

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: P575071

Luminaire Tested: **EPH-VN-07-760-U-SL4**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575071
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-SL4
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (112) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

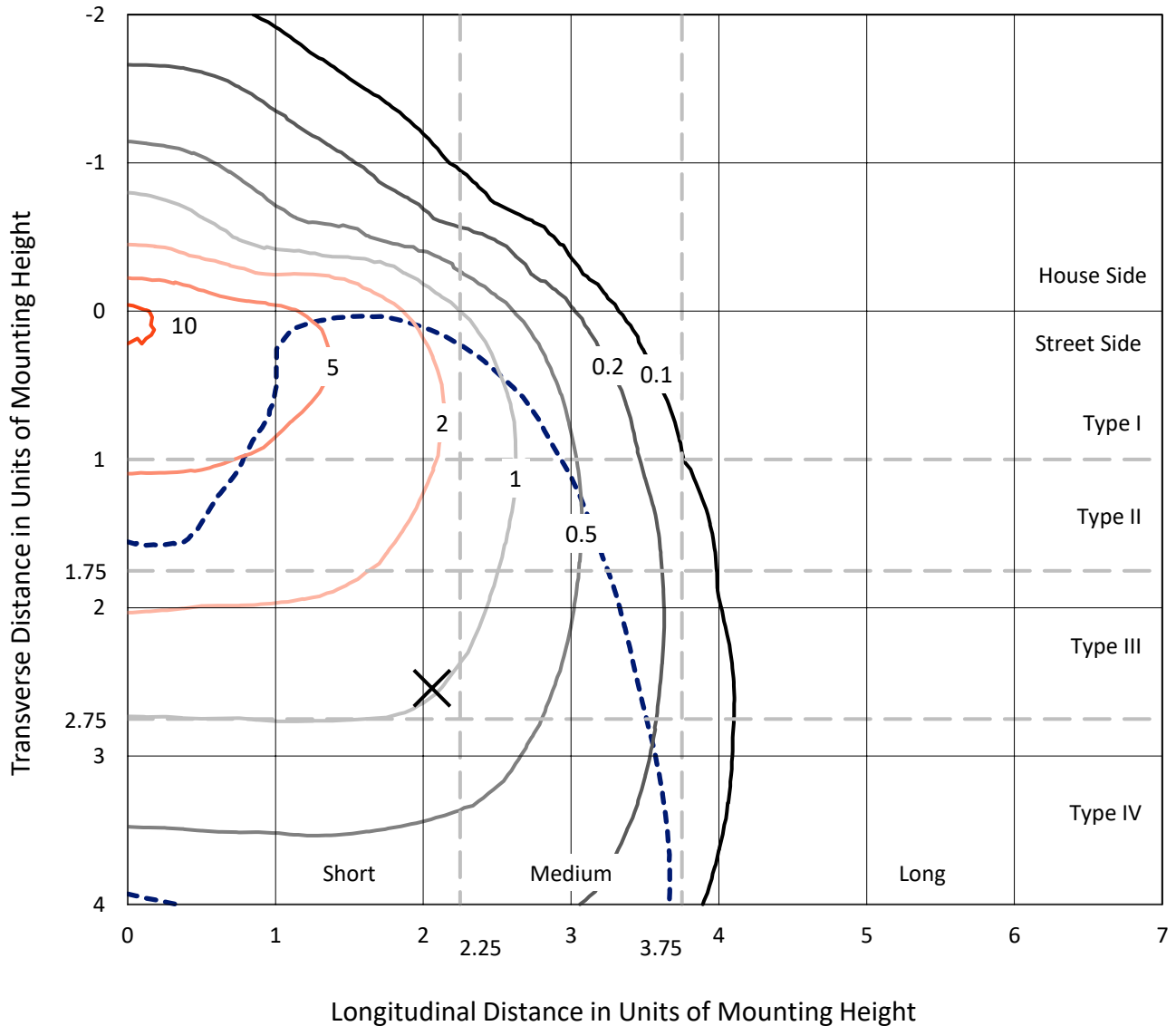
Lumens per Lamp: N/A
Luminaire Lumens: 55854.8 lumens
Efficiency: N/A
Efficacy: 104.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

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

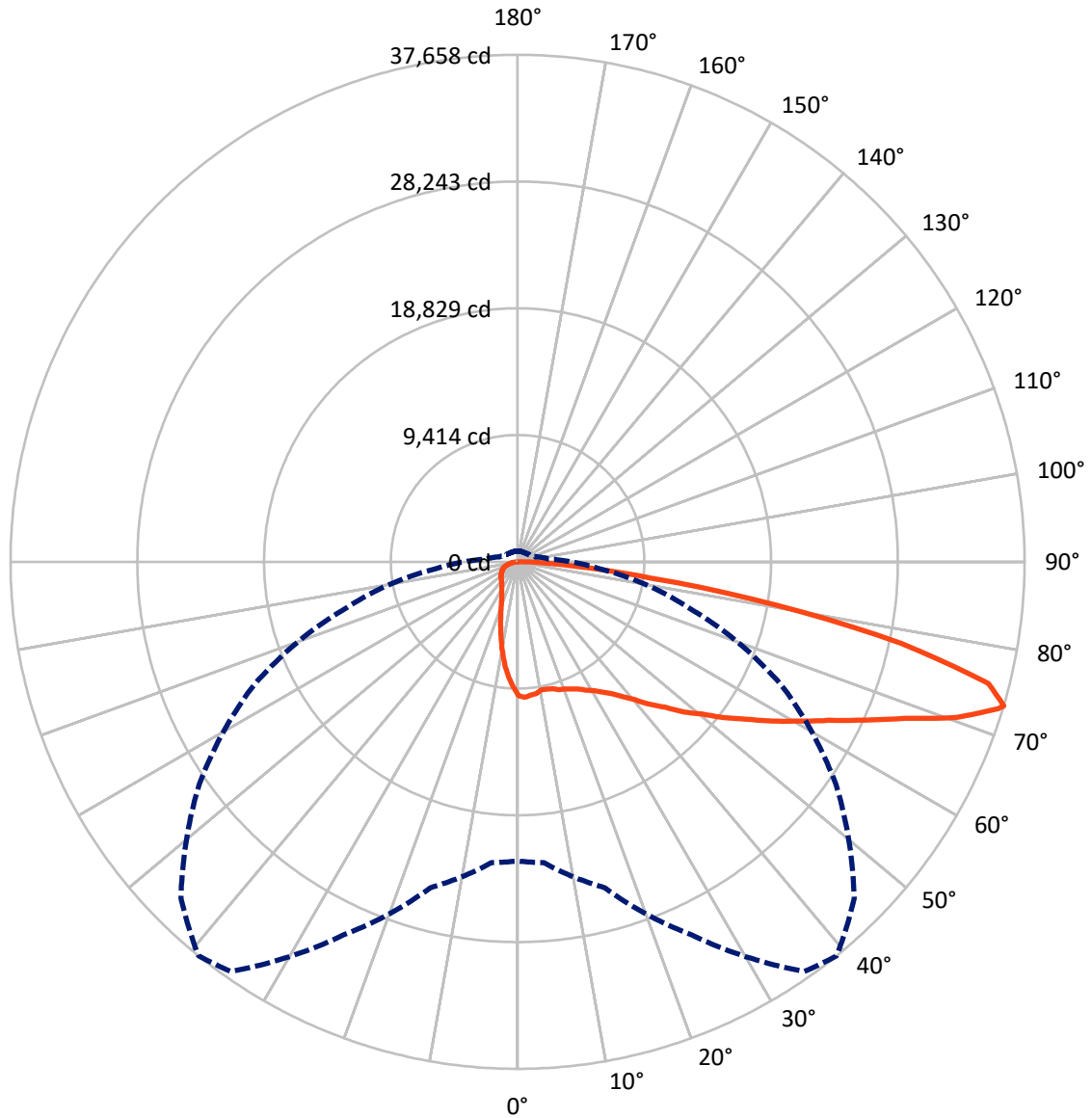
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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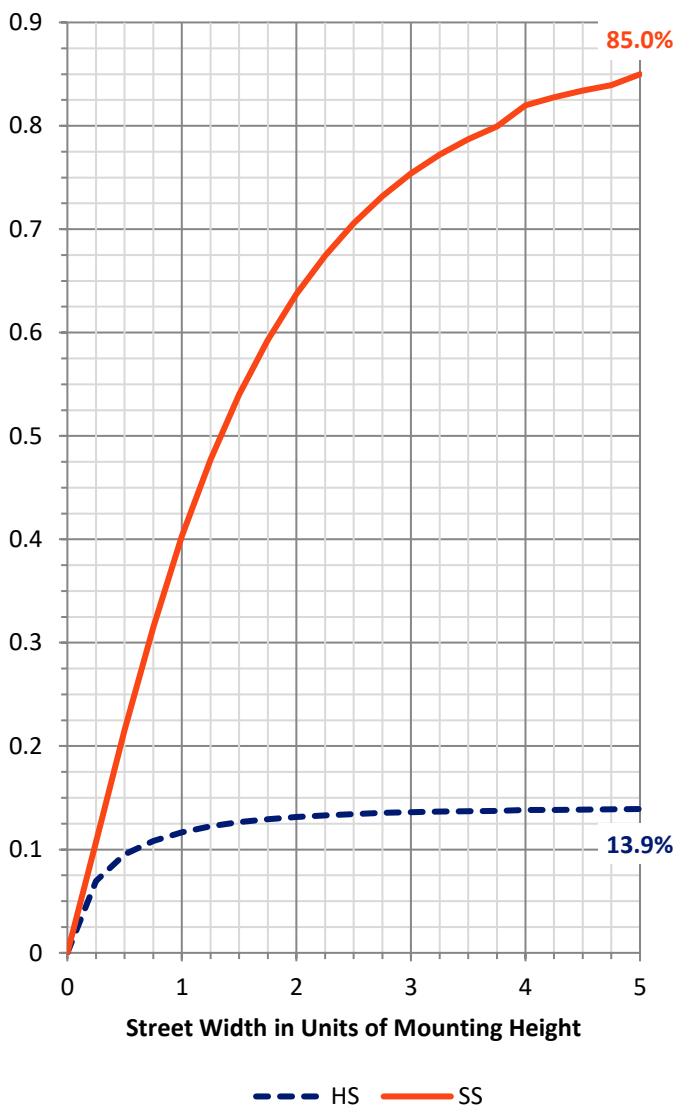
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7851.6	0.0	7851.6
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	48003.2	0.0	48003.2
	% Fixture	85.9	0.0	85.9
Total	Lumens	55854.8	0.0	55854.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	863.1	1.5
10°-20°	2194.1	3.9
20°-30°	3352.8	6.0
30°-40°	4888.5	8.8
40°-50°	7387.0	13.2
50°-60°	10696.8	19.2
60°-70°	13590.8	24.3
70°-80°	11017.5	19.7
80°-90°	1864.1	3.3
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°	55854.8	100.0
0°-180°	55854.8	100.0

Coefficient of Utilization

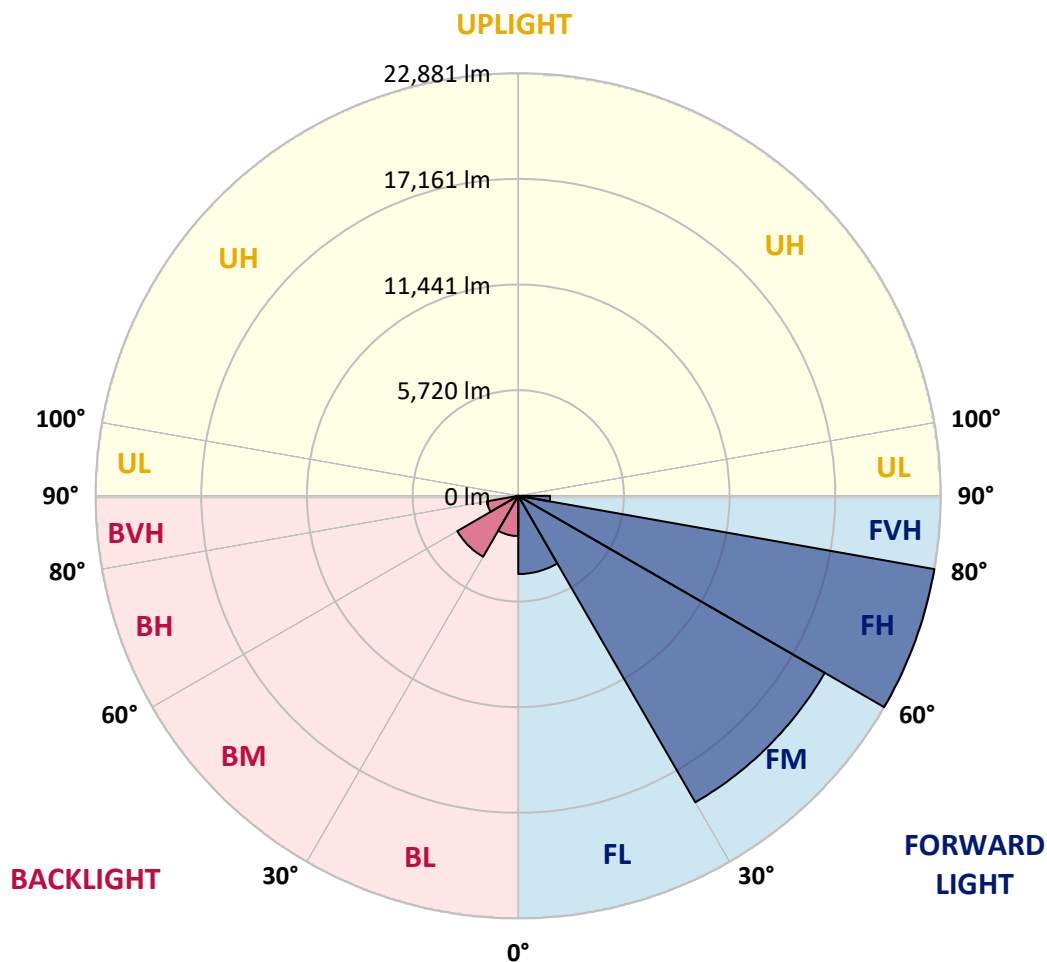


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4232.6	7.6			
FM (30°-60°)	19161.8	34.3			
FH (60°-80°)	22881.5	41.0			G5
FVH (80°-90°)	1727.3	3.1			G5
BL (0°-30°)	2177.4	3.9	B3/2500		
BM (30°-60°)	3810.6	6.8	B3/5000		
BH (60°-80°)	1726.9	3.1	B3/2500		G3/2500
BVH (80°-90°)	136.8	0.2			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°
0°	9942.5	9942.5	9942.5	9942.5	9942.5	9942.5	9942.5	9942.5	9942.5	9942.5
2.5°	10180.0	10073.7	10092.5	10055.0	10092.5	10080.0	10061.2	9967.5	10061.2	9967.5
5°	10042.5	10042.5	10105.0	10011.2	10023.7	9961.2	10023.7	9955.0	9892.5	9736.3
7.5°	9998.7	9992.5	9998.7	9867.5	9930.0	9892.5	9830.0	9755.0	9630.0	9530.0
10°	9698.8	9761.3	9692.5	9730.0	9780.0	9667.5	9661.3	9642.5	9586.3	9455.1
12.5°	9536.3	9642.5	9680.0	9648.8	9692.5	9705.0	9667.5	9642.5	9573.8	9486.3
15°	9605.0	9480.0	9586.3	9792.5	9748.8	9780.0	9786.3	9761.3	9730.0	9567.5
17.5°	9623.8	9548.8	9773.8	9817.5	9873.7	9986.2	9911.2	9905.0	9786.3	9673.8
20°	9667.5	9636.3	9817.5	10048.7	10055.0	10073.7	10111.2	10017.5	9955.0	9761.3
22.5°	9830.0	9936.2	10105.0	10205.0	10261.2	10273.7	10273.7	10086.2	10017.5	9861.3
25°	10317.4	10205.0	10442.4	10561.2	10479.9	10461.2	10417.4	10248.7	10173.7	10036.2
27.5°	10673.6	10667.4	10804.9	10967.4	10748.6	10792.4	10636.2	10586.2	10417.4	10342.4
30°	11161.1	11298.6	11292.3	11342.3	11054.9	11104.8	10904.9	10811.1	10717.4	10761.1
32.5°	11786.0	11736.0	11817.3	11779.8	11492.3	11536.0	11298.6	11154.8	11186.1	11317.3
35°	12186.0	12136.0	12167.2	12167.2	12079.7	12029.7	11929.7	11742.3	11892.2	12136.0
37.5°	12617.2	12679.6	12860.9	12823.4	12710.9	12710.9	12698.4	12567.2	12760.9	13360.8
40°	12998.4	13167.1	13279.6	13354.6	13485.8	13485.8	13592.0	13517.0	13867.0	14829.4
42.5°	13398.3	13404.6	14017.0	14073.2	14366.9	14491.9	14573.2	14635.6	15291.8	16366.7
45°	13910.7	13942.0	14479.4	14910.6	15366.8	15410.5	15716.8	15923.0	16729.1	18047.7
47.5°	14585.7	14548.2	15123.1	15810.5	16379.2	16679.1	17047.8	17272.8	18266.4	19872.5
50°	15473.0	15360.6	15691.8	16772.9	17441.5	17772.7	18428.9	18803.9	19966.2	21616.0
52.5°	16554.2	16366.7	16629.1	17810.2	18560.2	19228.8	19853.7	20272.4	21484.8	22965.8
55°	17697.8	17310.3	17385.3	18910.1	19991.2	20622.4	21478.5	21916.0	23153.3	24178.2
57.5°	18828.9	18585.1	18435.2	19966.2	21697.3	22303.4	23090.8	23659.5	24709.4	25253.1
60°	19778.7	19716.3	19472.5	21603.5	23503.3	24022.0	24846.9	25196.8	25990.5	26246.7
62.5°	20559.9	20347.4	20734.9	22922.1	25340.5	25928.0	26834.1	26865.3	27427.8	26865.3
65°	21172.3	21184.8	21803.5	24515.6	27465.3	28333.9	29065.1	28983.8	28621.4	26496.6
67.5°	21728.5	21966.0	22872.1	26265.4	30196.2	31014.8	31827.2	30752.4	28946.3	24771.9
70°	22165.9	22403.4	24315.7	28396.4	33414.5	34614.4	34795.6	31452.3	27452.8	20984.8
72.5°	22115.9	22547.1	25134.3	30096.2	36270.4	37307.8	35845.5	29483.8	22872.1	14629.4
73°	22222.2	22434.7	25065.6	30571.1	37139.0	37657.7	35358.0	28865.1	21572.3	13123.3
75°	20172.4	20891.1	23822.0	29796.2	36207.9	36114.2	32558.4	24053.2	15335.6	6892.9
77.5°	14923.1	15379.3	18772.6	24503.1	29721.2	29121.3	24559.4	15373.1	7280.3	2555.9
80°	7292.8	7649.0	9948.7	14148.2	19435.0	19485.0	15241.8	7999.0	3118.4	1443.6
82.5°	3643.3	3855.8	4780.6	6218.0	9561.3	10017.5	7730.3	4549.4	1931.0	818.6
85°	2380.9	2530.9	2943.4	3043.4	4055.7	4280.7	3599.5	3549.6	1256.1	443.7
87.5°	1581.0	1606.0	1806.0	1537.3	1624.8	1562.3	1737.3	2237.2	368.7	187.5
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):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
9942.5	0°	9942.5	9942.5	9942.5	9942.5	9942.5	9942.5	9942.5	9942.5	9942.5	9942.5
9942.5	2.5°	9911.2	9823.8	9730.0	9598.8	9505.0	9361.3	9230.1	9173.8	9161.3	9167.6
9692.5	5°	9655.0	9530.0	9342.6	9073.9	8917.6	8680.2	8480.2	8373.9	8261.5	8280.2
9386.3	7.5°	9298.8	9161.3	8873.9	8561.4	8174.0	7836.5	7649.0	7386.6	7236.6	7124.1
9367.6	10°	9186.3	8948.9	8517.7	8086.5	7486.6	7042.9	6611.7	6311.7	6105.5	5905.5
9236.3	12.5°	9130.1	8892.6	8292.7	7655.3	6880.4	6205.5	5599.3	5230.6	4936.9	4761.9
9405.1	15°	9080.1	8786.4	8080.2	7180.3	6311.7	5424.3	4743.1	4255.7	3974.5	3805.8
9436.3	17.5°	9148.8	8730.1	7767.8	6717.9	5686.8	4736.9	3980.7	3474.6	3187.1	3080.9
9398.8	20°	9080.1	8667.7	7461.6	6255.5	5061.9	4080.7	3355.8	2937.1	2737.2	2649.7
9573.8	22.5°	9105.1	8517.7	7142.8	5743.0	4480.7	3530.8	2937.1	2618.4	2462.2	2418.4
9655.0	25°	9223.8	8430.2	6824.1	5180.6	3905.8	3124.6	2668.4	2424.7	2312.2	2268.5
9798.8	27.5°	9311.3	8505.2	6536.7	4649.4	3418.3	2762.2	2443.4	2281.0	2206.0	2174.7
10223.7	30°	9530.0	8548.9	6255.5	4174.5	3018.4	2524.7	2287.2	2156.0	2106.0	2087.2
10804.9	32.5°	9855.0	8630.2	5930.5	3737.0	2724.7	2299.7	2162.2	2049.7	2037.2	2018.5
11454.8	35°	10386.2	8911.4	5568.0	3362.1	2443.4	2149.7	2031.0	1956.0	1956.0	1956.0
12492.2	37.5°	11148.6	9305.1	5243.1	3005.9	2262.2	2018.5	1918.5	1893.5	1881.0	1899.8
13760.8	40°	12129.7	9780.0	4980.6	2724.7	2106.0	1931.0	1843.5	1831.0	1824.8	1818.5
15116.8	42.5°	13204.6	10386.2	4755.6	2505.9	1993.5	1837.3	1774.8	1762.3	1737.3	1749.8
16591.6	45°	14273.2	11136.1	4555.7	2331.0	1918.5	1787.3	1699.8	1693.5	1681.0	1674.8
18203.9	47.5°	15460.5	11873.5	4493.2	2224.7	1862.3	1712.3	1649.8	1643.5	1606.0	1599.8
19310.1	50°	16385.4	12417.2	4561.9	2174.7	1781.0	1656.0	1612.3	1581.0	1549.8	1518.6
20128.7	52.5°	17022.8	12792.1	4611.9	2137.2	1737.3	1581.0	1524.8	1512.3	1481.1	1449.8
20947.3	55°	17597.8	13017.1	4624.4	2143.5	1693.5	1493.6	1456.1	1449.8	1431.1	1381.1
21641.0	57.5°	17791.5	12923.4	4374.4	2087.2	1668.5	1437.3	1387.3	1399.8	1374.8	1331.1
21653.5	60°	17772.7	12273.4	3805.8	2012.2	1612.3	1374.8	1312.3	1349.8	1349.8	1299.8
21016.1	62.5°	16691.6	10773.6	3112.1	1868.5	1549.8	1312.3	1243.6	1299.8	1318.6	1287.3
19510.0	65°	14448.2	8773.9	2599.7	1724.8	1456.1	1243.6	1174.9	1237.3	1268.6	1256.1
16566.7	67.5°	11954.7	6711.7	2162.2	1537.3	1337.3	1149.9	1093.6	1137.4	1156.1	1162.4
12498.4	70°	8448.9	4468.2	1806.0	1331.1	1174.9	1049.9	987.4	993.6	987.4	1006.1
7292.8	72.5°	4593.2	2574.7	1468.6	1131.1	1012.4	912.4	868.6	837.4	837.4	831.1
6168.0	73°	3930.8	2312.2	1399.8	1099.9	968.6	887.4	837.4	812.4	812.4	806.1
2987.1	75°	2206.0	1693.5	1199.8	943.6	837.4	774.9	737.4	699.9	693.7	693.7
1612.3	77.5°	1449.8	1318.6	956.1	756.2	674.9	618.7	606.2	568.7	568.7	568.7
1099.9	80°	1087.4	1037.4	737.4	574.9	518.7	474.9	462.4	437.4	431.2	406.2
624.9	82.5°	724.9	818.6	537.4	406.2	350.0	325.0	325.0	318.7	300.0	268.7
506.2	85°	574.9	668.7	387.5	250.0	206.2	175.0	181.2	175.0	168.7	137.5
137.5	87.5°	106.2	268.7	112.5	68.7	50.0	31.2	31.2	18.7	12.5	0.0
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>
9942.5
9105.1
8230.2
7186.6
5993.0
4830.6
3824.5
3055.9
2630.9
2430.9
2281.0
2168.5
2081.0
2024.7
1974.7
1912.3
1831.0
1768.5
1706.0
1624.8
1518.6
1437.3
1368.6
1324.8
1293.6
1281.1
1249.8
1168.6
1006.1
831.1
799.9
693.7
562.4
412.4
268.7
131.2
0.0
0.0

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