

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: P574871

Luminaire Tested: **EPH-VN-07-760-U-5NQ**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P574871
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-07-760-U-5NQ
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (112) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

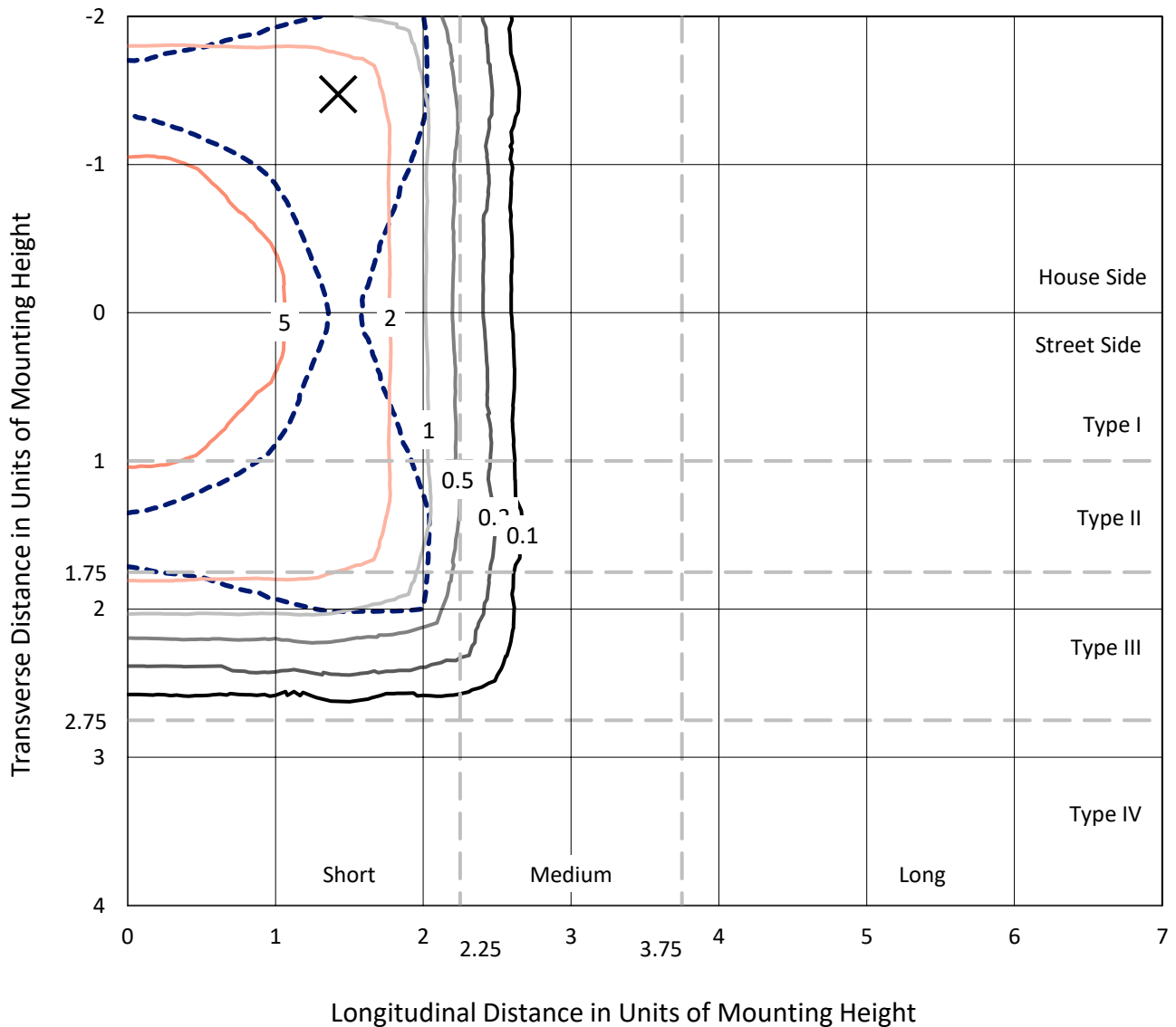
Lumens per Lamp: N/A
Luminaire Lumens: 57592.5 lumens
Efficiency: N/A
Efficacy: 108.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

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

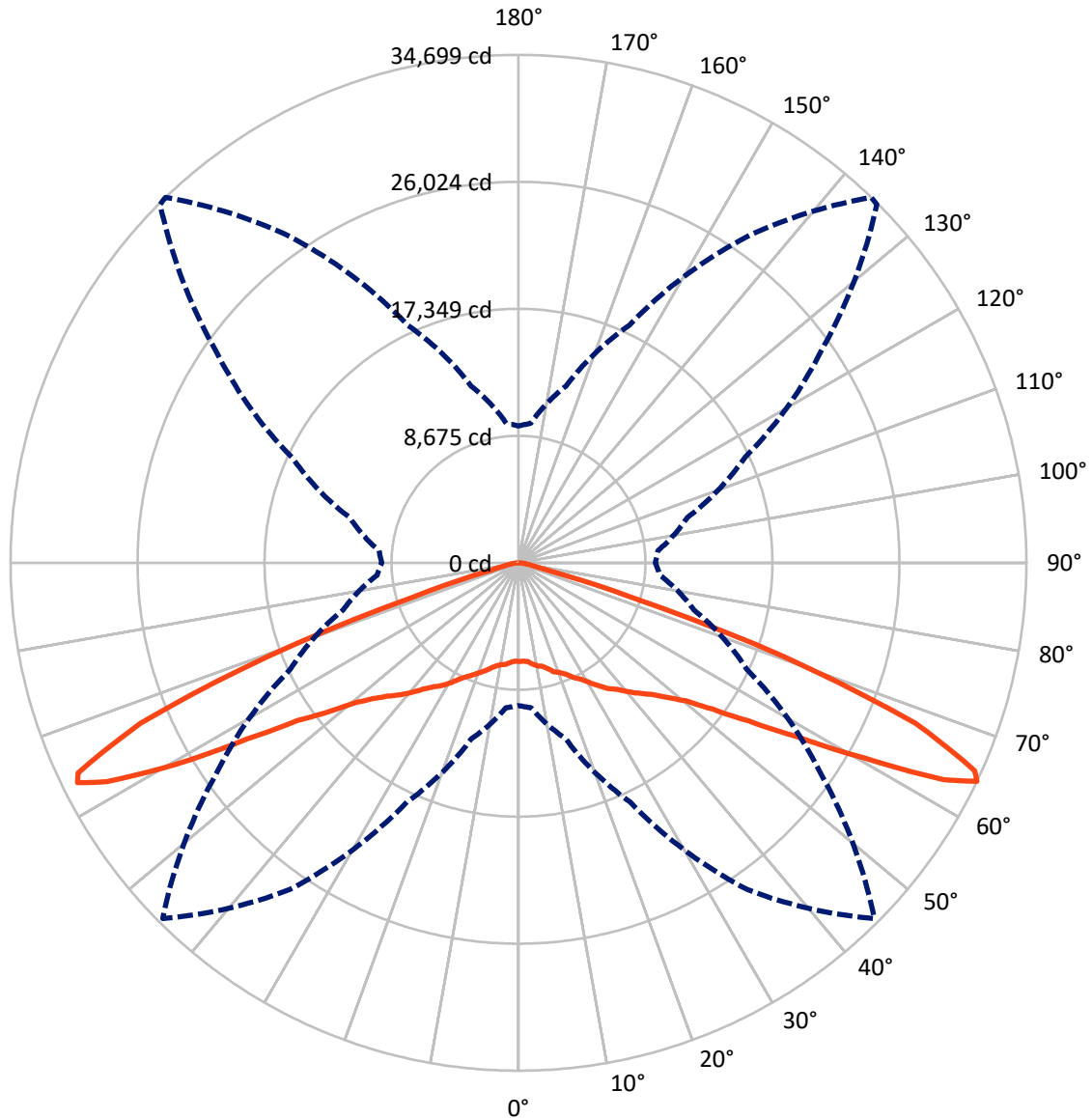
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 136-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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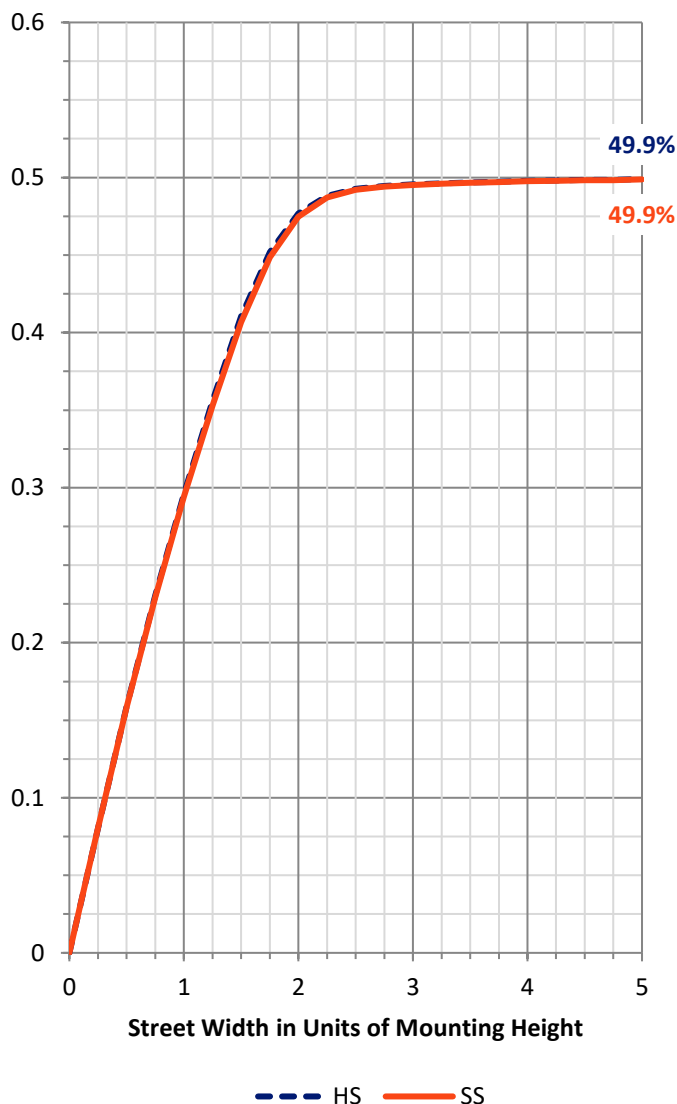
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	28823.7	0.0	28823.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	28768.8	0.0	28768.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	57592.5	0.0	57592.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	662.5	1.2
10°-20°	2135.4	3.7
20°-30°	4013.2	7.0
30°-40°	6618.5	11.5
40°-50°	10350.9	18.0
50°-60°	16724.6	29.0
60°-70°	15059.4	26.1
70°-80°	1783.9	3.1
80°-90°	244.2	0.4
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°	57592.5	100.0
0°-180°	57592.5	100.0

Coefficient of Utilization



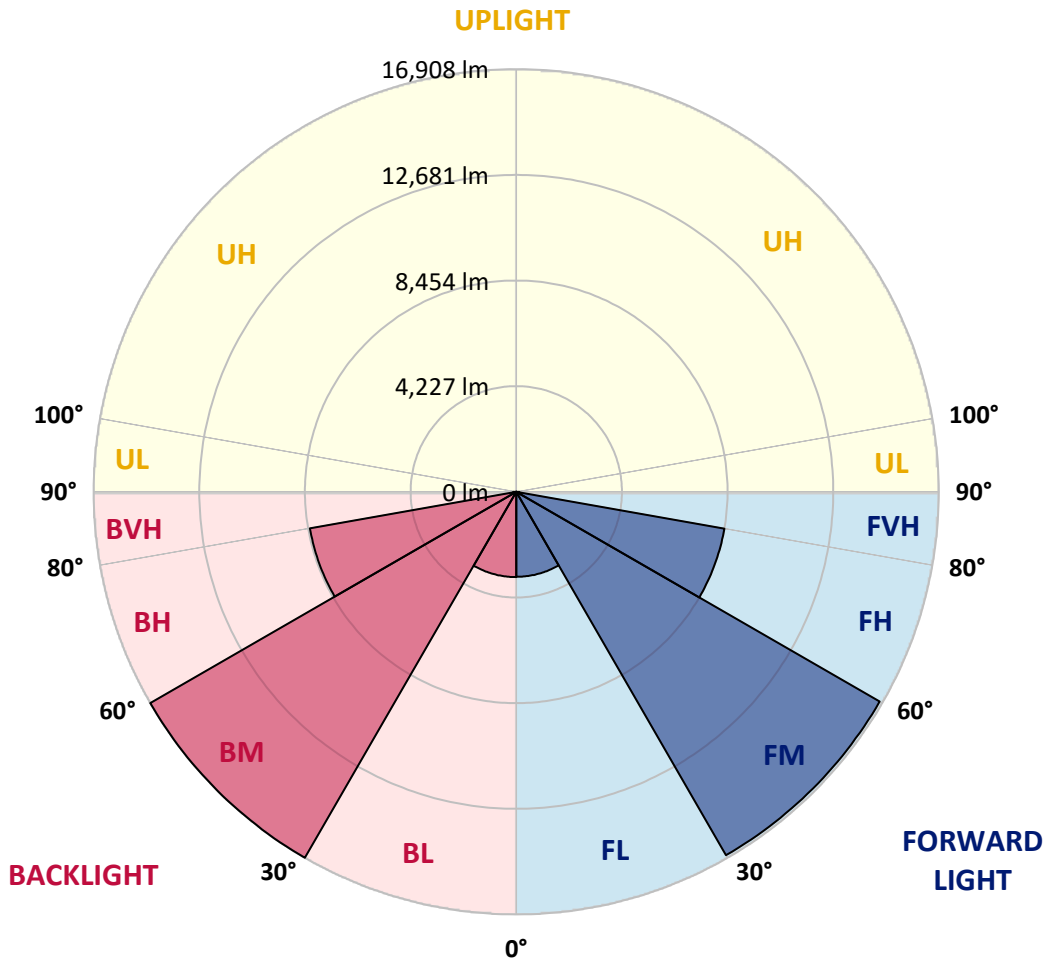
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3399.0	5.9			
FM (30°-60°)	16786.4	29.1			
FH (60°-80°)	8458.1	14.7			G4/12000
FVH (80°-90°)	125.3	0.2			G2/225
BL (0°-30°)	3412.1	5.9	B4/5000		
BM (30°-60°)	16907.5	29.4	B5		
BH (60°-80°)	8385.1	14.6	B5		G4/12000
BVH (80°-90°)	118.9	0.2			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6742.9	6742.9	6742.9	6742.9	6742.9	6742.9	6742.9	6742.9	6742.9	6742.9
2.5°	6663.6	6676.9	6795.7	6749.5	6789.1	6716.5	6769.3	6881.6	6749.5	6848.6
5°	6736.3	6756.1	6756.1	6802.3	6828.8	6815.5	6848.6	6802.3	6927.8	6875.0
7.5°	7000.5	6967.4	6914.6	6954.2	6960.8	6993.9	7026.9	7086.3	7066.5	7020.3
10°	7046.7	7020.3	7099.5	7106.1	7073.1	7046.7	7079.7	7079.7	7139.2	7152.4
12.5°	7125.9	7152.4	7145.8	7198.6	7205.2	7185.4	7238.2	7337.3	7310.9	7330.7
15°	7429.7	7396.7	7390.1	7442.9	7528.8	7403.3	7495.8	7489.2	7462.8	7502.4
17.5°	7693.9	7588.2	7634.5	7720.3	7687.3	7713.7	7832.6	7726.9	7753.3	7707.1
20°	7925.1	7839.2	7845.8	7878.8	7878.8	7958.1	8004.3	7964.7	7938.3	7931.7
22.5°	8182.6	8083.6	8090.2	8228.8	8275.1	8248.7	8215.6	8281.7	8294.9	8242.1
25°	8374.1	8479.8	8512.8	8578.9	8479.8	8552.5	8526.0	8651.5	8730.8	8625.1
27.5°	8876.1	8829.8	8915.7	8909.1	8988.3	8915.7	8961.9	9001.5	9034.6	9041.2
30°	9325.1	9345.0	9259.1	9490.2	9305.3	9424.2	9503.5	9523.3	9562.9	9562.9
32.5°	9800.6	9761.0	9899.7	9846.9	9813.9	9906.3	9820.5	10091.2	9932.7	10025.2
35°	10335.6	10335.6	10388.4	10533.7	10335.6	10276.2	10434.7	10546.9	10546.9	10381.8
37.5°	10936.6	10883.7	10949.8	11134.7	10982.8	10784.7	11075.3	11121.5	11088.5	11042.2
40°	11359.2	11346.0	11478.1	11722.5	11504.5	11464.9	11517.7	11643.2	11682.8	11729.1
42.5°	12072.5	12131.9	12515.0	12455.5	12277.2	12138.5	12125.3	12594.2	12482.0	12363.1
45°	13129.2	13076.3	13274.5	13281.1	13049.9	12746.1	12812.2	13241.4	13433.0	13168.8
47.5°	13967.9	13994.3	14133.0	14417.0	13882.0	13565.0	13809.4	14502.8	14443.4	14344.3
50°	15090.6	15209.5	15645.4	15546.3	15070.8	14681.2	15216.1	15869.9	15942.6	15579.3
52.5°	16642.6	16827.5	17065.3	17144.5	16688.8	16550.1	16583.2	17395.5	17217.2	16867.2
55°	18003.1	18088.9	18524.8	19178.6	19145.6	18478.6	18861.6	19165.4	18439.0	17719.1
57.5°	18584.2	18623.9	19839.0	21146.7	21926.0	22077.9	21642.0	20618.3	18888.0	17501.2
60°	17137.9	17514.4	18980.5	21932.6	25492.2	27249.0	24349.7	20783.4	17838.0	16153.9
62.5°	13697.1	13716.9	15896.3	20374.0	27711.3	32314.4	25386.6	19231.5	15037.8	13129.2
64°	9754.4	9939.3	12442.3	18036.1	27249.0	34374.9	25261.1	17204.0	12396.1	9688.4
65°	7000.5	7258.0	9675.2	15658.6	26165.9	34130.6	24884.7	15460.5	10025.2	7396.7
67.5°	2575.6	2681.3	3797.4	7832.6	18789.0	29084.9	19720.2	8499.6	4405.0	3137.0
70°	1195.4	1202.0	1406.7	2588.9	8215.6	19449.4	9411.0	3189.8	1657.7	1314.2
72.5°	878.4	898.2	984.0	1195.4	2417.1	8235.4	3090.8	1307.6	970.8	858.5
75°	713.3	726.5	752.9	865.2	1116.1	2205.8	1254.8	904.8	772.7	693.4
77.5°	548.1	548.1	607.6	660.4	739.7	1030.3	832.1	719.9	627.4	548.1
80°	396.3	402.9	475.5	515.1	501.9	680.2	601.0	594.4	515.1	429.3
82.5°	231.1	251.0	343.4	369.8	356.6	402.9	435.9	462.3	402.9	297.2
85°	132.1	138.7	198.1	204.7	204.7	191.5	251.0	277.4	270.8	184.9
87.5°	39.6	39.6	52.8	52.8	59.4	66.0	99.1	118.9	132.1	92.5
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):

90°		95°	105°	115°	125°	135°	136°	145°	155°	165°	175°
6742.9	0°	6742.9	6742.9	6742.9	6742.9	6742.9	6742.9	6742.9	6742.9	6742.9	6742.9
6881.6	2.5°	6848.6	6749.5	6756.1	6782.5	6696.7	6729.7	6828.8	6756.1	6736.3	6696.7
6954.2	5°	6815.5	6921.2	6881.6	6894.8	6875.0	6782.5	6769.3	6828.8	6861.8	6802.3
7099.5	7.5°	7046.7	7000.5	6947.6	6967.4	6921.2	7000.5	7053.3	6934.4	6993.9	6960.8
7152.4	10°	7178.8	7092.9	7132.5	7119.3	7086.3	7165.6	7112.7	7099.5	7046.7	6974.0
7284.4	12.5°	7225.0	7324.1	7390.1	7277.8	7297.7	7258.0	7225.0	7225.0	7165.6	7145.8
7396.7	15°	7429.7	7515.6	7489.2	7575.0	7462.8	7502.4	7542.0	7442.9	7495.8	7350.5
7674.1	17.5°	7806.2	7733.5	7826.0	7713.7	7753.3	7832.6	7707.1	7707.1	7746.7	7667.5
7944.9	20°	8043.9	8010.9	7977.9	7984.5	7918.4	7991.1	7951.5	7931.7	7872.2	7898.6
8301.5	22.5°	8268.5	8222.2	8235.4	8255.3	8301.5	8268.5	8248.7	8268.5	8123.2	8255.3
8697.7	25°	8545.8	8671.3	8631.7	8717.6	8585.5	8671.3	8664.7	8539.2	8618.5	8565.7
9008.1	27.5°	9008.1	8942.1	9001.5	8895.9	8988.3	8994.9	8915.7	9127.0	9034.6	9021.4
9463.8	30°	9602.5	9556.3	9516.7	9457.2	9529.9	9470.4	9536.5	9556.3	9470.4	9404.4
9912.9	32.5°	9939.3	10064.8	10111.0	9965.8	9972.4	10005.4	9945.9	9886.5	9939.3	9959.1
10421.4	35°	10414.8	10533.7	10560.1	10447.9	10388.4	10553.5	10434.7	10632.8	10461.1	10467.7
10963.0	37.5°	10969.6	11002.6	11227.2	11101.7	11048.8	10969.6	11187.5	11161.1	11200.7	10883.7
11623.4	40°	11597.0	11715.9	11841.3	11524.3	11517.7	11590.4	11577.2	11729.1	11656.4	11610.2
12303.6	42.5°	12283.8	12534.8	12554.6	12343.3	12211.2	12198.0	12264.0	12600.8	12607.4	12303.6
13267.9	45°	13195.2	13472.6	13399.9	12990.5	12845.2	12825.4	13149.0	13294.3	13419.8	13300.9
14436.8	47.5°	14331.1	14516.1	14463.2	14086.8	13617.9	13750.0	14067.0	14522.7	14390.6	14232.1
15513.3	50°	15546.3	15764.2	15652.0	15275.5	14826.5	14826.5	15216.1	15797.3	15757.6	15447.2
16642.6	52.5°	16893.6	17210.6	17468.1	16933.2	16556.8	16616.2	17230.4	17441.7	17342.7	17124.7
17778.5	55°	17897.4	18505.0	19033.3	19059.7	19079.6	19073.0	19231.5	19442.8	18736.1	18386.1
17415.3	57.5°	17653.1	18802.2	20611.7	21840.1	22203.4	22394.9	22342.0	21364.6	19693.8	18544.6
16028.4	60°	15909.5	17785.1	20704.2	24646.9	27288.6	27024.4	26060.2	22196.7	19165.4	17223.8
12627.2	62.5°	12693.3	14951.9	19152.2	25439.4	32717.3	32638.0	27592.4	20274.9	15969.0	13512.2
9338.4	64°	9562.9	11940.4	17085.1	25234.7	34619.3	34698.5	27202.7	17910.6	12495.2	9562.9
7040.1	65°	7317.5	9523.3	15057.6	24812.0	34209.8	34256.0	26119.6	15467.1	9496.9	6789.1
2820.0	67.5°	2912.5	4055.0	8169.4	18815.4	29375.5	29250.0	18637.1	7482.6	3632.3	2364.3
1221.8	70°	1241.6	1545.4	2866.2	8915.7	19667.3	19304.1	8024.1	2430.3	1347.3	1129.3
838.7	72.5°	851.9	944.4	1228.4	2754.0	8176.0	7984.5	2285.1	1129.3	918.0	845.3
667.0	75°	686.8	752.9	891.6	1155.7	2166.2	2086.9	1076.5	832.1	733.1	680.2
528.3	77.5°	534.9	601.0	700.0	799.1	990.6	984.0	719.9	627.4	568.0	528.3
396.3	80°	422.7	488.7	554.8	568.0	647.2	634.0	488.7	495.3	462.3	383.0
270.8	82.5°	290.6	396.3	442.5	402.9	383.0	383.0	350.0	350.0	323.6	237.8
165.1	85°	178.3	264.2	277.4	237.8	178.3	178.3	191.5	184.9	171.7	125.5
85.9	87.5°	92.5	125.5	112.3	92.5	59.4	59.4	52.8	39.6	39.6	33.0
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>
6742.9
6676.9
6921.2
6894.8
7079.7
7165.6
7462.8
7568.4
7951.5
8070.3
8526.0
8994.9
9278.9
9939.3
10289.4
11042.2
11497.9
12171.6
13188.6
14100.0
15328.4
17025.7
18029.5
18663.5
16979.4
13360.3
9331.7
6538.2
2318.1
1122.7
845.3
673.6
515.1
376.4
217.9
118.9
33.0
0.0

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