

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: P574859

Luminaire Tested: **EPH-VN-07-740-U-5NQ**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P574859  
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-5NQ  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ 5NQ distribution lens  
Light Source: (112) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

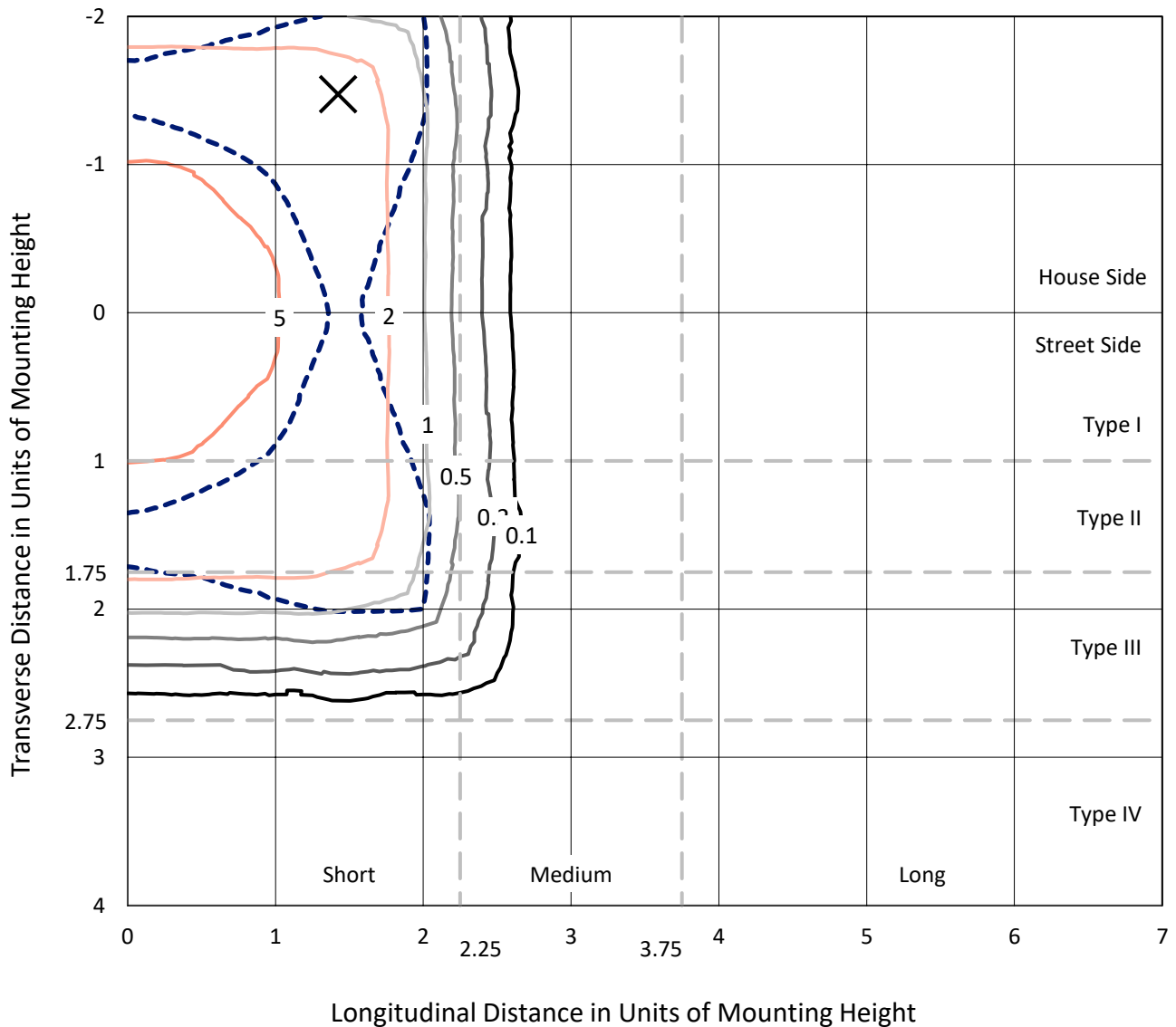
Lumens per Lamp: N/A  
Luminaire Lumens: 56303.2 lumens  
Efficiency: N/A  
Efficacy: 105.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4

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

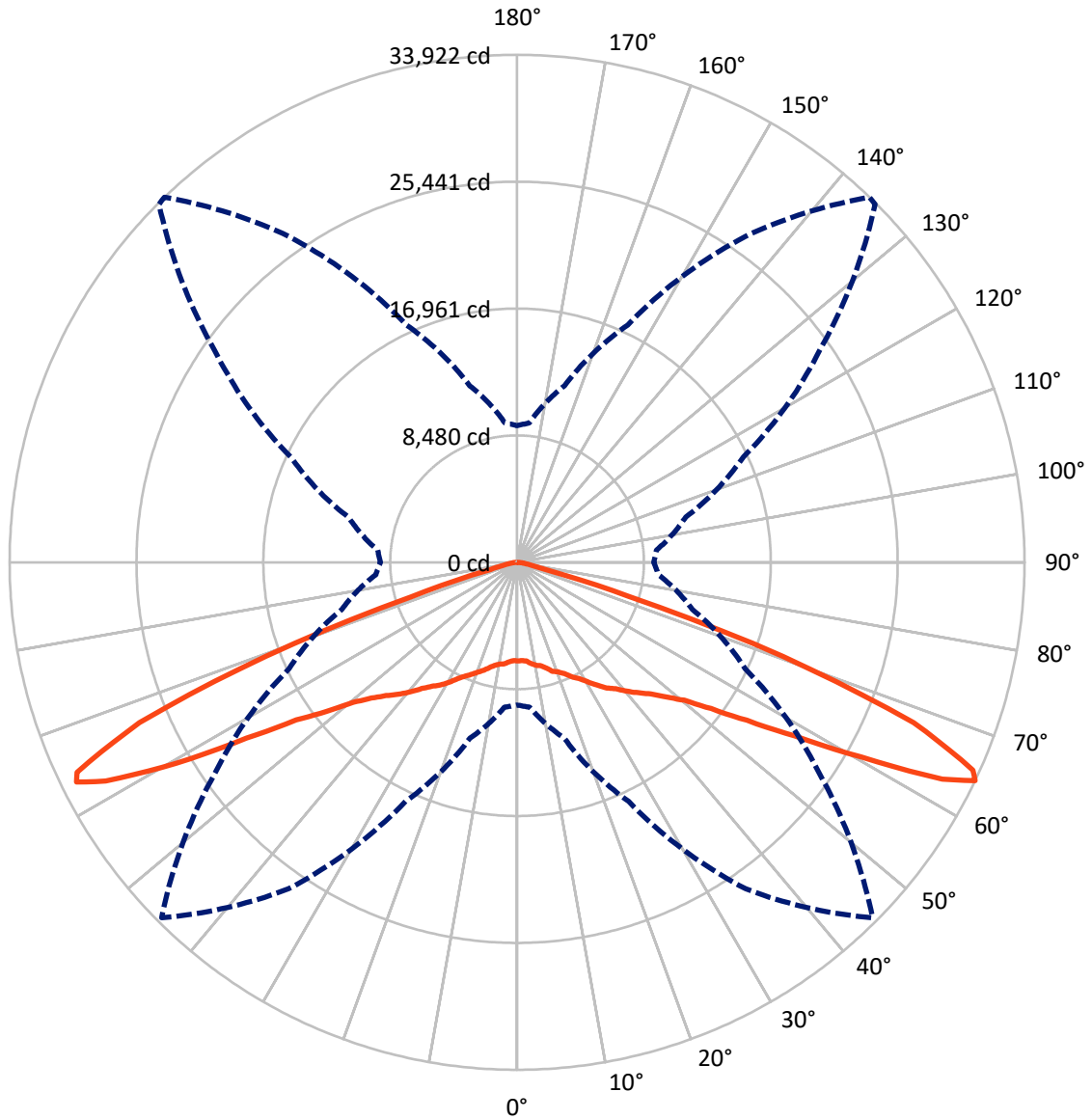
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.5 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 136-Deg Lateral      - - - Horizontal Cone Through 64-Deg Vertical

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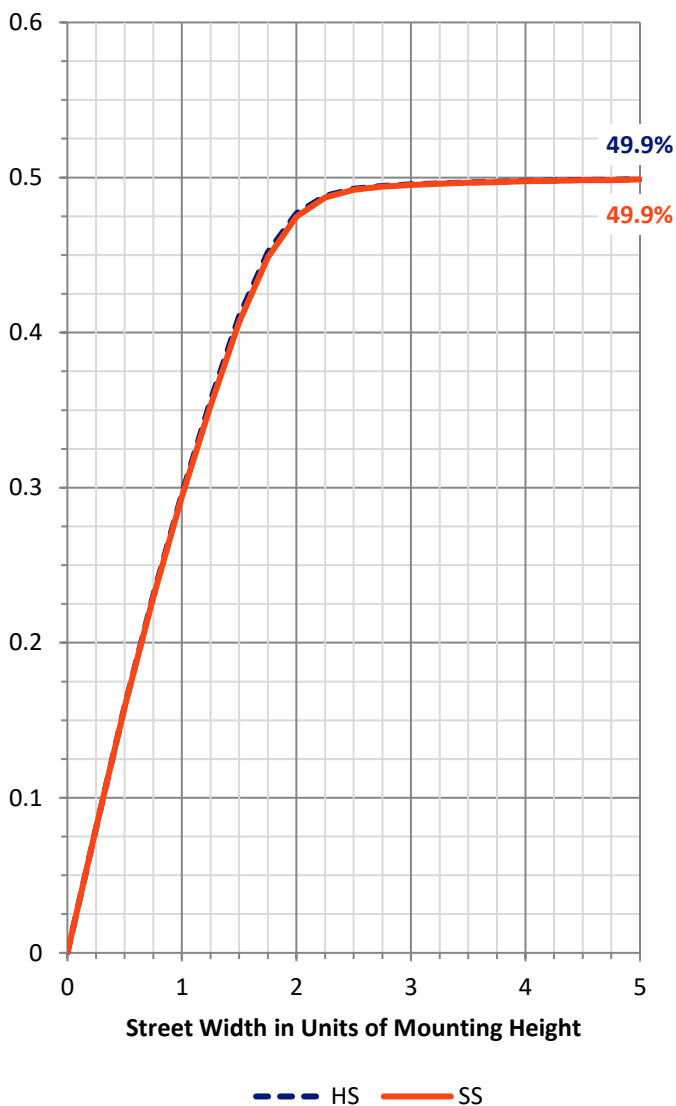
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	28178.4	0.0	28178.4
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	28124.7	0.0	28124.7
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	56303.2	0.0	56303.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	647.7	1.2
10°-20°	2087.6	3.7
20°-30°	3923.4	7.0
30°-40°	6470.3	11.5
40°-50°	10119.2	18.0
50°-60°	16350.1	29.0
60°-70°	14722.2	26.1
70°-80°	1743.9	3.1
80°-90°	238.7	0.4
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°	56303.2	100.0
0°-180°	56303.2	100.0

**Coefficient of Utilization**

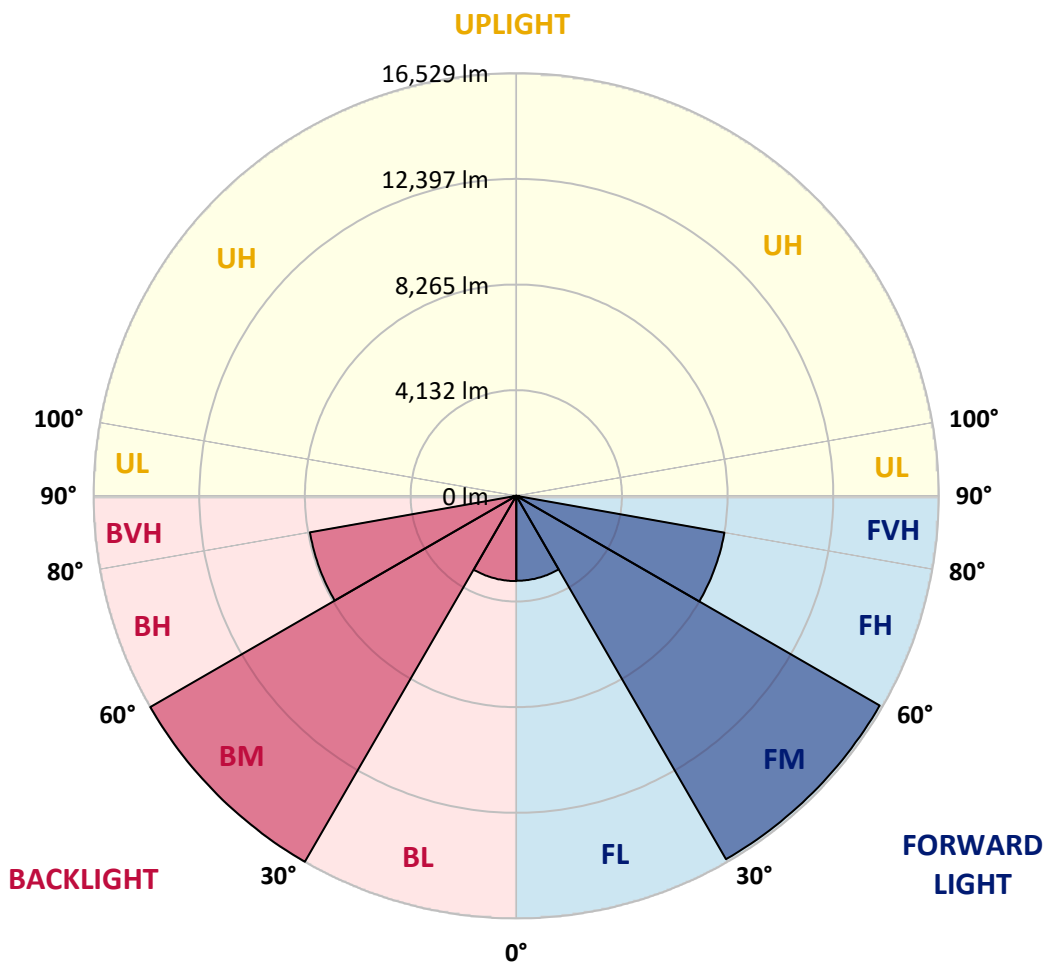


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3322.9	5.9			
FM (30°-60°)	16410.6	29.1			
FH (60°-80°)	8268.8	14.7			G4/12000
FVH (80°-90°)	122.5	0.2			G2/225
BL (0°-30°)	3335.7	5.9	B4/5000		
BM (30°-60°)	16529.0	29.4	B5		
BH (60°-80°)	8197.4	14.6	B5		G4/12000
BVH (80°-90°)	116.3	0.2			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G4**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6591.9	6591.9	6591.9	6591.9	6591.9	6591.9	6591.9	6591.9	6591.9	6591.9
2.5°	6514.5	6527.4	6643.6	6598.4	6637.1	6566.1	6617.8	6727.5	6598.4	6695.2
5°	6585.5	6604.9	6604.9	6650.0	6675.9	6663.0	6695.2	6650.0	6772.7	6721.1
7.5°	6843.7	6811.5	6759.8	6798.5	6805.0	6837.3	6869.6	6927.7	6908.3	6863.1
10°	6888.9	6863.1	6940.6	6947.0	6914.8	6888.9	6921.2	6921.2	6979.3	6992.2
12.5°	6966.4	6992.2	6985.8	7037.4	7043.9	7024.5	7076.2	7173.0	7147.2	7166.6
15°	7263.4	7231.1	7224.7	7276.3	7360.2	7237.6	7328.0	7321.5	7295.7	7334.4
17.5°	7521.7	7418.4	7463.6	7547.5	7515.2	7541.0	7657.2	7553.9	7579.8	7534.6
20°	7747.6	7663.7	7670.2	7702.4	7702.4	7779.9	7825.1	7786.4	7760.5	7754.1
22.5°	7999.4	7902.6	7909.0	8044.6	8089.8	8064.0	8031.7	8096.3	8109.2	8057.5
25°	8186.7	8290.0	8322.2	8386.8	8290.0	8361.0	8335.2	8457.8	8535.3	8432.0
27.5°	8677.3	8632.2	8716.1	8709.6	8787.1	8716.1	8761.3	8800.0	8832.3	8838.8
30°	9116.4	9135.7	9051.8	9277.8	9097.0	9213.2	9290.7	9310.1	9348.8	9348.8
32.5°	9581.2	9542.5	9678.1	9626.4	9594.1	9684.5	9600.6	9865.3	9710.4	9800.8
35°	10104.2	10104.2	10155.9	10297.9	10104.2	10046.1	10201.0	10310.8	10310.8	10149.4
37.5°	10691.7	10640.1	10704.6	10885.4	10736.9	10543.2	10827.3	10872.5	10840.2	10795.0
40°	11104.9	11092.0	11221.2	11460.0	11247.0	11208.2	11259.9	11382.6	11421.3	11466.5
42.5°	11802.2	11860.3	12234.8	12176.7	12002.4	11866.8	11853.9	12312.3	12202.5	12086.3
45°	12835.2	12783.6	12977.3	12983.7	12757.8	12460.8	12525.3	12945.0	13132.2	12874.0
47.5°	13655.2	13681.0	13816.6	14094.2	13571.3	13261.4	13500.2	14178.2	14120.1	14023.2
50°	14752.8	14869.0	15295.1	15198.3	14733.4	14352.5	14875.5	15514.6	15585.7	15230.6
52.5°	16270.0	16450.8	16683.2	16760.7	16315.2	16179.6	16211.9	17006.1	16831.7	16489.5
55°	17600.0	17684.0	18110.1	18749.3	18717.0	18064.9	18439.4	18736.4	18026.2	17322.4
57.5°	18168.2	18206.9	19394.9	20673.3	21435.1	21583.6	21157.5	20156.8	18465.2	17109.4
60°	16754.3	17122.3	18555.6	21441.6	24921.5	26638.9	23804.6	20318.2	17438.6	15792.3
62.5°	13390.5	13409.9	15540.5	19917.9	27090.9	31591.0	24818.2	18800.9	14701.1	12835.2
64°	9536.0	9716.8	12163.8	17632.3	26638.9	33605.3	24695.6	16818.8	12118.6	9471.5
65°	6843.7	7095.5	9458.6	15308.0	25580.1	33366.5	24327.6	15114.3	9800.8	7231.1
67.5°	2518.0	2621.3	3712.4	7657.2	18368.3	28433.8	19278.7	8309.3	4306.4	3066.8
70°	1168.6	1175.1	1375.2	2530.9	8031.7	19014.0	9200.3	3118.4	1620.5	1284.8
72.5°	858.7	878.1	962.0	1168.6	2363.0	8051.1	3021.6	1278.4	949.1	839.3
75°	697.3	710.2	736.0	845.8	1091.1	2156.4	1226.7	884.5	755.4	677.9
77.5°	535.9	535.9	594.0	645.6	723.1	1007.2	813.5	703.7	613.4	535.9
80°	387.4	393.8	464.9	503.6	490.7	665.0	587.5	581.1	503.6	419.7
82.5°	226.0	245.3	335.7	361.6	348.6	393.8	426.1	451.9	393.8	290.5
85°	129.1	135.6	193.7	200.1	200.1	187.2	245.3	271.2	264.7	180.8
87.5°	38.7	38.7	51.7	51.7	58.1	64.6	96.8	116.2	129.1	90.4
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):**

90°		95°	105°	115°	125°	135°	136°	145°	155°	165°	175°
6591.9	0°	6591.9	6591.9	6591.9	6591.9	6591.9	6591.9	6591.9	6591.9	6591.9	6591.9
6727.5	2.5°	6695.2	6598.4	6604.9	6630.7	6546.7	6579.0	6675.9	6604.9	6585.5	6546.7
6798.5	5°	6663.0	6766.3	6727.5	6740.4	6721.1	6630.7	6617.8	6675.9	6708.2	6650.0
6940.6	7.5°	6888.9	6843.7	6792.1	6811.5	6766.3	6843.7	6895.4	6779.2	6837.3	6805.0
6992.2	10°	7018.1	6934.1	6972.9	6960.0	6927.7	7005.1	6953.5	6940.6	6888.9	6817.9
7121.4	12.5°	7063.3	7160.1	7224.7	7114.9	7134.3	7095.5	7063.3	7063.3	7005.1	6985.8
7231.1	15°	7263.4	7347.3	7321.5	7405.4	7295.7	7334.4	7373.2	7276.3	7328.0	7185.9
7502.3	17.5°	7631.4	7560.4	7650.8	7541.0	7579.8	7657.2	7534.6	7534.6	7573.3	7495.8
7767.0	20°	7863.8	7831.6	7799.3	7805.7	7741.2	7812.2	7773.5	7754.1	7696.0	7721.8
8115.6	22.5°	8083.4	8038.2	8051.1	8070.4	8115.6	8083.4	8064.0	8083.4	7941.3	8070.4
8503.0	25°	8354.5	8477.2	8438.5	8522.4	8393.3	8477.2	8470.7	8348.1	8425.5	8373.9
8806.5	27.5°	8806.5	8741.9	8800.0	8696.7	8787.1	8793.6	8716.1	8922.7	8832.3	8819.4
9252.0	30°	9387.5	9342.4	9303.6	9245.5	9316.5	9258.4	9323.0	9342.4	9258.4	9193.9
9691.0	32.5°	9716.8	9839.5	9884.7	9742.6	9749.1	9781.4	9723.3	9665.2	9716.8	9736.2
10188.1	35°	10181.7	10297.9	10323.7	10214.0	10155.9	10317.3	10201.0	10394.7	10226.9	10233.3
10717.6	37.5°	10724.0	10756.3	10975.8	10853.1	10801.5	10724.0	10937.1	10911.2	10950.0	10640.1
11363.2	40°	11337.4	11453.6	11576.3	11266.3	11259.9	11330.9	11318.0	11466.5	11395.5	11350.3
12028.2	42.5°	12008.8	12254.2	12273.5	12066.9	11937.8	11924.9	11989.5	12318.7	12325.2	12028.2
12970.8	45°	12899.8	13171.0	13100.0	12699.7	12557.6	12538.2	12854.6	12996.7	13119.3	13003.1
14113.6	47.5°	14010.3	14191.1	14139.4	13771.4	13313.0	13442.1	13752.0	14197.5	14068.4	13913.5
15166.0	50°	15198.3	15411.3	15301.6	14933.6	14494.5	14494.5	14875.5	15443.6	15404.9	15101.4
16270.0	52.5°	16515.4	16825.3	17077.1	16554.1	16186.1	16244.2	16844.6	17051.2	16954.4	16741.3
17380.5	55°	17496.7	18090.7	18607.2	18633.1	18652.4	18646.0	18800.9	19007.5	18316.7	17974.5
17025.4	57.5°	17257.8	18381.3	20150.3	21351.2	21706.3	21893.5	21841.9	20886.3	19252.9	18129.5
15669.6	60°	15553.4	17387.0	20240.7	24095.1	26677.7	26419.4	25476.8	21699.8	18736.4	16838.2
12344.6	62.5°	12409.1	14617.2	18723.4	24869.9	31984.8	31907.3	26974.7	19821.0	15611.5	13209.7
9129.3	64°	9348.8	11673.1	16702.6	24669.7	33844.2	33921.7	26593.7	17509.6	12215.4	9348.8
6882.5	65°	7153.6	9310.1	14720.5	24256.5	33443.9	33489.1	25534.9	15120.8	9284.2	6637.1
2756.9	67.5°	2847.3	3964.2	7986.5	18394.2	28717.9	28595.2	18219.8	7315.1	3551.0	2311.4
1194.4	70°	1213.8	1510.8	2802.1	8716.1	19227.0	18871.9	7844.5	2375.9	1317.1	1104.0
820.0	72.5°	832.9	923.3	1200.9	2692.3	7993.0	7805.7	2233.9	1104.0	897.4	826.4
652.1	75°	671.5	736.0	871.6	1129.9	2117.7	2040.2	1052.4	813.5	716.7	665.0
516.5	77.5°	523.0	587.5	684.4	781.2	968.5	962.0	703.7	613.4	555.2	516.5
387.4	80°	413.2	477.8	542.3	555.2	632.7	619.8	477.8	484.2	451.9	374.5
264.7	82.5°	284.1	387.4	432.6	393.8	374.5	374.5	342.2	342.2	316.4	232.4
161.4	85°	174.3	258.3	271.2	232.4	174.3	174.3	187.2	180.8	167.9	122.7
83.9	87.5°	90.4	122.7	109.8	90.4	58.1	58.1	51.7	38.7	38.7	32.3
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>
6591.9
6527.4
6766.3
6740.4
6921.2
7005.1
7295.7
7399.0
7773.5
7889.7
8335.2
8793.6
9071.2
9716.8
10059.0
10795.0
11240.5
11899.1
12893.3
13784.3
14985.2
16644.5
17625.9
18245.7
16599.3
13061.2
<b>9122.8</b>
6391.8
2266.2
1097.6
826.4
658.5
503.6
368.0
213.1
116.2
32.3
0.0

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