

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: P575203

Luminaire Tested: **EPH-VN-03-730-U-T3-HSS**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P575203  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 10/19/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-VN-03-730-U-T3-HSS  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T3 distribution lens and House Side Shield  
Light Source: (48) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

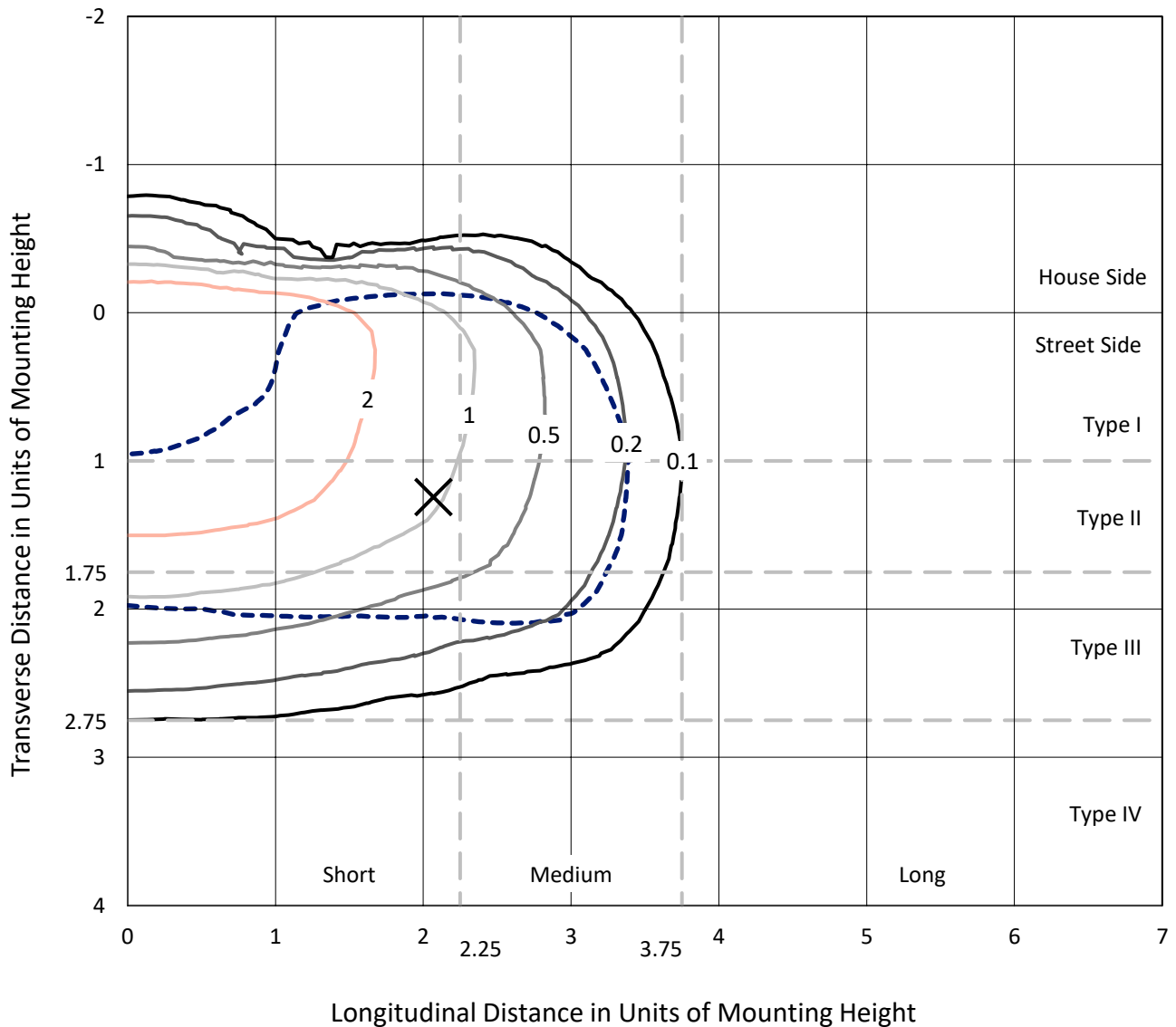
Lumens per Lamp: N/A  
Luminaire Lumens: 15748.7 lumens  
Efficiency: N/A  
Efficacy: 85.5 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3

Input Watts (W): 184.1  
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

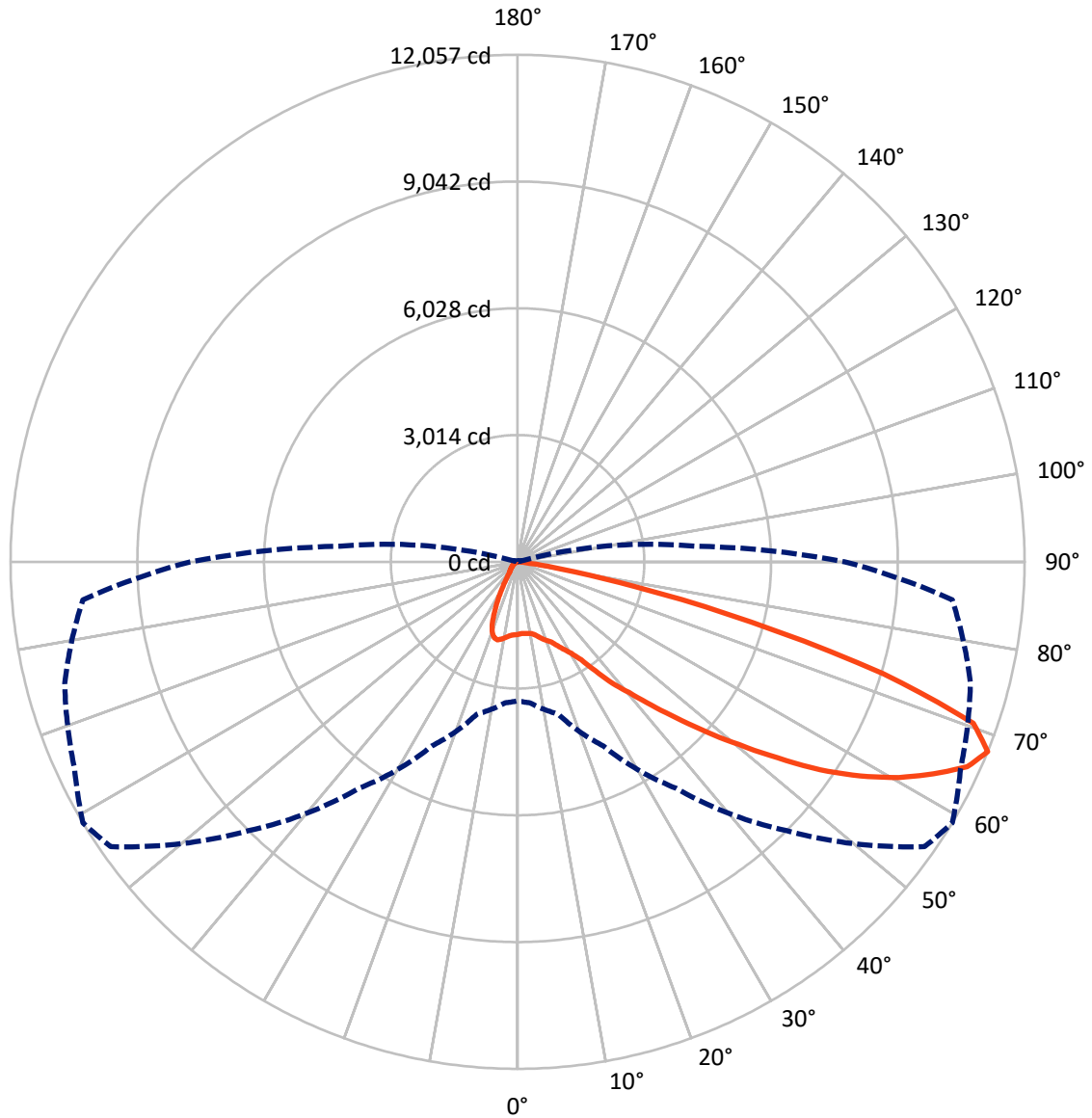
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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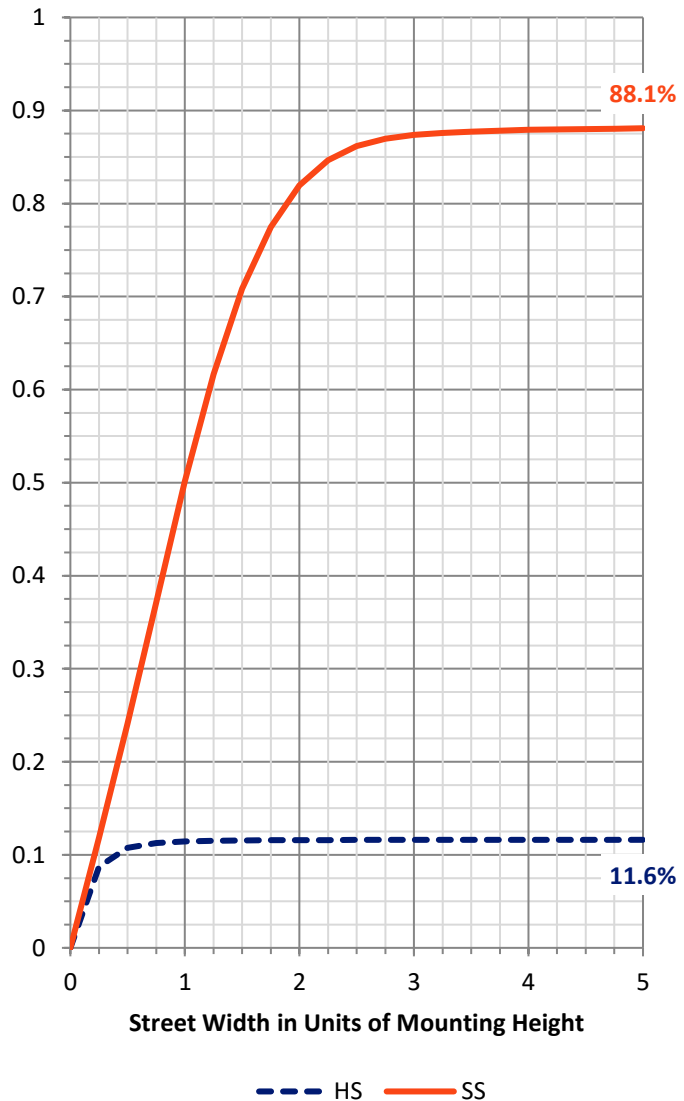
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1850.0	0.0	1850.0
	% Fixture	11.7	0.0	11.7
<b>Street Side</b>	Lumens	13898.7	0.0	13898.7
	% Fixture	88.3	0.0	88.3
<b>Total</b>	Lumens	15748.7	0.0	15748.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	164.1	1.0
10°-20°	474.0	3.0
20°-30°	828.4	5.3
30°-40°	1458.4	9.3
40°-50°	2578.0	16.4
50°-60°	4082.0	25.9
60°-70°	4528.0	28.8
70°-80°	1571.1	10.0
80°-90°	64.7	0.4
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°	15748.7	100.0
0°-180°	15748.7	100.0

**Coefficient of Utilization**



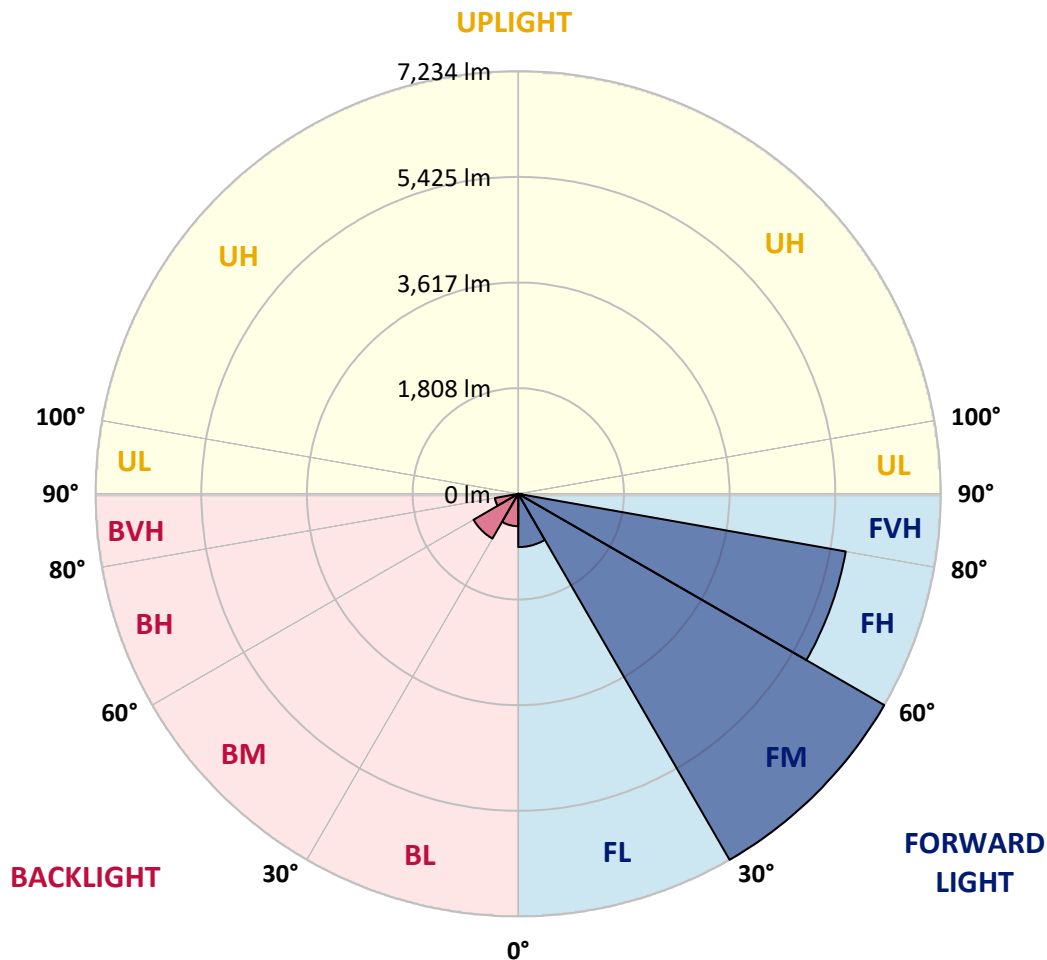
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	912.0	5.8			
FM (30°-60°)	7234.0	45.9			
FH (60°-80°)	5692.3	36.1			G3/7500
FVH (80°-90°)	60.5	0.4			G1/100
BL (0°-30°)	554.4	3.5	B2/1000		
BM (30°-60°)	884.5	5.6	B1/1000		
BH (60°-80°)	406.8	2.6	B1/500		G1/500
BVH (80°-90°)	4.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	1727.3	1727.3	1727.3	1727.3	1727.3	1727.3	1727.3	1727.3	1727.3	1727.3
2.5°	1677.3	1653.4	1675.1	1677.3	1679.5	1699.1	1720.8	1705.6	1703.4	1720.8
5°	1609.9	1599.0	1625.1	1638.2	1659.9	1677.3	1712.1	1714.3	1716.5	1736.1
7.5°	1581.6	1555.5	1585.9	1601.2	1616.4	1657.7	1699.1	1720.8	1751.3	1775.2
10°	1525.0	1544.6	1553.3	1579.4	1622.9	1670.8	1720.8	1731.7	1799.1	1818.7
12.5°	1544.6	1557.7	1575.1	1581.6	1629.5	1701.2	1768.7	1773.0	1842.7	1927.5
15°	1594.6	1585.9	1592.5	1601.2	1657.7	1716.5	1825.2	1844.8	1910.1	2005.8
17.5°	1701.2	1686.0	1675.1	1673.0	1686.0	1740.4	1868.8	1927.5	1988.4	2118.9
20°	1968.8	1955.8	1912.3	1799.1	1760.0	1781.7	1921.0	2003.6	2088.5	2234.2
22.5°	2375.6	2388.7	2286.5	2127.6	1964.5	1879.6	2003.6	2075.4	2210.3	2395.2
25°	2856.4	2830.3	2706.3	2521.4	2264.7	2064.6	2136.3	2216.8	2382.2	2534.5
27.5°	3232.8	3202.3	3106.6	2882.5	2660.6	2336.5	2310.4	2360.4	2556.2	2693.3
30°	3604.8	3615.7	3550.4	3285.0	3010.9	2669.3	2504.0	2525.8	2675.9	2852.1
32.5°	4079.1	4053.0	4016.0	3783.2	3459.0	3093.6	2810.7	2775.9	2841.2	3074.0
35°	4520.7	4505.5	4455.4	4220.5	3937.7	3539.5	3263.3	3184.9	3169.7	3428.6
37.5°	4905.8	4879.7	4803.5	4653.4	4379.3	4044.3	3741.9	3672.2	3670.1	3848.5
40°	5229.9	5249.5	5240.8	5075.4	4925.3	4657.8	4194.4	4083.4	4074.7	4170.4
42.5°	5649.8	5695.5	5671.5	5638.9	5458.3	5353.9	4829.6	4659.9	4583.8	4779.6
45°	6285.0	6302.4	6317.7	6237.2	6056.6	6078.4	5486.6	5284.3	5264.7	5556.2
47.5°	6878.9	6833.3	6939.9	6944.2	6935.5	6835.4	6195.8	6045.7	6071.8	6293.7
50°	7026.9	7144.4	7438.0	7492.4	7633.8	7725.2	6983.4	6833.3	6876.8	7129.1
52.5°	7142.2	7320.6	7614.3	8012.4	8393.1	8610.6	7864.4	7742.6	7740.4	7894.9
55°	7344.5	7453.3	7707.8	8256.0	8980.5	9337.3	8926.1	8730.3	8554.1	8662.9
57.5°	7324.9	7366.3	7762.2	8438.8	9446.0	10094.3	9798.5	9611.4	9385.1	9322.0
60°	6981.2	7079.1	7522.9	8314.8	9733.2	10683.9	10612.1	10420.7	10031.2	9883.3
62.5°	6300.3	6430.8	6778.9	7879.7	9315.5	10714.4	11173.4	11101.6	10666.5	10401.1
65°	5105.9	5166.8	5567.1	6774.5	8371.3	10246.6	11836.9	11747.7	11347.4	10951.5
67.5°	3306.8	3365.5	3750.6	4836.1	6574.4	9039.2	11810.8	12056.6	11623.7	11147.3
70°	1562.0	1546.8	1905.7	2686.7	4211.8	6902.9	11012.4	11497.5	11129.9	10105.2
72.5°	476.4	517.8	791.9	1190.0	2162.4	4305.3	8632.4	9087.1	8971.8	8073.3
75°	211.0	228.4	311.1	487.3	876.7	1766.5	5332.2	5736.8	5686.8	4762.2
77.5°	134.9	147.9	195.8	278.5	398.1	561.3	2456.1	2849.9	2762.9	1673.0
80°	95.7	102.2	139.2	191.4	250.2	230.6	846.3	1005.1	963.7	454.7
82.5°	52.2	56.6	102.2	141.4	167.5	117.5	237.1	295.9	308.9	202.3
85°	19.6	23.9	63.1	100.1	87.0	54.4	69.6	84.8	111.0	111.0
87.5°	0.0	2.2	26.1	43.5	21.8	15.2	19.6	23.9	30.5	52.2
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°
1727.3	0°	1727.3	1727.3	1727.3	1727.3	1727.3	1727.3	1727.3	1727.3	1727.3	1727.3
1736.1	2.5°	1746.9	1731.7	1738.2	1749.1	1725.2	1738.2	1712.1	1731.7	1738.2	1712.1
1762.2	5°	1768.7	1783.9	1775.2	1757.8	1742.6	1746.9	1740.4	1725.2	1738.2	1742.6
1801.3	7.5°	1831.8	1814.4	1818.7	1799.1	1768.7	1766.5	1725.2	1714.3	1718.6	1723.0
1881.8	10°	1890.5	1901.4	1879.6	1864.4	1814.4	1781.7	1725.2	1664.3	1657.7	1631.6
1960.1	12.5°	1994.9	1968.8	1960.1	1910.1	1860.1	1751.3	1629.5	1535.9	1457.6	1429.3
2086.3	15°	2082.0	2077.6	2062.4	1986.2	1870.9	1673.0	1442.4	1224.8	1074.7	981.2
2160.3	17.5°	2201.6	2182.0	2153.7	2034.1	1790.4	1468.5	1074.7	800.6	650.5	591.7
2301.7	20°	2293.0	2277.8	2238.6	2023.2	1644.7	1094.3	665.7	509.1	472.1	461.2
2456.1	22.5°	2425.7	2377.8	2303.9	1968.8	1379.3	728.8	478.6	454.7	448.2	439.5
2558.4	25°	2541.0	2497.5	2343.0	1875.3	983.3	483.0	443.8	430.7	419.9	409.0
2667.2	27.5°	2643.2	2588.8	2384.4	1683.8	615.7	415.5	411.2	395.9	374.2	356.8
2793.3	30°	2743.3	2680.2	2395.2	1324.9	415.5	376.4	365.5	341.6	313.3	289.3
3004.4	32.5°	2910.8	2834.7	2380.0	946.3	359.0	335.0	311.1	282.8	241.5	221.9
3306.8	35°	3171.9	3056.6	2360.4	556.9	322.0	295.9	258.9	221.9	191.4	171.9
3613.5	37.5°	3472.1	3272.0	2303.9	372.0	295.9	261.1	213.2	176.2	150.1	134.9
4033.4	40°	3918.1	3587.4	2086.3	304.6	263.2	221.9	171.9	139.2	119.7	108.8
4655.6	42.5°	4409.7	3948.5	1751.3	274.1	232.8	189.3	137.1	113.1	97.9	87.0
5277.8	45°	4999.3	4324.9	1351.0	250.2	206.7	156.6	113.1	91.4	78.3	69.6
6006.6	47.5°	5656.3	4666.5	911.5	226.3	174.0	128.4	93.5	69.6	56.6	50.0
6800.6	50°	6243.7	4968.8	580.9	198.0	152.3	106.6	76.1	56.6	45.7	37.0
7442.4	52.5°	6776.7	5199.5	400.3	174.0	130.5	87.0	63.1	45.7	34.8	28.3
8108.1	55°	7322.7	5316.9	295.9	150.1	113.1	74.0	52.2	41.3	30.5	23.9
8873.9	57.5°	7770.9	5367.0	226.3	130.5	95.7	58.7	45.7	34.8	26.1	19.6
9461.3	60°	8153.8	5343.0	176.2	108.8	76.1	50.0	39.2	28.3	21.8	15.2
10227.0	62.5°	8377.9	5199.5	139.2	93.5	60.9	43.5	32.6	23.9	15.2	10.9
10620.8	65°	8382.2	4894.9	108.8	69.6	45.7	37.0	28.3	19.6	10.9	4.4
10375.0	67.5°	7781.8	4235.7	87.0	54.4	37.0	28.3	21.8	15.2	4.4	0.0
8617.2	70°	6087.1	3204.5	71.8	43.5	30.5	23.9	15.2	8.7	2.2	0.0
5752.0	72.5°	3878.9	1918.8	58.7	34.8	26.1	17.4	10.9	6.5	0.0	0.0
2625.8	75°	1622.9	591.7	45.7	30.5	19.6	13.1	8.7	2.2	0.0	0.0
687.5	77.5°	417.7	187.1	37.0	26.1	19.6	10.9	6.5	2.2	0.0	0.0
184.9	80°	124.0	69.6	30.5	21.8	15.2	8.7	4.4	2.2	0.0	0.0
89.2	82.5°	56.6	41.3	26.1	19.6	13.1	8.7	4.4	0.0	0.0	0.0
41.3	85°	21.8	13.1	13.1	10.9	10.9	6.5	2.2	0.0	0.0	0.0
15.2	87.5°	8.7	4.4	4.4	4.4	2.2	2.2	0.0	0.0	0.0	0.0
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°
1727.3
1725.2
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1401.0
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217.6
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