

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: P574622

Luminaire Tested: **EPH-VN-04-750-U-T2**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P574622
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-04-750-U-T2
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

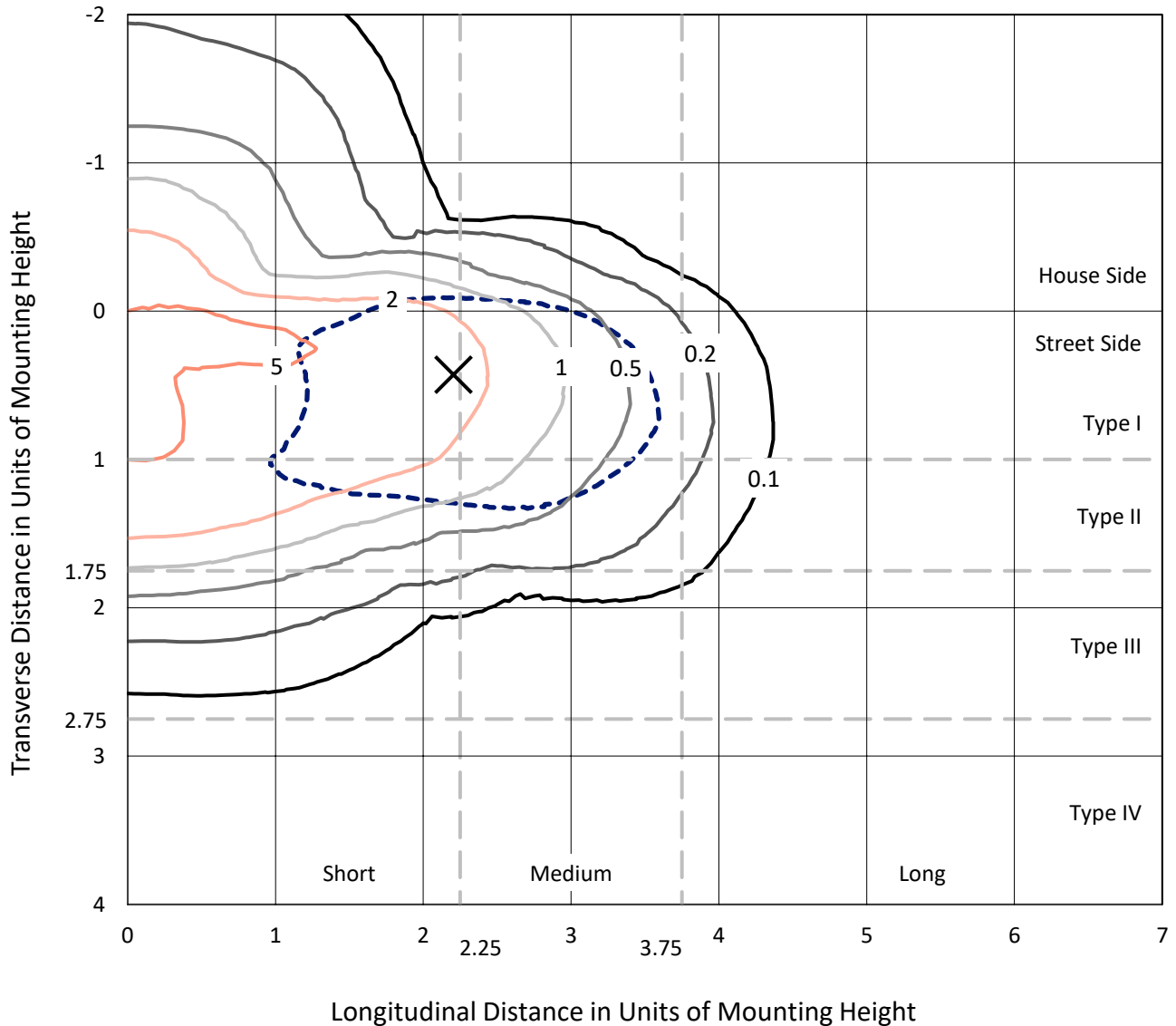
Lumens per Lamp: N/A
Luminaire Lumens: 35732.4 lumens
Efficiency: N/A
Efficacy: 117.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 303.8
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

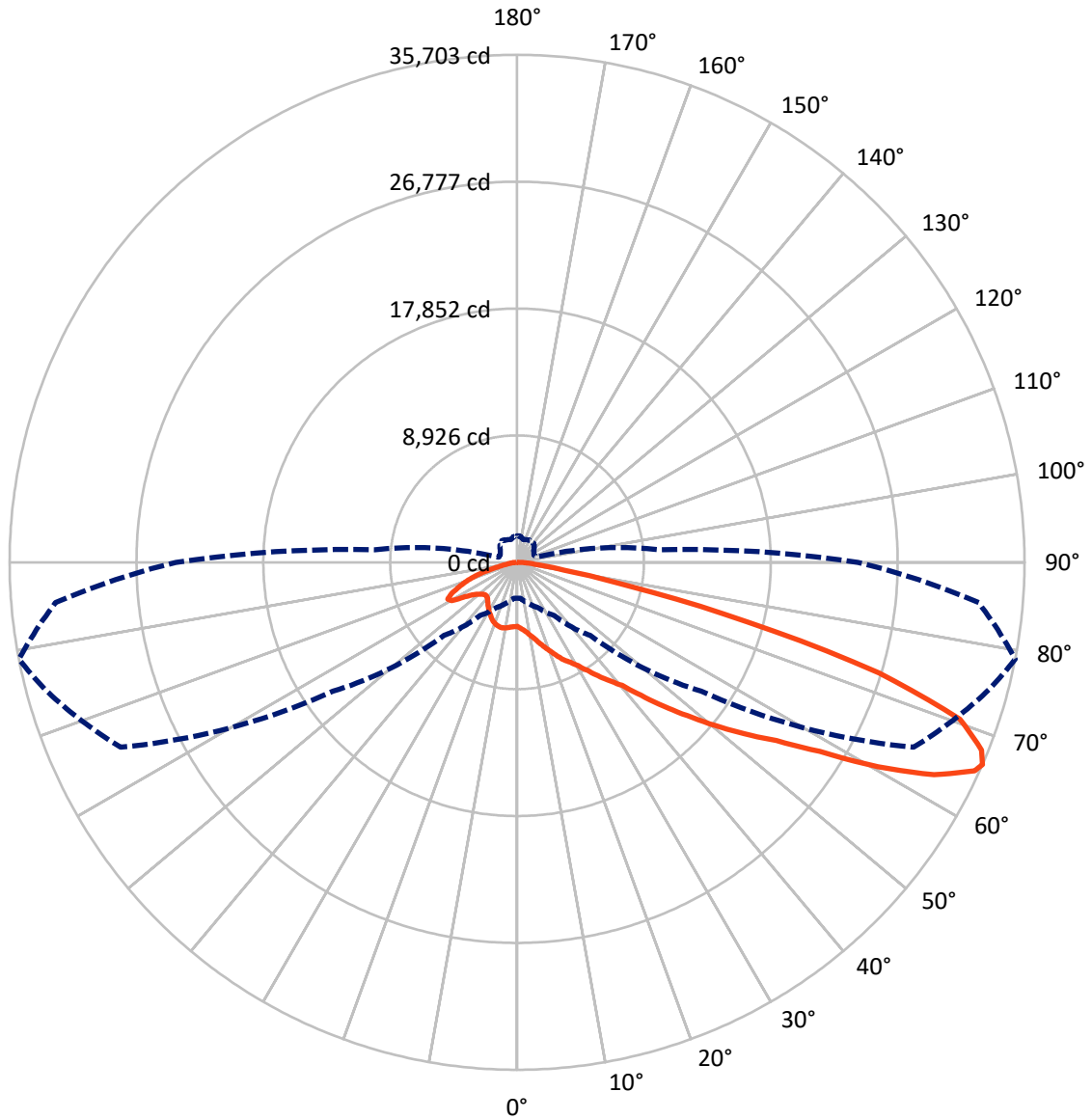
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.3 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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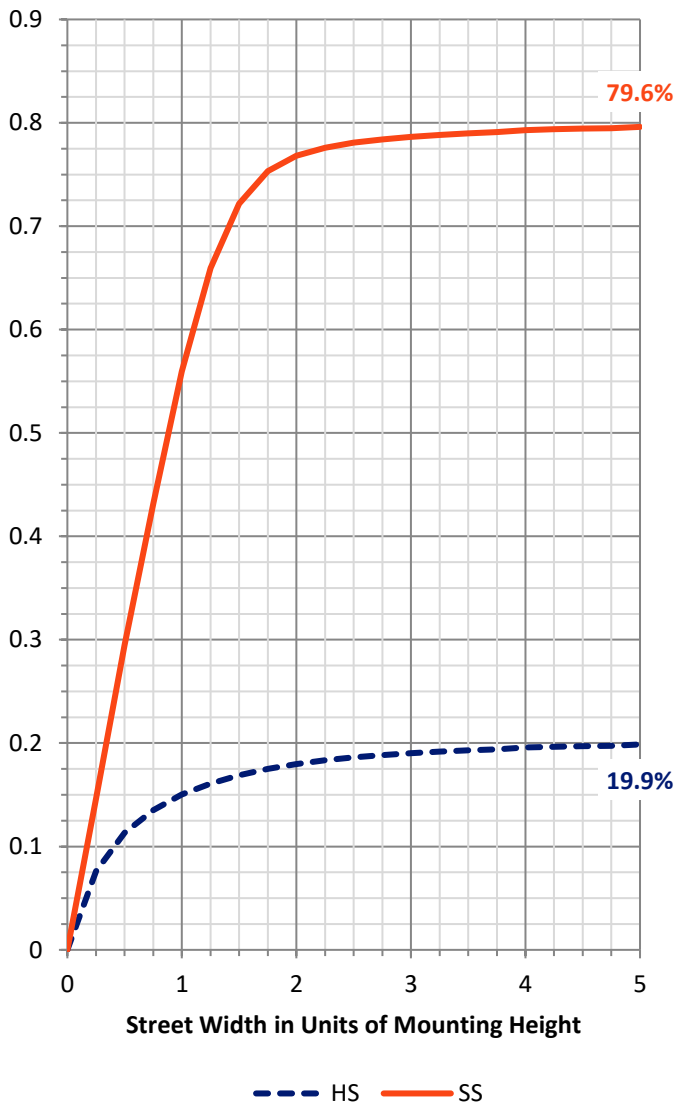
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7215.7	0.0	7215.7
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	28516.7	0.0	28516.7
	% Fixture	79.8	0.0	79.8
Total	Lumens	35732.4	0.0	35732.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	443.7	1.2
10°-20°	1370.0	3.8
20°-30°	2351.7	6.6
30°-40°	3632.9	10.2
40°-50°	5818.9	16.3
50°-60°	8688.1	24.3
60°-70°	8927.0	25.0
70°-80°	3957.2	11.1
80°-90°	543.0	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°	35732.4	100.0
0°-180°	35732.4	100.0

Coefficient of Utilization



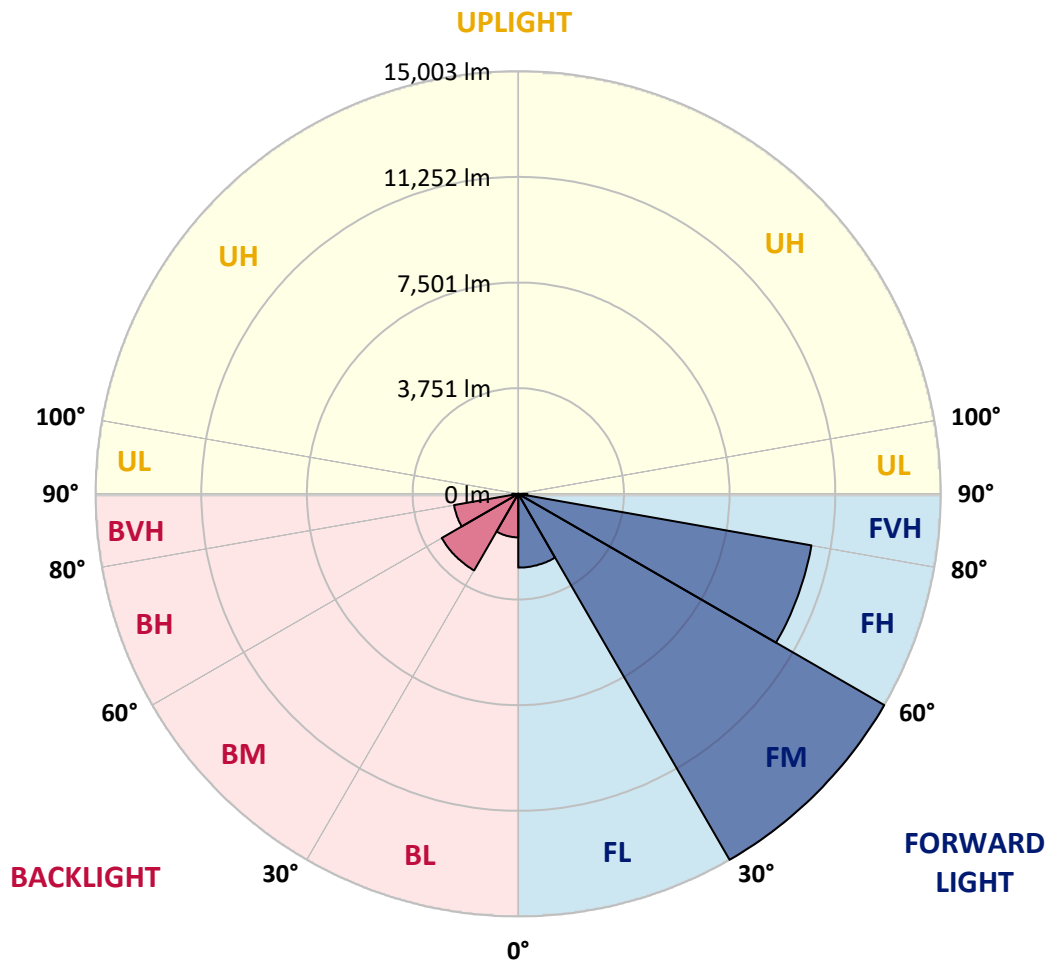
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2619.4	7.3			
FM (30°-60°)	15002.8	42.0			
FH (60°-80°)	10568.8	29.6			G4/12000
FVH (80°-90°)	325.6	0.9			G3/500
BL (0°-30°)	1545.9	4.3	B3/2500		
BM (30°-60°)	3137.0	8.8	B3/5000		
BH (60°-80°)	2315.4	6.5	B3/2500		G3/2500
BVH (80°-90°)	217.3	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°	4512.0	4512.0	4512.0	4512.0	4512.0	4512.0	4512.0	4512.0	4512.0	4512.0
2.5°	4798.9	4802.9	4802.9	4787.1	4791.1	4802.9	4759.6	4665.3	4665.3	4649.6
5°	5093.7	5074.0	5046.5	5050.5	5034.7	5034.7	4987.6	4897.2	4818.6	4787.1
7.5°	5133.0	5152.7	5148.7	5195.9	5219.5	5219.5	5243.1	5168.4	5050.5	4975.8
10°	5211.6	5160.5	5156.6	5266.6	5302.0	5384.5	5478.9	5439.6	5341.3	5235.2
12.5°	5258.8	5290.2	5290.2	5345.2	5427.8	5549.6	5714.7	5789.4	5636.1	5526.0
15°	5329.5	5286.3	5412.1	5459.2	5616.4	5702.9	5938.7	6131.3	6029.1	5895.5
17.5°	5361.0	5333.5	5404.2	5490.7	5757.9	5887.6	6174.5	6441.8	6355.3	6268.9
20°	5522.1	5518.2	5549.6	5620.4	5812.9	6068.4	6426.1	6795.5	6827.0	6669.8
22.5°	5915.1	5864.0	5864.0	5836.5	5919.1	6182.4	6665.8	7176.8	7318.3	7133.5
25°	6276.7	6347.5	6304.2	6178.5	6147.0	6284.6	6838.8	7581.6	7770.3	7597.3
27.5°	6740.5	6764.1	6838.8	6669.8	6453.6	6496.8	7027.4	7809.6	8198.7	7966.8
30°	7408.7	7365.4	7349.7	7161.1	6878.1	6819.1	7243.6	8143.6	8760.7	8434.5
32.5°	7860.6	7966.8	7962.8	7703.4	7361.5	7231.8	7510.8	8458.1	9362.0	9059.4
35°	8756.8	8866.8	8780.3	8399.1	7998.2	7738.8	7896.0	8866.8	10049.8	9814.0
37.5°	9900.5	10159.9	9975.2	9271.6	8705.7	8422.7	8430.5	9310.9	10753.4	10560.8
40°	10690.5	11040.3	10784.8	10124.5	9523.2	9255.9	9149.8	9837.6	11594.5	11390.1
42.5°	11669.1	11960.0	11826.3	11173.9	10470.4	10242.4	10030.2	10718.0	12879.7	12785.3
45°	12738.2	12875.7	12832.5	12419.8	11637.7	11559.1	11091.4	11877.4	14392.8	14432.2
47.5°	13732.6	13807.2	13889.8	13591.1	13103.7	13170.5	12313.7	13119.4	15862.8	16122.2
50°	13988.0	14243.5	14436.1	14636.5	14742.6	15194.6	13661.8	14644.4	17552.8	18055.9
52.5°	13728.6	13709.0	14294.6	14923.4	15984.6	16931.8	15497.3	16538.8	19046.4	20040.7
55°	12549.5	12510.2	13453.5	14286.7	16358.0	17898.7	18118.8	19062.1	20850.4	22143.4
57.5°	10486.1	10242.4	11272.2	12639.9	15548.4	18004.8	20752.1	22807.7	23625.2	25099.1
60°	7047.1	6944.9	7931.4	9562.5	12624.2	16499.5	22328.2	27496.5	27535.9	29194.4
62.5°	4339.1	4358.7	4991.5	6213.8	8839.3	13080.1	21648.2	31242.1	31250.0	32912.5
65°	2837.7	2849.5	3360.4	4036.4	5522.1	8870.7	17902.6	31536.9	33832.2	35376.9
66°	2527.2	2531.1	2971.3	3521.6	4574.9	7259.3	15811.7	30770.5	34413.9	35703.1
67.5°	2130.2	2181.3	2535.1	2959.5	3568.7	5215.5	12545.6	28553.8	34115.2	35247.1
70°	1666.5	1694.0	1973.0	2405.4	2676.6	3018.5	7455.8	23275.4	31226.4	33061.9
72.5°	1336.3	1359.9	1572.1	1953.4	2173.5	1988.7	4060.0	16888.6	24666.7	26624.0
75°	1128.0	1131.9	1234.1	1536.8	1788.3	1493.5	2161.7	10839.8	15827.4	16739.3
77.5°	911.8	927.6	998.3	1171.2	1438.5	1175.2	1289.1	6072.4	7947.1	8013.9
80°	742.8	750.7	793.9	852.9	1096.6	868.6	872.5	2963.5	3407.6	3329.0
82.5°	585.6	593.5	644.6	632.8	805.7	621.0	542.4	1426.7	1568.2	1536.8
85°	330.1	330.1	507.0	507.0	510.9	393.0	330.1	672.1	829.3	774.3
87.5°	106.1	110.0	153.3	161.1	255.5	176.9	161.1	251.5	393.0	345.9
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°
4512.0	0°	4512.0	4512.0	4512.0	4512.0	4512.0	4512.0	4512.0	4512.0	4512.0	4512.0
4622.1	2.5°	4606.3	4543.5	4515.9	4425.5	4402.0	4343.0	4315.5	4280.1	4268.3	4217.2
4704.6	5°	4641.7	4622.1	4512.0	4398.0	4311.6	4272.3	4213.3	4134.7	4126.8	4056.1
4893.3	7.5°	4791.1	4724.2	4531.7	4409.8	4236.9	4138.6	4008.9	3969.6	3918.5	3895.0
5125.1	10°	5023.0	4854.0	4567.0	4260.5	4048.2	3930.3	3836.0	3808.5	3812.4	3796.7
5357.0	12.5°	5188.0	5026.9	4508.1	4134.7	3859.6	3745.6	3737.7	3765.3	3808.5	3788.8
5628.2	15°	5423.8	5121.2	4464.8	3926.4	3706.3	3674.9	3670.9	3753.5	3749.5	3749.5
5993.7	17.5°	5643.9	5215.5	4307.6	3745.6	3545.2	3568.7	3596.2	3592.3	3631.6	3647.3
6296.4	20°	5923.0	5325.6	4087.5	3564.8	3423.3	3415.5	3411.5	3415.5	3454.8	3478.3
6638.3	22.5°	6166.7	5349.2	3902.8	3391.9	3277.9	3246.4	3195.4	3246.4	3226.8	3234.7
7102.1	25°	6378.9	5353.1	3639.5	3262.2	3132.5	3061.7	3022.4	3018.5	2983.1	2979.2
7365.4	27.5°	6555.8	5219.5	3407.6	3081.4	2959.5	2892.7	2888.8	2845.6	2755.2	2696.2
7675.9	30°	6693.3	5117.3	3246.4	2924.2	2806.3	2794.5	2759.1	2660.8	2542.9	2468.2
8249.8	32.5°	6937.0	4912.9	3026.3	2763.0	2704.1	2688.3	2605.8	2519.3	2409.3	2338.5
8737.1	35°	7117.8	4724.2	2880.9	2625.5	2597.9	2566.5	2495.8	2401.4	2370.0	2354.3
9259.8	37.5°	7322.2	4512.0	2704.1	2507.5	2535.1	2476.1	2393.6	2350.3	2460.4	2432.9
10077.4	40°	7648.4	4362.7	2531.1	2436.8	2464.3	2397.5	2291.4	2275.7	2413.2	2315.0
11126.7	42.5°	8245.8	4358.7	2425.0	2330.7	2350.3	2299.2	2204.9	2197.1	2252.1	2134.2
12439.5	45°	8988.7	4496.3	2346.4	2252.1	2236.4	2228.5	2197.1	2161.7	2114.5	1961.2
13901.6	47.5°	9876.9	4720.3	2330.7	2134.2	2153.8	2220.6	2181.3	2090.9	1969.1	1870.8
15528.7	50°	10953.8	5184.1	2291.4	2047.7	2083.1	2189.2	2157.7	2032.0	1921.9	1859.0
17018.3	52.5°	12144.7	5769.7	2240.3	1914.1	1992.7	2161.7	2177.4	2059.5	1898.3	1843.3
19034.6	55°	13547.8	6634.4	2181.3	1768.6	1886.6	2134.2	2177.4	1980.9	1866.9	1866.9
22112.0	57.5°	16318.7	8190.8	2059.5	1635.0	1792.2	2083.1	2114.5	1984.8	1870.8	1870.8
26887.3	60°	20382.7	10619.7	1827.6	1532.8	1701.8	2012.3	2067.4	1925.9	1827.6	1851.2
30817.7	62.5°	23562.3	11358.6	1631.1	1434.6	1611.4	1882.6	2004.5	1863.0	1776.5	1863.0
32617.8	65°	24242.2	10611.9	1430.6	1328.4	1485.7	1756.9	1914.1	1772.6	1701.8	1870.8
32594.2	66°	23998.6	10030.2	1359.9	1297.0	1430.6	1694.0	1859.0	1741.1	1662.5	1863.0
31855.3	67.5°	22913.8	9157.7	1281.3	1230.2	1356.0	1603.6	1796.2	1697.9	1599.6	1839.4
29166.9	70°	20555.6	7766.3	1147.7	1112.3	1249.8	1454.2	1650.7	1587.9	1501.4	1694.0
22941.3	72.5°	15831.3	6206.0	1006.2	1010.1	1128.0	1300.9	1505.3	1462.1	1387.4	1485.7
14054.8	75°	9641.1	3965.7	876.5	884.3	982.6	1155.5	1367.8	1336.3	1245.9	1300.9
6496.8	77.5°	4272.3	1965.2	738.9	754.6	833.2	1018.0	1190.9	1139.8	1045.5	1057.3
2641.2	80°	1658.6	931.5	601.3	621.0	672.1	813.6	986.5	939.3	856.8	841.1
1214.5	82.5°	797.9	518.8	463.8	471.6	491.3	648.5	849.0	790.0	679.9	609.2
569.9	85°	400.9	322.3	326.2	298.7	326.2	440.2	573.8	479.5	397.0	353.7
204.4	87.5°	161.1	161.1	161.1	137.6	145.4	208.3	267.3	180.8	165.1	98.3
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>
4512.0
4264.4
4048.2
3946.0
3773.1
3816.3
3745.6
3674.9
3458.7
3258.2
2979.2
2704.1
2468.2
2326.8
2366.1
2444.7
2291.4
2098.8
1921.9
1851.2
1847.3
1835.5
1859.0
1855.1
1847.3
1870.8
1878.7
1866.9
1804.0
1631.1
1446.4
1281.3
1049.4
833.2
609.2
361.6
98.3
0.0

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