

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: P574820

Luminaire Tested: **EPH-VN-08-740-U-T4W**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P574820
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-T4W
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (128) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

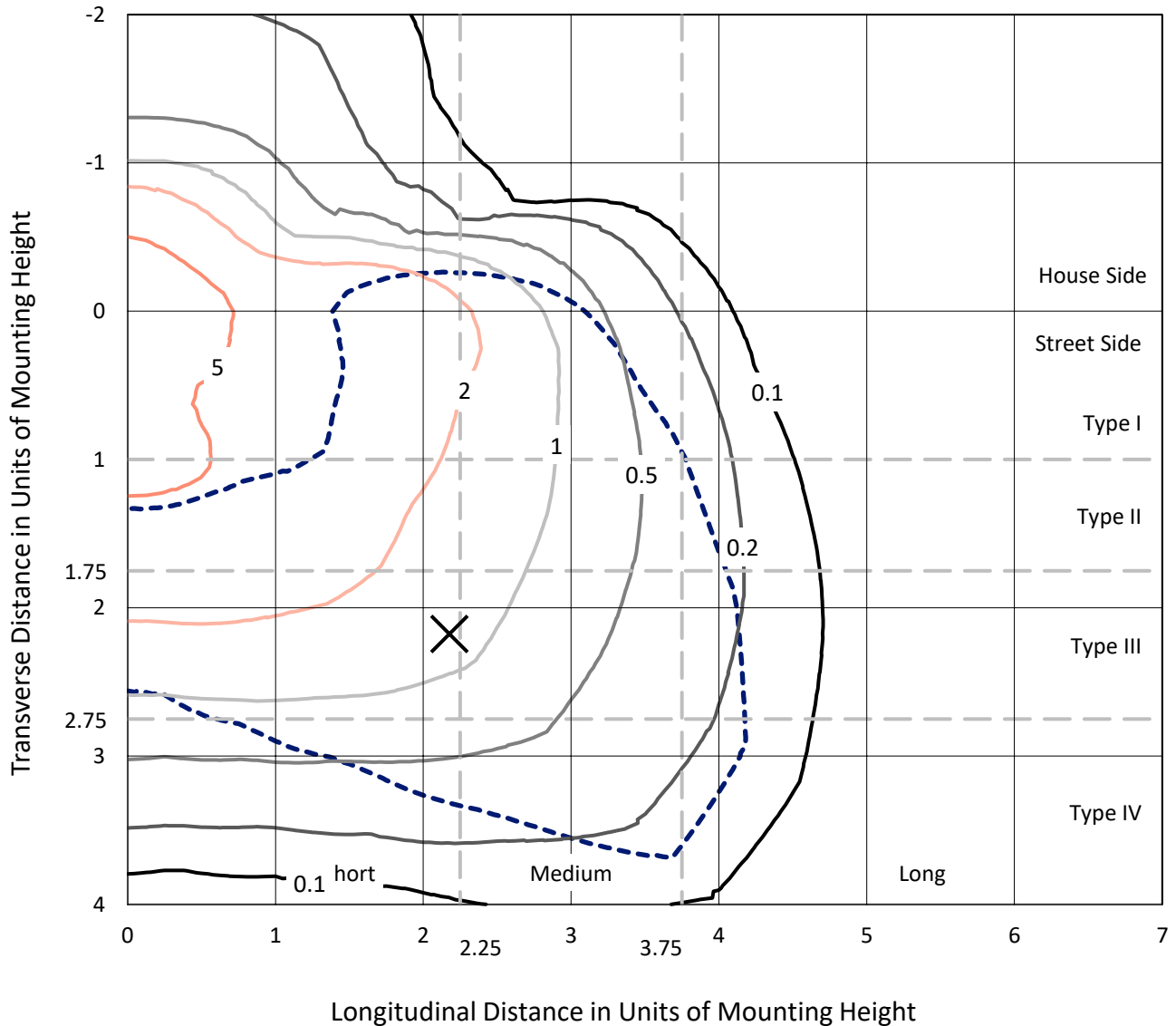
Lumens per Lamp: N/A
Luminaire Lumens: 56348.6 lumens
Efficiency: N/A
Efficacy: 115.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

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

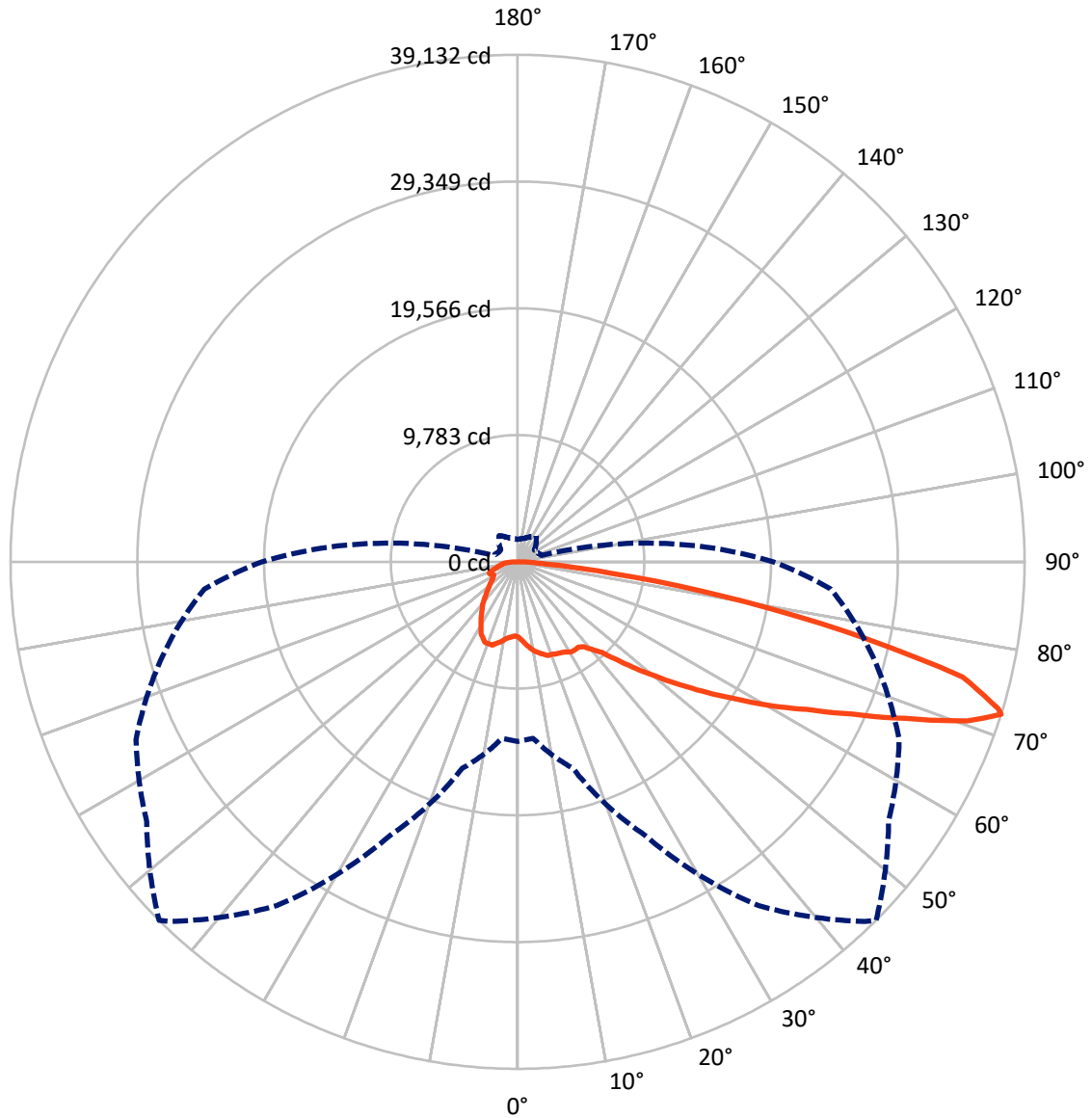
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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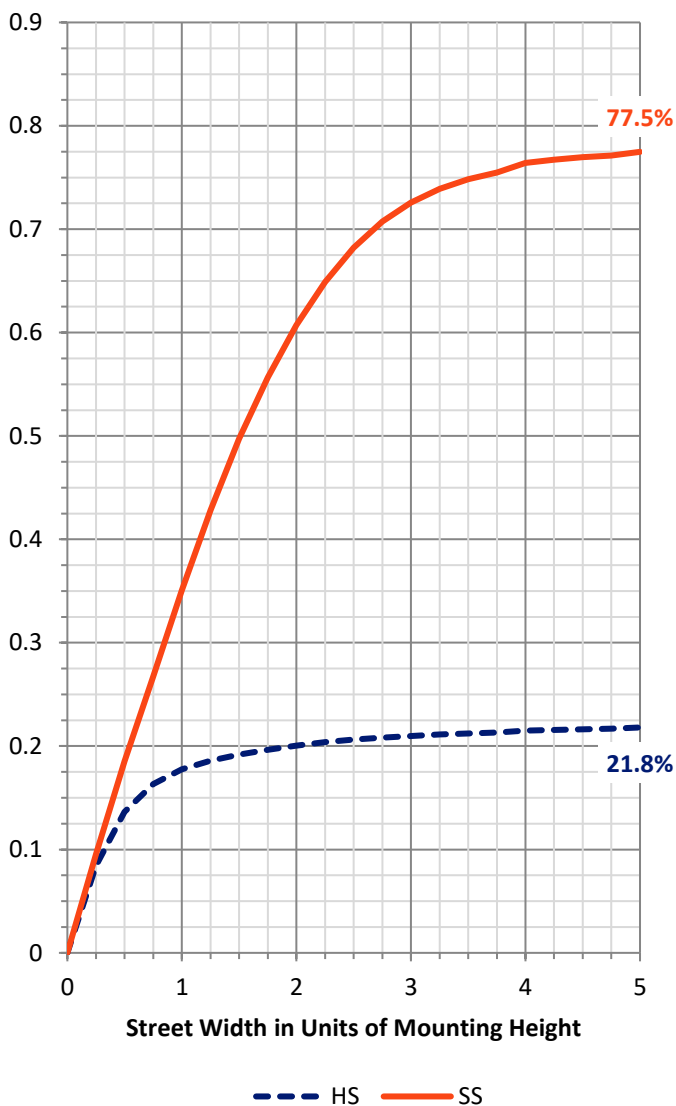
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12543.5	0.0	12543.5
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	43805.1	0.0	43805.1
	% Fixture	77.7	0.0	77.7
Total	Lumens	56348.6	0.0	56348.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	593.8	1.1
10°-20°	1975.6	3.5
20°-30°	3336.2	5.9
30°-40°	4616.8	8.2
40°-50°	6603.9	11.7
50°-60°	10651.3	18.9
60°-70°	15709.2	27.9
70°-80°	11407.6	20.2
80°-90°	1454.2	2.6
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°	56348.6	100.0
0°-180°	56348.6	100.0

Coefficient of Utilization

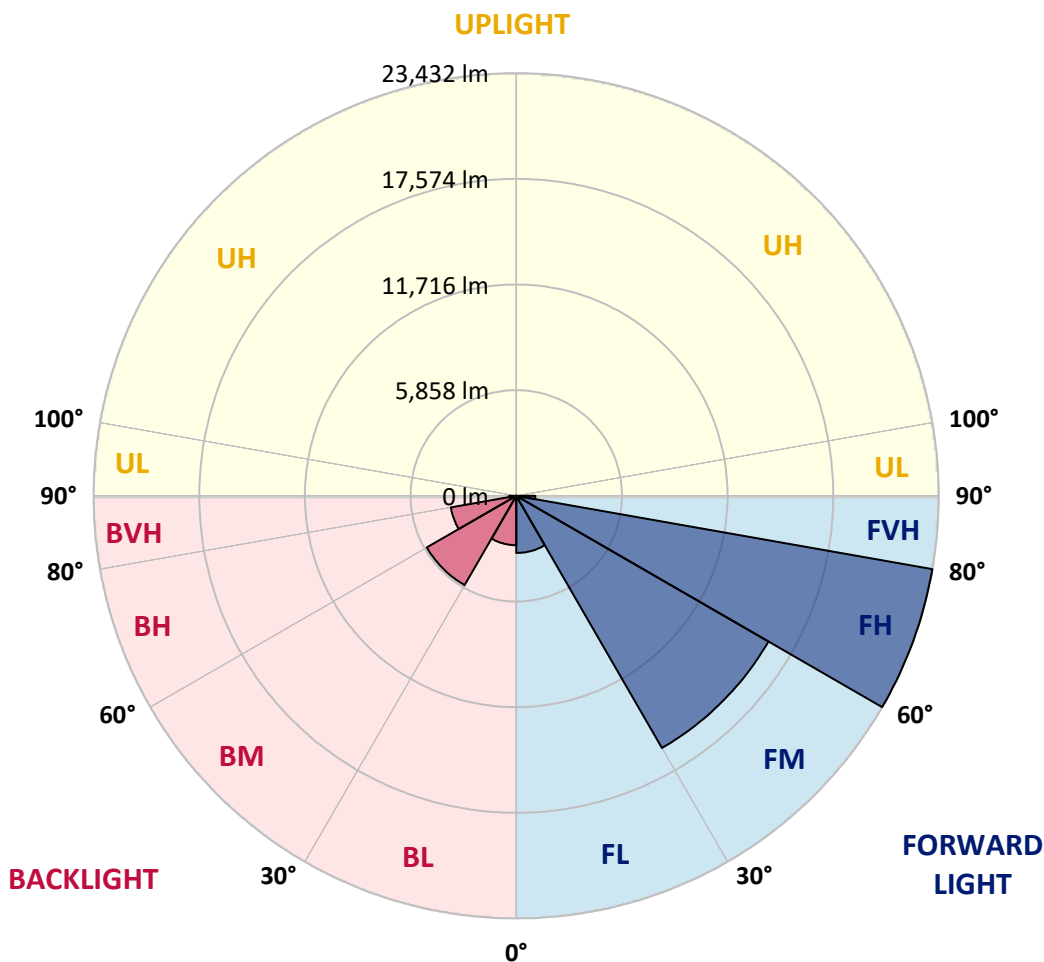


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3166.8	5.6			
FM (30°-60°)	16147.5	28.7			
FH (60°-80°)	23432.3	41.6			G5
FVH (80°-90°)	1058.4	1.9			G5
BL (0°-30°)	2738.8	4.9	B4/5000		
BM (30°-60°)	5724.5	10.2	B4/8500		
BH (60°-80°)	3684.5	6.5	B4/5000		G4/5000
BVH (80°-90°)	395.7	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	5802.9	5802.9	5802.9	5802.9	5802.9	5802.9	5802.9	5802.9	5802.9	5802.9
2.5°	6112.8	6149.2	6112.8	6106.7	6045.9	6003.4	6039.9	5985.2	5924.4	5900.1
5°	6671.8	6677.9	6611.0	6617.1	6489.5	6355.8	6380.1	6216.1	6039.9	5973.0
7.5°	7243.0	7176.1	7078.9	7048.5	6848.0	6702.2	6684.0	6538.1	6264.7	6112.8
10°	7613.6	7637.9	7479.9	7346.3	7176.1	6999.9	6993.8	6720.4	6562.4	6337.6
12.5°	7941.7	7947.8	7814.1	7601.5	7388.8	7170.1	7200.4	7078.9	6811.6	6598.9
15°	8197.0	8160.5	8014.7	7820.2	7595.4	7425.3	7407.0	7303.7	7078.9	6902.7
17.5°	8269.9	8251.6	8105.8	7899.2	7680.5	7552.9	7601.5	7431.3	7340.2	7182.2
20°	8130.1	8087.6	8063.3	7832.4	7674.4	7662.2	7619.7	7656.2	7504.3	7358.4
22.5°	7874.9	7856.7	7844.5	7662.2	7589.3	7644.0	7716.9	7771.6	7747.3	7607.6
25°	7613.6	7698.7	7619.7	7534.6	7637.9	7777.7	7759.5	7935.7	7935.7	7893.1
27.5°	7795.9	7741.2	7680.5	7637.9	7674.4	7893.1	7881.0	8093.7	8172.6	8093.7
30°	8251.6	8197.0	8020.7	7832.4	7783.8	8020.7	8081.5	8269.9	8306.3	8111.9
32.5°	9108.4	9078.0	8798.5	8245.6	7947.8	8081.5	8111.9	8324.6	8294.2	8172.6
35°	10378.4	10275.1	9886.2	8950.4	8294.2	8160.5	8081.5	8251.6	8367.1	8306.3
37.5°	11769.8	11654.4	11174.4	9989.5	8920.0	8373.2	8312.4	8452.2	8585.8	8555.5
40°	13100.5	13100.5	12669.1	11289.8	9849.7	8889.7	8901.8	8743.8	8865.4	8810.7
42.5°	14413.0	14364.4	14188.2	12815.0	10846.2	9752.5	9558.1	9163.1	9381.8	9363.6
45°	15743.7	15707.3	15658.7	14236.8	12274.2	10919.1	10815.8	10104.9	10305.4	10220.4
47.5°	16807.1	16849.6	16849.6	15822.7	13799.3	12474.7	12322.8	11198.7	11581.5	11624.0
50°	17712.5	17730.7	17712.5	17335.7	15500.7	14255.0	13945.2	12802.8	13185.6	13519.8
52.5°	18964.2	18988.5	18903.4	18757.6	17809.7	16126.6	15780.2	14510.3	15294.1	15646.5
55°	20507.6	20325.3	20167.3	20276.7	20027.5	18186.4	17827.9	16272.4	17451.2	17919.1
57.5°	20793.2	20951.2	21352.2	22221.1	22579.6	20191.6	19985.0	18435.6	19887.8	20294.9
60°	21801.8	21540.6	22524.9	24408.6	24809.6	22804.4	22591.8	20805.3	22312.2	22737.6
62.5°	22464.2	22452.0	23910.3	26146.4	27057.9	25514.5	25083.0	23886.0	24931.1	25344.3
65°	22269.7	22445.9	25034.4	27167.2	28935.4	28595.2	28346.0	26535.3	27914.6	27878.2
67.5°	20495.4	20993.7	24323.5	27902.5	31730.5	32350.3	32271.3	30260.1	30339.1	29567.4
70°	18034.5	17864.4	21315.7	27136.8	33128.1	36804.3	36786.0	33030.9	32520.5	29938.0
72°	13854.0	13665.6	16503.3	23302.7	32392.9	38584.6	39131.5	34951.0	32496.2	28400.7
72.5°	12578.0	12413.9	15239.4	21935.5	31578.6	39046.4	38791.2	35023.9	32241.0	27677.6
75°	5790.7	5602.4	7613.6	13428.7	24633.4	34598.6	35467.5	32775.7	28157.7	22032.7
77.5°	1725.7	1671.0	2448.8	5420.1	14315.8	25490.2	25824.4	24730.6	19656.9	12067.6
80°	960.1	966.1	1263.9	2029.5	6295.1	14735.1	15938.2	15275.9	9643.1	3986.1
82.5°	534.7	565.1	789.9	1203.1	2892.3	6762.9	7279.4	7018.1	3487.8	1871.5
85°	279.5	291.7	413.2	644.1	1640.6	2138.9	2199.6	2357.6	1810.7	1276.0
87.5°	109.4	109.4	151.9	267.4	607.6	662.3	595.5	723.1	1039.1	826.4
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):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
5802.9	0°	5802.9	5802.9	5802.9	5802.9	5802.9	5802.9	5802.9	5802.9	5802.9	5802.9
5845.4	2.5°	5894.0	5845.4	5839.3	5760.4	5784.7	5717.8	5723.9	5711.7	5717.8	5705.7
5863.6	5°	5863.6	5827.2	5723.9	5790.7	5730.0	5815.0	5881.9	5857.6	5875.8	5869.7
5960.9	7.5°	5906.2	5857.6	5845.4	5809.0	5863.6	5900.1	5954.8	6106.7	6094.5	6112.8
6143.2	10°	6033.8	5979.1	5942.6	5997.3	5966.9	6082.4	6143.2	6222.2	6361.9	6368.0
6404.4	12.5°	6282.9	6246.5	6173.5	6185.7	6289.0	6325.4	6361.9	6410.5	6501.7	6483.4
6580.7	15°	6568.5	6489.5	6447.0	6434.8	6459.1	6501.7	6495.6	6544.2	6592.8	6635.3
6872.3	17.5°	6775.1	6671.8	6684.0	6744.7	6738.6	6726.5	6647.5	6623.2	6647.5	6671.8
7133.6	20°	6987.8	6999.9	6908.8	6854.1	6829.8	6708.3	6647.5	6574.6	6501.7	6538.1
7352.3	22.5°	7255.1	7200.4	7066.8	6902.7	6781.2	6708.3	6519.9	6392.3	6392.3	6428.7
7680.5	25°	7558.9	7443.5	7212.6	6914.9	6762.9	6453.1	6319.4	6301.1	6252.5	6307.2
7850.6	27.5°	7795.9	7692.6	7376.7	6872.3	6453.1	6203.9	6124.9	6100.6	6179.6	6185.7
7905.3	30°	7893.1	7862.8	7401.0	6762.9	6137.1	5736.0	5687.4	5796.8	5881.9	6009.5
8087.6	32.5°	8020.7	8032.9	7437.4	6507.7	5723.9	5322.9	5249.9	5383.6	5626.7	5730.0
8227.3	35°	8233.4	8294.2	7407.0	6191.8	5286.4	4903.6	4891.4	4927.9	5164.9	5347.2
8391.4	37.5°	8604.1	8591.9	7401.0	5815.0	4940.0	4539.0	4441.8	4453.9	4611.9	4763.8
8841.0	40°	9102.3	9053.7	7382.7	5322.9	4490.4	4229.1	4065.1	4004.3	3992.1	3949.6
9406.1	42.5°	9782.9	9685.7	7376.7	4824.6	4083.3	3803.8	3688.3	3530.3	3414.9	3196.1
10402.7	45°	10730.8	10560.6	7218.7	4356.7	3682.2	3451.3	3275.1	3159.7	2910.6	2637.1
11666.5	47.5°	12195.2	11642.2	7224.7	3840.2	3293.4	3105.0	2983.5	2783.0	2515.6	2296.8
13908.7	50°	14352.3	13088.4	7018.1	3433.1	2977.4	2849.8	2722.2	2491.3	2236.1	2084.2
16345.3	52.5°	17135.2	15245.5	7012.1	3068.5	2728.3	2637.1	2497.4	2290.8	2102.4	2005.2
19316.6	55°	20452.9	18101.4	7230.8	2770.8	2473.1	2424.5	2363.7	2193.6	2011.3	1926.2
22628.2	57.5°	23849.6	20890.4	7583.2	2558.1	2254.3	2290.8	2248.2	2114.6	1968.7	1871.5
25684.6	60°	26869.5	23102.2	6872.3	2302.9	2059.9	2138.9	2199.6	2084.2	2005.2	1999.1
29014.4	62.5°	29148.1	24050.1	5225.6	2108.5	1956.6	2102.4	2266.5	2339.4	2302.9	2351.5
31183.7	65°	29980.6	23478.9	3597.2	2005.2	1877.6	2187.5	2552.1	2527.7	2315.1	2223.9
32149.8	67.5°	28813.9	21163.8	2667.5	1883.7	1822.9	2363.7	2716.1	2412.3	2090.3	2078.1
29379.0	70°	24779.2	17937.3	2175.3	1756.1	1731.8	2266.5	2643.2	2236.1	1968.7	1889.7
24268.8	72°	19742.0	13969.5	1908.0	1664.9	1585.9	2023.4	2473.1	2096.3	1865.4	1768.2
22670.7	72.5°	18022.4	12948.6	1871.5	1622.4	1555.5	1968.7	2388.0	2053.8	1841.1	1756.1
13580.6	75°	9886.2	6629.3	1646.7	1488.7	1312.5	1701.4	2211.8	1926.2	1737.8	1616.3
5037.3	77.5°	3676.2	2570.3	1421.9	1318.6	1136.3	1470.5	2011.3	1829.0	1579.8	1427.9
1677.1	80°	1409.7	1355.0	1160.6	1112.0	954.0	1288.2	1853.3	1640.6	1342.9	1191.0
917.5	82.5°	856.8	789.9	881.1	868.9	729.2	1172.7	1743.9	1537.3	1191.0	966.1
492.2	85°	467.9	467.9	613.7	589.4	510.4	935.8	1318.6	1020.8	753.5	619.8
243.1	87.5°	206.6	243.1	328.1	309.9	279.5	528.6	644.1	540.8	376.7	255.2
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>
5802.9
5675.3
5875.8
6149.2
6295.1
6550.3
6617.1
6659.6
6592.8
6410.5
6331.5
6282.9
6015.6
5809.0
5450.5
4745.6
3961.8
3208.3
2637.1
2272.5
2102.4
1968.7
1920.1
1859.4
1956.6
2357.6
2272.5
2041.6
1853.3
1725.7
1689.2
1604.1
1397.6
1142.3
935.8
631.9
273.4
0.0

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