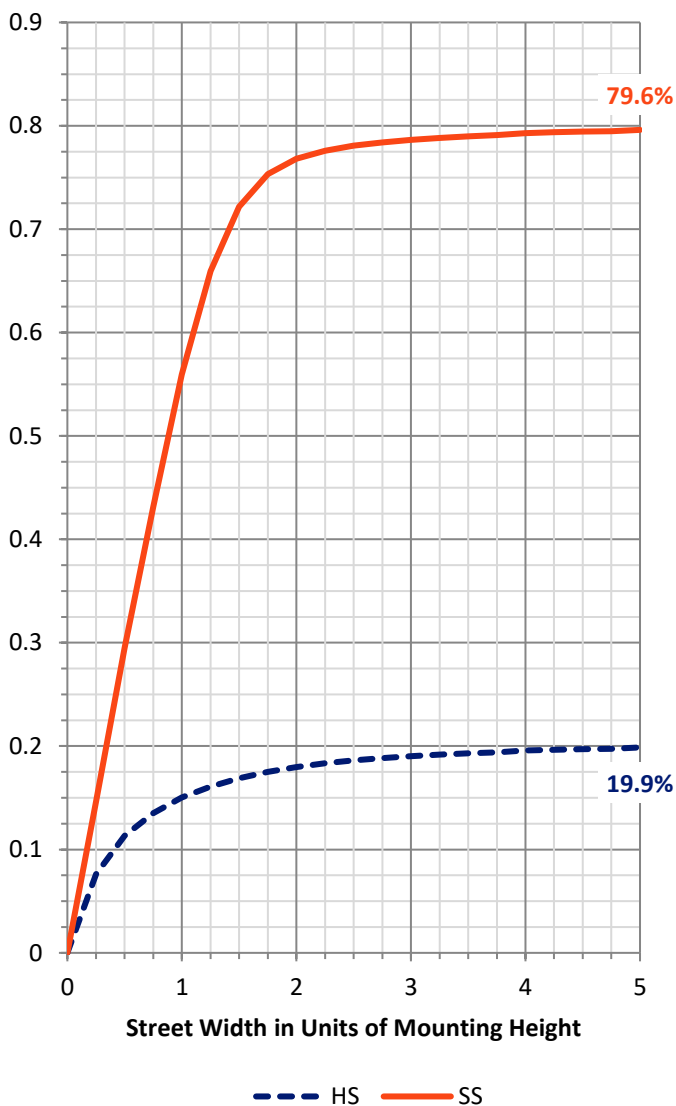
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5564.9	0.0	5564.9
	% Fixture	20.2	0.0	20.2
<b>Street Side</b>	Lumens	21992.8	0.0	21992.8
	% Fixture	79.8	0.0	79.8
<b>Total</b>	Lumens	27557.7	0.0	27557.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	342.2	1.2
10°-20°	1056.6	3.8
20°-30°	1813.7	6.6
30°-40°	2801.8	10.2
40°-50°	4487.7	16.3
50°-60°	6700.5	24.3
60°-70°	6884.7	25.0
70°-80°	3051.9	11.1
80°-90°	418.7	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°	27557.7	100.0
0°-180°	27557.7	100.0

**Coefficient of Utilization**

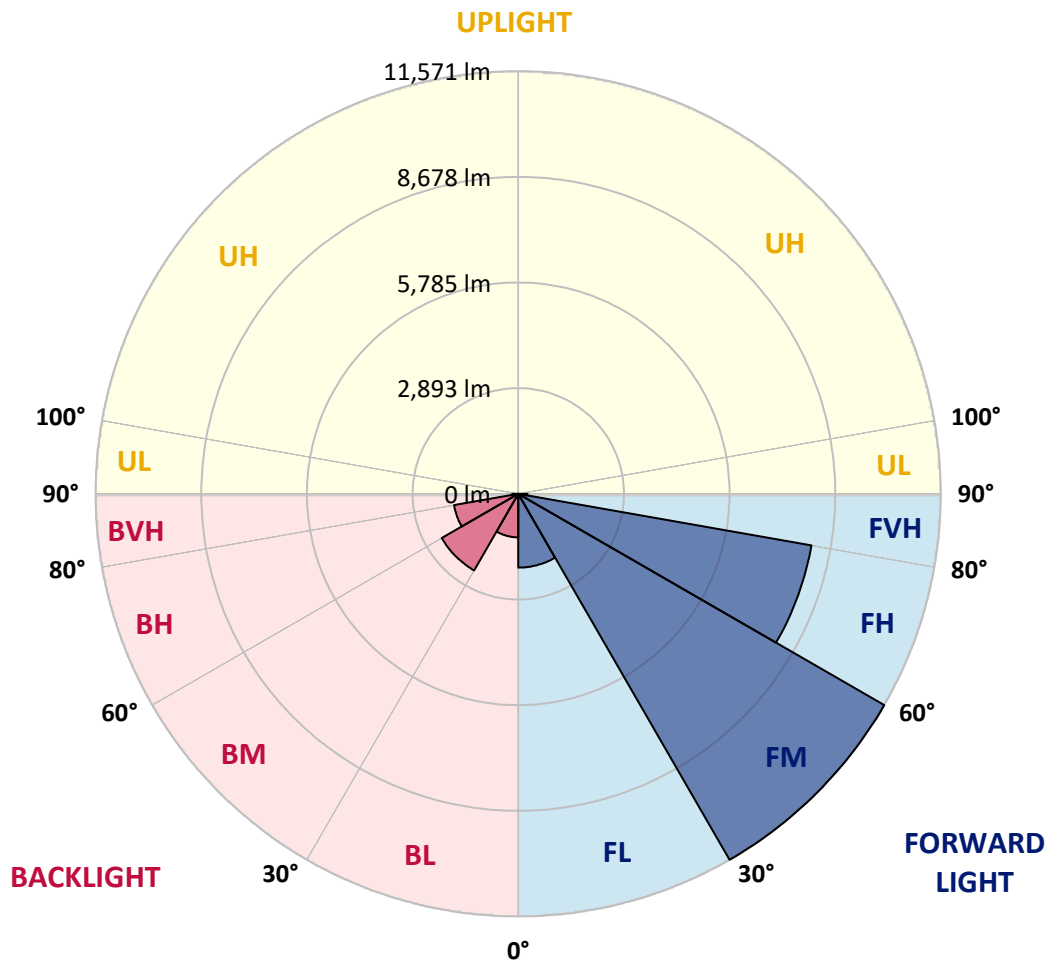


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2020.2	7.3			
FM (30°-60°)	11570.6	42.0			
FH (60°-80°)	8151.0	29.6			G4/12000
FVH (80°-90°)	251.1	0.9			G3/500
BL (0°-30°)	1192.3	4.3	B3/2500		
BM (30°-60°)	2419.4	8.8	B2/2500		
BH (60°-80°)	1785.7	6.5	B3/2500		G3/2500
BVH (80°-90°)	167.6	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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	3479.8	3479.8	3479.8	3479.8	3479.8	3479.8	3479.8	3479.8	3479.8	3479.8
2.5°	3701.1	3704.1	3704.1	3692.0	3695.0	3704.1	3670.7	3598.0	3598.0	3585.9
5°	3928.4	3913.2	3892.0	3895.0	3882.9	3882.9	3846.5	3776.8	3716.2	3692.0
7.5°	3958.7	3973.9	3970.8	4007.2	4025.4	4025.4	4043.6	3986.0	3895.0	3837.5
10°	4019.3	3979.9	3976.9	4061.8	4089.0	4152.7	4225.4	4195.1	4119.4	4037.5
12.5°	4055.7	4079.9	4079.9	4122.4	4186.0	4280.0	4407.3	4464.9	4346.7	4261.8
15°	4110.3	4076.9	4173.9	4210.3	4331.5	4398.2	4580.1	4728.6	4649.8	4546.7
17.5°	4134.5	4113.3	4167.9	4234.5	4440.7	4540.7	4762.0	4968.1	4901.4	4834.7
20°	4258.8	4255.8	4280.0	4334.6	4483.1	4680.1	4956.0	5240.9	5265.1	5143.9
22.5°	4561.9	4522.5	4522.5	4501.3	4564.9	4768.0	5140.9	5534.9	5644.0	5501.6
25°	4840.8	4895.3	4862.0	4765.0	4740.7	4846.8	5274.2	5847.1	5992.6	5859.2
27.5°	5198.4	5216.6	5274.2	5143.9	4977.2	5010.5	5419.7	6022.9	6323.0	6144.2
30°	5713.7	5680.4	5668.3	5522.8	5304.5	5259.1	5586.4	6280.6	6756.5	6504.9
32.5°	6062.3	6144.2	6141.1	5941.1	5677.4	5577.3	5792.6	6523.1	7220.2	6986.8
35°	6753.4	6838.3	6771.6	6477.6	6168.4	5968.4	6089.6	6838.3	7750.7	7568.8
37.5°	7635.5	7835.6	7693.1	7150.5	6714.0	6495.8	6501.8	7180.8	8293.3	8144.7
40°	8244.8	8514.5	8317.5	7808.3	7344.5	7138.4	7056.6	7587.0	8941.9	8784.3
42.5°	8999.5	9223.8	9120.8	8617.6	8075.0	7899.2	7735.5	8266.0	9933.1	9860.4
45°	9824.0	9930.1	9896.8	9578.5	8975.3	8914.7	8553.9	9160.2	11100.1	11130.4
47.5°	10590.9	10648.5	10712.1	10481.8	10105.9	10157.4	9496.6	10118.0	12233.8	12433.8
50°	10787.9	10984.9	11133.5	11288.1	11369.9	11718.5	10536.3	11294.1	13537.2	13925.2
52.5°	10587.9	10572.7	11024.3	11509.3	12327.7	13058.3	11951.9	12755.1	14689.0	15455.9
55°	9678.5	9648.2	10375.7	11018.3	12615.7	13803.9	13973.7	14701.2	16080.3	17077.6
57.5°	8087.1	7899.2	8693.4	9748.2	11991.3	13885.8	16004.6	17589.9	18220.3	19357.0
60°	5434.9	5356.1	6116.9	7374.8	9736.1	12724.8	17220.1	21206.0	21236.3	22515.5
62.5°	3346.4	3361.6	3849.6	4792.3	6817.1	10087.7	16695.7	24094.7	24100.8	25383.0
65°	2188.5	2197.6	2591.6	3113.0	4258.8	6841.3	13807.0	24322.1	26092.3	27283.5
66°	1949.0	1952.1	2291.6	2715.9	3528.3	5598.6	12194.4	23731.0	26540.9	27535.1
67.5°	1642.9	1682.3	1955.1	2282.5	2752.3	4022.4	9675.5	22021.4	26310.5	27183.5
70°	1285.2	1306.4	1521.6	1855.1	2064.2	2327.9	5750.1	17950.6	24082.6	25498.2
72.5°	1030.6	1048.8	1212.5	1506.5	1676.2	1533.8	3131.2	13024.9	19023.6	20533.1
75°	869.9	873.0	951.8	1185.2	1379.2	1151.8	1667.1	8360.0	12206.5	12909.7
77.5°	703.2	715.4	769.9	903.3	1109.4	906.3	994.2	4683.2	6129.0	6180.5
80°	572.9	579.0	612.3	657.8	845.7	669.9	672.9	2285.5	2628.0	2567.4
82.5°	451.6	457.7	497.1	488.0	621.4	478.9	418.3	1100.3	1209.4	1185.2
85°	254.6	254.6	391.0	391.0	394.1	303.1	254.6	518.3	639.6	597.1
87.5°	81.8	84.9	118.2	124.3	197.0	136.4	124.3	194.0	303.1	266.7
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°
3479.8	0°	3479.8	3479.8	3479.8	3479.8	3479.8	3479.8	3479.8	3479.8	3479.8	3479.8
3564.7	2.5°	3552.5	3504.0	3482.8	3413.1	3394.9	3349.4	3328.2	3300.9	3291.8	3252.4
3628.3	5°	3579.8	3564.7	3479.8	3391.9	3325.2	3294.9	3249.4	3188.8	3182.7	3128.2
3773.8	7.5°	3695.0	3643.5	3494.9	3401.0	3267.6	3191.8	3091.8	3061.5	3022.1	3003.9
3952.6	10°	3873.8	3743.5	3522.2	3285.8	3122.1	3031.2	2958.4	2937.2	2940.2	2928.1
4131.5	12.5°	4001.1	3876.9	3476.7	3188.8	2976.6	2888.7	2882.6	2903.9	2937.2	2922.0
4340.6	15°	4183.0	3949.6	3443.4	3028.1	2858.4	2834.1	2831.1	2894.8	2891.7	2891.7
4622.5	17.5°	4352.8	4022.4	3322.2	2888.7	2734.1	2752.3	2773.5	2770.5	2800.8	2812.9
4855.9	20°	4568.0	4107.2	3152.4	2749.3	2640.1	2634.1	2631.1	2634.1	2664.4	2682.6
5119.6	22.5°	4755.9	4125.4	3009.9	2615.9	2528.0	2503.7	2464.3	2503.7	2488.6	2494.6
5477.3	25°	4919.6	4128.4	2806.9	2515.9	2415.8	2361.3	2331.0	2327.9	2300.7	2297.6
5680.4	27.5°	5056.0	4025.4	2628.0	2376.4	2282.5	2230.9	2227.9	2194.6	2124.8	2079.4
5919.9	30°	5162.1	3946.6	2503.7	2255.2	2164.3	2155.2	2127.9	2052.1	1961.2	1903.6
6362.4	32.5°	5350.0	3789.0	2334.0	2130.9	2085.4	2073.3	2009.7	1943.0	1858.1	1803.5
6738.3	35°	5489.4	3643.5	2221.8	2024.8	2003.6	1979.4	1924.8	1852.0	1827.8	1815.7
7141.4	37.5°	5647.1	3479.8	2085.4	1933.9	1955.1	1909.6	1846.0	1812.6	1897.5	1876.3
7771.9	40°	5898.6	3364.6	1952.1	1879.3	1900.5	1849.0	1767.2	1755.0	1861.1	1785.4
8581.2	42.5°	6359.4	3361.6	1870.2	1797.5	1812.6	1773.2	1700.5	1694.4	1736.9	1645.9
9593.6	45°	6932.3	3467.7	1809.6	1736.9	1724.7	1718.7	1694.4	1667.1	1630.8	1512.6
10721.2	47.5°	7617.3	3640.4	1797.5	1645.9	1661.1	1712.6	1682.3	1612.6	1518.6	1442.8
11976.1	50°	8447.9	3998.1	1767.2	1579.2	1606.5	1688.4	1664.1	1567.1	1482.2	1433.7
13124.9	52.5°	9366.3	4449.8	1727.8	1476.2	1536.8	1667.1	1679.3	1588.3	1464.1	1421.6
14679.9	55°	10448.4	5116.6	1682.3	1364.0	1455.0	1645.9	1679.3	1527.7	1439.8	1439.8
17053.3	57.5°	12585.4	6316.9	1588.3	1261.0	1382.2	1606.5	1630.8	1530.7	1442.8	1442.8
20736.2	60°	15719.6	8190.2	1409.5	1182.2	1312.5	1552.0	1594.4	1485.3	1409.5	1427.7
23767.4	62.5°	18171.8	8760.1	1257.9	1106.4	1242.8	1451.9	1545.9	1436.8	1370.1	1436.8
25155.6	65°	18696.2	8184.1	1103.3	1024.5	1145.8	1354.9	1476.2	1367.1	1312.5	1442.8
25137.5	66°	18508.3	7735.5	1048.8	1000.3	1103.3	1306.4	1433.7	1342.8	1282.2	1436.8
24567.6	67.5°	17671.7	7062.6	988.2	948.8	1045.8	1236.7	1385.2	1309.5	1233.7	1418.6
22494.3	70°	15853.0	5989.6	885.1	857.8	963.9	1121.5	1273.1	1224.6	1157.9	1306.4
17692.9	72.5°	12209.5	4786.2	776.0	779.0	869.9	1003.3	1160.9	1127.6	1070.0	1145.8
10839.4	75°	7435.4	3058.4	675.9	682.0	757.8	891.2	1054.8	1030.6	960.9	1003.3
5010.5	77.5°	3294.9	1515.6	569.9	582.0	642.6	785.1	918.4	879.0	806.3	815.4
2036.9	80°	1279.2	718.4	463.8	478.9	518.3	627.5	760.8	724.4	660.8	648.7
936.6	82.5°	615.3	400.1	357.7	363.7	378.9	500.1	654.7	609.3	524.4	469.8
439.5	85°	309.2	248.6	251.6	230.4	251.6	339.5	442.6	369.8	306.1	272.8
157.6	87.5°	124.3	124.3	124.3	106.1	112.2	160.7	206.1	139.4	127.3	75.8
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°
3479.8
3288.8
3122.1
3043.3
2909.9
2943.3
2888.7
2834.1
2667.4
2512.8
2297.6
2085.4
1903.6
1794.4
1824.8
1885.4
1767.2
1618.6
1482.2
1427.7
1424.6
1415.6
1433.7
1430.7
1424.6
1442.8
1448.9
1439.8
1391.3
1257.9
1115.5
988.2
809.3
642.6
469.8
278.9
75.8
0.0

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