

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: P574654

Luminaire Tested: **EPH-VN-08-735-U-T2R**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P574654
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-08-735-U-T2R
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (128) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

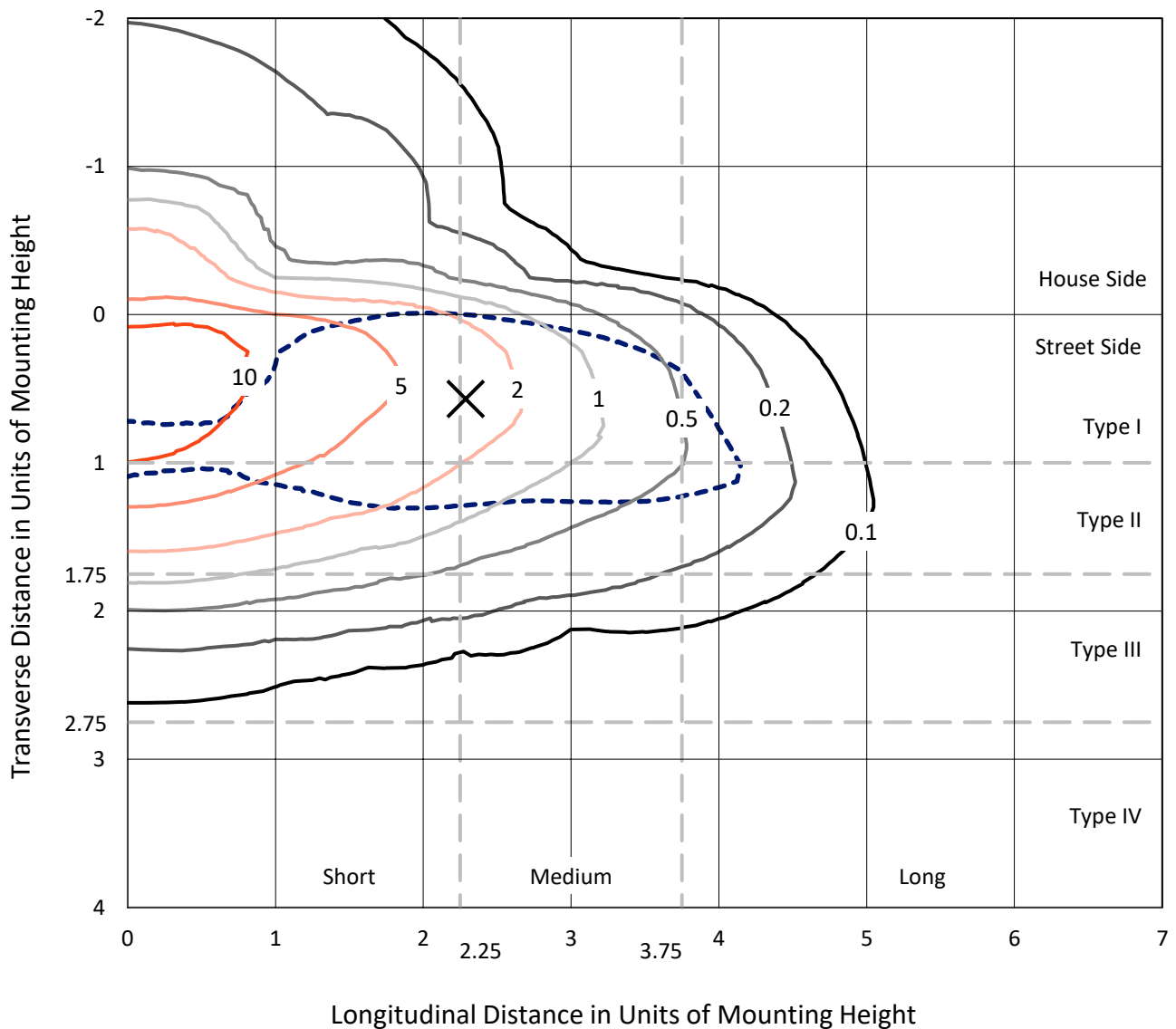
Lumens per Lamp: N/A
Luminaire Lumens: 55292.9 lumens
Efficiency: N/A
Efficacy: 113.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 488.3
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

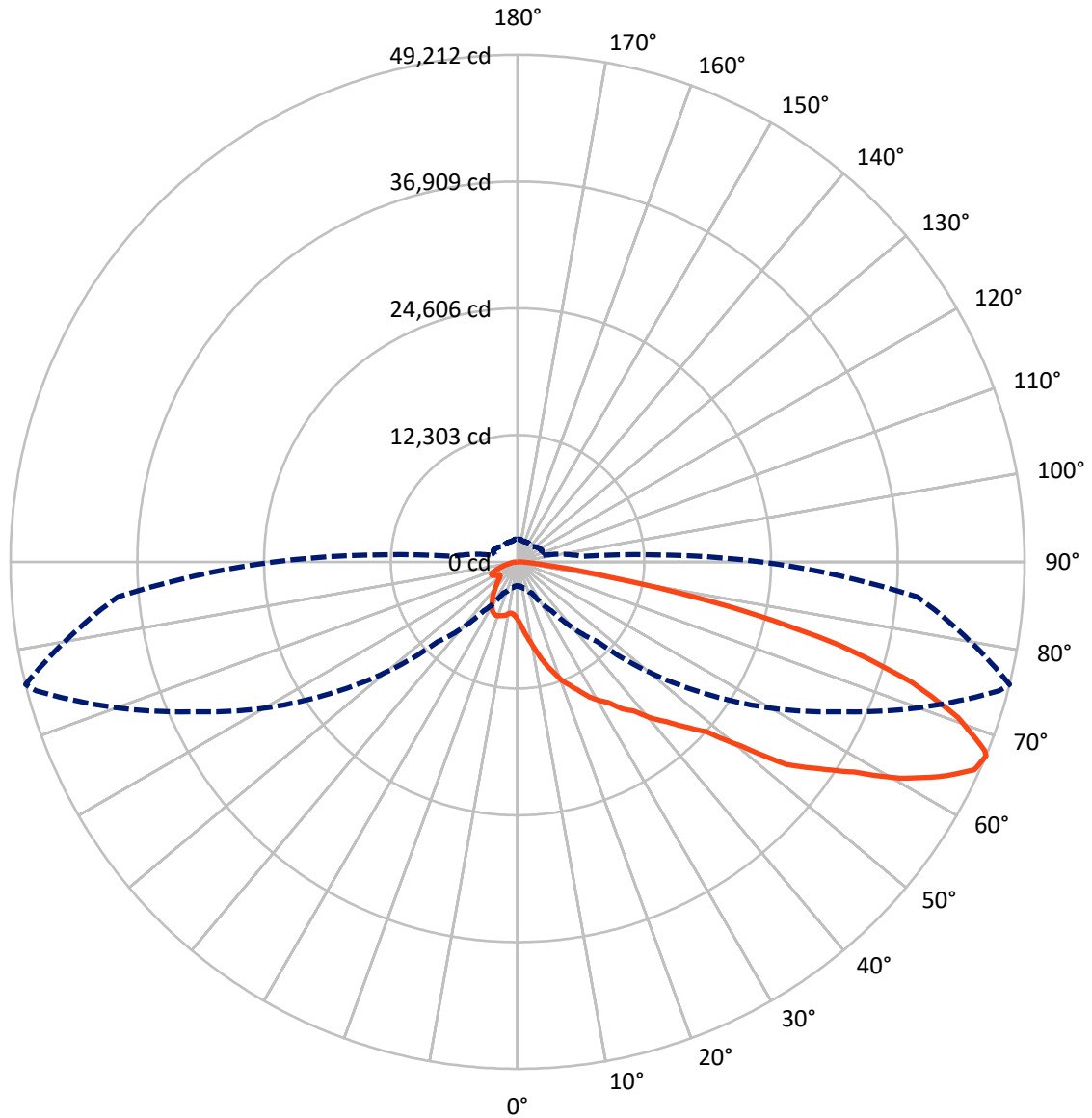
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 14.7 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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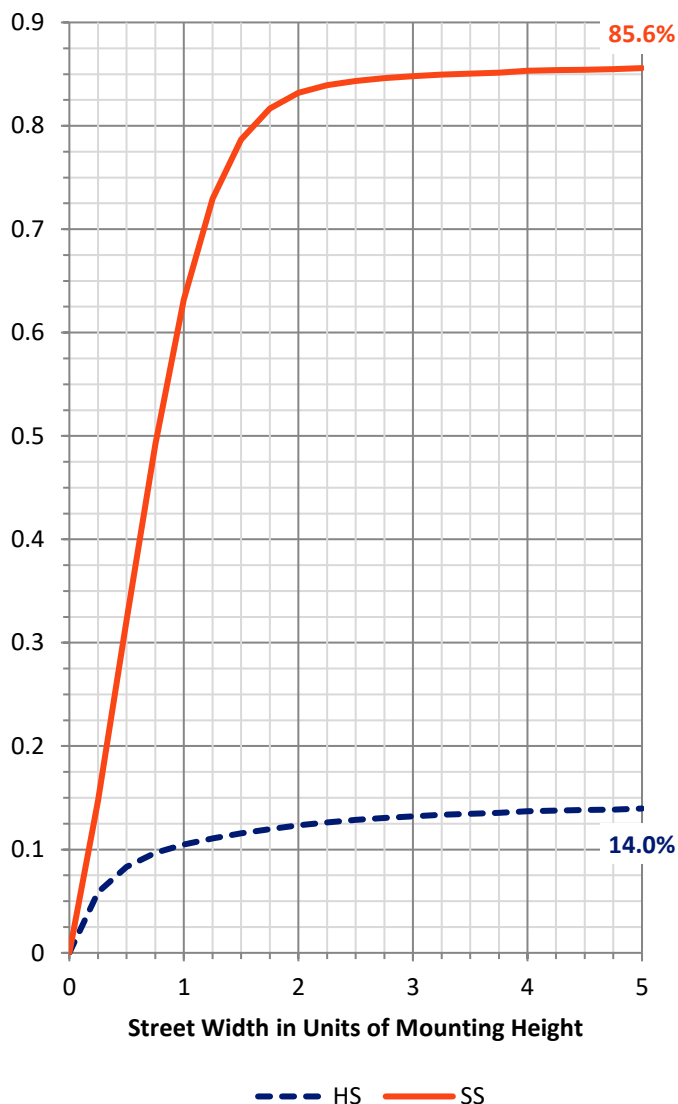
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7866.1	0.0	7866.1
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	47426.8	0.0	47426.8
	% Fixture	85.8	0.0	85.8
Total	Lumens	55292.9	0.0	55292.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	655.4	1.2
10°-20°	2458.2	4.4
20°-30°	4570.2	8.3
30°-40°	7244.8	13.1
40°-50°	10020.2	18.1
50°-60°	12325.5	22.3
60°-70°	11469.5	20.7
70°-80°	5755.3	10.4
80°-90°	793.6	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°	55292.9	100.0
0°-180°	55292.9	100.0

Coefficient of Utilization

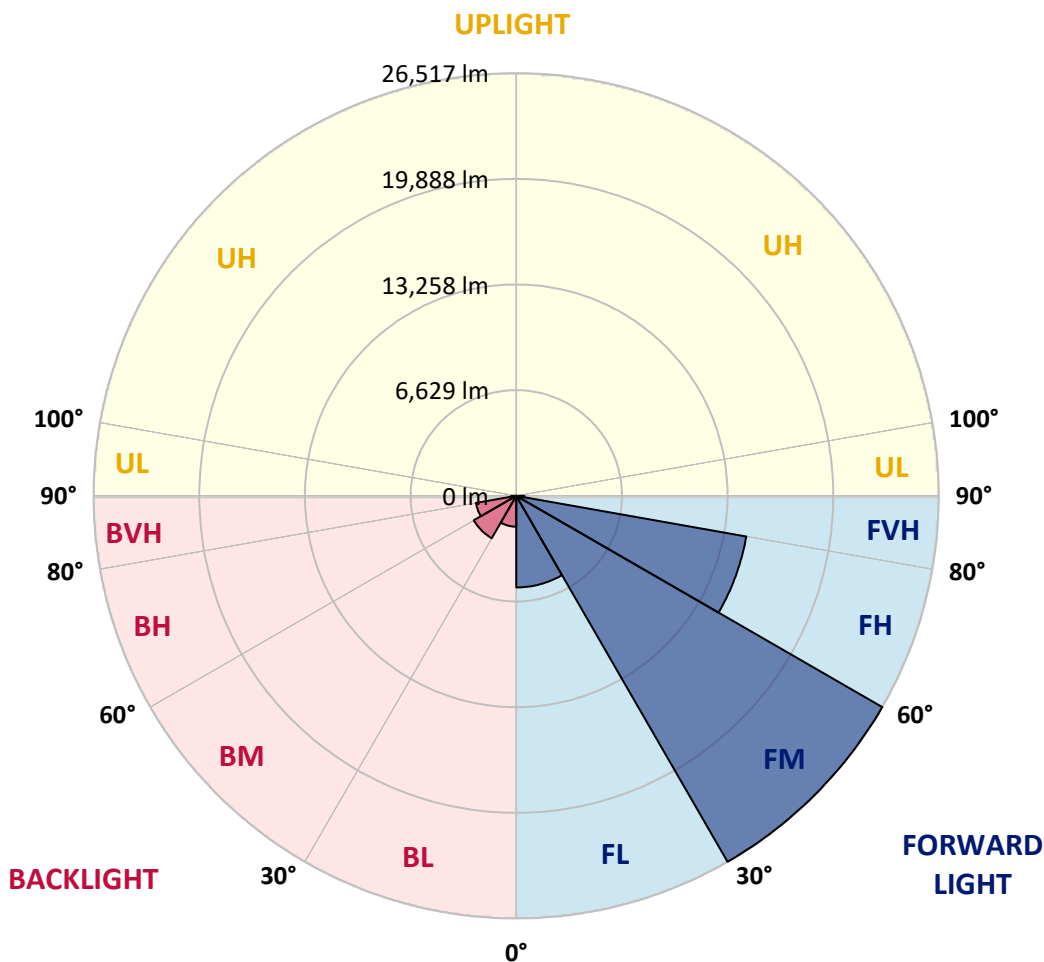


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5746.8	10.4			
FM (30°-60°)	26516.7	48.0			
FH (60°-80°)	14657.7	26.5			G5
FVH (80°-90°)	505.6	0.9			G4/750
BL (0°-30°)	1937.1	3.5	B3/2500		
BM (30°-60°)	3073.9	5.6	B3/5000		
BH (60°-80°)	2567.1	4.6	B4/5000		G4/5000
BVH (80°-90°)	288.0	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°	5658.4	5658.4	5658.4	5658.4	5658.4	5658.4	5658.4	5658.4	5658.4	5658.4
2.5°	7851.2	7756.7	7662.1	7460.5	7391.2	7202.2	6855.6	6471.2	6156.2	6112.1
5°	9741.5	9602.9	9571.4	9457.9	9098.8	8733.3	8166.2	7548.7	6780.0	6836.7
7.5°	11159.2	11077.3	10907.2	10800.1	10585.8	10100.7	9514.7	8695.5	7718.8	7529.8
10°	12230.4	12117.0	12110.7	12016.2	11902.8	11405.0	10957.6	9854.9	8601.0	8342.7
12.5°	12772.3	12753.4	13087.4	13087.4	13043.3	12835.3	12066.6	11058.4	9439.0	9350.8
15°	13358.3	13200.8	13490.7	13711.2	13824.6	13931.7	13295.3	12230.4	10510.2	10340.1
17.5°	13358.3	13345.7	13635.6	14001.0	14593.3	14732.0	14385.4	13307.9	11398.7	11272.7
20°	13131.5	13314.2	13515.9	14007.3	14650.1	15210.9	15311.7	14410.6	12381.7	12280.8
22.5°	14190.1	14013.6	14221.6	14410.6	14908.4	15759.0	16036.3	15381.0	13415.0	13030.7
25°	15967.0	15847.3	15696.0	15418.8	15626.7	15998.5	16420.7	16099.3	14297.2	13868.7
27.5°	17699.8	17706.1	17378.4	16773.5	16326.1	16401.8	16899.5	16729.4	15040.7	14851.7
30°	20163.5	20012.3	19646.8	18827.7	17951.8	17233.5	17151.6	17315.4	15985.9	15620.4
32.5°	22009.7	22041.2	21524.6	20346.2	19149.0	18563.0	17844.7	17914.0	16584.5	16313.5
35°	23503.1	23465.3	23099.8	22123.2	20705.4	19999.7	19029.3	18632.3	17977.0	17548.6
37.5°	25116.2	24807.4	24215.1	23112.4	22205.1	21228.4	20283.2	19388.5	18903.3	18386.6
40°	25765.2	25765.2	24971.3	24467.2	23389.7	22652.4	22041.2	20384.1	20031.2	19930.4
42.5°	25305.2	25588.8	25261.1	24687.7	24246.6	23314.1	23150.2	21417.4	21423.7	21222.1
45°	25261.1	24870.4	24599.5	24744.4	24536.5	24486.1	24901.9	22847.8	22885.6	22860.4
47.5°	23994.6	23818.1	24221.4	24460.9	24631.0	25412.3	26609.5	24555.4	24826.3	24637.3
50°	22734.4	22702.9	22954.9	23824.5	24561.7	25847.1	28235.2	27189.2	28077.7	28065.1
52.5°	19281.4	19615.3	20604.6	22444.5	24265.5	26439.4	29463.9	30554.0	32249.0	32709.0
55°	15979.6	15803.2	17265.0	19936.7	22973.8	26672.5	30837.6	32576.7	35071.9	35405.9
57.5°	12432.1	12759.7	13912.8	16477.4	20302.1	25519.4	31845.7	34574.1	38260.3	38518.6
60°	9275.2	9319.3	10585.8	12652.6	16748.3	22917.1	32173.4	36622.0	41914.9	42652.1
62.5°	5834.8	6099.5	7063.5	9098.8	12608.5	19275.1	30705.2	37863.3	45746.0	45941.3
65°	3144.2	3314.4	4039.0	5318.1	8808.9	14580.7	26811.2	37119.8	47548.1	48707.5
67°	2325.1	2356.6	2690.6	3396.3	5891.5	10976.5	22356.3	34429.2	48367.2	49211.6
67.5°	2180.2	2224.3	2488.9	3049.7	5223.6	10107.0	21190.6	33471.4	48001.8	48909.1
70°	1865.1	1877.7	1940.7	2098.3	2930.0	6080.6	14429.5	27428.7	44492.1	45361.6
72.5°	1657.2	1669.8	1695.0	1726.5	1984.8	3516.0	8777.4	21108.7	38669.8	40056.1
75°	1455.6	1499.7	1512.3	1487.1	1688.7	2287.3	4669.1	15513.3	31543.3	32217.5
77.5°	1235.0	1253.9	1279.1	1304.3	1506.0	1707.6	2243.2	10472.4	21650.6	21241.0
80°	1039.7	1046.0	1064.9	1083.8	1304.3	1304.3	1272.8	5658.4	9457.9	9042.1
82.5°	743.5	787.6	831.7	882.2	1083.8	875.9	831.7	2520.4	2993.0	2848.1
85°	289.9	352.9	548.2	604.9	686.8	472.6	554.5	1090.1	1247.6	1235.0
87.5°	50.4	56.7	151.2	233.1	252.0	163.8	264.6	390.7	466.3	504.1
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°
5658.4	0°	5658.4	5658.4	5658.4	5658.4	5658.4	5658.4	5658.4	5658.4	5658.4	5658.4
5891.5	2.5°	5708.8	5513.5	5280.3	5047.2	4896.0	4656.5	4637.6	4492.7	4473.8	4423.4
6080.6	5°	5752.9	5519.8	5047.2	4675.4	4505.3	4366.7	4398.2	4335.2	4316.3	4284.7
6502.7	7.5°	6099.5	5639.5	4933.8	4612.4	4486.4	4423.4	4423.4	4347.8	4291.0	4328.9
7019.4	10°	6326.3	5696.2	5022.0	4700.6	4599.8	4461.2	4511.6	4417.1	4448.6	4373.0
7618.0	12.5°	6691.8	6017.5	5204.7	4832.9	4669.1	4543.1	4593.5	4486.4	4461.2	4467.5
8260.7	15°	7183.3	6231.8	5286.6	4908.6	4795.1	4637.6	4599.8	4505.3	4410.8	4379.3
8966.5	17.5°	7643.2	6496.4	5343.3	4952.7	4769.9	4593.5	4549.4	4429.7	4398.2	4303.6
9766.7	20°	8191.4	6811.5	5418.9	4990.5	4675.4	4499.0	4385.6	4265.8	4158.7	4102.0
10491.3	22.5°	8556.9	6975.3	5456.8	4914.9	4536.8	4373.0	4133.5	4051.6	3900.4	3837.4
11190.7	25°	9155.5	7177.0	5362.2	4706.9	4291.0	4026.4	3812.2	3698.7	3591.6	3509.7
11669.6	27.5°	9306.7	7328.2	5141.7	4354.1	3900.4	3623.1	3440.4	3301.8	3232.5	3106.4
12356.5	30°	9747.8	7177.0	4814.0	3925.6	3528.6	3245.1	3062.3	2961.5	2797.7	2766.2
12904.6	32.5°	10031.3	7221.1	4398.2	3509.7	3100.1	2848.1	2728.4	2627.6	2583.5	2432.2
13742.7	35°	10503.9	7069.8	3976.0	3125.3	2747.3	2551.9	2451.1	2419.6	2274.7	2205.4
14461.0	37.5°	10806.4	6981.6	3553.8	2690.6	2362.9	2281.0	2312.5	2180.2	2003.7	1871.4
15381.0	40°	11335.7	6950.1	3074.9	2331.4	2098.3	2079.4	2180.2	1928.1	1606.8	1493.4
16483.7	42.5°	12098.1	6735.9	2703.2	2010.1	1890.3	1972.2	1991.1	1606.8	1424.0	1329.5
17964.4	45°	12829.0	6780.0	2337.7	1663.5	1644.6	1764.3	1720.2	1361.0	1253.9	1184.6
19672.0	47.5°	14234.2	7000.5	1978.5	1386.2	1480.8	1594.2	1335.8	1216.1	1115.3	1064.9
22765.9	50°	16408.1	7214.8	1663.5	1266.5	1398.8	1443.0	1146.8	1102.7	1096.4	995.6
25330.4	52.5°	17712.4	7132.8	1606.8	1417.7	1499.7	1443.0	1247.6	1216.1	1165.7	1121.6
27964.3	55°	19785.4	7372.3	1726.5	1657.2	1701.3	1386.2	1398.8	1386.2	1348.4	1235.0
31020.3	57.5°	21436.3	7529.8	1884.0	1852.5	1827.3	1443.0	1461.9	1468.2	1443.0	1392.5
34221.3	60°	23704.7	7844.9	2047.9	2054.2	2060.5	1569.0	1600.5	1638.3	1632.0	1613.1
37447.4	62.5°	25097.3	7699.9	2230.6	2331.4	2299.9	1827.3	1821.0	1846.2	1846.2	1877.7
38884.1	65°	24889.3	7164.3	2325.1	2577.1	2413.3	2016.4	2016.4	2029.0	2035.3	2098.3
38940.8	67°	23641.7	6206.6	2274.7	2615.0	2413.3	2092.0	2092.0	2104.6	2060.5	2224.3
38499.7	67.5°	23062.0	5923.0	2230.6	2583.5	2394.4	2085.7	2085.7	2092.0	2054.2	2211.7
35405.9	70°	20056.4	4398.2	1921.8	2287.3	2218.0	2029.0	2029.0	1991.1	1959.6	2167.6
30547.7	72.5°	17120.1	3194.7	1543.8	1947.0	2003.7	1953.3	1965.9	1871.4	1783.2	1928.1
23755.1	75°	13112.6	2350.3	1203.5	1499.7	1695.0	1827.3	1909.2	1669.8	1556.4	1594.2
12847.9	77.5°	7315.6	1531.2	951.5	1109.0	1291.7	1701.3	1833.6	1506.0	1272.8	1228.7
4341.5	80°	2482.6	894.8	699.4	825.4	888.5	1506.0	1713.9	1222.4	1001.9	957.8
1468.2	82.5°	938.9	548.2	478.9	567.1	567.1	1190.9	1398.8	938.9	756.1	976.7
548.2	85°	428.5	327.7	315.1	327.7	327.7	730.9	989.3	611.2	680.5	586.0
201.6	87.5°	170.1	157.5	144.9	138.6	113.4	126.0	340.3	163.8	308.8	81.9
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>
5658.4
4448.6
4234.3
4366.7
4373.0
4448.6
4417.1
4228.0
4127.2
3787.0
3484.5
3081.2
2696.9
2394.4
2142.4
1827.3
1430.3
1285.4
1222.4
1071.2
989.3
1071.2
1266.5
1436.7
1625.7
1896.6
2104.6
2173.9
2161.3
2123.5
1890.3
1524.9
1228.7
926.3
995.6
516.7
75.6
0.0

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