

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: P574659

Luminaire Tested: **EPH-VN-07-740-U-T2R**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P574659
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-07-740-U-T2R
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (112) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 56768.7 lumens
Efficiency: N/A
Efficacy: 106.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

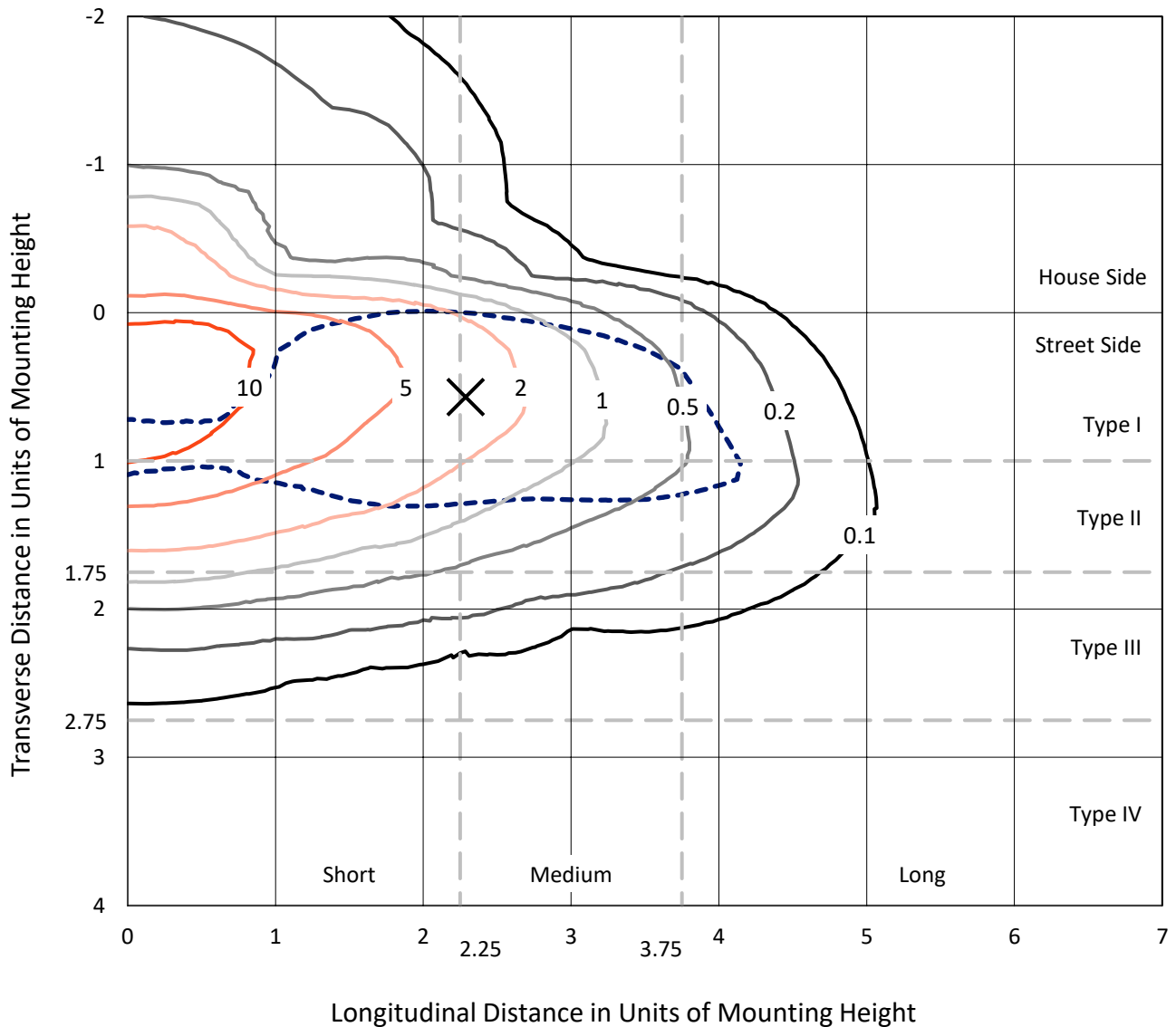
Input Watts (W): 532.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

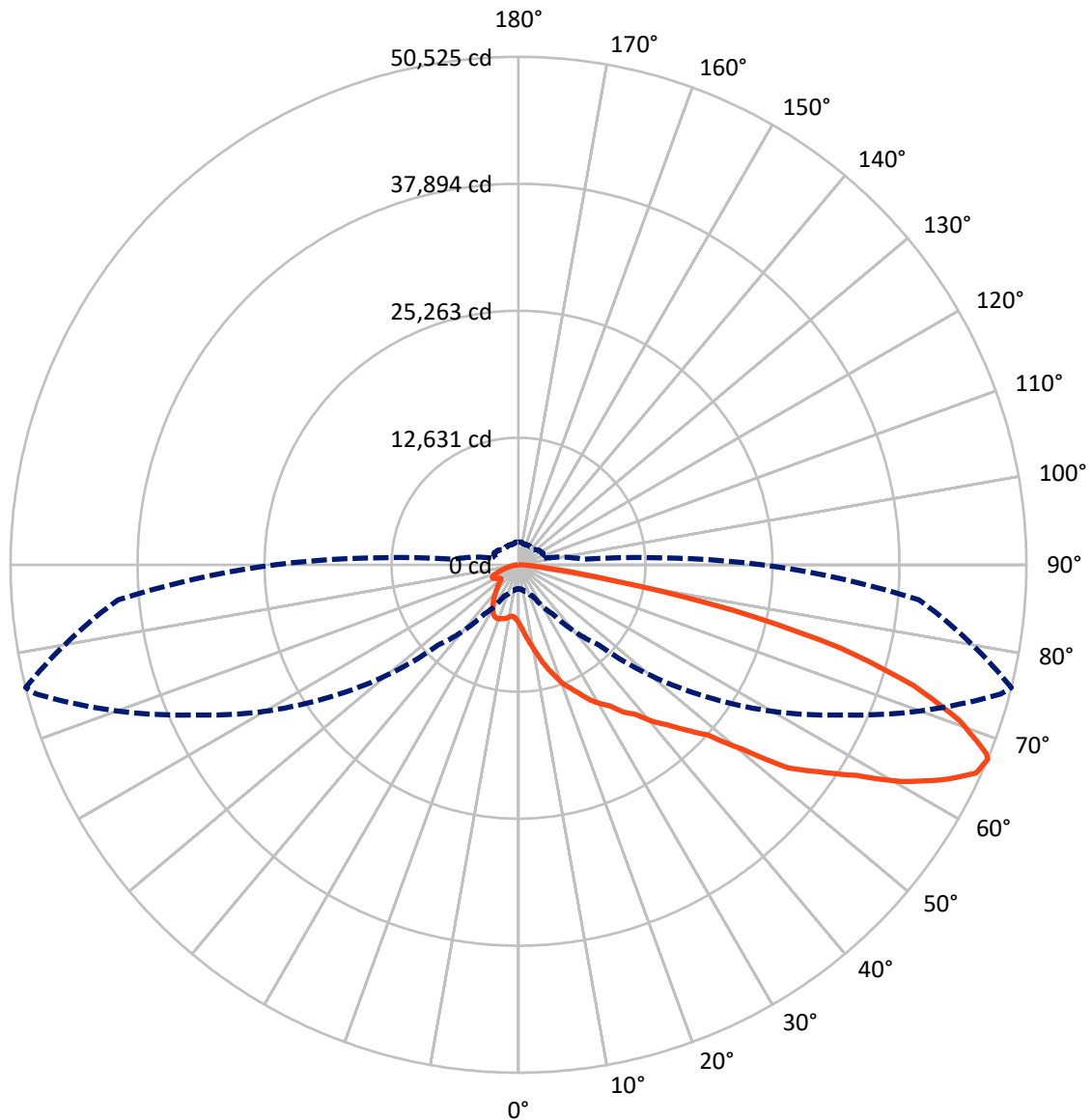
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 15.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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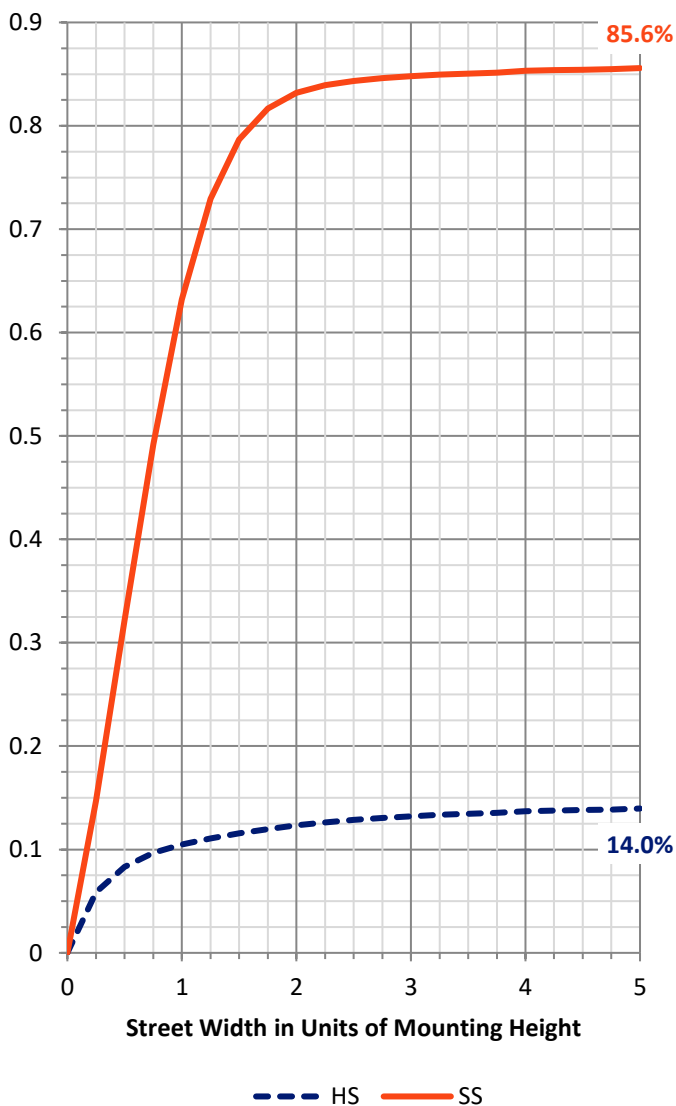
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8076.1	0.0	8076.1
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	48692.6	0.0	48692.6
	% Fixture	85.8	0.0	85.8
Total	Lumens	56768.7	0.0	56768.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	672.9	1.2
10°-20°	2523.9	4.4
20°-30°	4692.2	8.3
30°-40°	7438.2	13.1
40°-50°	10287.7	18.1
50°-60°	12654.5	22.3
60°-70°	11775.6	20.7
70°-80°	5908.9	10.4
80°-90°	814.8	1.4
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°	56768.7	100.0
0°-180°	56768.7	100.0

Coefficient of Utilization

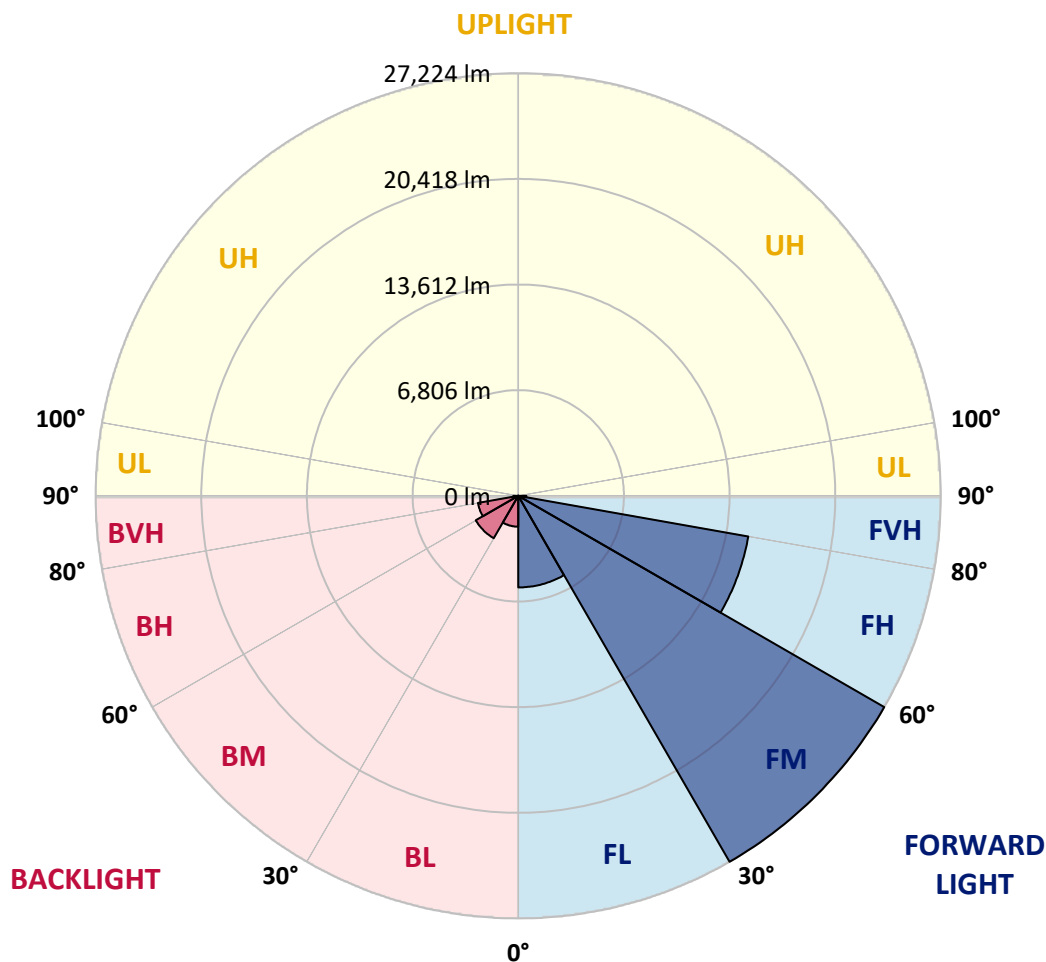


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5900.2	10.4			
FM (30°-60°)	27224.4	48.0			
FH (60°-80°)	15048.9	26.5			G5
FVH (80°-90°)	519.1	0.9			G4/750
BL (0°-30°)	1988.8	3.5	B3/2500		
BM (30°-60°)	3156.0	5.6	B3/5000		
BH (60°-80°)	2635.6	4.6	B4/5000		G4/5000
BVH (80°-90°)	295.7	0.5			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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°
0°	5809.4	5809.4	5809.4	5809.4	5809.4	5809.4	5809.4	5809.4	5809.4	5809.4
2.5°	8060.7	7963.7	7866.6	7659.6	7588.5	7394.4	7038.6	6643.9	6320.5	6275.2
5°	10001.5	9859.2	9826.8	9710.4	9341.6	8966.4	8384.2	7750.2	6960.9	7019.2
7.5°	11457.1	11373.0	11198.3	11088.3	10868.4	10370.2	9768.6	8927.6	7924.9	7730.8
10°	12556.9	12440.4	12433.9	12336.9	12220.5	11709.4	11250.1	10117.9	8830.6	8565.3
12.5°	13113.2	13093.8	13436.7	13436.7	13391.4	13177.9	12388.7	11353.6	9691.0	9600.4
15°	13714.9	13553.1	13850.7	14077.1	14193.6	14303.6	13650.2	12556.9	10790.8	10616.1
17.5°	13714.9	13701.9	13999.5	14374.7	14982.8	15125.2	14769.4	13663.1	11702.9	11573.5
20°	13482.0	13669.6	13876.6	14381.2	15041.1	15616.8	15720.3	14795.2	12712.1	12608.6
22.5°	14568.8	14387.7	14601.2	14795.2	15306.3	16179.7	16464.3	15791.5	13773.1	13378.5
25°	16393.1	16270.2	16115.0	15830.3	16043.8	16425.5	16858.9	16529.0	14678.8	14238.9
27.5°	18172.2	18178.7	17842.3	17221.2	16761.9	16839.5	17350.6	17175.9	15442.2	15248.1
30°	20701.7	20546.4	20171.2	19330.2	18431.0	17693.5	17609.4	17777.6	16412.6	16037.3
32.5°	22597.2	22629.5	22099.0	20889.3	19660.1	19058.5	18321.0	18392.1	17027.1	16749.0
35°	24130.4	24091.6	23716.4	22713.6	21258.0	20533.5	19537.2	19129.6	18456.8	18016.9
37.5°	25786.5	25469.5	24861.4	23729.3	22797.7	21795.0	20824.6	19906.0	19407.8	18877.3
40°	26452.9	26452.9	25637.7	25120.2	24014.0	23257.0	22629.5	20928.1	20565.8	20462.3
42.5°	25980.6	26271.7	25935.3	25346.6	24893.8	23936.3	23768.1	21989.1	21995.5	21788.5
45°	25935.3	25534.2	25256.1	25404.8	25191.4	25139.6	25566.6	23457.6	23496.4	23470.5
47.5°	24635.0	24453.9	24867.9	25113.7	25288.4	26090.6	27319.7	25210.8	25488.9	25294.9
50°	23341.1	23308.8	23567.6	24460.3	25217.2	26537.0	28988.8	27914.9	28827.1	28814.2
52.5°	19796.0	20138.9	21154.5	23043.6	24913.2	27145.1	30250.3	31369.5	33109.8	33582.0
55°	16406.1	16224.9	17725.8	20468.8	23587.0	27384.4	31660.6	33446.2	36008.0	36350.9
57.5°	12763.9	13100.3	14284.2	16917.2	20844.0	26200.6	32695.7	35496.9	39281.4	39546.7
60°	9522.8	9568.1	10868.4	12990.3	17195.3	23528.8	33032.1	37599.4	43033.6	43790.5
62.5°	5990.5	6262.3	7252.1	9341.6	12945.0	19789.5	31524.8	38873.9	46966.9	47167.5
65°	3228.2	3402.8	4146.8	5460.1	9044.0	14969.9	27526.8	38110.5	48817.2	50007.5
67°	2387.2	2419.5	2762.4	3486.9	6048.8	11269.5	22953.0	35348.1	49658.2	50525.0
67.5°	2238.4	2283.7	2555.4	3131.1	5363.0	10376.7	21756.2	34364.8	49282.9	50214.5
70°	1914.9	1927.8	1992.5	2154.3	3008.2	6242.9	14814.6	28160.8	45679.6	46572.3
72.5°	1701.4	1714.4	1740.2	1772.6	2037.8	3609.9	9011.7	21672.1	39701.9	41125.2
75°	1494.4	1539.7	1552.6	1526.7	1733.8	2348.3	4793.7	15927.4	32385.2	33077.4
77.5°	1268.0	1287.4	1313.3	1339.1	1546.2	1753.2	2303.1	10751.9	22228.4	21807.9
80°	1067.4	1073.9	1093.3	1112.7	1339.1	1339.1	1306.8	5809.4	9710.4	9283.4
82.5°	763.4	808.7	853.9	905.7	1112.7	899.2	853.9	2587.7	3072.9	2924.1
85°	297.6	362.3	562.8	621.1	705.2	485.2	569.3	1119.2	1280.9	1268.0
87.5°	51.8	58.2	155.3	239.4	258.8	168.2	271.7	401.1	478.7	517.5
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°
5809.4	0°	5809.4	5809.4	5809.4	5809.4	5809.4	5809.4	5809.4	5809.4	5809.4	5809.4
6048.8	2.5°	5861.2	5660.6	5421.3	5181.9	5026.6	4780.8	4761.4	4612.6	4593.2	4541.4
6242.9	5°	5906.4	5667.1	5181.9	4800.2	4625.5	4483.2	4515.6	4450.9	4431.5	4399.1
6676.3	7.5°	6262.3	5790.0	5065.4	4735.5	4606.1	4541.4	4541.4	4463.8	4405.6	4444.4
7206.8	10°	6495.2	5848.2	5156.0	4826.1	4722.6	4580.2	4632.0	4535.0	4567.3	4489.7
7821.4	12.5°	6870.4	6178.2	5343.6	4961.9	4793.7	4664.3	4716.1	4606.1	4580.2	4586.7
8481.2	15°	7375.0	6398.1	5427.7	5039.6	4923.1	4761.4	4722.6	4625.5	4528.5	4496.1
9205.8	17.5°	7847.2	6669.8	5485.9	5084.9	4897.2	4716.1	4670.8	4547.9	4515.6	4418.5
10027.4	20°	8410.1	6993.3	5563.6	5123.7	4800.2	4619.1	4502.6	4379.7	4269.7	4211.5
10771.3	22.5°	8785.3	7161.5	5602.4	5046.0	4657.9	4489.7	4243.8	4159.7	4004.5	3939.8
11489.4	25°	9399.9	7368.5	5505.4	4832.5	4405.6	4133.9	3913.9	3797.5	3687.5	3603.4
11981.1	27.5°	9555.1	7523.8	5278.9	4470.3	4004.5	3719.8	3532.2	3389.9	3318.7	3189.4
12686.2	30°	10008.0	7368.5	4942.5	4030.4	3622.8	3331.7	3144.1	3040.6	2872.4	2840.0
13249.1	32.5°	10299.1	7413.8	4515.6	3603.4	3182.9	2924.1	2801.2	2697.7	2652.4	2497.1
14109.5	35°	10784.3	7258.5	4082.1	3208.8	2820.6	2620.1	2516.5	2484.2	2335.4	2264.2
14847.0	37.5°	11094.8	7168.0	3648.7	2762.4	2426.0	2341.9	2374.2	2238.4	2057.2	1921.4
15791.5	40°	11638.2	7135.6	3157.0	2393.6	2154.3	2134.9	2238.4	1979.6	1649.7	1533.2
16923.6	42.5°	12421.0	6915.7	2775.3	2063.7	1940.8	2024.9	2044.3	1649.7	1462.1	1365.0
18443.9	45°	13171.4	6960.9	2400.1	1707.9	1688.5	1811.4	1766.1	1397.4	1287.4	1216.2
20197.1	47.5°	14614.1	7187.4	2031.4	1423.2	1520.3	1636.7	1371.5	1248.6	1145.1	1093.3
23373.5	50°	16846.0	7407.3	1707.9	1300.3	1436.2	1481.5	1177.4	1132.1	1125.7	1022.1
26006.5	52.5°	18185.1	7323.2	1649.7	1455.6	1539.7	1481.5	1280.9	1248.6	1196.8	1151.5
28710.6	55°	20313.5	7569.1	1772.6	1701.4	1746.7	1423.2	1436.2	1423.2	1384.4	1268.0
31848.2	57.5°	22008.5	7730.8	1934.3	1902.0	1876.1	1481.5	1500.9	1507.3	1481.5	1429.7
35134.6	60°	24337.4	8054.2	2102.5	2109.0	2115.5	1610.8	1643.2	1682.0	1675.5	1656.1
38446.9	62.5°	25767.1	7905.5	2290.1	2393.6	2361.3	1876.1	1869.6	1895.5	1895.5	1927.8
39921.9	65°	25553.6	7355.6	2387.2	2645.9	2477.7	2070.2	2070.2	2083.1	2089.6	2154.3
39980.1	67°	24272.7	6372.2	2335.4	2684.7	2477.7	2147.8	2147.8	2160.7	2115.5	2283.7
39527.3	67.5°	23677.5	6081.1	2290.1	2652.4	2458.3	2141.3	2141.3	2147.8	2109.0	2270.7
36350.9	70°	20591.7	4515.6	1973.1	2348.3	2277.2	2083.1	2083.1	2044.3	2011.9	2225.4
31363.0	72.5°	17577.0	3279.9	1585.0	1999.0	2057.2	2005.5	2018.4	1921.4	1830.8	1979.6
24389.2	75°	13462.6	2413.0	1235.6	1539.7	1740.2	1876.1	1960.2	1714.4	1597.9	1636.7
13190.9	77.5°	7510.8	1572.0	976.9	1138.6	1326.2	1746.7	1882.6	1546.2	1306.8	1261.5
4457.3	80°	2548.9	918.6	718.1	847.5	912.2	1546.2	1759.6	1255.0	1028.6	983.3
1507.3	82.5°	963.9	562.8	491.7	582.2	582.2	1222.7	1436.2	963.9	776.3	1002.7
562.8	85°	439.9	336.4	323.5	336.4	336.4	750.4	1015.7	627.5	698.7	601.6
207.0	87.5°	174.7	161.7	148.8	142.3	116.4	129.4	349.3	168.2	317.0	84.1
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>
5809.4
4567.3
4347.4
4483.2
4489.7
4567.3
4535.0
4340.9
4237.4
3888.0
3577.5
3163.5
2768.8
2458.3
2199.6
1876.1
1468.5
1319.7
1255.0
1099.8
1015.7
1099.8
1300.3
1475.0
1669.1
1947.3
2160.7
2231.9
2219.0
2180.1
1940.8
1565.6
1261.5
951.0
1022.1
530.5
77.6
0.0

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