

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: P574658

Luminaire Tested: **EPH-VN-06-740-U-T2R**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P574658
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-06-740-U-T2R
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

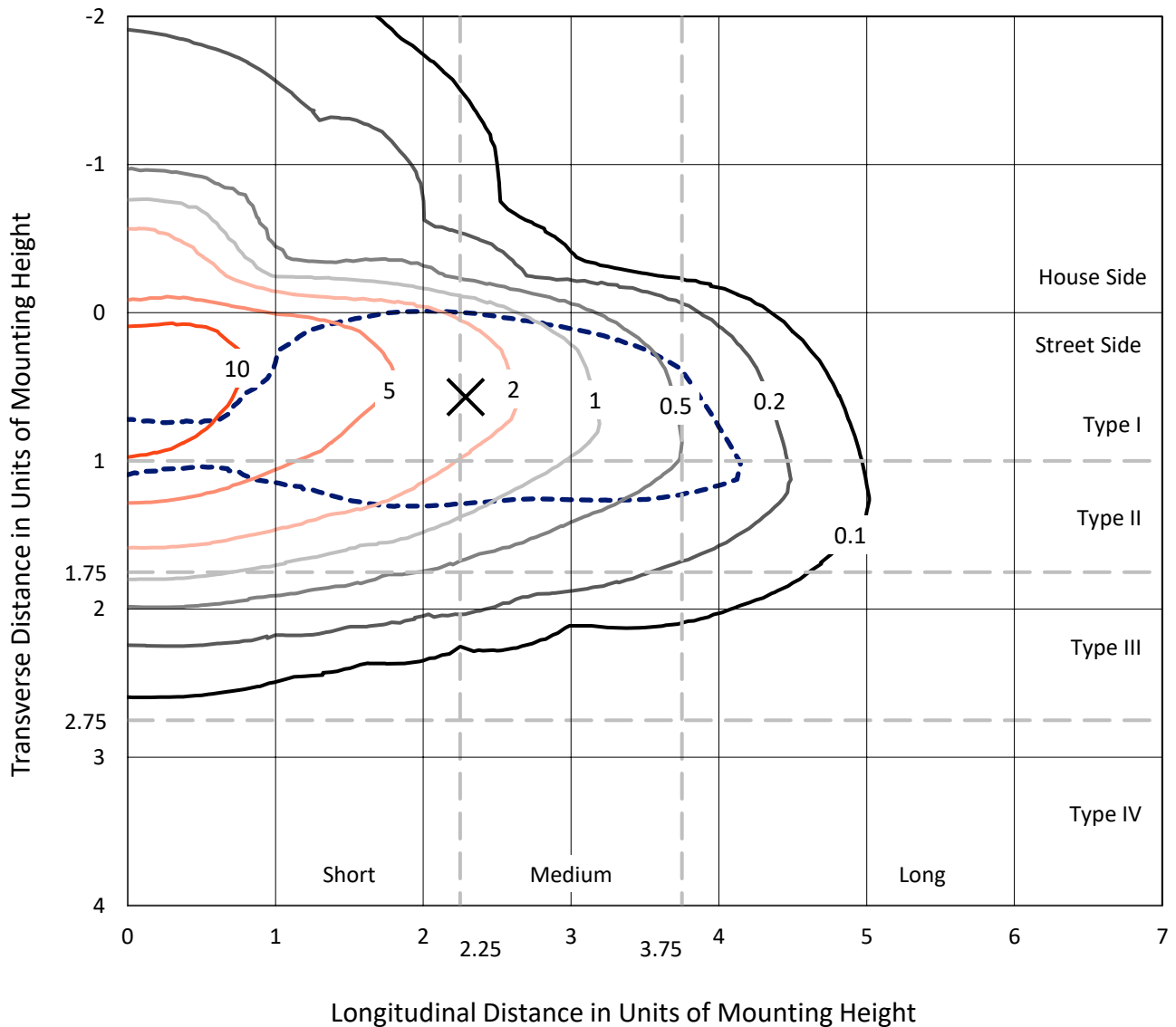
Lumens per Lamp: N/A
Luminaire Lumens: 53210.4 lumens
Efficiency: N/A
Efficacy: 114.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 464.2
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

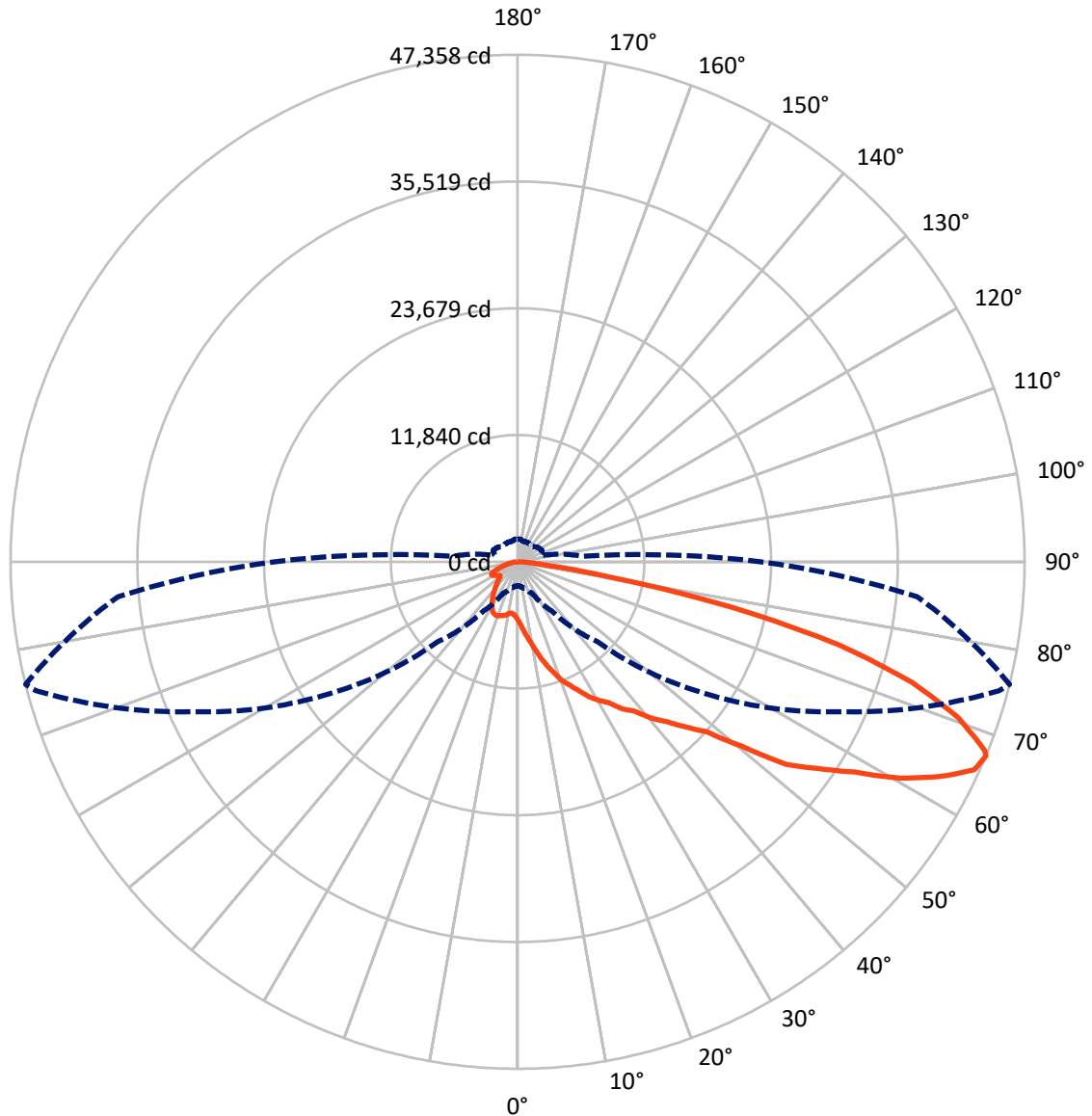
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 14.1 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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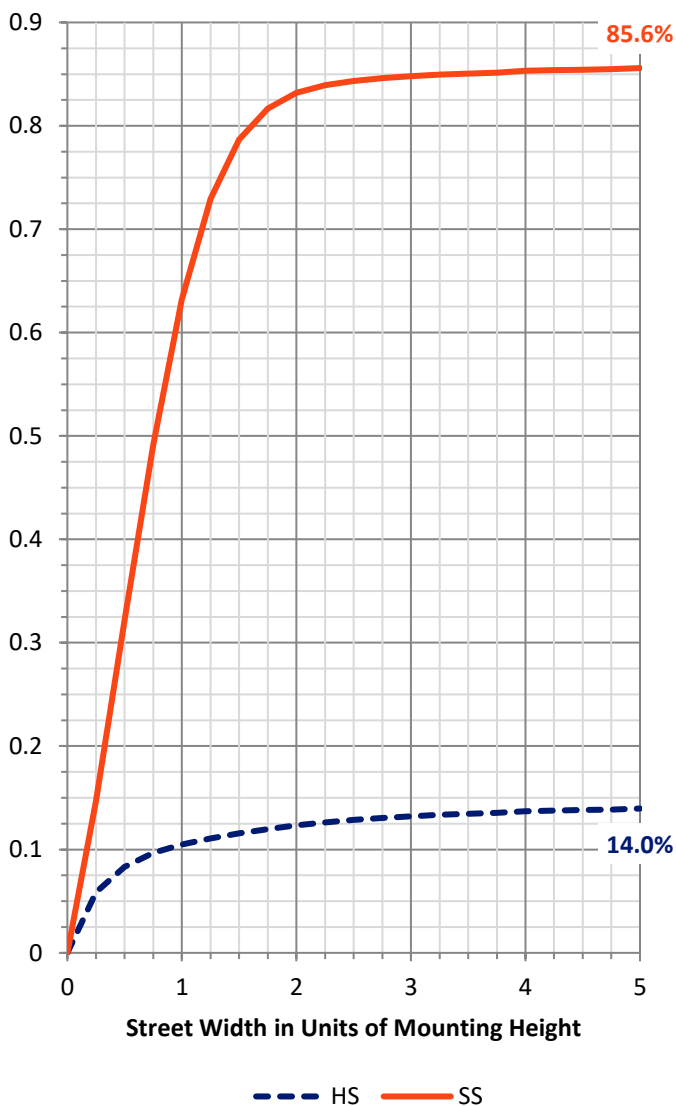
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7569.8	0.0	7569.8
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	45640.5	0.0	45640.5
	% Fixture	85.8	0.0	85.8
Total	Lumens	53210.4	0.0	53210.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	630.8	1.2
10°-20°	2365.7	4.4
20°-30°	4398.1	8.3
30°-40°	6972.0	13.1
40°-50°	9642.8	18.1
50°-60°	11861.3	22.3
60°-70°	11037.5	20.7
70°-80°	5538.6	10.4
80°-90°	763.7	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°	53210.4	100.0
0°-180°	53210.4	100.0

Coefficient of Utilization



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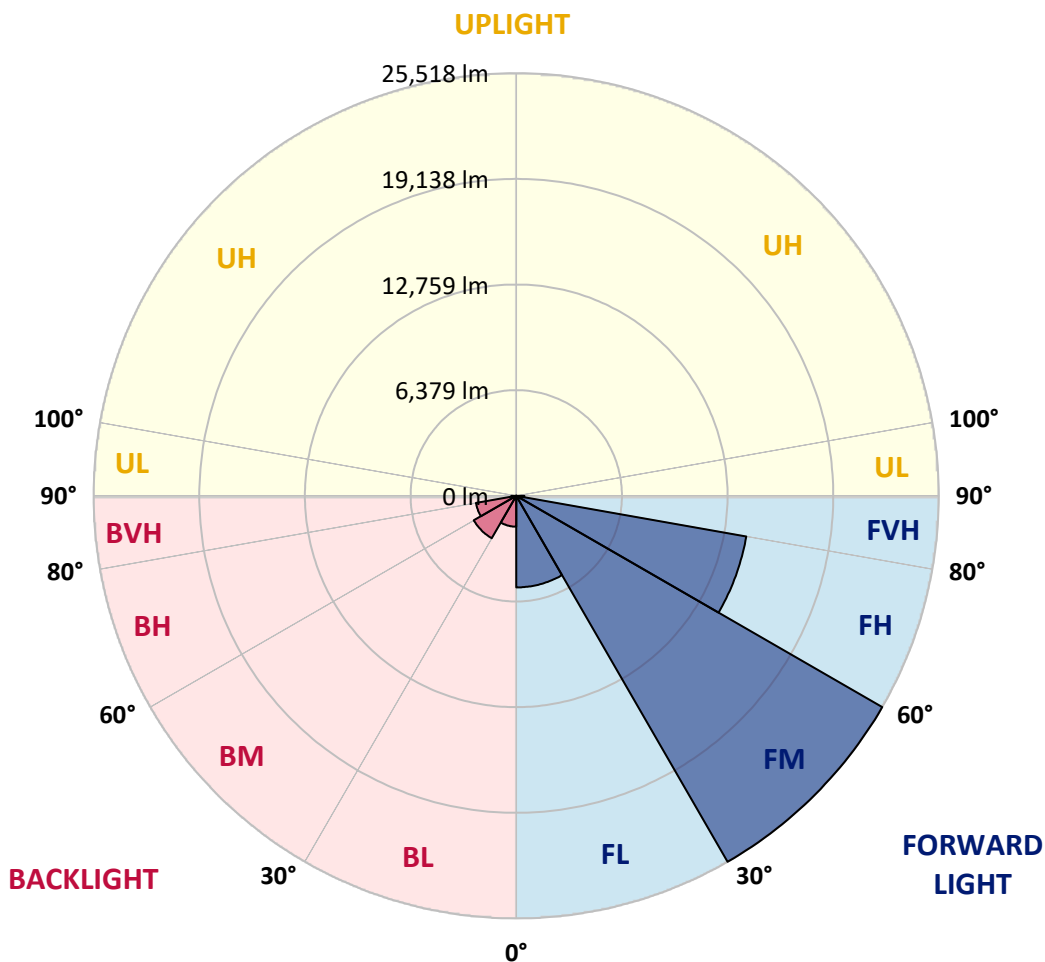
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5530.4	10.4			
FM (30°-60°)	25518.0	48.0			
FH (60°-80°)	14105.6	26.5			G5
FVH (80°-90°)	486.6	0.9			G3/500
BL (0°-30°)	1864.1	3.5	B3/2500		
BM (30°-60°)	2958.1	5.6	B3/5000		
BH (60°-80°)	2470.4	4.6	B3/2500		G3/2500
BVH (80°-90°)	277.1	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°
0°	5445.3	5445.3	5445.3	5445.3	5445.3	5445.3	5445.3	5445.3	5445.3	5445.3
2.5°	7555.5	7464.5	7373.5	7179.5	7112.8	6930.9	6597.4	6227.5	5924.3	5881.9
5°	9374.6	9241.2	9210.9	9101.7	8756.1	8404.4	7858.6	7264.4	6524.6	6579.2
7.5°	10738.9	10660.1	10496.4	10393.3	10187.1	9720.2	9156.3	8368.0	7428.1	7246.2
10°	11769.8	11660.6	11654.6	11563.6	11454.5	10975.4	10544.9	9483.7	8277.0	8028.4
12.5°	12291.3	12273.1	12594.5	12594.5	12552.0	12351.9	11612.1	10641.9	9083.5	8998.6
15°	12855.2	12703.6	12982.5	13194.8	13303.9	13407.0	12794.6	11769.8	10114.4	9950.6
17.5°	12855.2	12843.1	13122.0	13473.7	14043.7	14177.1	13843.6	12806.7	10969.4	10848.1
20°	12636.9	12812.7	13006.8	13479.8	14098.3	14637.9	14735.0	13867.8	11915.3	11818.3
22.5°	13655.6	13485.8	13685.9	13867.8	14346.9	15165.5	15432.3	14801.7	12909.8	12539.9
25°	15365.6	15250.4	15104.9	14838.0	15038.2	15395.9	15802.2	15492.9	13758.7	13346.4
27.5°	17033.1	17039.2	16723.9	16141.8	15711.2	15784.0	16263.0	16099.3	14474.2	14292.3
30°	19404.1	19258.5	18906.8	18118.5	17275.7	16584.4	16505.6	16663.2	15383.8	15032.1
32.5°	21180.8	21211.1	20713.8	19579.9	18427.8	17863.9	17172.6	17239.3	15959.8	15699.1
35°	22617.9	22581.5	22229.8	21289.9	19925.6	19246.4	18312.6	17930.6	17299.9	16887.6
37.5°	24170.2	23873.1	23303.1	22241.9	21368.7	20428.8	19519.3	18658.2	18191.3	17694.1
40°	24794.8	24794.8	24030.7	23545.6	22508.7	21799.3	21211.1	19616.3	19276.7	19179.7
42.5°	24352.1	24625.0	24309.7	23757.9	23333.4	22436.0	22278.3	20610.8	20616.8	20422.8
45°	24309.7	23933.7	23673.0	23812.4	23612.3	23563.8	23964.0	21987.2	22023.6	21999.4
47.5°	23090.8	22921.1	23309.1	23539.6	23703.3	24455.2	25607.3	23630.5	23891.3	23709.3
50°	21878.1	21847.8	22090.3	22927.1	23636.6	24873.6	27171.8	26165.2	27020.2	27008.0
52.5°	18555.1	18876.5	19828.5	21599.2	23351.6	25443.6	28354.2	29403.2	31034.4	31477.0
55°	15377.7	15207.9	16614.7	19185.8	22108.5	25667.9	29676.1	31349.7	33750.9	34072.3
57.5°	11963.8	12279.1	13388.8	15856.8	19537.5	24558.3	30646.3	33271.9	36819.2	37067.8
60°	8925.9	8968.3	10187.1	12176.1	16117.5	22053.9	30961.6	35242.6	40336.2	41045.7
62.5°	5615.1	5869.7	6797.5	8756.1	12133.6	18549.1	29548.8	36437.2	44023.0	44211.0
65°	3025.8	3189.5	3886.9	5117.8	8477.2	14031.6	25801.3	35721.7	45757.2	46873.0
67°	2237.5	2267.9	2589.2	3268.4	5669.6	10563.1	21514.3	33132.4	46545.5	47358.1
67.5°	2098.1	2140.5	2395.2	2934.9	5026.9	9726.3	20392.5	32210.8	46193.8	47067.0
70°	1794.9	1807.0	1867.6	2019.2	2819.7	5851.5	13886.0	26395.6	42816.3	43653.1
72.5°	1594.8	1606.9	1631.2	1661.5	1910.1	3383.6	8446.8	20313.6	37213.4	38547.4
75°	1400.7	1443.2	1455.3	1431.0	1625.1	2201.1	4493.3	14929.0	30355.2	31004.1
77.5°	1188.5	1206.7	1230.9	1255.2	1449.2	1643.3	2158.7	10078.0	20835.1	20441.0
80°	1000.5	1006.6	1024.8	1043.0	1255.2	1255.2	1224.9	5445.3	9101.7	8701.5
82.5°	715.5	758.0	800.4	848.9	1043.0	842.9	800.4	2425.5	2880.3	2740.8
85°	278.9	339.6	527.5	582.1	661.0	454.8	533.6	1049.0	1200.6	1188.5
87.5°	48.5	54.6	145.5	224.4	242.6	157.7	254.7	376.0	448.7	485.1
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°
5445.3	0°	5445.3	5445.3	5445.3	5445.3	5445.3	5445.3	5445.3	5445.3	5445.3	5445.3
5669.6	2.5°	5493.8	5305.8	5081.4	4857.1	4711.6	4481.1	4462.9	4323.5	4305.3	4256.8
5851.5	5°	5536.2	5311.9	4857.1	4499.3	4335.6	4202.2	4232.5	4171.9	4153.7	4123.4
6257.8	7.5°	5869.7	5427.1	4747.9	4438.7	4317.4	4256.8	4256.8	4184.0	4129.4	4165.8
6755.0	10°	6088.0	5481.6	4832.8	4523.6	4426.6	4293.1	4341.7	4250.7	4281.0	4208.3
7331.1	12.5°	6439.7	5790.9	5008.7	4650.9	4493.3	4372.0	4420.5	4317.4	4293.1	4299.2
7949.6	15°	6912.7	5997.1	5087.5	4723.7	4614.5	4462.9	4426.6	4335.6	4244.6	4214.3
8628.7	17.5°	7355.4	6251.7	5142.1	4766.1	4590.3	4420.5	4378.0	4262.8	4232.5	4141.6
9398.8	20°	7882.9	6554.9	5214.8	4802.5	4499.3	4329.5	4220.4	4105.2	4002.1	3947.5
10096.2	22.5°	8234.6	6712.6	5251.2	4729.7	4365.9	4208.3	3977.8	3899.0	3753.5	3692.8
10769.3	25°	8810.7	6906.6	5160.3	4529.6	4129.4	3874.7	3668.6	3559.4	3456.3	3377.5
11230.1	27.5°	8956.2	7052.2	4948.0	4190.1	3753.5	3486.7	3310.8	3177.4	3110.7	2989.4
11891.1	30°	9380.7	6906.6	4632.7	3777.7	3395.7	3122.8	2947.0	2850.0	2692.3	2662.0
12418.6	32.5°	9653.5	6949.1	4232.5	3377.5	2983.4	2740.8	2625.6	2528.6	2486.1	2340.6
13225.1	35°	10108.3	6803.6	3826.2	3007.6	2643.8	2455.8	2358.8	2328.5	2189.0	2122.3
13916.4	37.5°	10399.4	6718.7	3420.0	2589.2	2273.9	2195.1	2225.4	2098.1	1928.3	1800.9
14801.7	40°	10908.7	6688.3	2959.1	2243.6	2019.2	2001.0	2098.1	1855.5	1546.3	1437.1
15862.8	42.5°	11642.4	6482.2	2601.4	1934.3	1819.1	1898.0	1916.2	1546.3	1370.4	1279.5
17287.8	45°	12345.8	6524.6	2249.7	1600.8	1582.6	1697.9	1655.4	1309.8	1206.7	1140.0
18931.1	47.5°	13698.1	6736.8	1904.0	1334.0	1425.0	1534.1	1285.5	1170.3	1073.3	1024.8
21908.4	50°	15790.1	6943.0	1600.8	1218.8	1346.2	1388.6	1103.6	1061.2	1055.1	958.1
24376.4	52.5°	17045.3	6864.2	1546.3	1364.3	1443.2	1388.6	1200.6	1170.3	1121.8	1079.4
26911.0	55°	19040.2	7094.6	1661.5	1594.8	1637.2	1334.0	1346.2	1334.0	1297.6	1188.5
29851.9	57.5°	20628.9	7246.2	1813.1	1782.7	1758.5	1388.6	1406.8	1412.9	1388.6	1340.1
32932.3	60°	22811.9	7549.4	1970.7	1976.8	1982.9	1509.9	1540.2	1576.6	1570.5	1552.3
36037.0	62.5°	24152.0	7409.9	2146.6	2243.6	2213.3	1758.5	1752.4	1776.7	1776.7	1807.0
37419.5	65°	23951.9	6894.5	2237.5	2480.1	2322.4	1940.4	1940.4	1952.5	1958.6	2019.2
37474.1	67°	22751.3	5972.8	2189.0	2516.5	2322.4	2013.2	2013.2	2025.3	1982.9	2140.5
37049.6	67.5°	22193.4	5699.9	2146.6	2486.1	2304.2	2007.1	2007.1	2013.2	1976.8	2128.4
34072.3	70°	19301.0	4232.5	1849.5	2201.1	2134.4	1952.5	1952.5	1916.2	1885.8	2085.9
29397.2	72.5°	16475.3	3074.3	1485.6	1873.7	1928.3	1879.8	1891.9	1800.9	1716.0	1855.5
22860.4	75°	12618.7	2261.8	1158.2	1443.2	1631.2	1758.5	1837.3	1606.9	1497.8	1534.1
12364.0	77.5°	7040.0	1473.5	915.6	1067.2	1243.1	1637.2	1764.6	1449.2	1224.9	1182.4
4177.9	80°	2389.1	861.1	673.1	794.4	855.0	1449.2	1649.3	1176.4	964.1	921.7
1412.9	82.5°	903.5	527.5	460.8	545.7	545.7	1146.1	1346.2	903.5	727.7	939.9
527.5	85°	412.3	315.3	303.2	315.3	315.3	703.4	952.0	588.2	654.9	563.9
194.0	87.5°	163.7	151.6	139.5	133.4	109.1	121.3	327.4	157.7	297.1	78.8
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>
5445.3
4281.0
4074.9
4202.2
4208.3
4281.0
4250.7
4068.8
3971.8
3644.3
3353.3
2965.2
2595.3
2304.2
2061.7
1758.5
1376.5
1237.0
1176.4
1030.8
952.0
1030.8
1218.8
1382.5
1564.5
1825.2
2025.3
2092.0
2079.9
2043.5
1819.1
1467.4
1182.4
891.4
958.1
497.2
72.8
0.0

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