

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: P574615

Luminaire Tested: **EPH-VN-03-740-U-T2**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P574615  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 10/19/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-VN-03-740-U-T2  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T2 distribution lens  
Light Source: (48) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

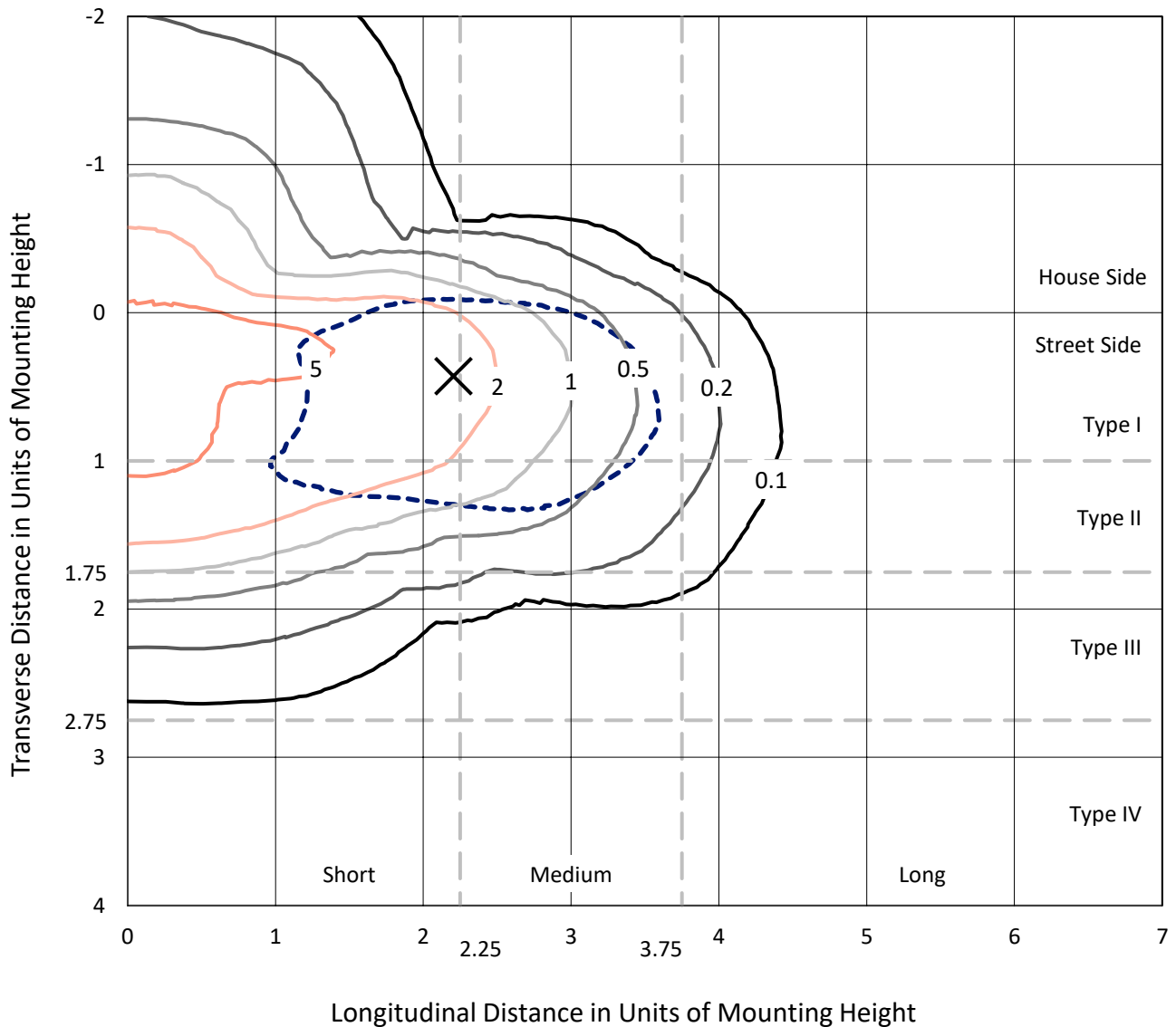
Lumens per Lamp: N/A  
Luminaire Lumens: 26940.8 lumens  
Efficiency: N/A  
Efficacy: 116.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4

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

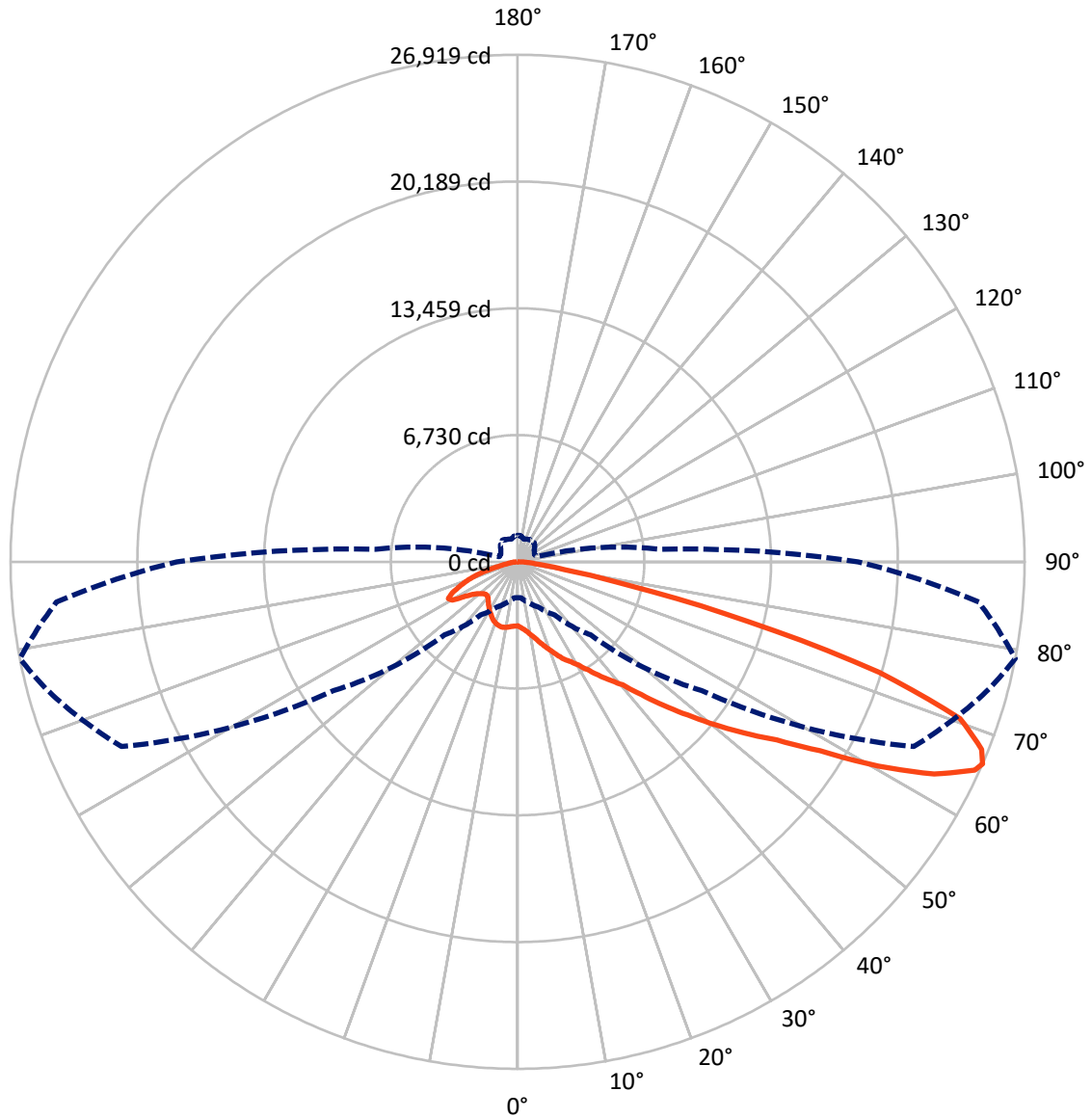
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 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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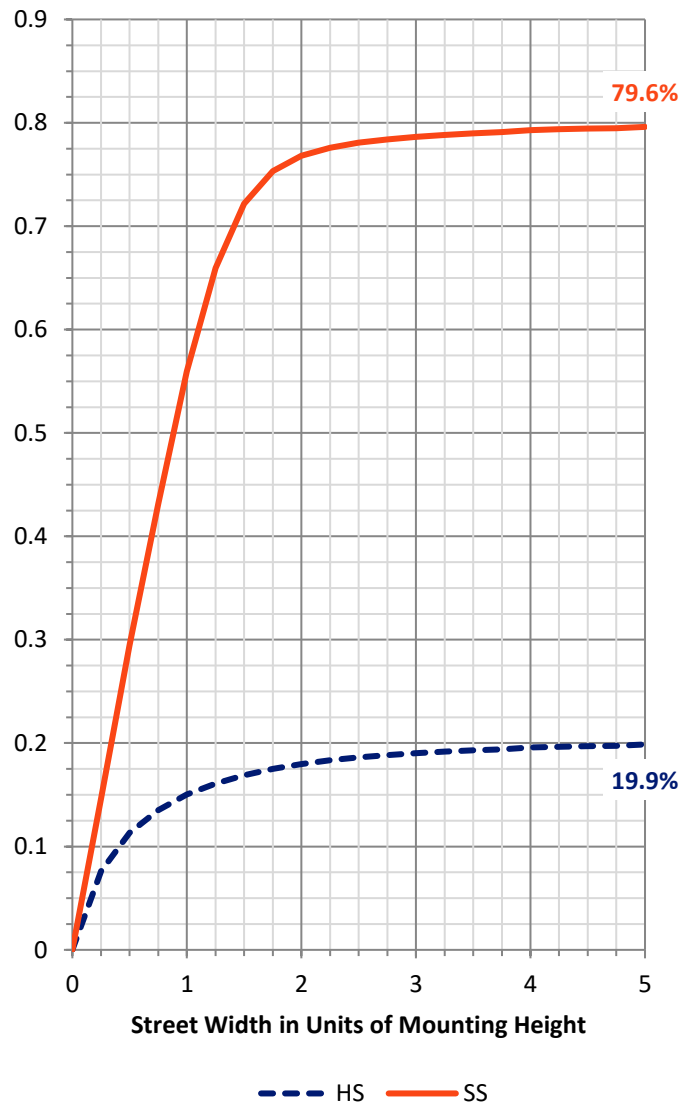
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5440.3	0.0	5440.3
	% Fixture	20.2	0.0	20.2
<b>Street Side</b>	Lumens	21500.5	0.0	21500.5
	% Fixture	79.8	0.0	79.8
<b>Total</b>	Lumens	26940.8	0.0	26940.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	334.5	1.2
10°-20°	1032.9	3.8
20°-30°	1773.1	6.6
30°-40°	2739.0	10.2
40°-50°	4387.2	16.3
50°-60°	6550.5	24.3
60°-70°	6730.6	25.0
70°-80°	2983.6	11.1
80°-90°	409.4	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°	26940.8	100.0
0°-180°	26940.8	100.0

**Coefficient of Utilization**

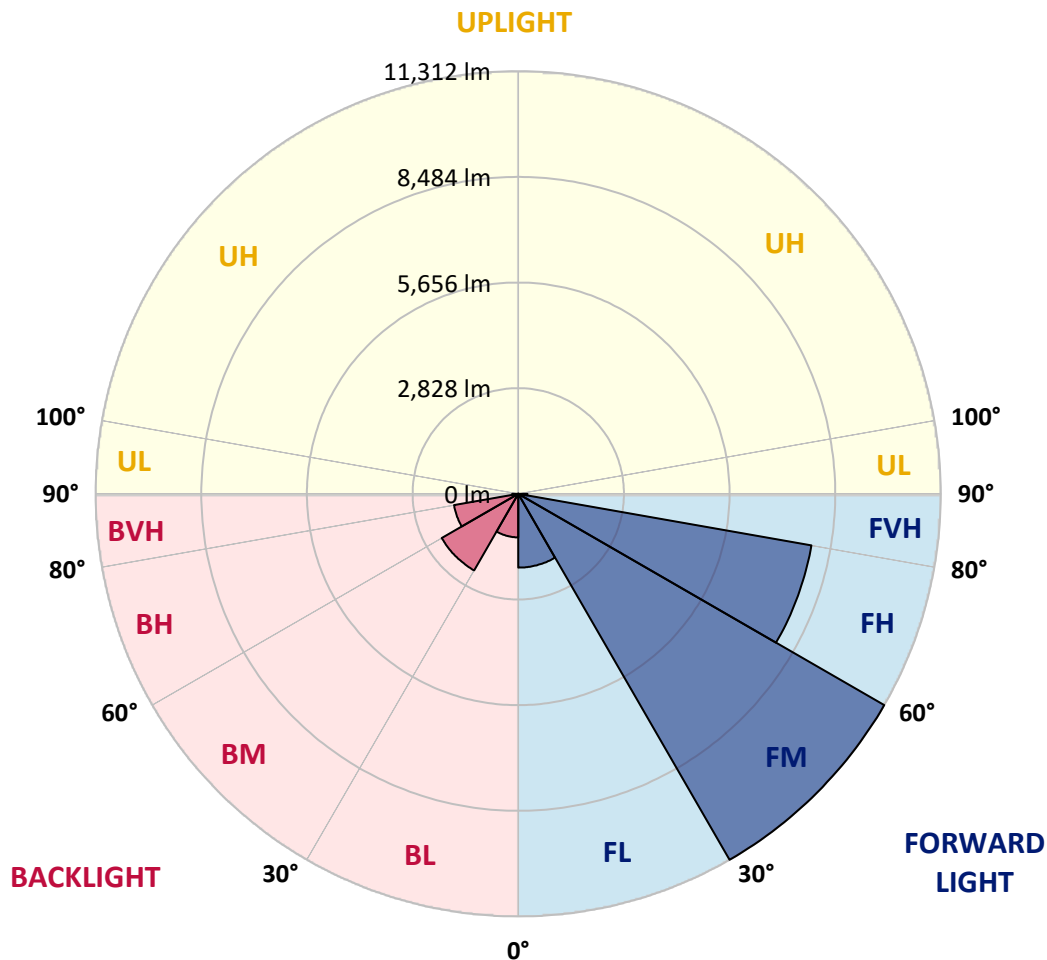


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1974.9	7.3			
FM (30°-60°)	11311.5	42.0			
FH (60°-80°)	7968.5	29.6			G4/12000
FVH (80°-90°)	245.5	0.9			G3/500
BL (0°-30°)	1165.6	4.3	B3/2500		
BM (30°-60°)	2365.2	8.8	B2/2500		
BH (60°-80°)	1745.7	6.5	B3/2500		G3/2500
BVH (80°-90°)	163.8	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°	3401.9	3401.9	3401.9	3401.9	3401.9	3401.9	3401.9	3401.9	3401.9	3401.9
2.5°	3618.2	3621.2	3621.2	3609.3	3612.3	3621.2	3588.6	3517.4	3517.4	3505.6
5°	3840.4	3825.6	3804.9	3807.8	3796.0	3796.0	3760.4	3692.3	3633.0	3609.3
7.5°	3870.1	3884.9	3881.9	3917.5	3935.3	3935.3	3953.0	3896.7	3807.8	3751.5
10°	3929.3	3890.8	3887.9	3970.8	3997.5	4059.7	4130.8	4101.2	4027.1	3947.1
12.5°	3964.9	3988.6	3988.6	4030.1	4092.3	4184.2	4308.6	4364.9	4249.4	4166.4
15°	4018.2	3985.6	4080.5	4116.0	4234.6	4299.8	4477.6	4622.8	4545.7	4445.0
17.5°	4041.9	4021.2	4074.5	4139.7	4341.2	4439.0	4655.4	4856.9	4791.7	4726.5
20°	4163.4	4160.5	4184.2	4237.5	4382.7	4575.3	4845.0	5123.6	5147.3	5028.7
22.5°	4459.8	4421.3	4421.3	4400.5	4462.7	4661.3	5025.8	5411.0	5517.7	5378.4
25°	4732.4	4785.7	4753.1	4658.3	4634.6	4738.3	5156.2	5716.2	5858.5	5728.1
27.5°	5082.1	5099.8	5156.2	5028.7	4865.7	4898.3	5298.4	5888.1	6181.5	6006.6
30°	5585.8	5553.2	5541.4	5399.1	5185.8	5141.3	5461.4	6140.0	6605.2	6359.3
32.5°	5926.6	6006.6	6003.7	5808.1	5550.3	5452.5	5662.9	6377.0	7058.6	6830.4
35°	6602.2	6685.2	6620.0	6332.6	6030.3	5834.7	5953.3	6685.2	7577.2	7399.4
37.5°	7464.6	7660.1	7520.9	6990.4	6563.7	6350.4	6356.3	7020.1	8107.6	7962.4
40°	8060.2	8323.9	8131.3	7633.5	7180.1	6978.6	6898.6	7417.2	8741.8	8587.7
42.5°	8798.1	9017.3	8916.6	8424.7	7894.2	7722.4	7562.4	8080.9	9710.8	9639.6
45°	9604.1	9707.8	9675.2	9364.0	8774.3	8715.1	8362.4	8955.1	10851.6	10881.3
47.5°	10353.8	10410.1	10472.3	10247.1	9879.7	9930.0	9284.0	9891.5	11959.9	12155.5
50°	10546.4	10739.0	10884.2	11035.4	11115.4	11456.1	10300.5	11041.3	13234.1	13613.4
52.5°	10350.8	10336.0	10777.5	11251.7	12051.8	12765.9	11684.3	12469.6	14360.2	15109.9
55°	9461.8	9432.2	10143.4	10771.6	12333.3	13494.9	13660.8	14372.0	15720.3	16695.3
57.5°	7906.1	7722.4	8498.8	9530.0	11722.8	13574.9	15646.3	17196.1	17812.4	18923.7
60°	5313.2	5236.2	5980.0	7209.7	9518.1	12440.0	16834.5	20731.3	20760.9	22011.4
62.5°	3271.5	3286.3	3763.4	4685.0	6664.5	9861.9	16321.9	23555.3	23561.2	24814.7
65°	2139.5	2148.4	2533.6	3043.3	4163.4	6688.2	13497.9	23777.6	25508.1	26672.7
66°	1905.4	1908.4	2240.3	2655.1	3449.3	5473.2	11921.4	23199.7	25946.7	26918.7
67.5°	1606.1	1644.6	1911.3	2231.4	2690.7	3932.3	9458.9	21528.4	25721.5	26574.9
70°	1256.4	1277.2	1487.6	1813.5	2018.0	2275.8	5621.4	17548.7	23543.5	24927.3
72.5°	1007.5	1025.3	1185.3	1472.8	1638.7	1499.4	3061.1	12733.3	18597.7	20073.4
75°	850.5	853.4	930.5	1158.7	1348.3	1126.1	1629.8	8172.8	11933.2	12620.7
77.5°	687.5	699.3	752.7	883.1	1084.6	886.0	972.0	4578.3	5991.8	6042.2
80°	560.1	566.0	598.6	643.0	826.8	654.9	657.9	2234.3	2569.2	2509.9
82.5°	441.5	447.5	486.0	477.1	607.5	468.2	408.9	1075.7	1182.4	1158.7
85°	248.9	248.9	382.3	382.3	385.2	296.3	248.9	506.7	625.3	583.8
87.5°	80.0	83.0	115.6	121.5	192.6	133.3	121.5	189.7	296.3	260.8
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°
3401.9	0°	3401.9	3401.9	3401.9	3401.9	3401.9	3401.9	3401.9	3401.9	3401.9	3401.9
3484.8	2.5°	3473.0	3425.6	3404.8	3336.7	3318.9	3274.5	3253.7	3227.0	3218.1	3179.6
3547.1	5°	3499.7	3484.8	3401.9	3315.9	3250.7	3221.1	3176.7	3117.4	3111.5	3058.1
3689.3	7.5°	3612.3	3561.9	3416.7	3324.8	3194.4	3120.4	3022.6	2992.9	2954.4	2936.6
3864.2	10°	3787.1	3659.7	3443.4	3212.2	3052.2	2963.3	2892.2	2871.4	2874.4	2862.6
4039.0	12.5°	3911.6	3790.1	3398.9	3117.4	2910.0	2824.0	2818.1	2838.8	2871.4	2856.6
4243.5	15°	4089.4	3861.2	3366.3	2960.3	2794.4	2770.7	2767.7	2830.0	2827.0	2827.0
4519.0	17.5°	4255.3	3932.3	3247.8	2824.0	2672.9	2690.7	2711.4	2708.5	2738.1	2749.9
4747.2	20°	4465.7	4015.3	3081.8	2687.7	2581.0	2575.1	2572.1	2575.1	2604.7	2622.5
5005.0	22.5°	4649.4	4033.1	2942.6	2557.3	2471.4	2447.7	2409.2	2447.7	2432.9	2438.8
5354.7	25°	4809.4	4036.0	2744.0	2459.5	2361.8	2308.4	2278.8	2275.8	2249.1	2246.2
5553.2	27.5°	4942.8	3935.3	2569.2	2323.2	2231.4	2181.0	2178.0	2145.4	2077.3	2032.8
5787.3	30°	5046.5	3858.2	2447.7	2204.7	2115.8	2106.9	2080.2	2006.2	1917.3	1861.0
6220.0	32.5°	5230.2	3704.1	2281.7	2083.2	2038.8	2026.9	1964.7	1899.5	1816.5	1763.2
6587.4	35°	5366.5	3561.9	2172.1	1979.5	1958.7	1935.0	1881.7	1810.6	1786.9	1775.0
6981.5	37.5°	5520.6	3401.9	2038.8	1890.6	1911.3	1866.9	1804.7	1772.1	1855.0	1834.3
7597.9	40°	5766.6	3289.3	1908.4	1837.2	1858.0	1807.6	1727.6	1715.8	1819.5	1745.4
8389.1	42.5°	6217.0	3286.3	1828.4	1757.2	1772.1	1733.5	1662.4	1656.5	1698.0	1609.1
9378.9	45°	6777.1	3390.0	1769.1	1698.0	1686.1	1680.2	1656.5	1629.8	1594.3	1478.7
10481.2	47.5°	7446.8	3558.9	1757.2	1609.1	1623.9	1674.3	1644.6	1576.5	1484.6	1410.5
11708.0	50°	8258.7	3908.6	1727.6	1543.9	1570.6	1650.6	1626.9	1532.0	1449.1	1401.6
12831.1	52.5°	9156.6	4350.1	1689.1	1443.1	1502.4	1629.8	1641.7	1552.8	1431.3	1389.8
14351.3	55°	10214.5	5002.1	1644.6	1333.5	1422.4	1609.1	1641.7	1493.5	1407.6	1407.6
16671.6	57.5°	12303.6	6175.5	1552.8	1232.7	1351.3	1570.6	1594.3	1496.5	1410.5	1410.5
20272.0	60°	15367.7	8006.9	1377.9	1155.7	1283.1	1517.2	1558.7	1452.0	1377.9	1395.7
23235.3	62.5°	17765.0	8564.0	1229.8	1081.6	1215.0	1419.4	1511.3	1404.6	1339.4	1404.6
24592.5	65°	18277.7	8000.9	1078.6	1001.6	1120.1	1324.6	1443.1	1336.5	1283.1	1410.5
24574.7	66°	18093.9	7562.4	1025.3	977.9	1078.6	1277.2	1401.6	1312.7	1253.5	1404.6
24017.6	67.5°	17276.1	6904.5	966.0	927.5	1022.3	1209.0	1354.2	1280.1	1206.1	1386.8
21990.7	70°	15498.1	5855.5	865.3	838.6	942.3	1096.4	1244.6	1197.2	1132.0	1277.2
17296.8	72.5°	11936.2	4679.1	758.6	761.6	850.5	980.9	1134.9	1102.3	1046.0	1120.1
10596.8	75°	7269.0	2990.0	660.8	666.7	740.8	871.2	1031.2	1007.5	939.4	980.9
4898.3	77.5°	3221.1	1481.7	557.1	569.0	628.2	767.5	897.9	859.4	788.2	797.1
1991.3	80°	1250.5	702.3	453.4	468.2	506.7	613.4	743.8	708.2	646.0	634.1
915.7	82.5°	601.6	391.2	349.7	355.6	370.4	488.9	640.1	595.6	512.7	459.3
429.7	85°	302.3	243.0	246.0	225.2	246.0	331.9	432.6	361.5	299.3	266.7
154.1	87.5°	121.5	121.5	121.5	103.7	109.6	157.1	201.5	136.3	124.5	74.1
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>
3401.9
3215.2
3052.2
2975.2
2844.8
2877.4
2824.0
2770.7
2607.7
2456.6
2246.2
2038.8
1861.0
1754.3
1783.9
1843.2
1727.6
1582.4
1449.1
1395.7
1392.8
1383.9
1401.6
1398.7
1392.8
1410.5
1416.5
1407.6
1360.2
1229.8
1090.5
966.0
791.2
628.2
459.3
272.6
74.1
0.0

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