

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: P574696

Luminaire Tested: **EPH-VN-04-740-U-T3**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P574696
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-04-740-U-T3
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T3 distribution lens
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

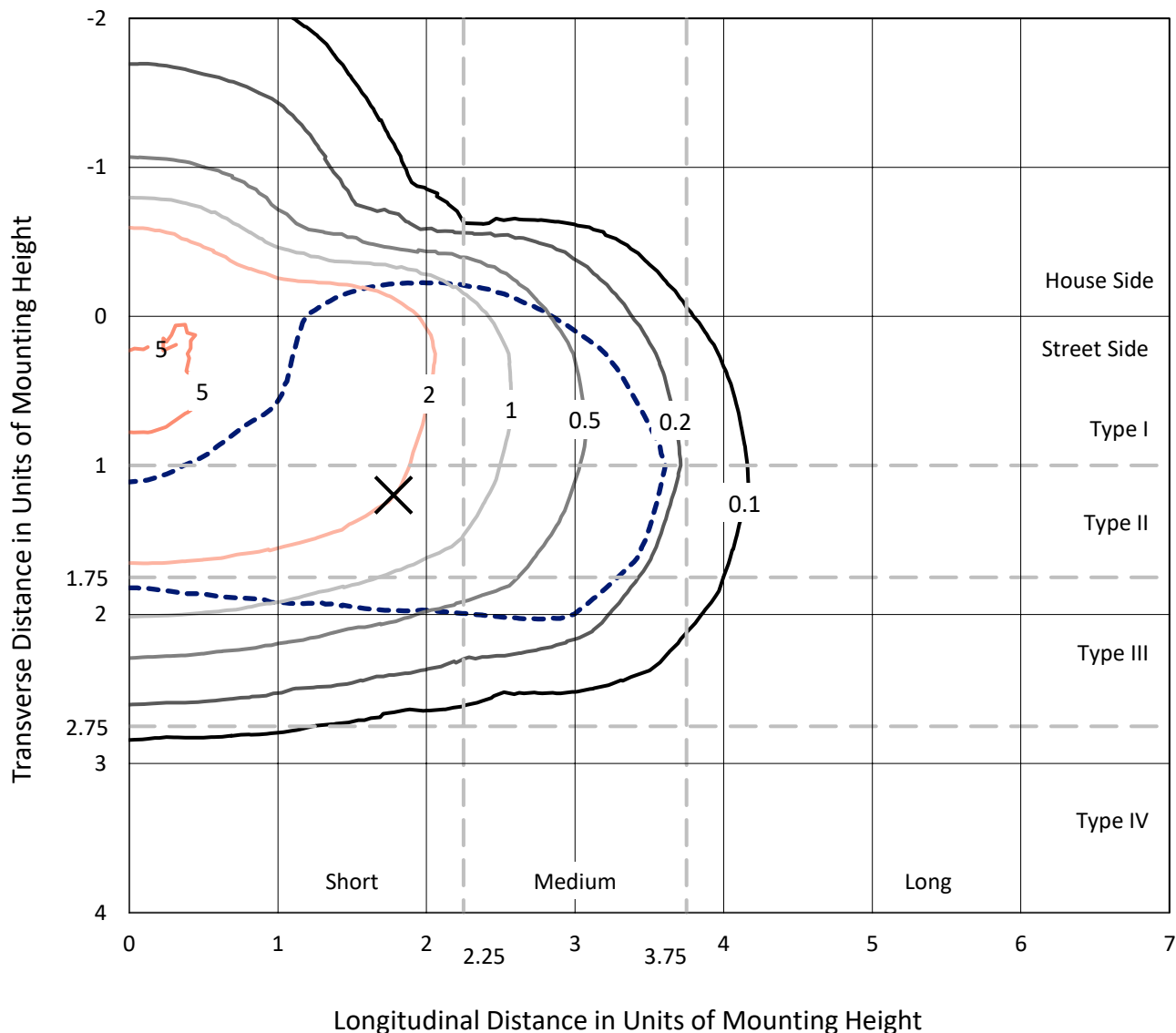
Lumens per Lamp: N/A
Luminaire Lumens: 35622.4 lumens
Efficiency: N/A
Efficacy: 117.3 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

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

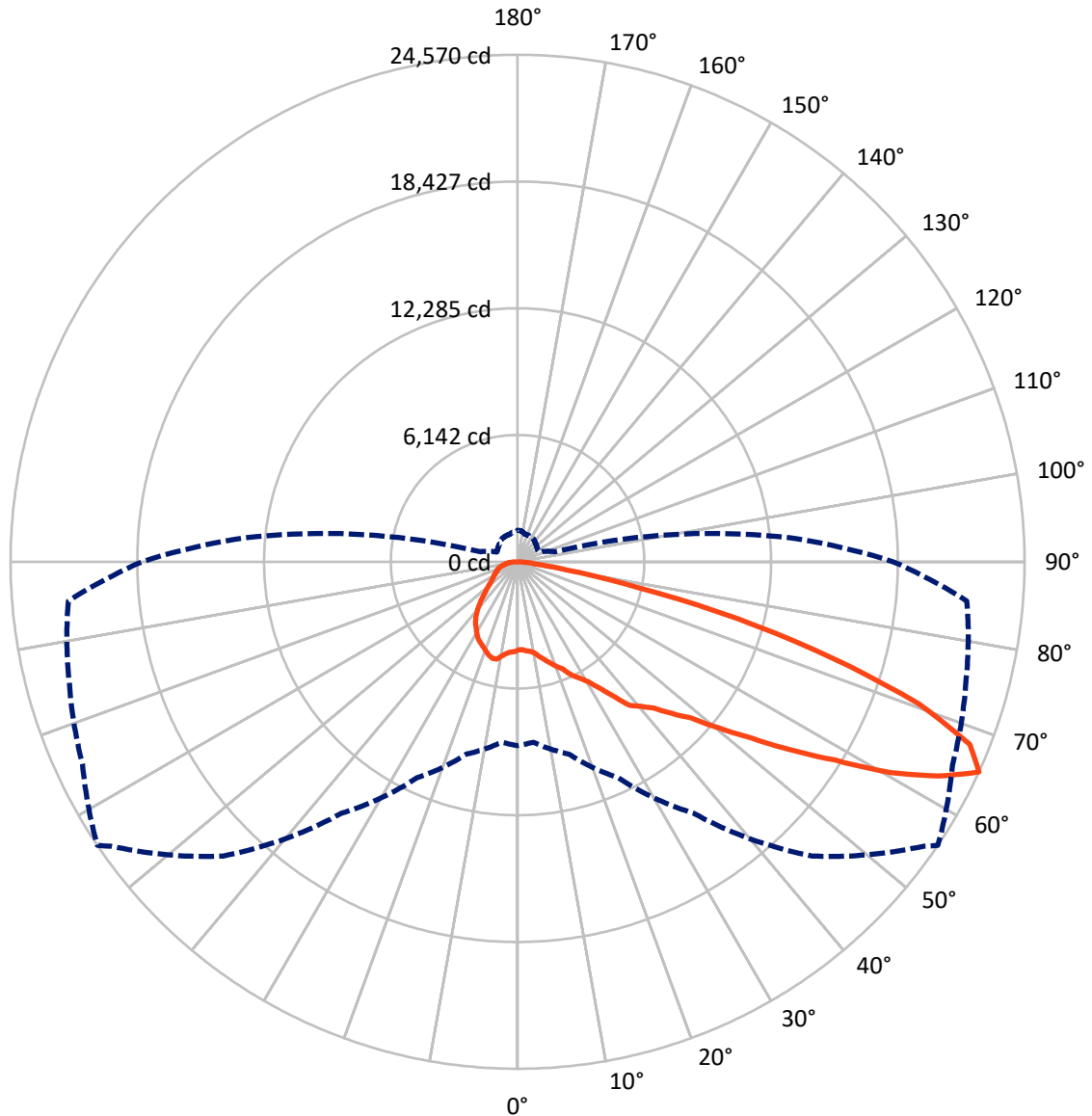
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.5 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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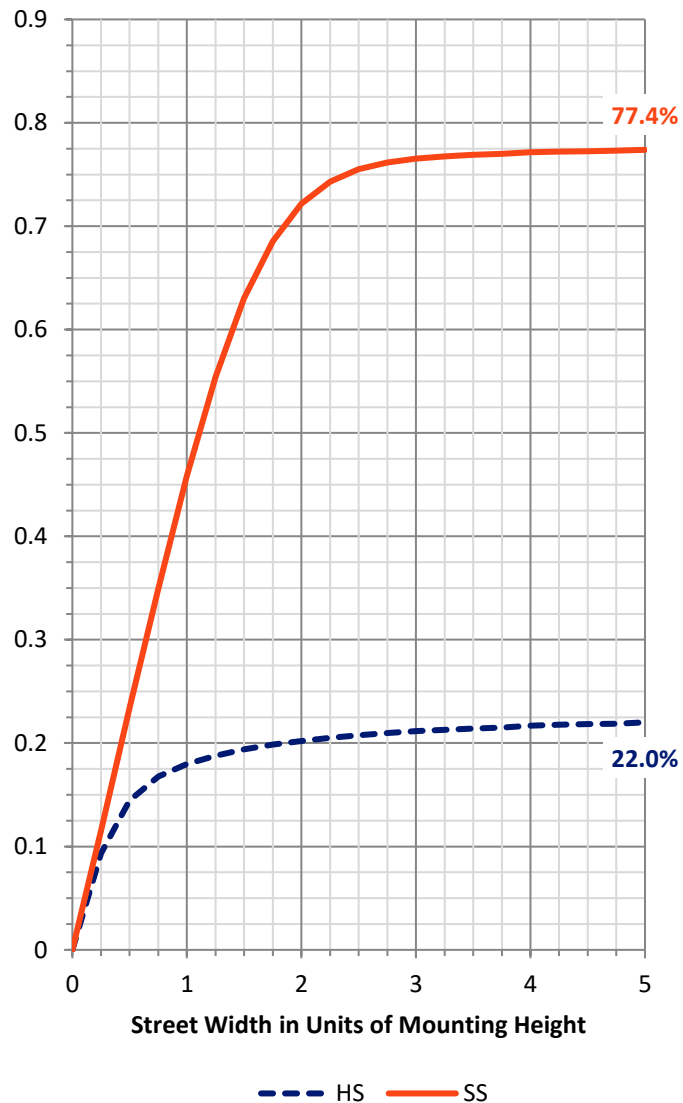
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7989.0	0.0	7989.0
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	27633.5	0.0	27633.5
	% Fixture	77.6	0.0	77.6
Total	Lumens	35622.4	0.0	35622.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	423.7	1.2
10°-20°	1375.8	3.9
20°-30°	2449.8	6.9
30°-40°	3668.4	10.3
40°-50°	5435.3	15.3
50°-60°	8375.0	23.5
60°-70°	9481.5	26.6
70°-80°	3934.9	11.0
80°-90°	478.0	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°	35622.4	100.0
0°-180°	35622.4	100.0

Coefficient of Utilization

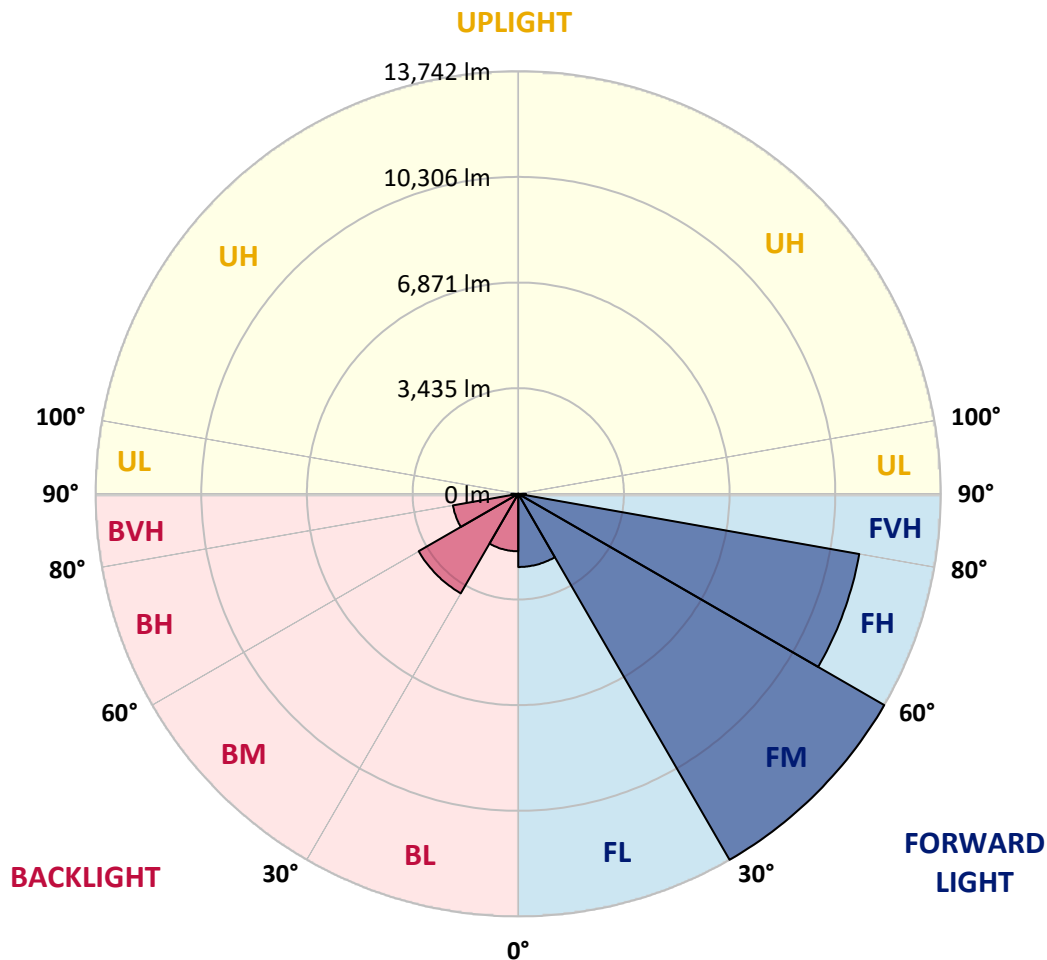


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2380.6	6.7			
FM (30°-60°)	13741.6	38.6			
FH (60°-80°)	11259.1	31.6			G4/12000
FVH (80°-90°)	252.2	0.7			G3/500
BL (0°-30°)	1868.7	5.2	B3/2500		
BM (30°-60°)	3737.1	10.5	B3/5000		
BH (60°-80°)	2157.3	6.1	B3/2500		G3/2500
BVH (80°-90°)	225.9	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	4275.7	4275.7	4275.7	4275.7	4275.7	4275.7	4275.7	4275.7	4275.7	4275.7
2.5°	4163.9	4186.2	4171.3	4216.1	4253.3	4253.3	4283.2	4260.8	4290.6	4331.6
5°	4301.8	4212.3	4260.8	4283.2	4272.0	4290.6	4260.8	4335.3	4286.9	4365.2
7.5°	4335.3	4368.9	4409.9	4372.6	4406.2	4387.5	4391.3	4380.1	4354.0	4417.4
10°	4581.4	4532.9	4626.1	4570.2	4562.7	4555.3	4540.4	4484.5	4547.8	4551.6
12.5°	4864.7	4820.0	4816.2	4771.5	4831.1	4723.0	4745.4	4715.6	4726.8	4741.7
15°	5069.7	5051.1	5136.8	5084.6	5006.3	4957.9	5010.1	4928.1	4969.1	4961.6
17.5°	5476.0	5472.3	5408.9	5323.2	5278.5	5207.6	5196.5	5162.9	5192.7	5177.8
20°	5759.3	5800.3	5811.5	5710.9	5539.4	5461.1	5442.5	5416.4	5449.9	5438.8
22.5°	6191.8	6128.4	6176.8	6001.6	5938.3	5751.9	5684.8	5647.5	5807.8	5766.8
25°	6467.6	6534.7	6486.2	6426.6	6285.0	6053.8	6005.4	6087.4	6150.8	6106.0
27.5°	7090.1	7023.0	6978.3	6799.4	6706.2	6463.9	6408.0	6378.1	6393.1	6419.2
30°	7563.6	7600.8	7500.2	7373.4	7138.6	6892.6	6762.1	6736.0	6683.8	6639.1
32.5°	8238.3	8182.4	8122.7	8040.7	7839.4	7515.1	7388.4	7291.4	7134.9	6926.1
35°	8562.6	8722.9	8678.2	8458.2	8305.4	8182.4	8145.1	7996.0	7865.5	7537.5
37.5°	9103.1	9170.2	9106.8	9036.0	8965.2	8834.7	8790.0	8831.0	8573.8	8033.3
40°	9453.5	9595.2	9725.6	9528.1	9513.2	9539.3	9263.4	9214.9	8685.6	8402.3
42.5°	10169.2	10228.9	10255.0	10247.5	10333.3	10333.3	9807.7	9703.3	9326.8	9095.7
45°	11116.1	11164.6	11257.7	11324.8	11227.9	11276.4	10527.1	10486.1	10150.6	10105.9
47.5°	11936.2	12051.8	12260.5	12458.1	12584.8	12420.8	11600.7	11309.9	11224.2	11492.6
50°	12651.9	12514.0	13002.3	13203.6	13759.1	14031.2	12786.1	12670.6	12532.6	13047.1
52.5°	12722.7	12909.1	13598.8	14001.4	15145.8	15649.0	14239.9	14191.5	14023.7	14616.4
55°	13229.7	13207.3	13900.7	14773.0	16133.6	16979.8	16133.6	16103.8	15738.5	16301.4
57.5°	13144.0	13371.4	13919.3	15138.3	17024.5	18407.5	18329.2	18124.2	17613.5	18072.0
60°	12853.2	12912.9	13580.1	15127.1	17542.7	19872.5	20700.1	20741.1	19697.3	20062.6
62.5°	11205.6	11343.5	12189.7	13938.0	17173.7	20882.7	23015.0	22869.6	22034.6	21617.1
65°	8913.0	8775.1	9654.8	11544.8	14877.4	20167.0	24028.9	24569.5	23257.3	22493.1
67.5°	5464.9	5431.3	6277.5	7943.8	11131.0	17162.5	23220.0	23641.3	22918.1	22306.7
70°	2814.4	2728.7	3258.0	4432.3	6996.9	12592.3	20208.0	20621.8	21311.4	20006.7
72.5°	1312.2	1293.5	1576.8	2180.7	3563.7	7403.3	15649.0	15947.2	17401.0	16868.0
75°	771.6	782.8	943.1	1140.7	1737.1	3489.2	10385.5	10963.3	12540.1	12156.1
77.5°	577.8	577.8	671.0	794.0	1013.9	1349.4	5125.6	5889.8	7332.4	6594.4
80°	425.0	432.4	514.4	596.4	704.5	697.1	2035.3	2385.7	3362.4	2874.1
82.5°	331.8	343.0	398.9	443.6	495.8	421.2	835.0	898.4	1383.0	1099.7
85°	231.1	238.6	313.1	301.9	301.9	234.8	346.7	365.3	548.0	521.9
87.5°	55.9	63.4	152.8	167.7	126.7	70.8	108.1	123.0	197.6	227.4
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°
4275.7	0°	4275.7	4275.7	4275.7	4275.7	4275.7	4275.7	4275.7	4275.7	4275.7	4275.7
4350.3	2.5°	4294.3	4309.3	4372.6	4339.1	4357.7	4279.4	4342.8	4290.6	4335.3	4313.0
4383.8	5°	4413.6	4380.1	4417.4	4391.3	4391.3	4421.1	4465.8	4432.3	4499.4	4469.5
4409.9	7.5°	4462.1	4465.8	4488.2	4491.9	4473.3	4566.5	4570.2	4559.0	4622.4	4607.5
4588.8	10°	4581.4	4585.1	4626.1	4648.5	4629.8	4663.4	4626.1	4596.3	4592.6	4577.7
4730.5	12.5°	4771.5	4808.8	4801.3	4820.0	4823.7	4682.0	4596.3	4450.9	4432.3	4450.9
4939.2	15°	4946.7	4931.8	4939.2	4976.5	4820.0	4592.6	4439.7	4316.7	4324.2	4327.9
5211.4	17.5°	5155.5	5166.6	5177.8	5006.3	4719.3	4450.9	4316.7	4316.7	4279.4	4294.3
5401.5	20°	5394.0	5349.3	5252.4	5010.1	4544.1	4286.9	4245.9	4245.9	4201.2	4171.3
5606.5	22.5°	5580.4	5490.9	5345.6	4894.5	4387.5	4223.5	4122.9	4052.0	3999.9	3940.2
5833.9	25°	5699.7	5651.2	5367.9	4775.2	4272.0	4055.8	3906.7	3798.6	3731.5	3653.2
6012.8	27.5°	5882.4	5789.2	5431.3	4637.3	4145.2	3888.0	3656.9	3489.2	3362.4	3280.4
6285.0	30°	6128.4	5994.2	5386.6	4439.7	3951.4	3597.3	3325.1	3108.9	2963.5	2896.4
6542.2	32.5°	6329.7	6154.5	5349.3	4260.8	3735.2	3302.8	2941.2	2721.2	2639.2	2553.5
6974.6	35°	6713.6	6367.0	5323.2	4160.1	3541.3	3008.3	2628.0	2437.9	2333.6	2206.8
7231.8	37.5°	7008.1	6736.0	5259.8	3951.4	3291.6	2721.2	2389.5	2218.0	2061.4	1927.2
7828.2	40°	7470.4	7250.4	5263.6	3656.9	2997.1	2475.2	2203.1	2024.2	1826.6	1711.0
8711.7	42.5°	8338.9	7757.4	5285.9	3422.1	2665.3	2273.9	2035.3	1822.9	1625.3	1528.4
9718.2	45°	9405.1	8454.5	5148.0	3209.6	2326.1	2083.8	1834.0	1621.6	1494.8	1424.0
11086.3	47.5°	10631.5	9136.7	4961.6	2810.7	2042.8	1882.5	1647.7	1524.6	1431.4	1390.4
12849.5	50°	12003.3	10113.3	4909.4	2445.4	1822.9	1711.0	1558.2	1465.0	1401.6	1353.2
14836.4	52.5°	13770.2	11250.3	4805.0	2068.9	1632.7	1573.1	1524.6	1461.3	1405.4	1364.3
16689.0	55°	15458.9	12510.3	4693.2	1759.5	1498.5	1506.0	1532.1	1476.2	1427.7	1364.3
18765.4	57.5°	17360.0	13796.3	4279.4	1532.1	1397.9	1472.5	1524.6	1461.3	1412.8	1364.3
20890.2	60°	18534.3	14519.5	3470.5	1334.5	1308.4	1409.1	1479.9	1412.8	1360.6	1379.3
21866.9	62.5°	19011.4	14139.3	2616.9	1211.5	1245.1	1323.3	1409.1	1383.0	1345.7	1416.5
21855.7	65°	18198.8	13263.3	1871.3	1107.1	1159.3	1237.6	1345.7	1375.5	1386.7	1524.6
20073.8	67.5°	16193.3	11548.5	1375.5	1021.4	1069.9	1185.4	1390.4	1438.9	1431.4	1602.9
16845.6	70°	12957.6	9032.3	1073.6	950.6	1036.3	1226.4	1453.8	1453.8	1401.6	1602.9
12849.5	72.5°	9427.4	6367.0	924.5	868.6	950.6	1125.8	1446.4	1442.6	1375.5	1465.0
8182.4	75°	5707.2	3705.4	816.4	786.6	816.4	965.5	1383.0	1360.6	1267.4	1260.0
3936.5	77.5°	2844.3	1863.9	667.3	697.1	712.0	808.9	1215.2	1248.8	1122.0	1092.2
1554.5	80°	1200.3	812.6	555.4	600.2	600.2	682.2	1010.2	1032.6	931.9	876.0
615.1	82.5°	548.0	466.0	473.4	521.9	488.3	529.3	801.5	827.6	756.7	663.5
260.9	85°	231.1	264.7	361.6	410.1	361.6	343.0	551.7	581.5	492.1	410.1
111.8	87.5°	104.4	145.4	227.4	298.2	182.7	160.3	294.5	305.7	246.0	182.7
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>
4275.7
4272.0
4428.5
4585.1
4577.7
4458.4
4380.1
4298.1
4126.6
3906.7
3668.1
3317.7
2933.7
2549.8
2195.6
1931.0
1722.2
1535.8
1438.9
1383.0
1360.6
1360.6
1360.6
1360.6
1364.3
1397.9
1524.6
1614.1
1569.4
1412.8
1245.1
1073.6
857.4
648.6
413.8
171.5
0.0

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