

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: P575221

Luminaire Tested: **EPH-VN-03-750-U-T3-HSS**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P575221  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 10/19/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-VN-03-750-U-T3-HSS  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T3 distribution lens and House Side Shield  
Light Source: (48) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

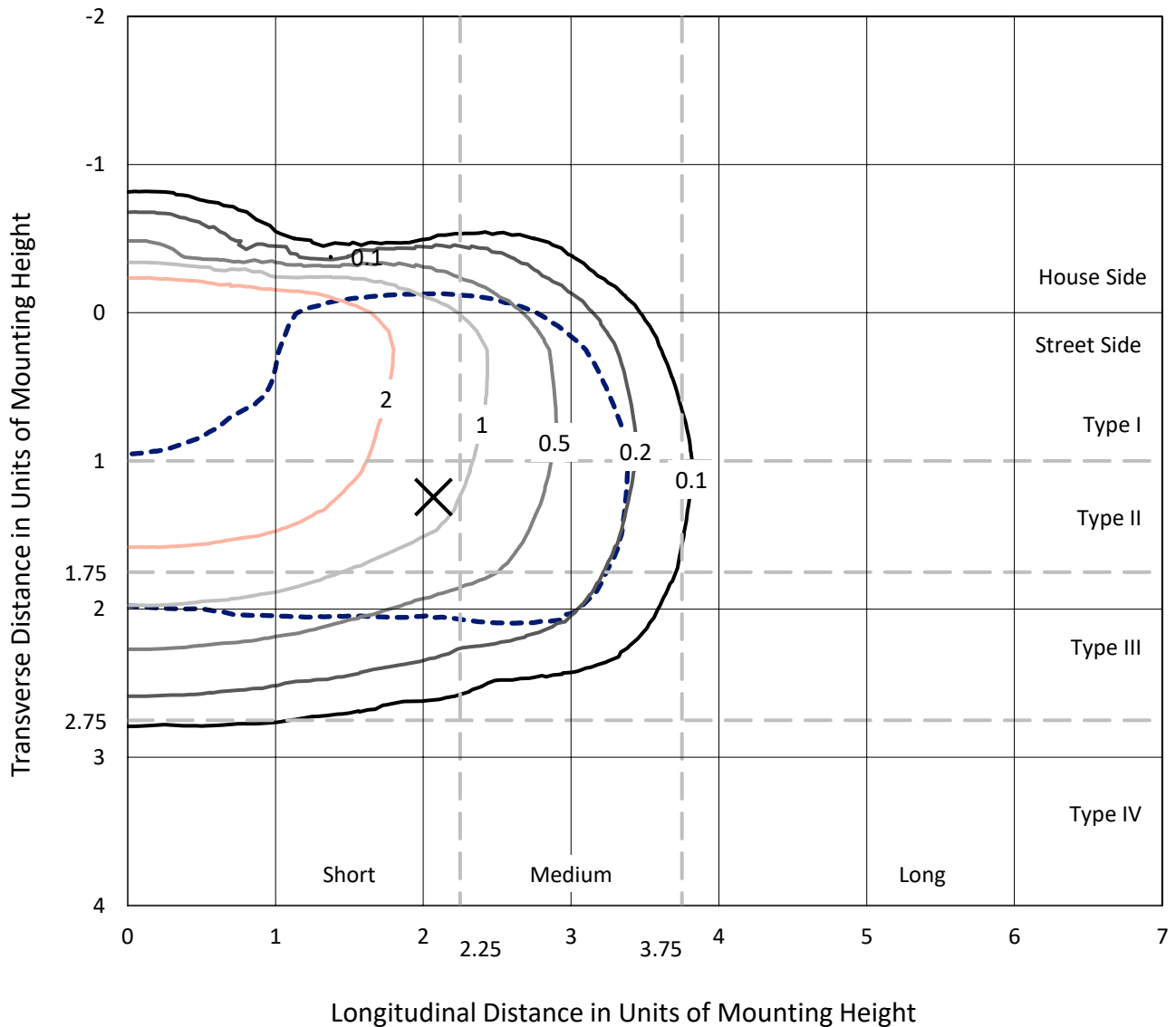
Lumens per Lamp: N/A  
Luminaire Lumens: 17690.9 lumens  
Efficiency: N/A  
Efficacy: 96.1 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3

Input Watts (W): 184.1  
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

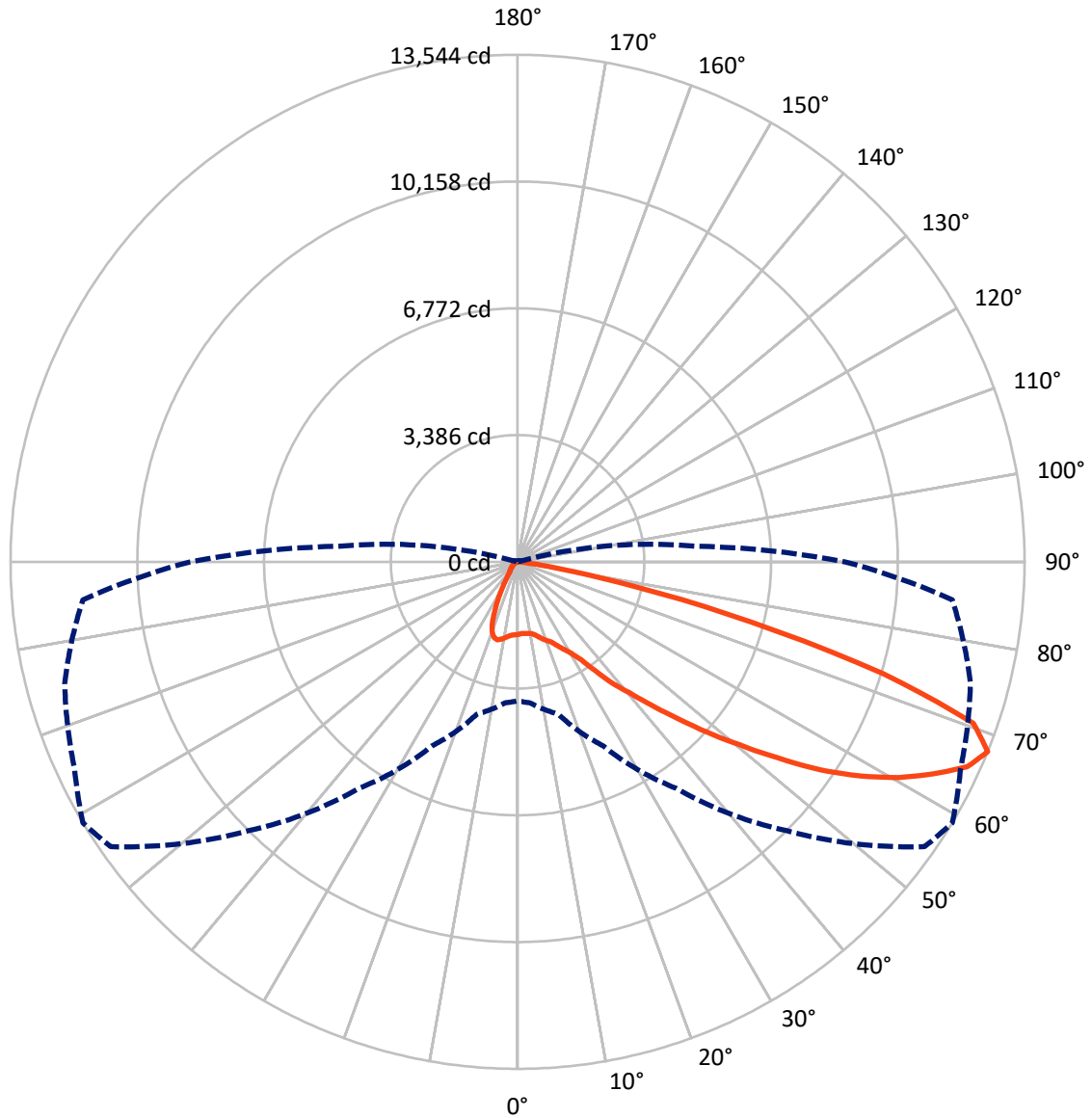
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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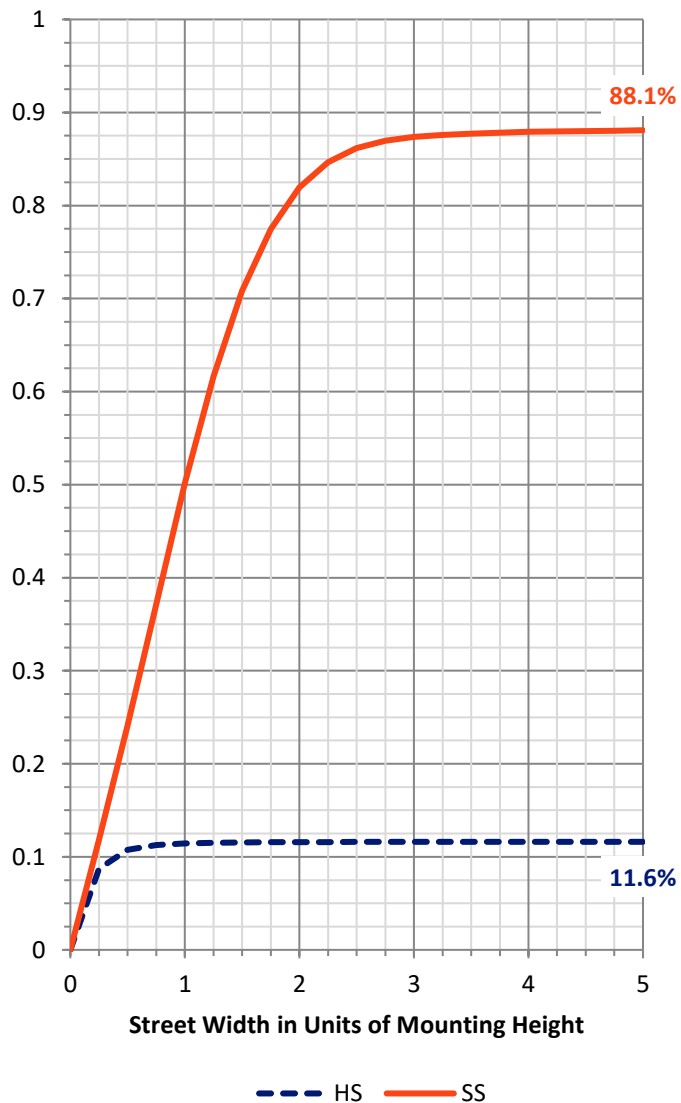
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2078.1	0.0	2078.1
	% Fixture	11.7	0.0	11.7
<b>Street Side</b>	Lumens	15612.8	0.0	15612.8
	% Fixture	88.3	0.0	88.3
<b>Total</b>	Lumens	17690.9	0.0	17690.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	184.3	1.0
10°-20°	532.4	3.0
20°-30°	930.5	5.3
30°-40°	1638.3	9.3
40°-50°	2896.0	16.4
50°-60°	4585.4	25.9
60°-70°	5086.4	28.8
70°-80°	1764.9	10.0
80°-90°	72.7	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°	17690.9	100.0
0°-180°	17690.9	100.0

**Coefficient of Utilization**



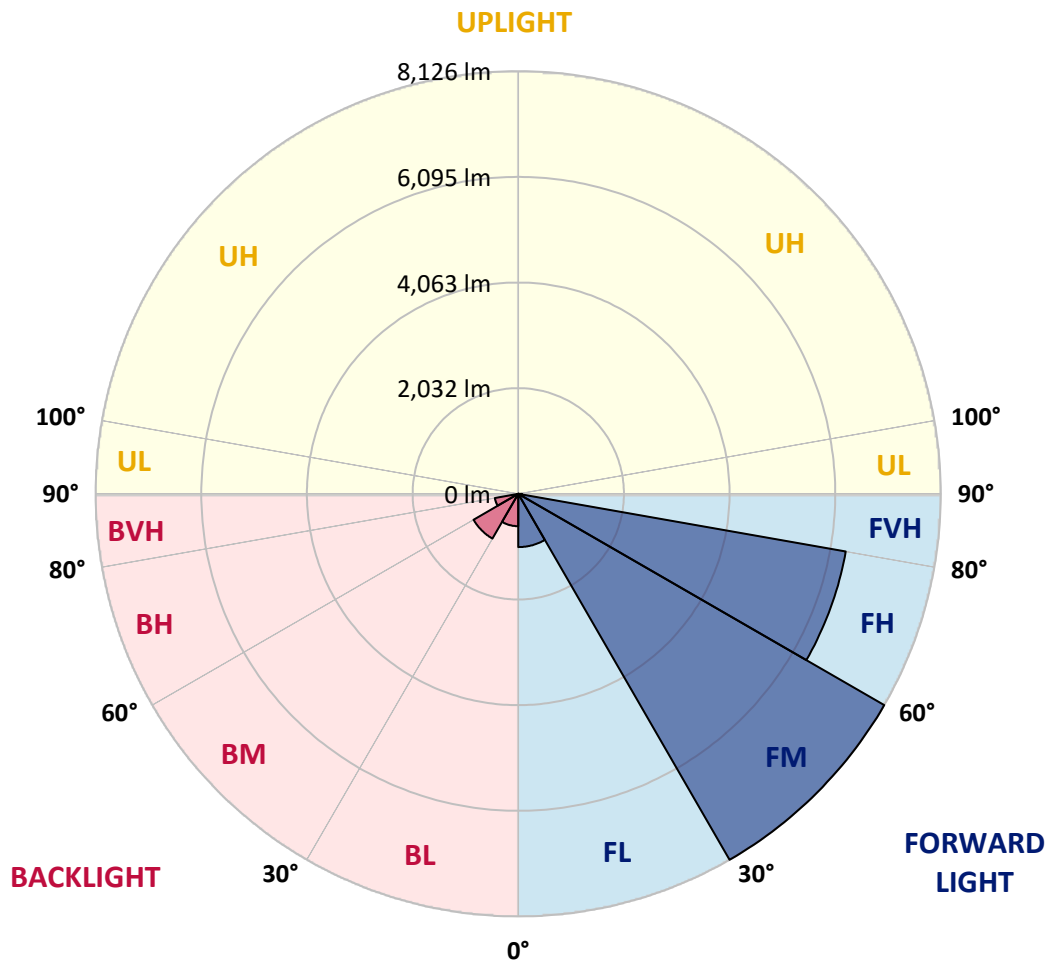
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1024.4	5.8			
FM (30°-60°)	8126.1	45.9			
FH (60°-80°)	6394.3	36.1			G3/7500
FVH (80°-90°)	68.0	0.4			G1/100
BL (0°-30°)	622.8	3.5	B2/1000		
BM (30°-60°)	993.6	5.6	B1/1000		
BH (60°-80°)	457.0	2.6	B1/500		G1/500
BVH (80°-90°)	4.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	1940.4	1940.4	1940.4	1940.4	1940.4	1940.4	1940.4	1940.4	1940.4	1940.4
2.5°	1884.2	1857.3	1881.7	1884.2	1886.6	1908.6	1933.0	1915.9	1913.5	1933.0
5°	1808.4	1796.2	1825.5	1840.2	1864.6	1884.2	1923.3	1925.7	1928.2	1950.2
7.5°	1776.6	1747.3	1781.5	1798.6	1815.7	1862.2	1908.6	1933.0	1967.3	1994.1
10°	1713.1	1735.1	1744.9	1774.2	1823.1	1876.8	1933.0	1945.3	2021.0	2043.0
12.5°	1735.1	1749.8	1769.3	1776.6	1830.4	1911.0	1986.8	1991.7	2069.9	2165.2
15°	1791.3	1781.5	1788.9	1798.6	1862.2	1928.2	2050.3	2072.3	2145.7	2253.2
17.5°	1911.0	1893.9	1881.7	1879.3	1893.9	1955.0	2099.2	2165.2	2233.6	2380.3
20°	2211.6	2197.0	2148.1	2021.0	1977.0	2001.5	2157.9	2250.7	2346.0	2509.8
22.5°	2668.6	2683.3	2568.4	2390.0	2206.7	2111.4	2250.7	2331.4	2482.9	2690.6
25°	3208.7	3179.4	3040.1	2832.4	2544.0	2319.2	2399.8	2490.2	2676.0	2847.0
27.5°	3631.5	3597.3	3489.7	3238.0	2988.8	2624.6	2595.3	2651.5	2871.5	3025.4
30°	4049.4	4061.6	3988.3	3690.1	3382.2	2998.5	2812.8	2837.2	3005.9	3203.8
32.5°	4582.1	4552.8	4511.2	4249.8	3885.6	3475.1	3157.4	3118.3	3191.6	3453.1
35°	5078.2	5061.1	5004.9	4741.0	4423.3	3976.1	3665.7	3577.7	3560.6	3851.4
37.5°	5510.8	5481.4	5395.9	5227.3	4919.4	4543.0	4203.3	4125.1	4122.7	4323.1
40°	5874.9	5896.9	5887.1	5701.4	5532.8	5232.2	4711.6	4587.0	4577.2	4684.8
42.5°	6346.5	6397.9	6371.0	6334.3	6131.5	6014.2	5425.2	5234.6	5149.1	5369.0
45°	7060.1	7079.7	7096.8	7006.4	6803.5	6828.0	6163.3	5936.0	5914.0	6241.5
47.5°	7727.3	7676.0	7795.7	7800.6	7790.8	7678.4	6959.9	6791.3	6820.6	7069.9
50°	7893.5	8025.4	8355.3	8416.4	8575.3	8677.9	7844.6	7676.0	7724.8	8008.3
52.5°	8023.0	8223.4	8553.3	9000.5	9428.2	9672.5	8834.3	8697.5	8695.0	8868.5
55°	8250.3	8372.4	8658.4	9274.2	10088.0	10488.8	10026.9	9807.0	9609.0	9731.2
57.5°	8228.3	8274.7	8719.5	9479.5	10611.0	11339.2	11006.9	10796.7	10542.5	10471.7
60°	7842.1	7952.1	8450.7	9340.2	10933.5	12001.5	11920.8	11705.8	11268.3	11102.2
62.5°	7077.2	7223.9	7614.9	8851.4	10464.3	12035.7	12551.3	12470.7	11981.9	11683.8
65°	5735.6	5804.0	6253.7	7610.0	9403.7	11510.3	13296.7	13196.5	12746.8	12302.1
67.5°	3714.6	3780.6	4213.1	5432.6	7385.2	10154.0	13267.4	13543.5	13057.2	12522.0
70°	1754.6	1737.5	2140.8	3018.1	4731.2	7754.2	12370.5	12915.5	12502.5	11351.4
72.5°	535.2	581.6	889.5	1336.8	2429.1	4836.3	9697.0	10207.7	10078.2	9068.9
75°	237.0	256.6	349.5	547.4	984.9	1984.4	5989.7	6444.3	6388.1	5349.5
77.5°	151.5	166.2	219.9	312.8	447.2	630.5	2759.0	3201.4	3103.6	1879.3
80°	107.5	114.9	156.4	215.1	281.0	259.0	950.6	1129.0	1082.6	510.8
82.5°	58.7	63.5	114.9	158.8	188.2	132.0	266.4	332.4	347.0	227.3
85°	22.0	26.9	70.9	112.4	97.8	61.1	78.2	95.3	124.6	124.6
87.5°	0.0	2.4	29.3	48.9	24.4	17.1	22.0	26.9	34.2	58.7
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°
1940.4	0°	1940.4	1940.4	1940.4	1940.4	1940.4	1940.4	1940.4	1940.4	1940.4	1940.4
1950.2	2.5°	1962.4	1945.3	1952.6	1964.8	1937.9	1952.6	1923.3	1945.3	1952.6	1923.3
1979.5	5°	1986.8	2003.9	1994.1	1974.6	1957.5	1962.4	1955.0	1937.9	1952.6	1957.5
2023.5	7.5°	2057.7	2038.1	2043.0	2021.0	1986.8	1984.4	1937.9	1925.7	1930.6	1935.5
2113.9	10°	2123.7	2135.9	2111.4	2094.3	2038.1	2001.5	1937.9	1869.5	1862.2	1832.8
2201.9	12.5°	2241.0	2211.6	2201.9	2145.7	2089.4	1967.3	1830.4	1725.3	1637.3	1605.6
2343.6	15°	2338.7	2333.8	2316.7	2231.2	2101.7	1879.3	1620.2	1375.9	1207.2	1102.2
2426.7	17.5°	2473.1	2451.1	2419.4	2285.0	2011.2	1649.6	1207.2	899.3	730.7	664.7
2585.5	20°	2575.8	2558.7	2514.7	2272.7	1847.5	1229.2	747.8	571.8	530.3	518.1
2759.0	22.5°	2724.8	2671.1	2588.0	2211.6	1549.4	818.7	537.6	510.8	503.4	493.6
2873.9	25°	2854.4	2805.5	2632.0	2106.6	1104.6	542.5	498.5	483.9	471.7	459.4
2996.1	27.5°	2969.2	2908.1	2678.4	1891.5	691.6	466.8	461.9	444.8	420.3	400.8
3137.8	30°	3081.6	3010.8	2690.6	1488.3	466.8	422.8	410.6	383.7	351.9	325.0
3374.9	32.5°	3269.8	3184.3	2673.5	1063.1	403.2	376.3	349.5	317.7	271.3	249.3
3714.6	35°	3563.1	3433.5	2651.5	625.6	361.7	332.4	290.8	249.3	215.1	193.1
4059.1	37.5°	3900.3	3675.5	2588.0	417.9	332.4	293.3	239.5	197.9	168.6	151.5
4530.8	40°	4401.3	4029.8	2343.6	342.1	295.7	249.3	193.1	156.4	134.4	122.2
5229.7	42.5°	4953.6	4435.5	1967.3	307.9	261.5	212.6	154.0	127.1	110.0	97.8
5928.7	45°	5615.8	4858.3	1517.6	281.0	232.2	176.0	127.1	102.6	88.0	78.2
6747.3	47.5°	6353.9	5241.9	1024.0	254.2	195.5	144.2	105.1	78.2	63.5	56.2
7639.3	50°	7013.7	5581.6	652.5	222.4	171.1	119.7	85.5	63.5	51.3	41.5
8360.2	52.5°	7612.4	5840.7	449.7	195.5	146.6	97.8	70.9	51.3	39.1	31.8
9108.0	55°	8225.8	5972.6	332.4	168.6	127.1	83.1	58.7	46.4	34.2	26.9
9968.2	57.5°	8729.2	6028.8	254.2	146.6	107.5	66.0	51.3	39.1	29.3	22.0
10628.1	60°	9159.4	6002.0	197.9	122.2	85.5	56.2	44.0	31.8	24.4	17.1
11488.3	62.5°	9411.1	5840.7	156.4	105.1	68.4	48.9	36.7	26.9	17.1	12.2
11930.6	65°	9415.9	5498.5	122.2	78.2	51.3	41.5	31.8	22.0	12.2	4.9
11654.5	67.5°	8741.5	4758.1	97.8	61.1	41.5	31.8	24.4	17.1	4.9	0.0
9679.9	70°	6837.7	3599.7	80.6	48.9	34.2	26.9	17.1	9.8	2.4	0.0
6461.4	72.5°	4357.3	2155.4	66.0	39.1	29.3	19.6	12.2	7.3	0.0	0.0
2949.7	75°	1823.1	664.7	51.3	34.2	22.0	14.7	9.8	2.4	0.0	0.0
772.2	77.5°	469.2	210.2	41.5	29.3	22.0	12.2	7.3	2.4	0.0	0.0
207.7	80°	139.3	78.2	34.2	24.4	17.1	9.8	4.9	2.4	0.0	0.0
100.2	82.5°	63.5	46.4	29.3	22.0	14.7	9.8	4.9	0.0	0.0	0.0
46.4	85°	24.4	14.7	14.7	12.2	12.2	7.3	2.4	0.0	0.0	0.0
17.1	87.5°	9.8	4.9	4.9	4.9	2.4	2.4	0.0	0.0	0.0	0.0
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>
1940.4
1937.9
1947.7
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