

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: P574643

Luminaire Tested: **EPH-VN-03-730-U-T2R**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P574643
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-03-730-U-T2R
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (48) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24700 lumens
Efficiency: N/A
Efficacy: 106.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

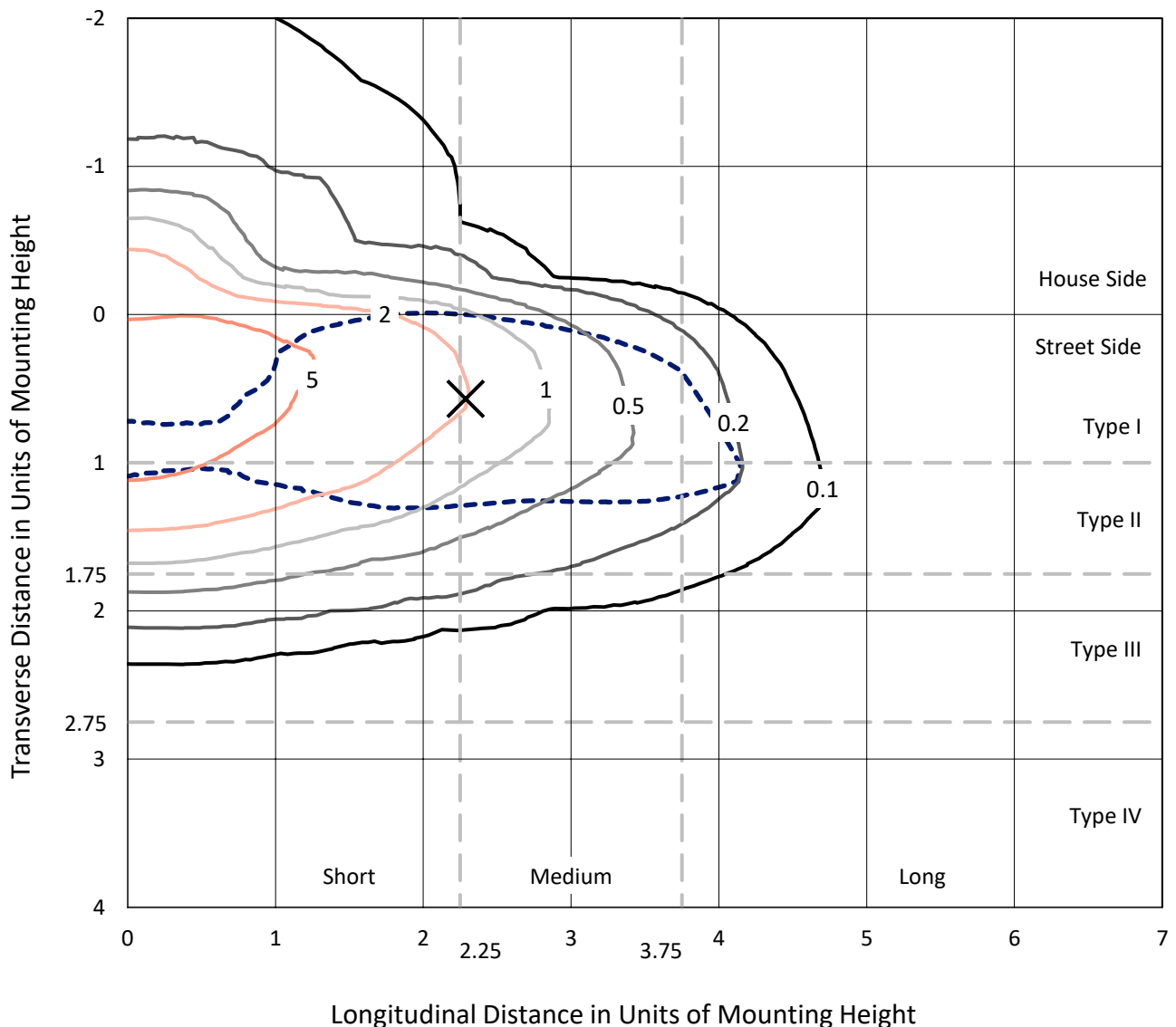
Input Watts (W): 232.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

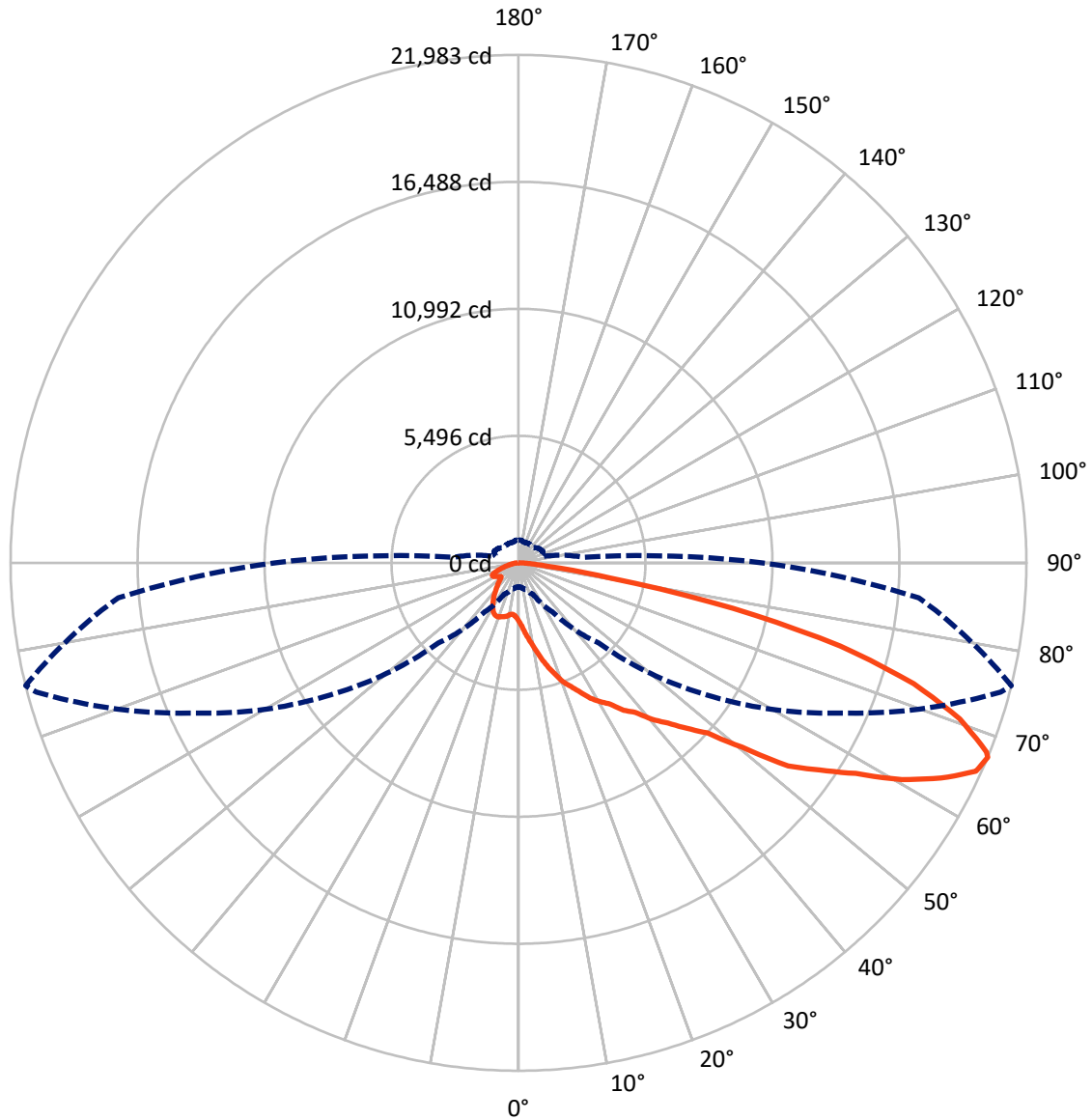
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 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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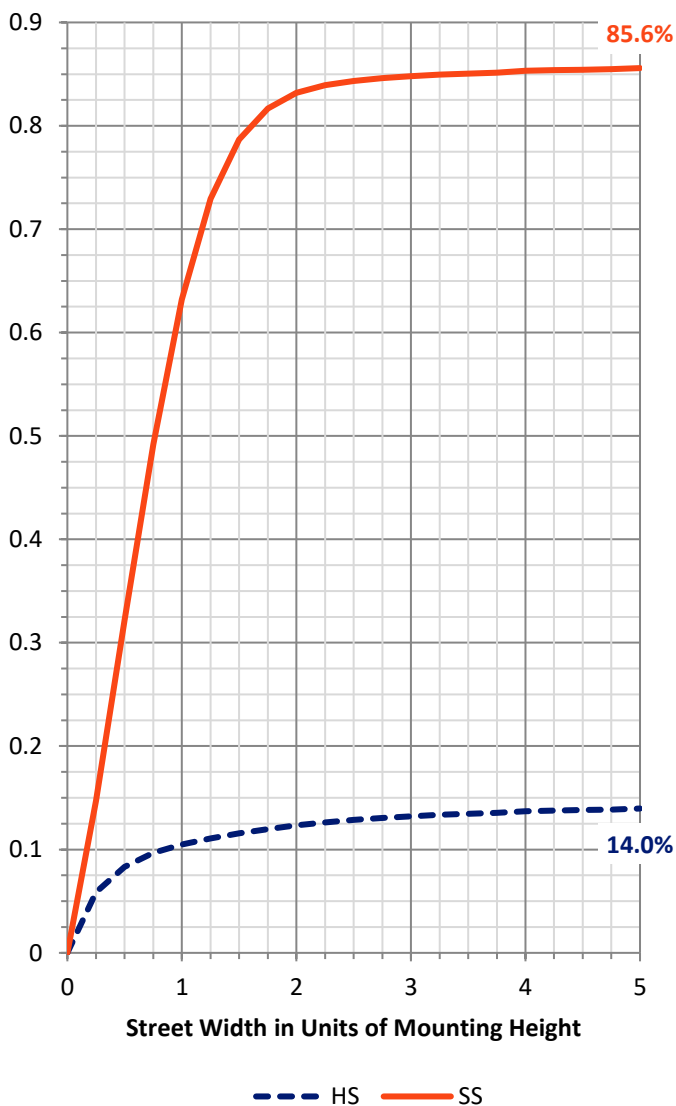
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3513.9	0.0	3513.9
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	21186.1	0.0	21186.1
	% Fixture	85.8	0.0	85.8
Total	Lumens	24700.0	0.0	24700.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	292.8	1.2
10°-20°	1098.1	4.4
20°-30°	2041.6	8.3
30°-40°	3236.4	13.1
40°-50°	4476.2	18.1
50°-60°	5506.0	22.3
60°-70°	5123.6	20.7
70°-80°	2571.0	10.4
80°-90°	354.5	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°	24700.0	100.0
0°-180°	24700.0	100.0

Coefficient of Utilization

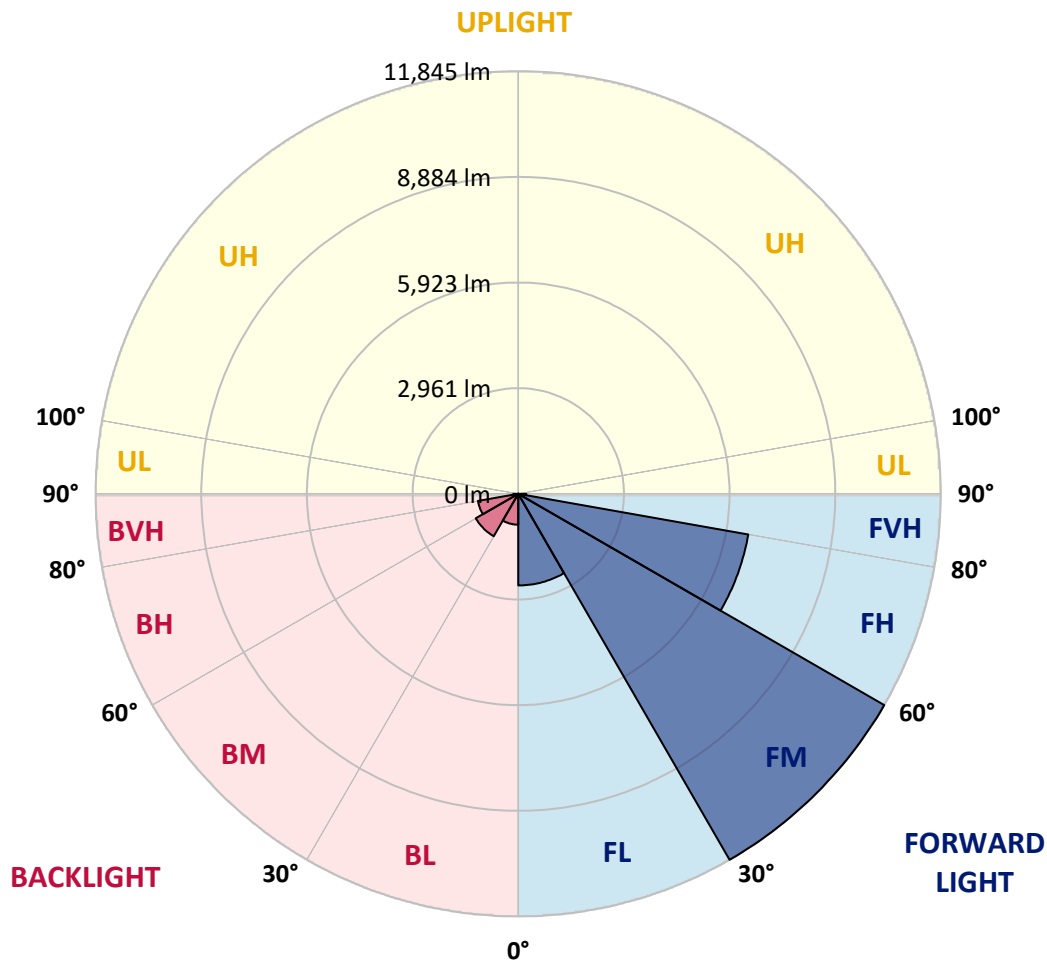


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2567.2	10.4			
FM (30°-60°)	11845.3	48.0			
FH (60°-80°)	6547.8	26.5			G3/7500
FVH (80°-90°)	225.9	0.9			G3/500
BL (0°-30°)	865.3	3.5	B2/1000		
BM (30°-60°)	1373.2	5.6	B2/2500		
BH (60°-80°)	1146.8	4.6	B3/2500		G3/2500
BVH (80°-90°)	128.6	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°
0°	2527.7	2527.7	2527.7	2527.7	2527.7	2527.7	2527.7	2527.7	2527.7	2527.7
2.5°	3507.2	3465.0	3422.8	3332.7	3301.7	3217.3	3062.5	2890.8	2750.0	2730.3
5°	4351.6	4289.7	4275.6	4225.0	4064.5	3901.3	3647.9	3372.1	3028.7	3054.0
7.5°	4985.0	4948.4	4872.4	4824.5	4728.8	4512.1	4250.3	3884.4	3448.1	3363.7
10°	5463.5	5412.8	5410.0	5367.8	5317.1	5094.7	4894.9	4402.3	3842.2	3726.8
12.5°	5705.5	5697.1	5846.3	5846.3	5826.6	5733.7	5390.3	4939.9	4216.5	4177.1
15°	5967.3	5896.9	6026.4	6124.9	6175.6	6223.5	5939.2	5463.5	4695.0	4619.0
17.5°	5967.3	5961.7	6091.2	6254.4	6519.0	6580.9	6426.1	5944.8	5091.9	5035.6
20°	5866.0	5947.6	6037.7	6257.2	6544.3	6794.9	6839.9	6437.4	5531.0	5486.0
22.5°	6338.9	6260.1	6352.9	6437.4	6659.7	7039.7	7163.6	6870.9	5992.6	5820.9
25°	7132.6	7079.1	7011.6	6887.7	6980.6	7146.7	7335.3	7191.7	6386.7	6195.3
27.5°	7906.7	7909.5	7763.1	7492.9	7293.1	7326.8	7549.2	7473.2	6718.9	6634.4
30°	9007.3	8939.7	8776.5	8410.5	8019.3	7698.4	7661.8	7735.0	7141.1	6977.8
32.5°	9832.0	9846.1	9615.3	9088.9	8554.1	8292.3	7971.4	8002.4	7408.5	7287.4
35°	10499.1	10482.2	10319.0	9882.7	9249.3	8934.1	8500.6	8323.3	8030.5	7839.1
37.5°	11219.7	11081.8	10817.2	10324.6	9919.3	9483.0	9060.7	8661.1	8444.3	8213.5
40°	11509.6	11509.6	11154.9	10929.8	10448.4	10119.1	9846.1	9105.8	8948.2	8903.1
42.5°	11304.1	11430.8	11284.4	11028.3	10831.2	10414.7	10341.5	9567.4	9570.2	9480.1
45°	11284.4	11109.9	10988.9	11053.6	10960.7	10938.2	11124.0	10206.4	10223.2	10212.0
47.5°	10718.6	10639.8	10820.0	10926.9	11002.9	11352.0	11886.8	10969.2	11090.2	11005.8
50°	10155.7	10141.6	10254.2	10642.7	10972.0	11546.2	12613.0	12145.7	12542.6	12537.0
52.5°	8613.2	8762.4	9204.3	10026.2	10839.7	11810.8	13161.9	13648.8	14406.0	14611.5
55°	7138.3	7059.4	7712.5	8905.9	10262.7	11914.9	13775.5	14552.4	15667.0	15816.2
57.5°	5553.5	5699.9	6215.0	7360.6	9069.2	11399.8	14225.9	15444.6	17091.3	17206.7
60°	4143.3	4163.0	4728.8	5652.1	7481.7	10237.3	14372.2	16359.5	18723.9	19053.2
62.5°	2606.5	2724.7	3155.4	4064.5	5632.4	8610.4	13716.4	16914.0	20435.2	20522.5
65°	1404.6	1480.6	1804.3	2375.7	3935.1	6513.4	11976.9	16581.8	21240.3	21758.2
67°	1038.7	1052.7	1201.9	1517.2	2631.8	4903.3	9986.8	15379.9	21606.2	21983.4
67.5°	973.9	993.6	1111.8	1362.3	2333.4	4514.9	9466.1	14952.1	21442.9	21848.3
70°	833.2	838.8	866.9	937.3	1308.9	2716.3	6445.8	12252.7	19875.1	20263.5
72.5°	740.3	745.9	757.2	771.2	886.7	1570.6	3921.0	9429.5	17274.3	17893.5
75°	650.2	669.9	675.5	664.3	754.4	1021.8	2085.7	6930.0	14090.7	14391.9
77.5°	551.7	560.1	571.4	582.7	672.7	762.8	1002.1	4678.1	9671.6	9488.6
80°	464.4	467.3	475.7	484.1	582.7	582.7	568.6	2527.7	4225.0	4039.2
82.5°	332.1	351.8	371.5	394.1	484.1	391.3	371.5	1125.9	1337.0	1272.3
85°	129.5	157.6	244.9	270.2	306.8	211.1	247.7	487.0	557.3	551.7
87.5°	22.5	25.3	67.6	104.1	112.6	73.2	118.2	174.5	208.3	225.2
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°
2527.7	0°	2527.7	2527.7	2527.7	2527.7	2527.7	2527.7	2527.7	2527.7	2527.7	2527.7
2631.8	2.5°	2550.2	2462.9	2358.8	2254.6	2187.1	2080.1	2071.7	2006.9	1998.5	1976.0
2716.3	5°	2569.9	2465.7	2254.6	2088.6	2012.6	1950.6	1964.7	1936.6	1928.1	1914.0
2904.8	7.5°	2724.7	2519.2	2204.0	2060.4	2004.1	1976.0	1976.0	1942.2	1916.9	1933.7
3135.7	10°	2826.0	2544.6	2243.4	2099.8	2054.8	1992.9	2015.4	1973.2	1987.2	1953.5
3403.1	12.5°	2989.3	2688.1	2325.0	2158.9	2085.7	2029.5	2052.0	2004.1	1992.9	1995.7
3690.2	15°	3208.8	2783.8	2361.6	2192.7	2142.0	2071.7	2054.8	2012.6	1970.3	1956.3
4005.4	17.5°	3414.3	2902.0	2386.9	2212.4	2130.8	2052.0	2032.3	1978.8	1964.7	1922.5
4362.9	20°	3659.2	3042.8	2420.7	2229.3	2088.6	2009.7	1959.1	1905.6	1857.7	1832.4
4686.6	22.5°	3822.5	3116.0	2437.6	2195.5	2026.6	1953.5	1846.5	1809.9	1742.3	1714.2
4999.0	25°	4089.9	3206.0	2395.4	2102.6	1916.9	1798.6	1702.9	1652.3	1604.4	1567.8
5213.0	27.5°	4157.4	3273.6	2296.9	1945.0	1742.3	1618.5	1536.9	1474.9	1444.0	1387.7
5519.8	30°	4354.5	3206.0	2150.5	1753.6	1576.3	1449.6	1368.0	1322.9	1249.8	1235.7
5764.7	32.5°	4481.1	3225.7	1964.7	1567.8	1384.9	1272.3	1218.8	1173.8	1154.1	1086.5
6139.0	35°	4692.2	3158.2	1776.1	1396.1	1227.2	1140.0	1094.9	1080.9	1016.1	985.2
6459.9	37.5°	4827.3	3118.8	1587.5	1201.9	1055.5	1018.9	1033.0	973.9	895.1	836.0
6870.9	40°	5063.8	3104.7	1373.6	1041.5	937.3	928.9	973.9	861.3	717.8	667.1
7363.4	42.5°	5404.4	3009.0	1207.5	897.9	844.4	881.0	889.5	717.8	636.1	593.9
8024.9	45°	5730.9	3028.7	1044.3	743.1	734.7	788.1	768.4	608.0	560.1	529.2
8787.7	47.5°	6358.6	3127.2	883.8	619.2	661.5	712.1	596.7	543.3	498.2	475.7
10169.8	50°	7329.7	3222.9	743.1	565.8	624.9	644.6	512.3	492.6	489.8	444.7
11315.4	52.5°	7912.3	3186.3	717.8	633.3	669.9	644.6	557.3	543.3	520.7	501.0
12492.0	55°	8838.4	3293.3	771.2	740.3	760.0	619.2	624.9	619.2	602.4	551.7
13857.1	57.5°	9575.9	3363.7	841.6	827.5	816.3	644.6	653.0	655.8	644.6	622.1
15287.0	60°	10589.2	3504.4	914.8	917.6	920.4	700.9	715.0	731.8	729.0	720.6
16728.2	62.5°	11211.2	3439.7	996.4	1041.5	1027.4	816.3	813.5	824.7	824.7	838.8
17370.0	65°	11118.3	3200.4	1038.7	1151.2	1078.1	900.7	900.7	906.4	909.2	937.3
17395.3	67°	10561.0	2772.5	1016.1	1168.1	1078.1	934.5	934.5	940.1	920.4	993.6
17198.3	67.5°	10302.1	2645.9	996.4	1154.1	1069.6	931.7	931.7	934.5	917.6	988.0
15816.2	70°	8959.4	1964.7	858.5	1021.8	990.8	906.4	906.4	889.5	875.4	968.3
13646.0	72.5°	7647.7	1427.1	689.6	869.8	895.1	872.6	878.2	836.0	796.6	861.3
10611.7	75°	5857.5	1049.9	537.6	669.9	757.2	816.3	852.9	745.9	695.2	712.1
5739.3	77.5°	3267.9	684.0	425.0	495.4	577.0	760.0	819.1	672.7	568.6	548.9
1939.4	80°	1109.0	399.7	312.4	368.7	396.9	672.7	765.6	546.1	447.5	427.8
655.8	82.5°	419.4	244.9	213.9	253.3	253.3	532.0	624.9	419.4	337.8	436.3
244.9	85°	191.4	146.4	140.7	146.4	146.4	326.5	441.9	273.0	304.0	261.8
90.1	87.5°	76.0	70.4	64.7	61.9	50.7	56.3	152.0	73.2	137.9	36.6
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>
2527.7
1987.2
1891.5
1950.6
1953.5
1987.2
1973.2
1888.7
1843.7
1691.7
1556.6
1376.4
1204.7
1069.6
957.0
816.3
639.0
574.2
546.1
478.5
441.9
478.5
565.8
641.8
726.2
847.2
940.1
971.1
965.5
948.6
844.4
681.2
548.9
413.8
444.7
230.8
33.8
0.0

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