

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: P574687

Luminaire Tested: **EPH-VN-07-730-U-T3**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P574687  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 10/19/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-VN-07-730-U-T3  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T3 distribution lens  
Light Source: (112) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

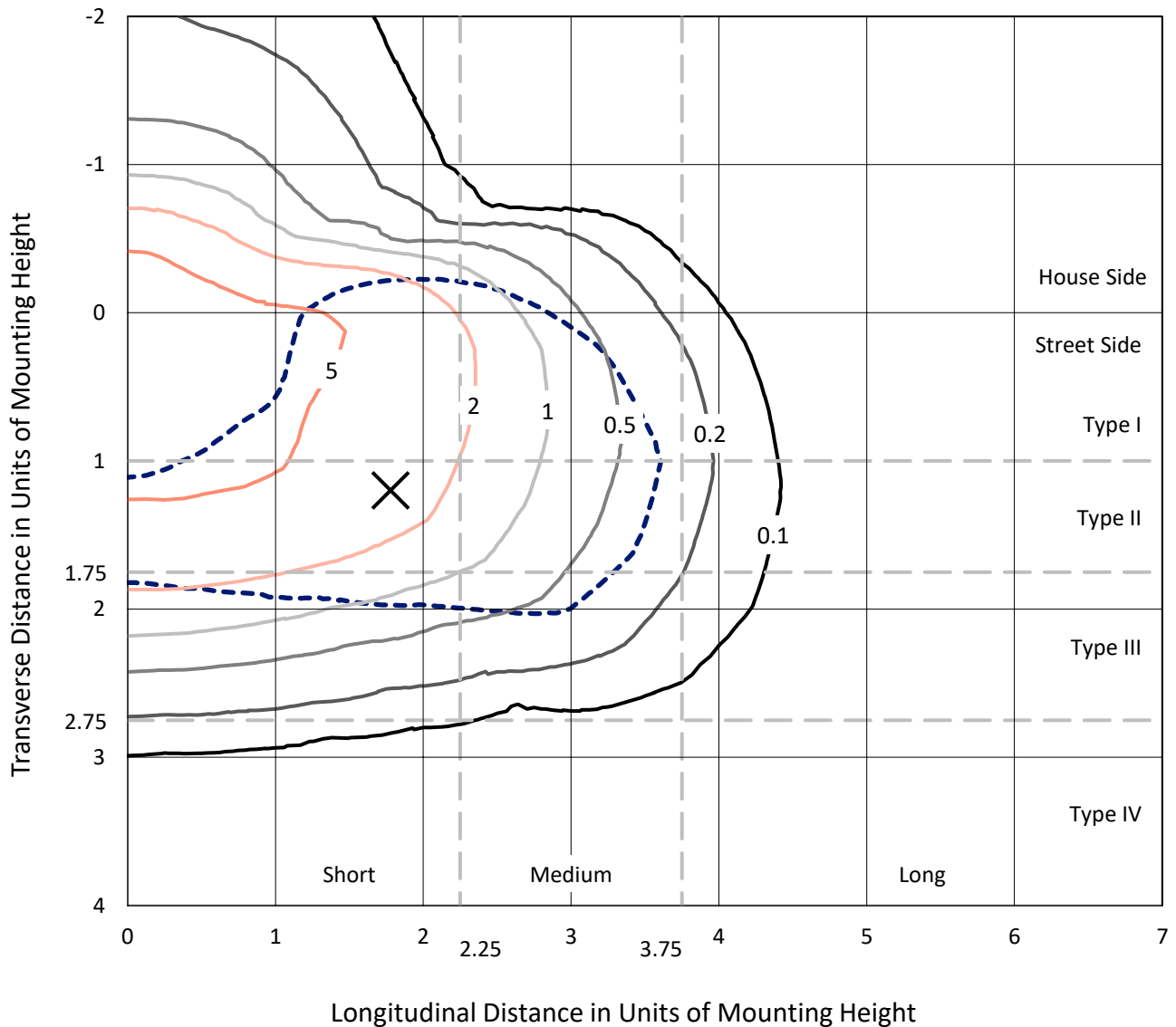
Lumens per Lamp: N/A  
Luminaire Lumens: 52356.7 lumens  
Efficiency: N/A  
Efficacy: 98.3 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G5

Input Watts (W): 532.7  
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

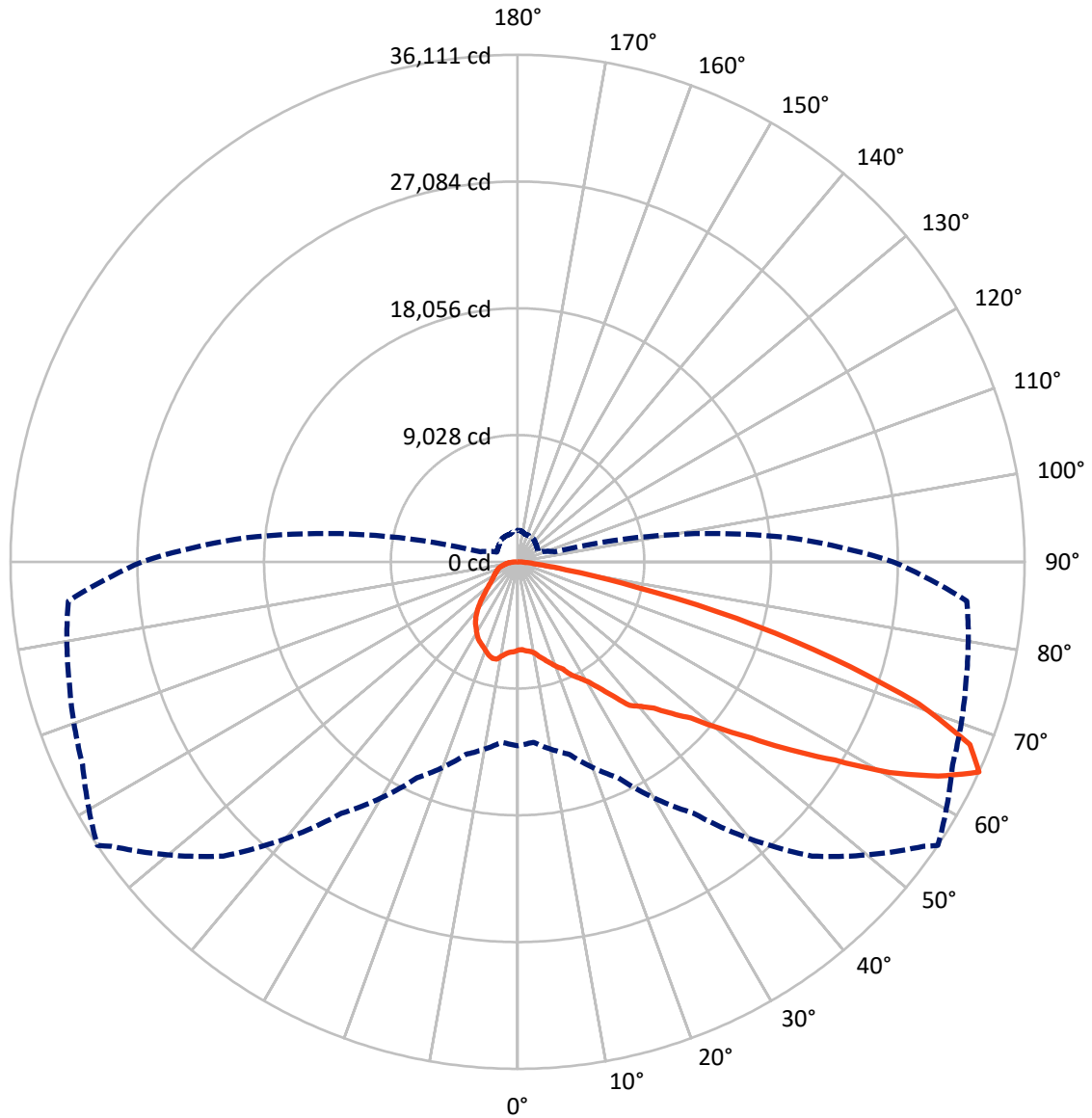
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.1 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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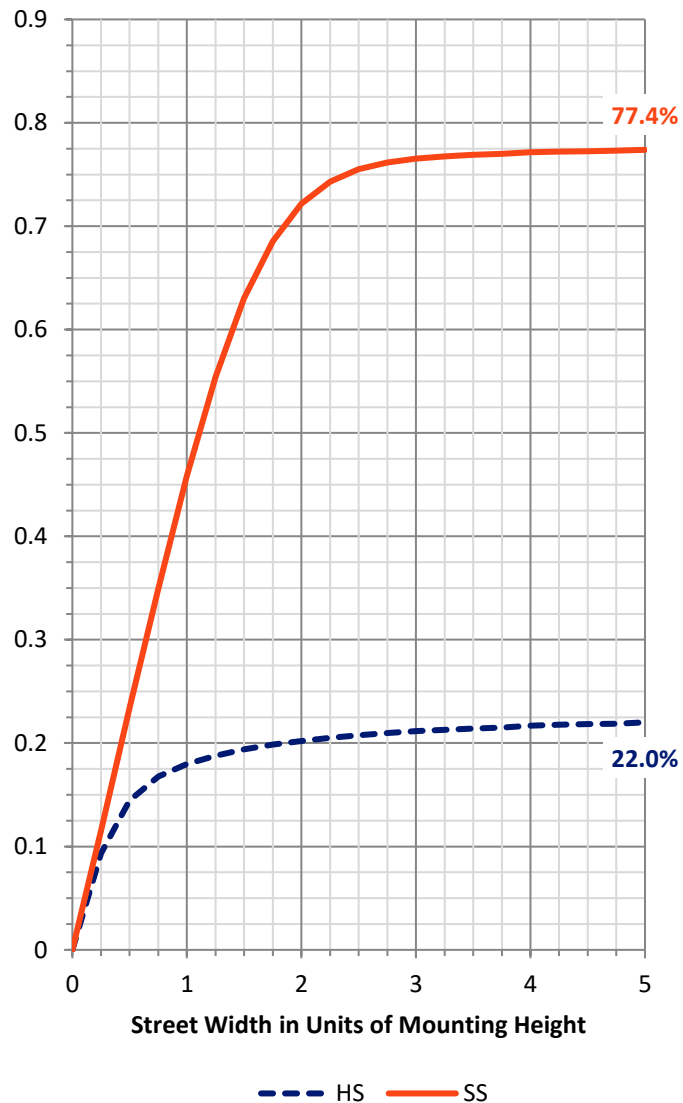
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11741.9	0.0	11741.9
	% Fixture	22.4	0.0	22.4
<b>Street Side</b>	Lumens	40614.8	0.0	40614.8
	% Fixture	77.6	0.0	77.6
<b>Total</b>	Lumens	52356.7	0.0	52356.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	622.7	1.2
10°-20°	2022.2	3.9
20°-30°	3600.6	6.9
30°-40°	5391.8	10.3
40°-50°	7988.6	15.3
50°-60°	12309.3	23.5
60°-70°	13935.6	26.6
70°-80°	5783.4	11.0
80°-90°	702.6	1.3
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°	52356.7	100.0
0°-180°	52356.7	100.0

**Coefficient of Utilization**

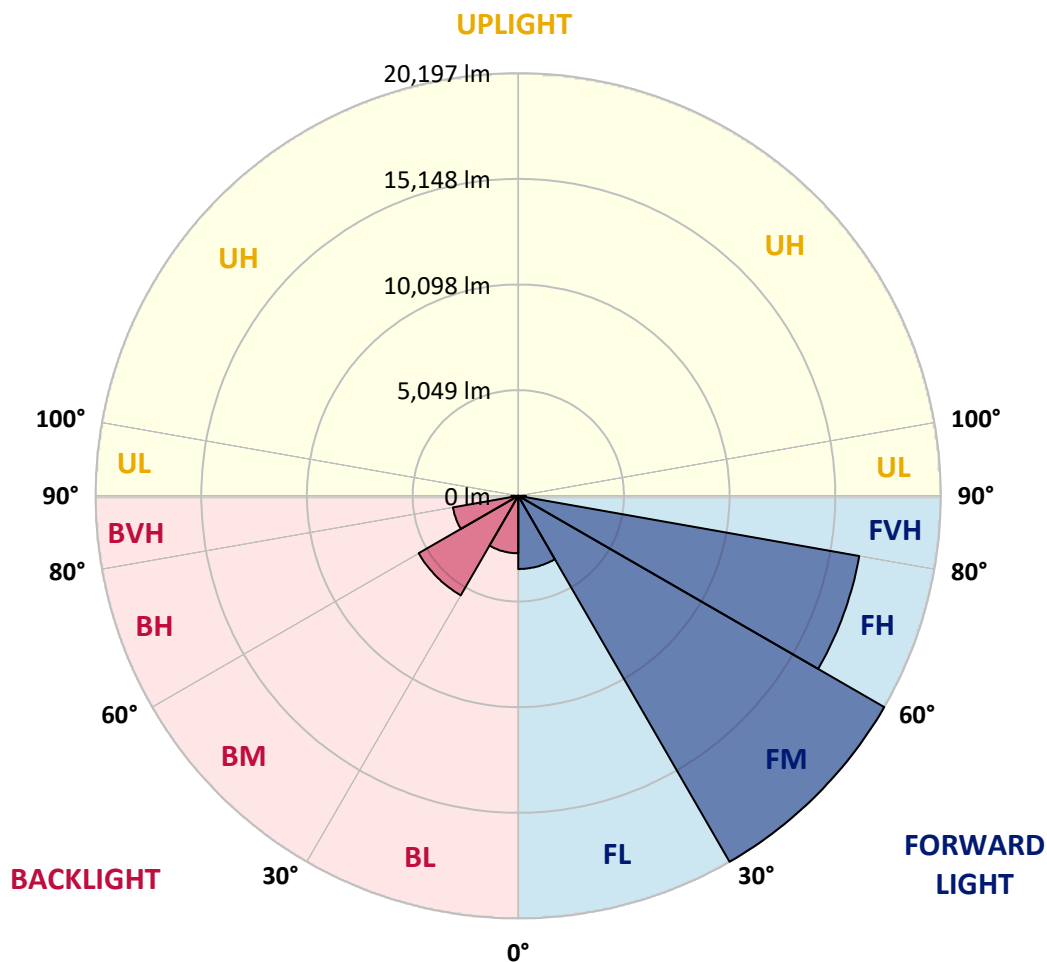


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3499.0	6.7			
FM (30°-60°)	20196.9	38.6			
FH (60°-80°)	16548.3	31.6			G5
FVH (80°-90°)	370.6	0.7			G3/500
BL (0°-30°)	2746.5	5.2	B4/5000		
BM (30°-60°)	5492.7	10.5	B4/8500		
BH (60°-80°)	3170.7	6.1	B4/5000		G4/5000
BVH (80°-90°)	332.0	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	6284.3	6284.3	6284.3	6284.3	6284.3	6284.3	6284.3	6284.3	6284.3	6284.3
2.5°	6119.9	6152.8	6130.9	6196.6	6251.4	6251.4	6295.3	6262.4	6306.2	6366.5
5°	6322.7	6191.2	6262.4	6295.3	6278.8	6306.2	6262.4	6372.0	6300.7	6415.8
7.5°	6372.0	6421.3	6481.5	6426.8	6476.1	6448.7	6454.1	6437.7	6399.4	6492.5
10°	6733.6	6662.3	6799.3	6717.1	6706.2	6695.2	6673.3	6591.1	6684.3	6689.7
12.5°	7150.0	7084.2	7078.7	7013.0	7100.7	6941.8	6974.6	6930.8	6947.2	6969.2
15°	7451.3	7423.9	7549.9	7473.2	7358.2	7286.9	7363.6	7243.1	7303.4	7292.4
17.5°	8048.5	8043.0	7949.9	7823.9	7758.1	7654.0	7637.6	7588.3	7632.1	7610.2
20°	8464.9	8525.2	8541.6	8393.7	8141.6	8026.6	7999.2	7960.8	8010.2	7993.7
22.5°	9100.5	9007.3	9078.5	8821.0	8727.9	8453.9	8355.3	8300.5	8536.1	8475.9
25°	9505.9	9604.5	9533.3	9445.6	9237.4	8897.7	8826.5	8947.0	9040.2	8974.4
27.5°	10420.9	10322.3	10256.5	9993.5	9856.5	9500.4	9418.2	9374.4	9396.3	9434.7
30°	11116.7	11171.5	11023.5	10837.3	10492.1	10130.5	9938.7	9900.4	9823.7	9757.9
32.5°	12108.4	12026.2	11938.5	11818.0	11522.1	11045.5	10859.2	10716.7	10486.6	10179.8
35°	12585.0	12820.6	12754.9	12431.6	12207.0	12026.2	11971.4	11752.2	11560.5	11078.3
37.5°	13379.5	13478.1	13385.0	13280.9	13176.8	12985.0	12919.2	12979.5	12601.5	11807.0
40°	13894.5	14102.7	14294.5	14004.1	13982.2	14020.5	13615.1	13543.8	12765.8	12349.4
42.5°	14946.4	15034.1	15072.5	15061.5	15187.5	15187.5	14415.0	14261.6	13708.2	13368.5
45°	16338.1	16409.3	16546.3	16644.9	16502.5	16573.7	15472.4	15412.1	14919.0	14853.3
47.5°	17543.4	17713.3	18020.1	18310.5	18496.8	18255.7	17050.3	16623.0	16497.0	16891.5
50°	18595.4	18392.7	19110.4	19406.3	20222.6	20622.6	18792.6	18622.8	18420.1	19176.2
52.5°	18699.5	18973.4	19987.0	20578.8	22260.8	23000.4	20929.4	20858.2	20611.6	21482.8
55°	19444.6	19411.7	20430.8	21712.9	23712.7	24956.4	23712.7	23668.9	23131.9	23959.2
57.5°	19318.6	19652.8	20458.2	22249.8	25022.1	27054.8	26939.8	26638.4	25887.8	26561.7
60°	18891.3	18978.9	19959.6	22233.4	25783.7	29208.0	30424.3	30484.6	28950.5	29487.4
62.5°	16469.6	16672.3	17916.0	20485.6	25241.3	30692.8	33826.7	33613.1	32385.8	31772.1
65°	13100.1	12897.3	14190.4	16968.2	21866.3	29640.9	35317.0	36111.4	34182.9	33059.7
67.5°	8032.1	7982.8	9226.5	11675.5	16360.0	25224.9	34128.1	34747.2	33684.3	32785.7
70°	4136.6	4010.6	4788.6	6514.4	10283.9	18507.7	29701.1	30309.3	31322.9	29405.3
72.5°	1928.6	1901.2	2317.6	3205.2	5237.8	10881.1	23000.4	23438.7	25575.5	24792.0
75°	1134.1	1150.6	1386.2	1676.5	2553.2	5128.3	15264.2	16113.4	18431.0	17866.7
77.5°	849.2	849.2	986.2	1167.0	1490.3	1983.4	7533.5	8656.7	10777.0	9692.2
80°	624.6	635.6	756.1	876.6	1035.5	1024.6	2991.5	3506.5	4942.0	4224.2
82.5°	487.6	504.1	586.2	652.0	728.7	619.1	1227.3	1320.4	2032.7	1616.3
85°	339.7	350.6	460.2	443.8	443.8	345.2	509.5	536.9	805.4	767.0
87.5°	82.2	93.1	224.6	246.6	186.3	104.1	158.9	180.8	290.4	334.2
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°
6284.3	0°	6284.3	6284.3	6284.3	6284.3	6284.3	6284.3	6284.3	6284.3	6284.3	6284.3
6393.9	2.5°	6311.7	6333.6	6426.8	6377.4	6404.8	6289.8	6382.9	6306.2	6372.0	6339.1
6443.2	5°	6487.0	6437.7	6492.5	6454.1	6454.1	6498.0	6563.7	6514.4	6613.0	6569.2
6481.5	7.5°	6558.2	6563.7	6596.6	6602.1	6574.7	6711.7	6717.1	6700.7	6793.8	6771.9
6744.5	10°	6733.6	6739.0	6799.3	6832.2	6804.8	6854.1	6799.3	6755.5	6750.0	6728.1
6952.7	12.5°	7013.0	7067.8	7056.8	7084.2	7089.7	6881.5	6755.5	6541.8	6514.4	6541.8
7259.5	15°	7270.5	7248.6	7259.5	7314.3	7084.2	6750.0	6525.4	6344.6	6355.5	6361.0
7659.5	17.5°	7577.3	7593.8	7610.2	7358.2	6936.3	6541.8	6344.6	6344.6	6289.8	6311.7
7938.9	20°	7928.0	7862.2	7719.8	7363.6	6678.8	6300.7	6240.5	6240.5	6174.7	6130.9
8240.3	22.5°	8201.9	8070.4	7856.7	7193.8	6448.7	6207.6	6059.7	5955.6	5878.9	5791.2
8574.5	25°	8377.2	8306.0	7889.6	7018.5	6278.8	5961.0	5741.9	5583.0	5484.4	5369.3
8837.5	27.5°	8645.7	8508.7	7982.8	6815.8	6092.5	5714.5	5374.8	5128.3	4942.0	4821.4
9237.4	30°	9007.3	8810.1	7917.0	6525.4	5807.6	5287.1	4887.2	4569.4	4355.7	4257.1
9615.5	32.5°	9303.2	9045.7	7862.2	6262.4	5489.9	4854.3	4322.9	3999.6	3879.1	3753.0
10251.0	35°	9867.5	9358.0	7823.9	6114.5	5205.0	4421.5	3862.6	3583.2	3429.8	3243.5
10629.1	37.5°	10300.3	9900.4	7730.7	5807.6	4837.9	3999.6	3512.0	3259.9	3029.8	2832.6
11505.7	40°	10979.7	10656.5	7736.2	5374.8	4405.0	3638.0	3238.0	2975.0	2684.7	2514.8
12804.2	42.5°	12256.3	11401.6	7769.1	5029.6	3917.4	3342.1	2991.5	2679.2	2388.8	2246.3
14283.5	45°	13823.3	12426.1	7566.4	4717.3	3418.8	3062.7	2695.6	2383.3	2197.0	2092.9
16294.3	47.5°	15625.8	13428.8	7292.4	4131.1	3002.4	2766.8	2421.7	2240.9	2103.9	2043.6
18885.8	50°	17642.1	14864.3	7215.7	3594.2	2679.2	2514.8	2290.2	2153.2	2060.1	1988.8
21806.0	52.5°	20239.1	16535.3	7062.3	3040.8	2399.8	2312.1	2240.9	2147.7	2065.5	2005.3
24529.0	55°	22721.0	18387.2	6897.9	2586.0	2202.5	2213.5	2251.8	2169.6	2098.4	2005.3
27580.8	57.5°	25515.2	20277.4	6289.8	2251.8	2054.6	2164.2	2240.9	2147.7	2076.5	2005.3
30703.8	60°	27241.1	21340.3	5100.9	1961.4	1923.1	2071.0	2175.1	2076.5	1999.8	2027.2
32139.2	62.5°	27942.4	20781.5	3846.2	1780.6	1830.0	1945.0	2071.0	2032.7	1977.9	2082.0
32122.8	65°	26748.0	19493.9	2750.4	1627.2	1703.9	1819.0	1977.9	2021.7	2038.2	2240.9
29503.9	67.5°	23800.3	16973.6	2021.7	1501.2	1572.4	1742.3	2043.6	2114.9	2103.9	2355.9
24759.2	70°	19044.7	13275.4	1577.9	1397.1	1523.1	1802.6	2136.8	2136.8	2060.1	2355.9
18885.8	72.5°	13856.1	9358.0	1358.8	1276.6	1397.1	1654.6	2125.8	2120.3	2021.7	2153.2
12026.2	75°	8388.2	5446.0	1199.9	1156.0	1199.9	1419.0	2032.7	1999.8	1862.8	1851.9
5785.7	77.5°	4180.4	2739.5	980.7	1024.6	1046.5	1188.9	1786.1	1835.4	1649.1	1605.3
2284.7	80°	1764.2	1194.4	816.4	882.1	882.1	1002.6	1484.8	1517.7	1369.7	1287.5
904.0	82.5°	805.4	684.9	695.8	767.0	717.7	778.0	1178.0	1216.3	1112.2	975.2
383.5	85°	339.7	389.0	531.5	602.7	531.5	504.1	810.9	854.7	723.2	602.7
164.4	87.5°	153.4	213.7	334.2	438.3	268.5	235.6	432.8	449.3	361.6	268.5
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>
6284.3
6278.8
6508.9
6739.0
6728.1
6552.8
6437.7
6317.2
6065.1
5741.9
5391.2
4876.2
4311.9
3747.6
3227.1
2838.1
2531.3
2257.3
2114.9
2032.7
1999.8
1999.8
1999.8
1999.8
2005.3
2054.6
2240.9
2372.4
2306.6
2076.5
1830.0
1577.9
1260.1
953.3
608.2
252.0
0.0

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