

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: P575323

Luminaire Tested: **EPH-VN-03-730-U-T4W-HSS**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P575323  
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-T4W-HSS  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T4W distribution lens and House Side Shield  
Light Source: (48) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

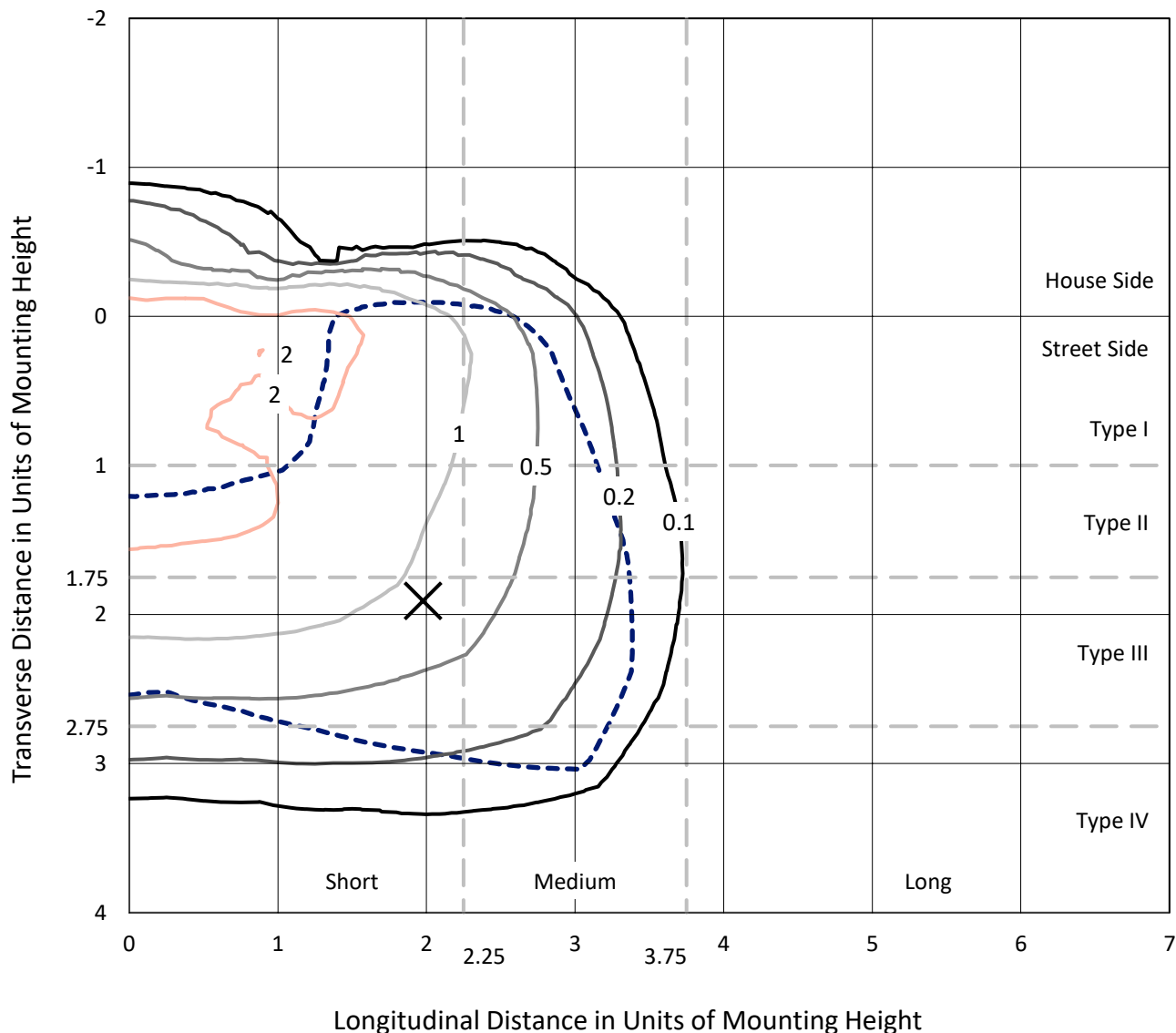
Lumens per Lamp: N/A  
Luminaire Lumens: 15659.8 lumens  
Efficiency: N/A  
Efficacy: 85.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

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

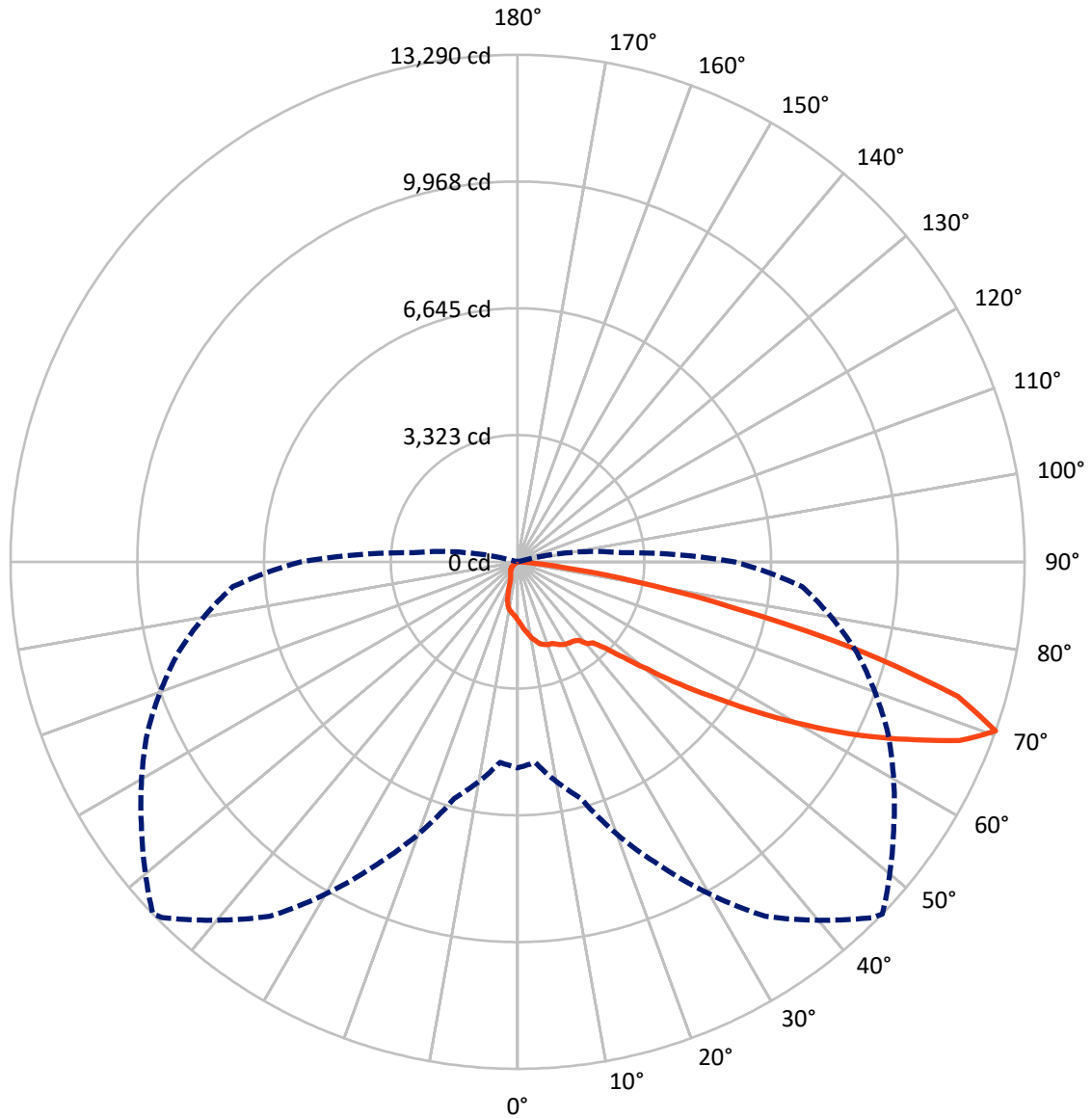
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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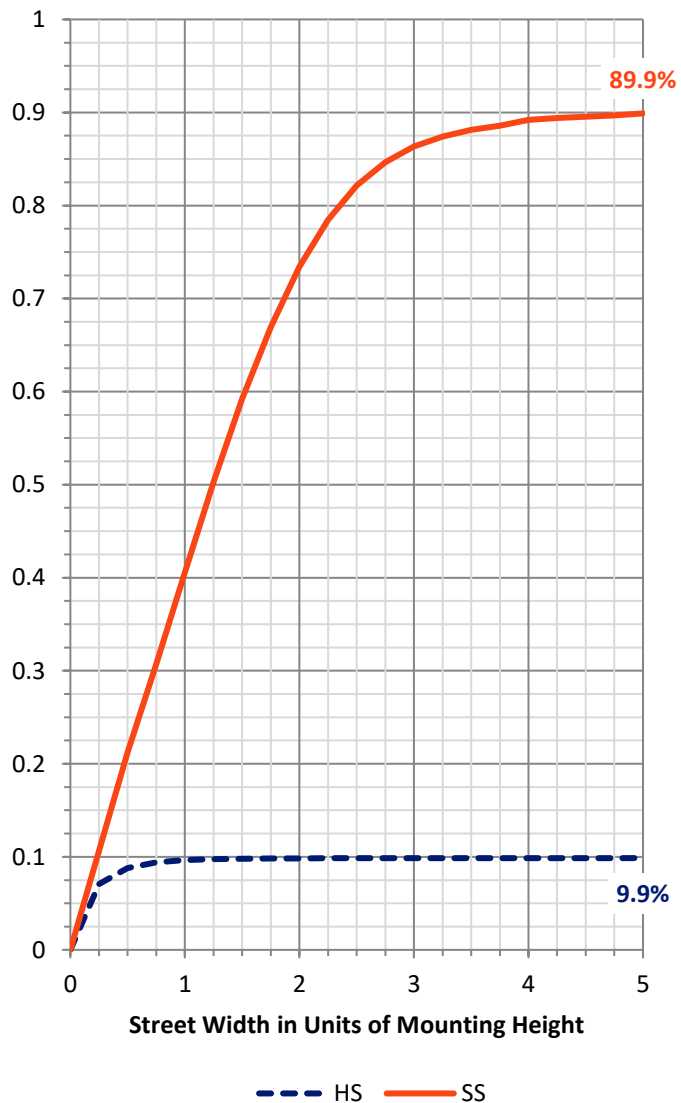
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1558.2	0.0	1558.2
	% Fixture	10.0	0.0	10.0
<b>Street Side</b>	Lumens	14101.6	0.0	14101.6
	% Fixture	90.0	0.0	90.0
<b>Total</b>	Lumens	15659.8	0.0	15659.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	153.3	1.0
10°-20°	462.9	3.0
20°-30°	741.5	4.7
30°-40°	1058.4	6.8
40°-50°	1827.5	11.7
50°-60°	3499.0	22.3
60°-70°	5181.4	33.1
70°-80°	2566.3	16.4
80°-90°	169.6	1.1
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°	15659.8	100.0
0°-180°	15659.8	100.0

**Coefficient of Utilization**



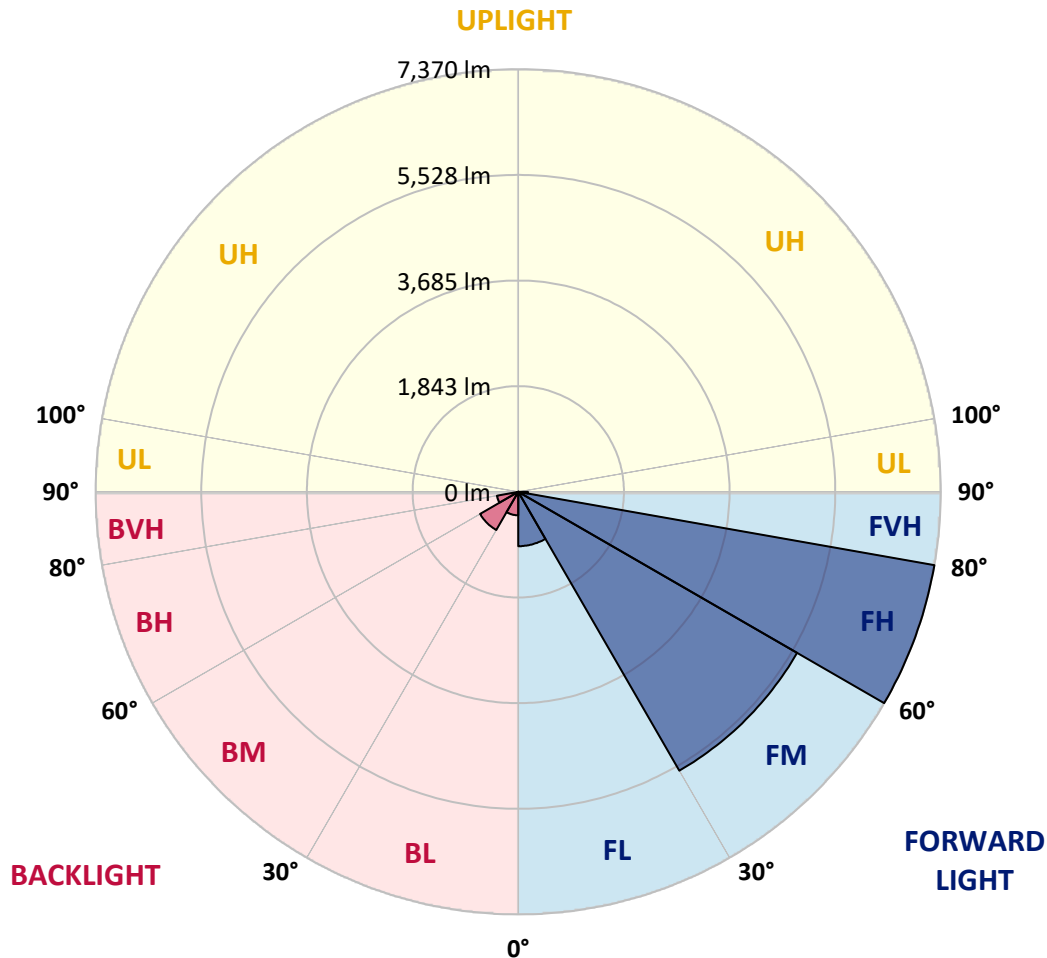
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	948.3	6.1			
FM (30°-60°)	5615.6	35.9			
FH (60°-80°)	7370.3	47.1			G3/7500
FVH (80°-90°)	167.4	1.1			G2/225
BL (0°-30°)	409.4	2.6	B1/500		
BM (30°-60°)	769.3	4.9	B1/1000		
BH (60°-80°)	377.4	2.4	B1/500		G1/500
BVH (80°-90°)	2.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	1537.3	1537.3	1537.3	1537.3	1537.3	1537.3	1537.3	1537.3	1537.3	1537.3
2.5°	1715.4	1704.1	1686.1	1679.3	1661.3	1652.3	1638.7	1632.0	1607.2	1582.4
5°	1925.0	1898.0	1907.0	1879.9	1821.3	1774.0	1771.7	1719.9	1663.5	1618.5
7.5°	2136.9	2114.4	2080.5	2042.2	1976.9	1907.0	1886.7	1837.1	1758.2	1679.3
10°	2296.9	2281.2	2251.9	2197.8	2107.6	2028.7	2031.0	1947.6	1864.2	1774.0
12.5°	2396.1	2402.9	2360.1	2306.0	2227.1	2127.9	2125.6	2069.3	1974.6	1879.9
15°	2495.3	2520.1	2454.7	2391.6	2290.2	2218.0	2231.6	2163.9	2071.5	1963.3
17.5°	2511.1	2517.8	2504.3	2411.9	2337.5	2276.7	2278.9	2233.8	2163.9	2046.7
20°	2484.0	2479.5	2463.7	2396.1	2346.5	2310.5	2312.7	2301.4	2263.1	2168.5
22.5°	2405.1	2405.1	2384.9	2339.8	2317.2	2351.0	2324.0	2366.8	2326.2	2269.9
25°	2342.0	2366.8	2355.5	2326.2	2335.3	2380.3	2393.9	2434.4	2427.7	2357.8
27.5°	2409.6	2380.3	2387.1	2353.3	2387.1	2454.7	2461.5	2490.8	2488.5	2432.2
30°	2454.7	2481.8	2429.9	2355.5	2391.6	2506.6	2502.1	2540.4	2558.4	2490.8
32.5°	2599.0	2576.5	2533.6	2434.4	2438.9	2504.3	2524.6	2574.2	2585.5	2544.9
35°	2894.3	2860.5	2673.4	2524.6	2502.1	2533.6	2547.1	2644.1	2664.4	2619.3
37.5°	3349.6	3273.0	3047.6	2718.5	2617.0	2610.3	2610.3	2738.7	2815.4	2711.7
40°	4001.0	3892.9	3649.4	3076.9	2768.0	2795.1	2822.1	2892.0	2883.0	2815.4
42.5°	4830.6	4747.2	4483.4	3678.7	3056.6	2921.3	2898.8	2993.5	3135.5	3108.4
45°	5522.6	5527.1	5358.0	4503.7	3554.7	3212.1	3227.9	3300.0	3539.0	3518.7
47.5°	6027.5	5964.4	5939.6	5299.4	4280.6	3764.4	3741.8	3791.4	4102.5	4231.0
50°	6487.3	6444.5	6385.9	6072.6	5152.9	4456.4	4433.8	4438.3	4914.0	5094.3
52.5°	7057.6	7111.7	6917.9	6726.3	6282.2	5355.8	5331.0	5243.1	5833.6	6081.6
55°	7760.9	7659.5	7440.8	7540.0	7361.9	6327.3	6282.2	6178.5	6881.8	6985.5
57.5°	7916.4	7839.8	8065.2	8416.9	8588.2	7467.9	7449.8	7262.7	7763.2	7668.5
60°	8304.1	8324.4	8637.8	9336.5	9634.1	8784.3	8696.4	8367.3	8617.5	8635.5
62.5°	8703.1	8655.8	9356.8	10028.5	10486.1	10030.8	10001.5	9347.8	9631.8	9401.9
65°	8410.1	8482.2	9485.3	10610.1	11590.6	11250.3	11225.5	10292.3	10447.8	10161.5
67.5°	7368.7	7222.2	8626.5	10344.1	12158.7	12528.4	12501.3	11322.4	10907.6	10157.0
70°	5400.9	5274.6	6419.7	8759.5	11344.9	13182.0	13290.2	12039.2	10720.6	9210.3
72.5°	2646.3	2648.6	3597.6	5939.6	8975.9	12014.4	12068.5	11038.4	9210.3	6789.4
75°	782.2	791.2	1332.2	2912.3	5802.1	9124.6	9185.5	8378.5	6383.6	3507.4
77.5°	286.3	286.3	441.8	1093.2	2894.3	5759.3	5754.7	5143.9	3232.4	1187.9
80°	148.8	155.5	229.9	446.3	1253.3	3000.2	3112.9	2517.8	1228.5	500.4
82.5°	60.9	67.6	126.2	229.9	601.8	1052.7	1151.9	987.3	534.2	349.4
85°	18.0	20.3	60.9	128.5	236.7	263.7	293.0	331.4	335.9	270.5
87.5°	2.3	2.3	24.8	42.8	51.8	56.4	65.4	65.4	171.3	189.3
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°
1537.3	0°	1537.3	1537.3	1537.3	1537.3	1537.3	1537.3	1537.3	1537.3	1537.3	1537.3
1566.6	2.5°	1548.6	1537.3	1519.3	1478.7	1469.7	1440.4	1438.1	1411.1	1420.1	1402.1
1557.6	5°	1537.3	1512.5	1462.9	1431.4	1399.8	1379.5	1366.0	1354.7	1352.5	1343.5
1598.2	7.5°	1557.6	1523.8	1447.1	1397.5	1343.5	1325.4	1296.1	1293.9	1278.1	1262.3
1663.5	10°	1625.2	1564.4	1481.0	1397.5	1327.7	1269.1	1201.4	1151.9	1133.8	1093.2
1749.2	12.5°	1679.3	1625.2	1503.5	1417.8	1311.9	1178.9	1030.1	915.2	861.1	809.2
1819.1	15°	1756.0	1677.1	1546.3	1422.3	1251.0	1021.1	777.7	649.2	599.6	588.3
1922.8	17.5°	1839.4	1756.0	1600.4	1411.1	1127.1	788.9	572.5	498.2	507.2	520.7
1999.4	20°	1931.8	1830.3	1641.0	1372.8	930.9	572.5	468.9	466.6	480.1	500.4
2130.1	22.5°	2028.7	1940.8	1690.6	1257.8	694.3	459.8	450.8	450.8	459.8	484.6
2220.3	25°	2136.9	2019.7	1715.4	1079.7	498.2	423.8	428.3	437.3	441.8	462.1
2301.4	27.5°	2220.3	2107.6	1722.1	865.6	405.7	392.2	403.5	414.8	421.5	437.3
2378.1	30°	2296.9	2218.0	1686.1	644.7	371.9	365.2	369.7	385.5	399.0	412.5
2452.5	32.5°	2393.9	2281.2	1602.7	457.6	351.6	340.4	338.1	344.9	360.7	376.4
2531.4	35°	2493.0	2387.1	1469.7	367.4	333.6	317.8	308.8	302.1	308.8	320.1
2648.6	37.5°	2637.3	2547.1	1302.9	338.1	320.1	297.5	279.5	263.7	252.5	250.2
2801.9	40°	2842.4	2727.5	1088.7	317.8	304.3	277.3	250.2	223.2	198.4	182.6
3099.4	42.5°	3153.5	2993.5	856.6	306.6	293.0	254.7	216.4	178.1	146.5	130.7
3516.4	45°	3597.6	3345.1	628.9	295.3	279.5	227.7	178.1	133.0	101.4	92.4
4289.6	47.5°	4267.0	3768.9	450.8	277.3	261.5	198.4	139.8	94.7	74.4	69.9
5238.6	50°	5141.6	4271.5	351.6	257.0	238.9	166.8	103.7	69.9	58.6	56.4
6252.9	52.5°	6059.1	4778.7	308.8	238.9	205.1	133.0	76.6	56.4	49.6	47.3
7165.8	55°	6843.5	5105.6	268.2	211.9	164.6	99.2	60.9	49.6	42.8	36.1
8177.9	57.5°	7636.9	5270.1	211.9	175.8	121.7	74.4	51.8	42.8	36.1	29.3
9178.7	60°	8281.6	5387.3	151.0	130.7	85.7	58.6	45.1	38.3	29.3	22.5
10121.0	62.5°	8705.4	5051.5	110.5	99.2	63.1	49.6	38.3	31.6	22.5	15.8
10504.2	65°	8495.7	4587.1	85.7	69.9	47.3	38.3	31.6	22.5	15.8	9.0
9708.5	67.5°	7623.4	3737.3	69.9	51.8	36.1	29.3	24.8	18.0	9.0	2.3
7490.4	70°	5687.1	2738.7	56.4	38.3	29.3	22.5	18.0	11.3	4.5	2.3
4242.2	72.5°	3110.7	1499.0	45.1	31.6	22.5	18.0	13.5	9.0	4.5	0.0
1447.1	75°	1027.9	399.0	33.8	22.5	13.5	11.3	9.0	6.8	2.3	0.0
338.1	77.5°	248.0	103.7	27.0	20.3	11.3	6.8	4.5	2.3	2.3	0.0
99.2	80°	76.6	42.8	20.3	13.5	9.0	6.8	2.3	0.0	0.0	0.0
45.1	82.5°	31.6	20.3	9.0	9.0	6.8	2.3	0.0	0.0	0.0	0.0
20.3	85°	15.8	11.3	6.8	4.5	4.5	2.3	0.0	0.0	0.0	0.0
11.3	87.5°	11.3	4.5	2.3	2.3	0.0	0.0	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

(END O





<u>180°</u>
1537.3
1395.3
1338.9
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504.9
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464.3
444.1
412.5
376.4
329.1
257.0
184.8
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72.1
58.6
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