

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: P574860

Luminaire Tested: **EPH-VN-08-740-U-5NQ**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P574860  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 10/19/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-VN-08-740-U-5NQ  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ 5NQ distribution lens  
Light Source: (128) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

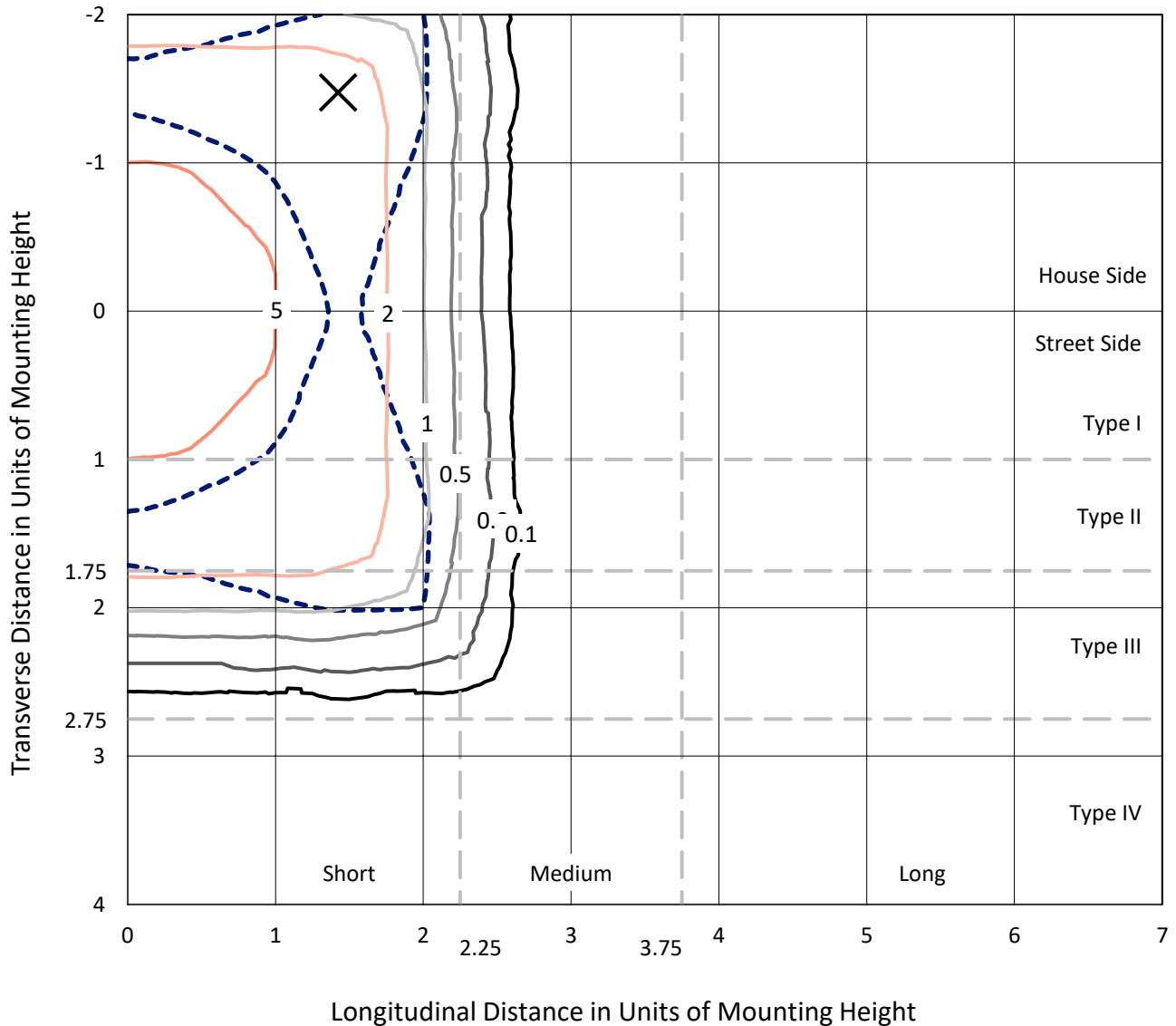
Lumens per Lamp: N/A  
Luminaire Lumens: 55601.2 lumens  
Efficiency: N/A  
Efficacy: 113.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4

Input Watts (W): 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

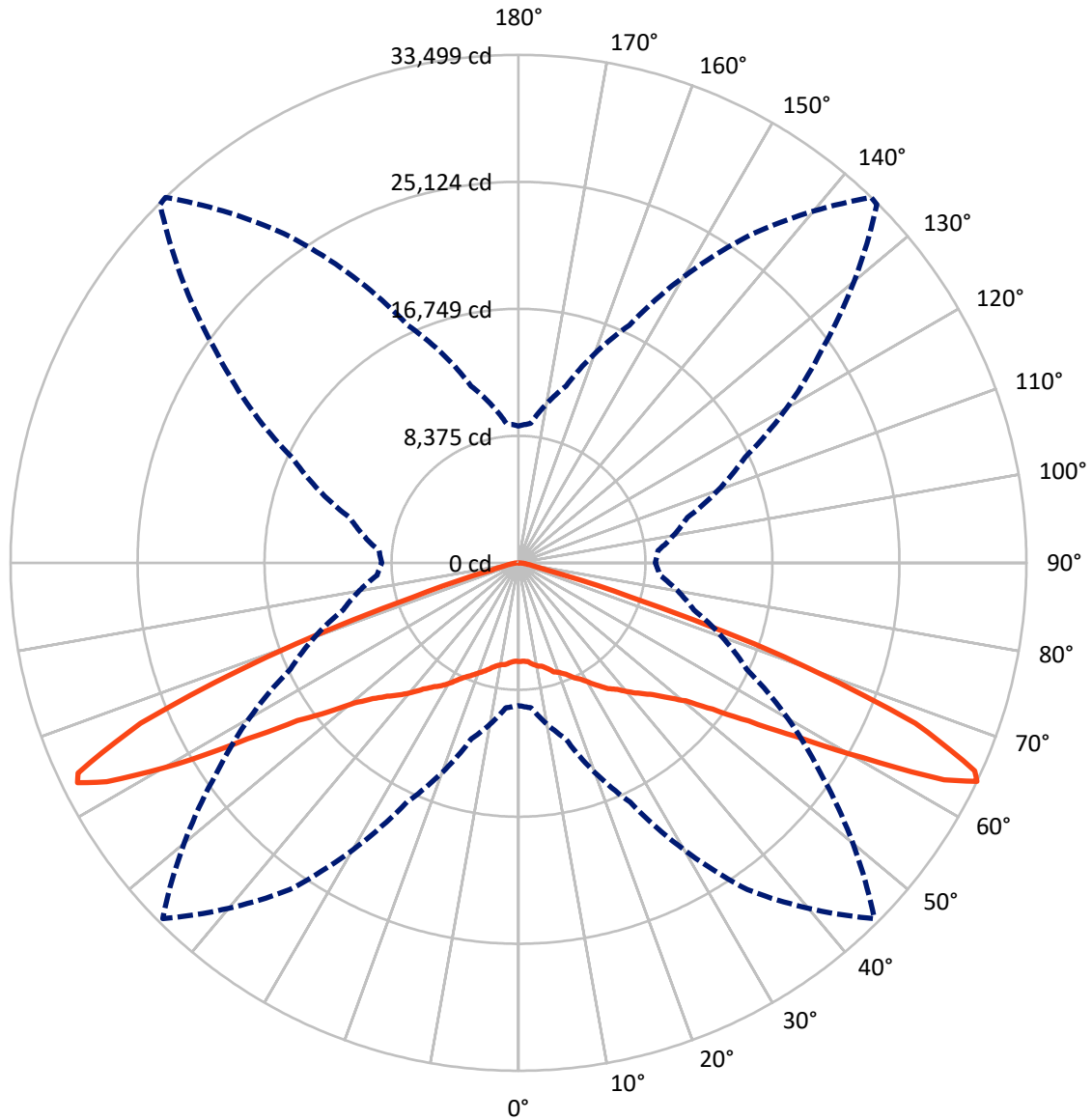
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.4 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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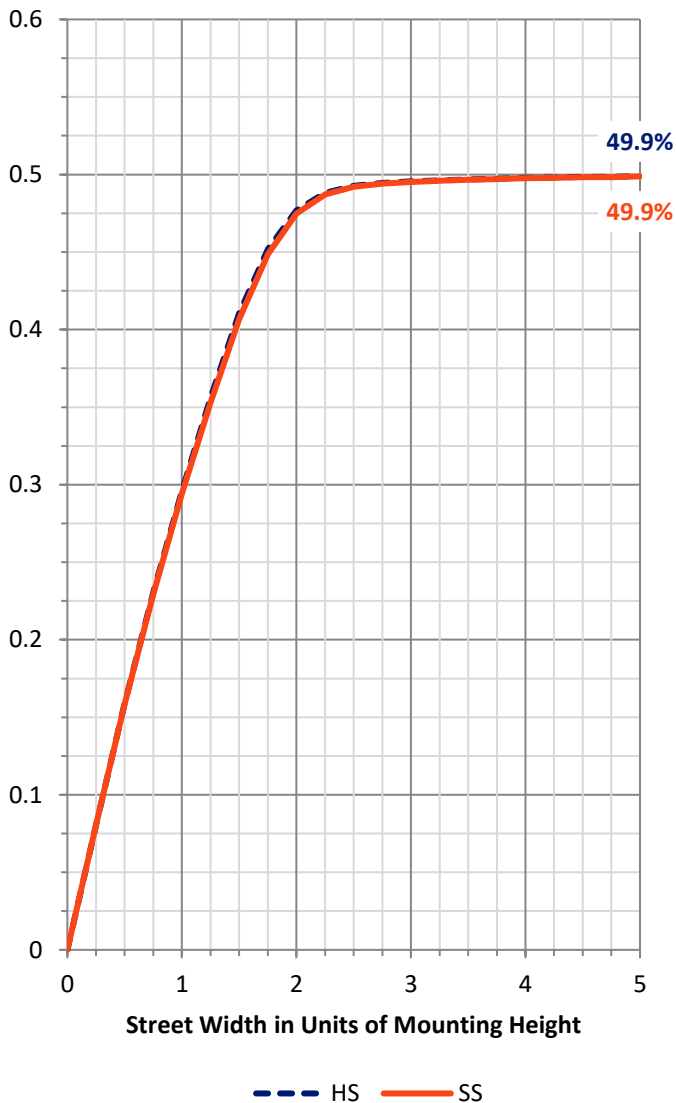
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	27827.1	0.0	27827.1
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	27774.1	0.0	27774.1
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	55601.2	0.0	55601.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	639.6	1.2
10°-20°	2061.5	3.7
20°-30°	3874.5	7.0
30°-40°	6389.7	11.5
40°-50°	9993.0	18.0
50°-60°	16146.3	29.0
60°-70°	14538.7	26.1
70°-80°	1722.2	3.1
80°-90°	235.7	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°	55601.2	100.0
0°-180°	55601.2	100.0

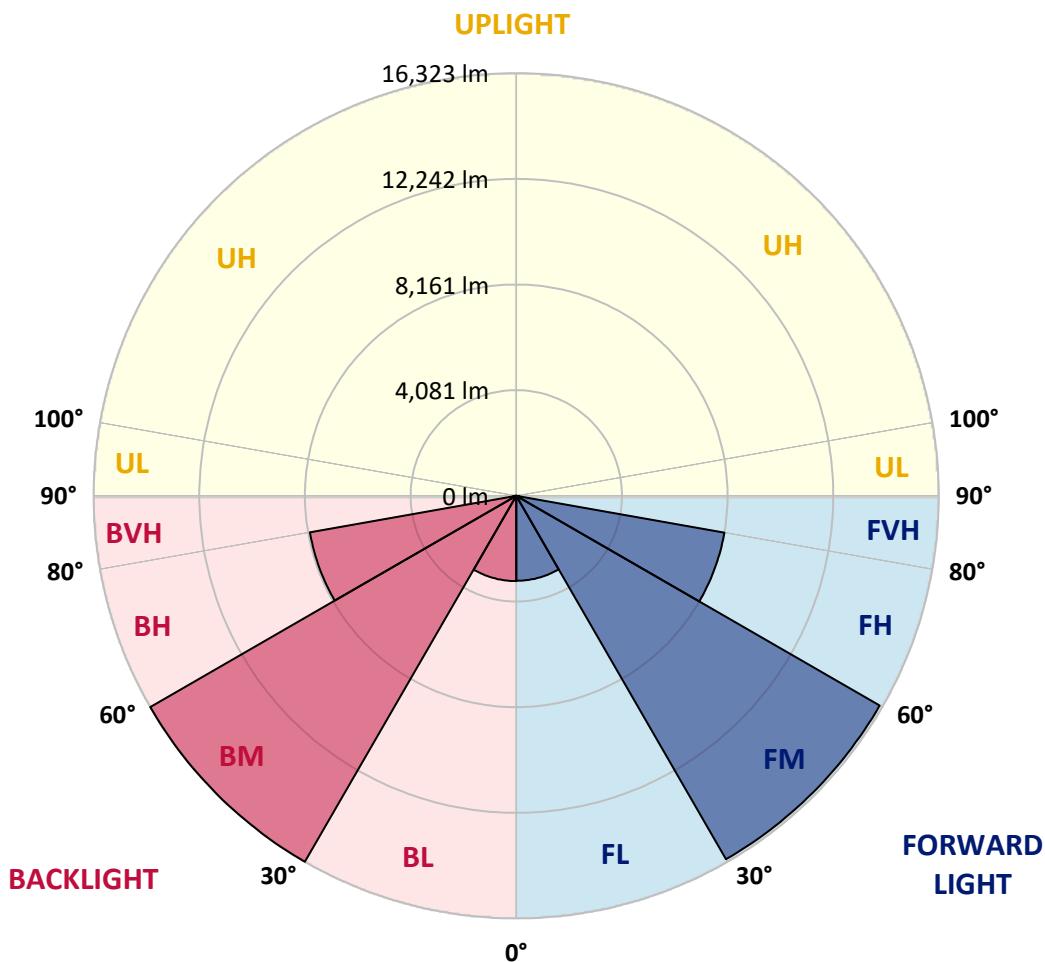


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3281.5	5.9			
FM (30°-60°)	16206.0	29.1			
FH (60°-80°)	8165.7	14.7			G4/12000
FVH (80°-90°)	120.9	0.2			G2/225
BL (0°-30°)	3294.2	5.9	B4/5000		
BM (30°-60°)	16323.0	29.4	B5		
BH (60°-80°)	8095.2	14.6	B5		G4/12000
BVH (80°-90°)	114.8	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°	6509.8	6509.8	6509.8	6509.8	6509.8	6509.8	6509.8	6509.8	6509.8	6509.8
2.5°	6433.2	6446.0	6560.8	6516.1	6554.4	6484.3	6535.3	6643.7	6516.1	6611.8
5°	6503.4	6522.5	6522.5	6567.1	6592.6	6579.9	6611.8	6567.1	6688.3	6637.3
7.5°	6758.4	6726.5	6675.5	6713.8	6720.2	6752.0	6783.9	6841.3	6822.2	6777.5
10°	6803.0	6777.5	6854.1	6860.4	6828.6	6803.0	6834.9	6834.9	6892.3	6905.1
12.5°	6879.6	6905.1	6898.7	6949.7	6956.1	6936.9	6988.0	7083.6	7058.1	7077.2
15°	7172.9	7141.0	7134.6	7185.6	7268.5	7147.3	7236.6	7230.2	7204.7	7243.0
17.5°	7427.9	7325.9	7370.5	7453.4	7421.5	7447.0	7561.8	7459.8	7485.3	7440.6
20°	7651.0	7568.2	7574.5	7606.4	7606.4	7682.9	7727.6	7689.3	7663.8	7657.4
22.5°	7899.7	7804.1	7810.4	7944.3	7989.0	7963.5	7931.6	7995.3	8008.1	7957.1
25°	8084.6	8186.6	8218.5	8282.3	8186.6	8256.7	8231.2	8352.4	8428.9	8326.9
27.5°	8569.2	8524.5	8607.4	8601.0	8677.6	8607.4	8652.1	8690.3	8722.2	8728.6
30°	9002.7	9021.9	8939.0	9162.1	8983.6	9098.4	9174.9	9194.0	9232.3	9232.3
32.5°	9461.8	9423.5	9557.4	9506.4	9474.5	9563.8	9480.9	9742.3	9589.3	9678.6
35°	9978.2	9978.2	10029.2	10169.5	9978.2	9920.8	10073.9	10182.3	10182.3	10022.9
37.5°	10558.4	10507.4	10571.2	10749.7	10603.1	10411.8	10692.3	10737.0	10705.1	10660.4
40°	10966.5	10953.7	11081.3	11317.2	11106.8	11068.5	11119.5	11240.7	11278.9	11323.5
42.5°	11655.1	11712.5	12082.3	12024.9	11852.7	11718.8	11706.1	12158.8	12050.4	11935.6
45°	12675.2	12624.2	12815.5	12821.9	12598.7	12305.4	12369.2	12783.6	12968.5	12713.5
47.5°	13485.0	13510.5	13644.4	13918.5	13402.1	13096.0	13331.9	14001.4	13944.0	13848.4
50°	14568.9	14683.6	15104.4	15008.8	14549.7	14173.6	14690.0	15321.2	15391.3	15040.7
52.5°	16067.2	16245.7	16475.2	16551.8	16111.8	15977.9	16009.8	16794.0	16621.9	16284.0
55°	17380.6	17463.5	17884.3	18515.5	18483.6	17839.7	18209.5	18502.8	17801.4	17106.5
57.5°	17941.7	17979.9	19153.1	20415.5	21167.9	21314.5	20893.7	19905.5	18235.0	16896.0
60°	16545.4	16908.8	18324.2	21174.3	24610.8	26306.8	23507.8	20064.9	17221.2	15595.4
62.5°	13223.5	13242.7	15346.7	19669.5	26753.1	31197.1	24508.8	18566.5	14517.8	12675.2
64°	9417.2	9595.7	12012.1	17412.5	26306.8	33186.4	24387.7	16609.1	11967.5	9353.4
65°	6758.4	7007.1	9340.6	15117.2	25261.2	32950.5	24024.3	14925.9	9678.6	7141.0
67.5°	2486.6	2588.6	3666.1	7561.8	18139.3	28079.3	19038.3	8205.7	4252.7	3028.5
70°	1154.0	1160.4	1358.1	2499.3	7931.6	18776.9	9085.6	3079.5	1600.3	1268.8
72.5°	848.0	867.1	950.0	1154.0	2333.6	7950.7	2983.9	1262.4	937.3	828.9
75°	688.6	701.3	726.8	835.2	1077.5	2129.5	1211.4	873.5	746.0	669.5
77.5°	529.2	529.2	586.6	637.6	714.1	994.6	803.4	695.0	605.7	529.2
80°	382.6	388.9	459.1	497.3	484.6	656.7	580.2	573.8	497.3	414.4
82.5°	223.2	242.3	331.5	357.0	344.3	388.9	420.8	446.3	388.9	286.9
85°	127.5	133.9	191.3	197.7	197.7	184.9	242.3	267.8	261.4	178.5
87.5°	38.3	38.3	51.0	51.0	57.4	63.8	95.6	114.8	127.5	89.3
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°
6509.8	0°	6509.8	6509.8	6509.8	6509.8	6509.8	6509.8	6509.8	6509.8	6509.8	6509.8
6643.7	2.5°	6611.8	6516.1	6522.5	6548.0	6465.1	6497.0	6592.6	6522.5	6503.4	6465.1
6713.8	5°	6579.9	6681.9	6643.7	6656.4	6637.3	6548.0	6535.3	6592.6	6624.5	6567.1
6854.1	7.5°	6803.0	6758.4	6707.4	6726.5	6681.9	6758.4	6809.4	6694.7	6752.0	6720.2
6905.1	10°	6930.6	6847.7	6885.9	6873.2	6841.3	6917.8	6866.8	6854.1	6803.0	6732.9
7032.6	12.5°	6975.2	7070.8	7134.6	7026.2	7045.3	7007.1	6975.2	6975.2	6917.8	6898.7
7141.0	15°	7172.9	7255.7	7230.2	7313.1	7204.7	7243.0	7281.2	7185.6	7236.6	7096.3
7408.8	17.5°	7536.3	7466.1	7555.4	7447.0	7485.3	7561.8	7440.6	7440.6	7478.9	7402.4
7670.2	20°	7765.8	7733.9	7702.0	7708.4	7644.7	7714.8	7676.5	7657.4	7600.0	7625.5
8014.5	22.5°	7982.6	7938.0	7950.7	7969.8	8014.5	7982.6	7963.5	7982.6	7842.3	7969.8
8397.0	25°	8250.4	8371.5	8333.3	8416.1	8288.6	8371.5	8365.1	8244.0	8320.5	8269.5
8696.7	27.5°	8696.7	8632.9	8690.3	8588.3	8677.6	8683.9	8607.4	8811.4	8722.2	8709.4
9136.6	30°	9270.5	9225.9	9187.6	9130.2	9200.4	9143.0	9206.8	9225.9	9143.0	9079.2
9570.2	32.5°	9595.7	9716.8	9761.5	9621.2	9627.6	9659.4	9602.1	9544.7	9595.7	9614.8
10061.1	35°	10054.7	10169.5	10195.0	10086.6	10029.2	10188.6	10073.9	10265.1	10099.4	10105.7
10583.9	37.5°	10590.3	10622.2	10839.0	10717.8	10666.8	10590.3	10800.7	10775.2	10813.5	10507.4
11221.5	40°	11196.0	11310.8	11431.9	11125.9	11119.5	11189.6	11176.9	11323.5	11253.4	11208.8
11878.2	42.5°	11859.1	12101.4	12120.5	11916.5	11789.0	11776.2	11840.0	12165.2	12171.5	11878.2
12809.1	45°	12739.0	13006.8	12936.6	12541.3	12401.1	12381.9	12694.4	12834.6	12955.8	12841.0
13937.6	47.5°	13835.6	14014.2	13963.1	13599.7	13147.0	13274.6	13580.6	14020.5	13893.0	13740.0
14976.9	50°	15008.8	15219.2	15110.8	14747.4	14313.8	14313.8	14690.0	15251.1	15212.8	14913.2
16067.2	52.5°	16309.5	16615.5	16864.2	16347.7	15984.3	16041.7	16634.6	16838.7	16743.0	16532.6
17163.8	55°	17278.6	17865.2	18375.2	18400.8	18419.9	18413.5	18566.5	18770.6	18088.3	17750.4
16813.2	57.5°	17042.7	18152.1	19899.1	21085.0	21435.7	21620.6	21569.6	20625.9	19012.8	17903.4
15474.2	60°	15359.5	17170.2	19988.3	23794.7	26345.1	26090.0	25159.2	21429.3	18502.8	16628.3
12190.7	62.5°	12254.4	14435.0	18490.0	24559.8	31586.0	31509.5	26638.4	19573.9	15416.8	13045.0
9015.5	64°	9232.3	11527.6	16494.4	24362.2	33422.3	33498.8	26262.2	17291.4	12063.1	9232.3
6796.7	65°	7064.5	9194.0	14537.0	23954.1	33027.0	33071.6	25216.6	14932.3	9168.5	6554.4
2722.5	67.5°	2811.8	3914.8	7886.9	18164.8	28359.9	28238.7	17992.7	7223.9	3506.7	2282.6
1179.5	70°	1198.7	1492.0	2767.1	8607.4	18987.3	18636.7	7746.7	2346.3	1300.7	1090.3
809.7	72.5°	822.5	911.7	1185.9	2658.7	7893.3	7708.4	2206.0	1090.3	886.2	816.1
644.0	75°	663.1	726.8	860.7	1115.8	2091.3	2014.8	1039.3	803.4	707.7	656.7
510.1	77.5°	516.4	580.2	675.8	771.5	956.4	950.0	695.0	605.7	548.3	510.1
382.6	80°	408.1	471.8	535.6	548.3	624.8	612.1	471.8	478.2	446.3	369.8
261.4	82.5°	280.5	382.6	427.2	388.9	369.8	369.8	337.9	337.9	312.4	229.5
159.4	85°	172.1	255.0	267.8	229.5	172.1	172.1	184.9	178.5	165.8	121.1
82.9	87.5°	89.3	121.1	108.4	89.3	57.4	57.4	51.0	38.3	38.3	31.9
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>
6509.8
6446.0
6681.9
6656.4
6834.9
6917.8
7204.7
7306.7
7676.5
7791.3
8231.2
8683.9
8958.1
9595.7
9933.6
10660.4
11100.4
11750.7
12732.6
13612.5
14798.4
16437.0
17406.1
18018.2
16392.4
12898.4
<i>9009.1</i>
6312.1
2237.9
1083.9
816.1
650.3
497.3
363.4
210.4
114.8
31.9
0.0

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