

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: P574665

Luminaire Tested: **EPH-VN-07-750-U-T2R**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P574665
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-07-750-U-T2R
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (112) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

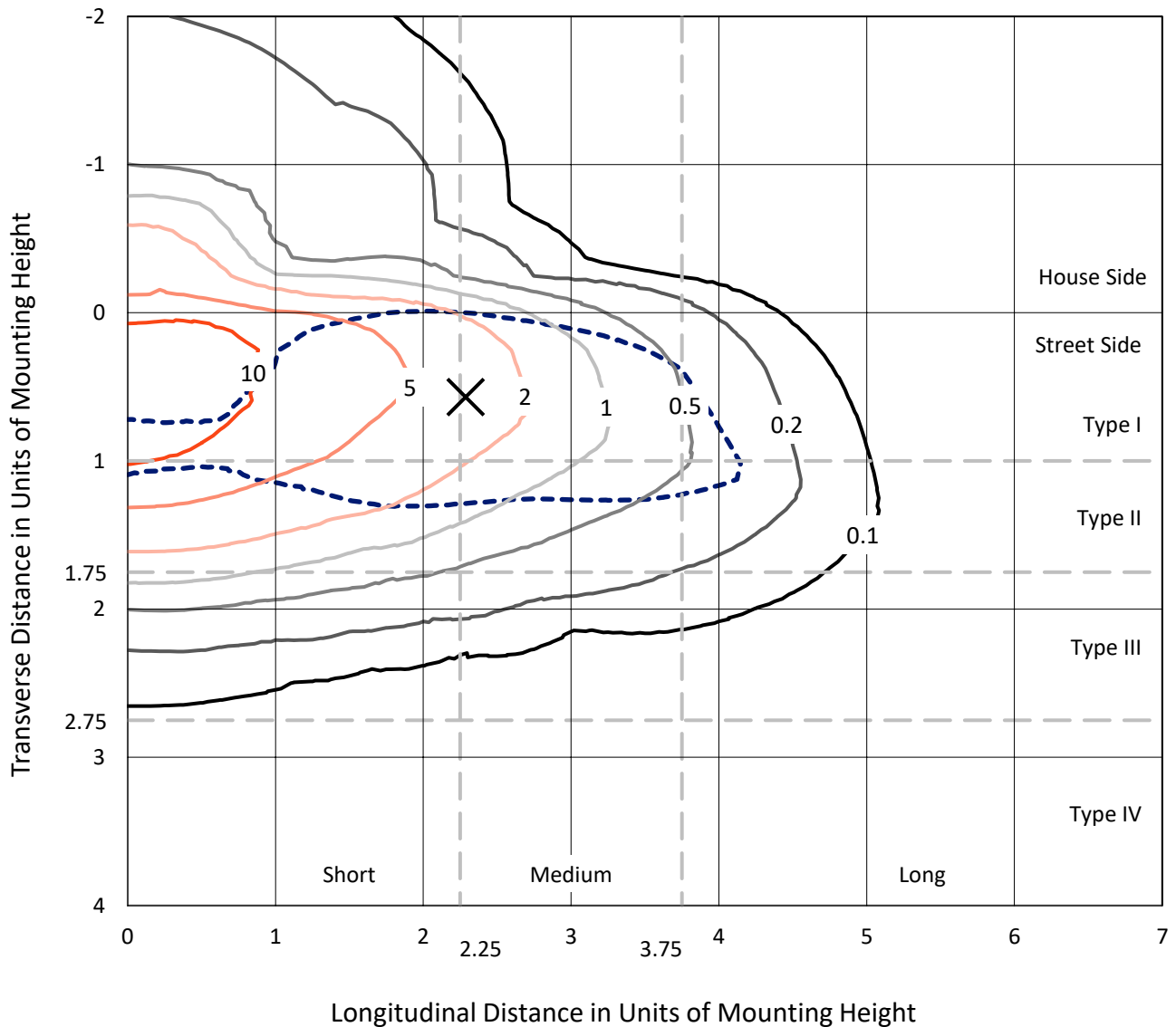
Lumens per Lamp: N/A
Luminaire Lumens: 58068.7 lumens
Efficiency: N/A
Efficacy: 109.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

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

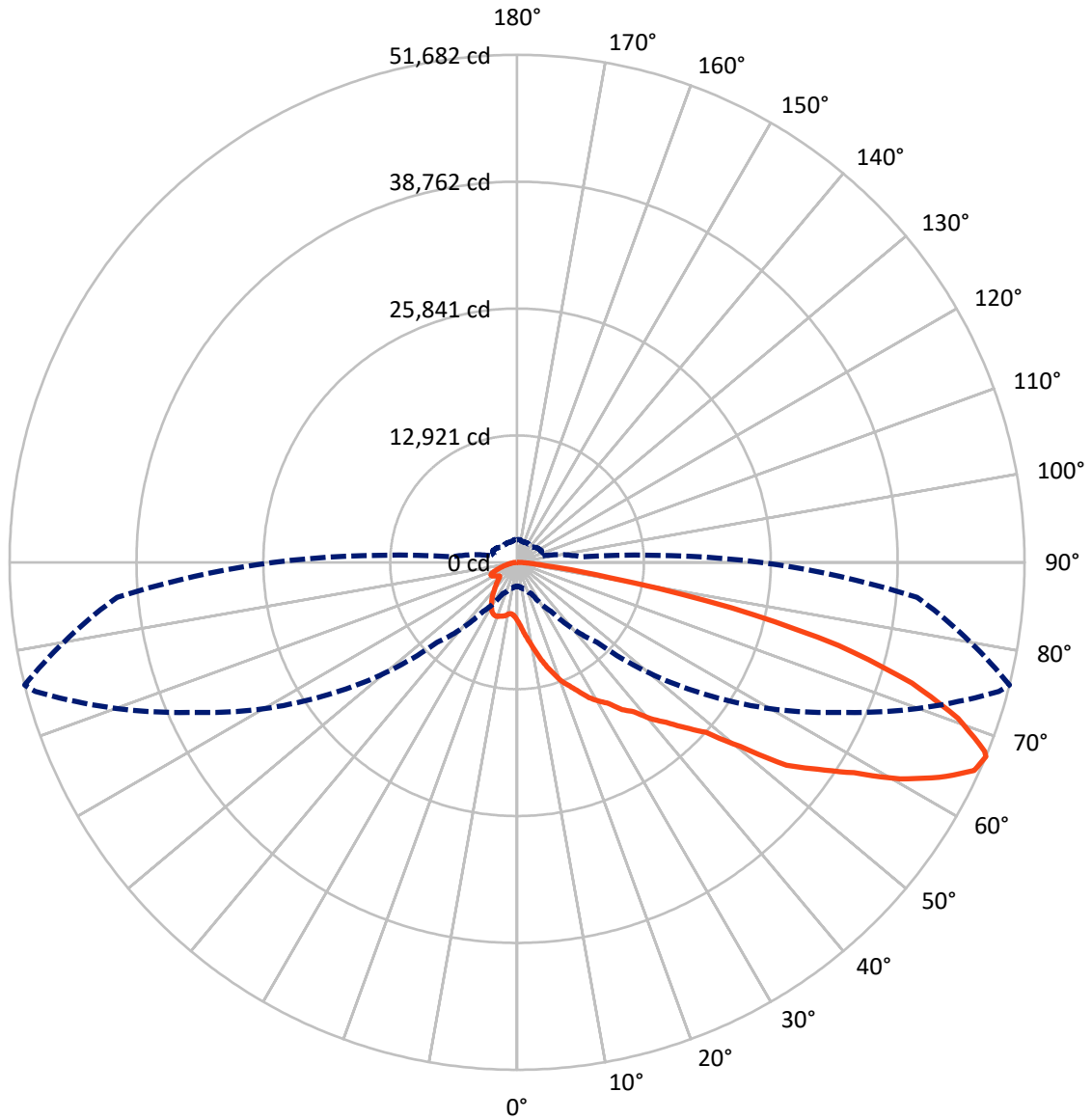
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 15.4 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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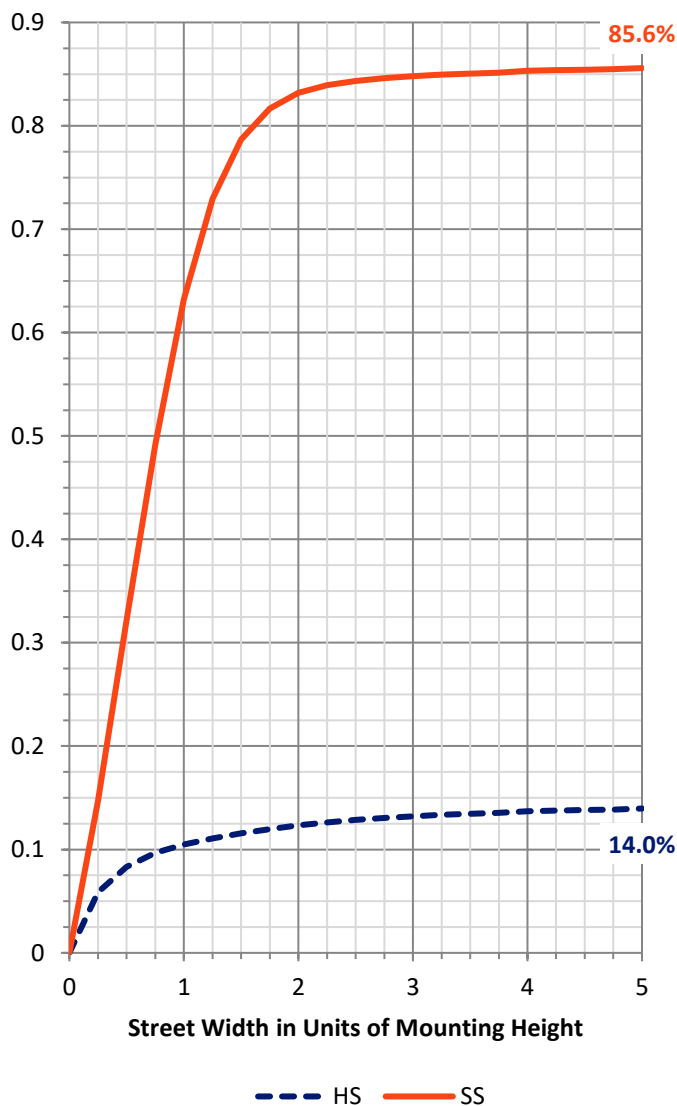
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8261.0	0.0	8261.0
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	49807.7	0.0	49807.7
	% Fixture	85.8	0.0	85.8
Total	Lumens	58068.7	0.0	58068.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	688.3	1.2
10°-20°	2581.7	4.4
20°-30°	4799.6	8.3
30°-40°	7608.5	13.1
40°-50°	10523.3	18.1
50°-60°	12944.3	22.3
60°-70°	12045.3	20.7
70°-80°	6044.3	10.4
80°-90°	833.4	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°	58068.7	100.0
0°-180°	58068.7	100.0

Coefficient of Utilization

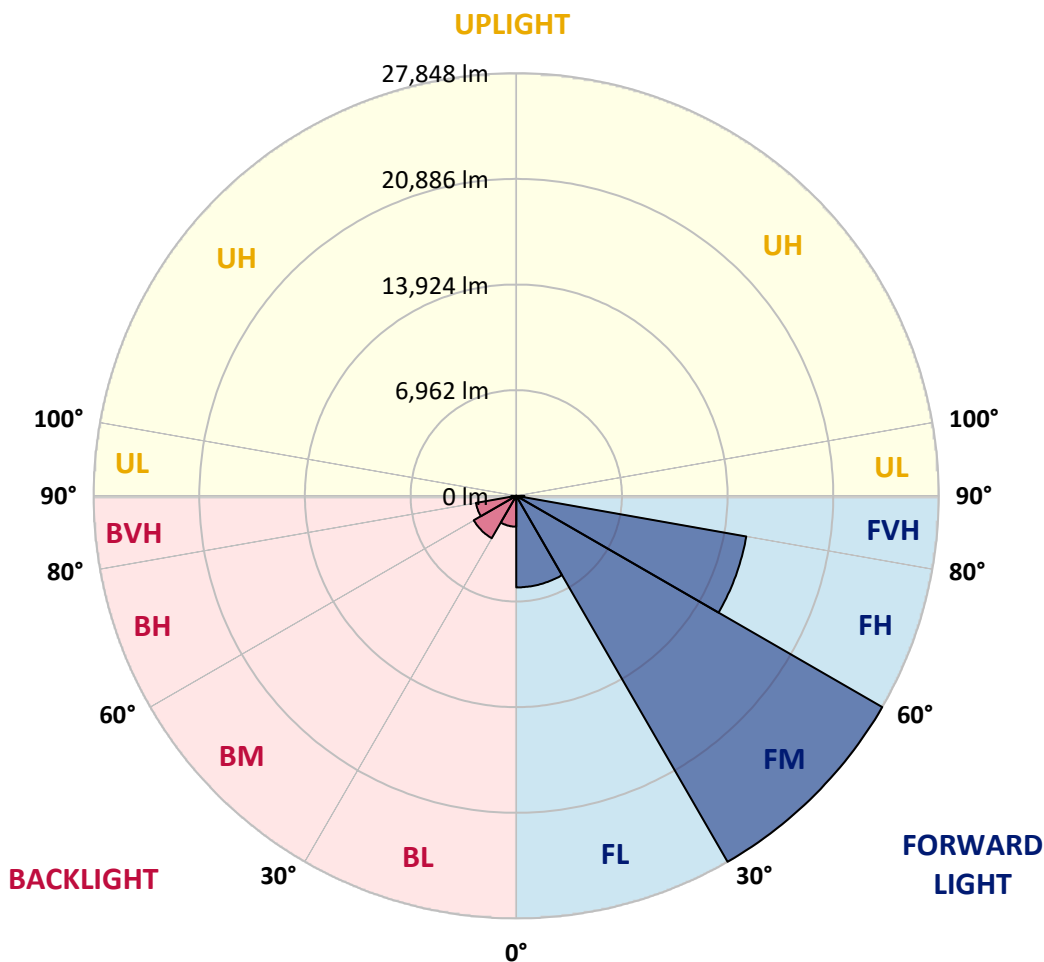


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6035.3	10.4			
FM (30°-60°)	27847.9	48.0			
FH (60°-80°)	15393.5	26.5			G5
FVH (80°-90°)	531.0	0.9			G4/750
BL (0°-30°)	2034.3	3.5	B3/2500		
BM (30°-60°)	3228.2	5.6	B3/5000		
BH (60°-80°)	2696.0	4.6	B4/5000		G4/5000
BVH (80°-90°)	302.4	0.5			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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°
0°	5942.4	5942.4	5942.4	5942.4	5942.4	5942.4	5942.4	5942.4	5942.4	5942.4
2.5°	8245.3	8146.0	8046.8	7835.0	7762.2	7563.7	7199.8	6796.1	6465.2	6418.9
5°	10230.5	10085.0	10051.9	9932.8	9555.6	9171.7	8576.2	7927.7	7120.3	7179.9
7.5°	11719.5	11633.4	11454.8	11342.3	11117.3	10607.7	9992.3	9132.0	8106.3	7907.8
10°	12844.4	12725.3	12718.7	12619.4	12500.3	11977.5	11507.7	10349.6	9032.8	8761.5
12.5°	13413.5	13393.7	13744.4	13744.4	13698.1	13479.7	12672.4	11613.6	9912.9	9820.3
15°	14028.9	13863.5	14167.9	14399.5	14518.6	14631.1	13962.8	12844.4	11037.9	10859.2
17.5°	14028.9	14015.7	14320.1	14703.9	15325.9	15471.5	15107.6	13976.0	11970.9	11838.6
20°	13790.7	13982.6	14194.4	14710.5	15385.5	15974.5	16080.3	15134.0	13003.2	12897.4
22.5°	14902.4	14717.1	14935.5	15134.0	15656.8	16550.2	16841.3	16153.1	14088.5	13684.8
25°	16768.5	16642.8	16484.0	16192.8	16411.2	16801.6	17245.0	16907.5	15014.9	14564.9
27.5°	18588.3	18595.0	18250.8	17615.6	17145.7	17225.1	17747.9	17569.3	15795.8	15597.3
30°	21175.7	21016.9	20633.1	19772.9	18853.0	18098.6	18012.6	18184.7	16788.4	16404.6
32.5°	23114.7	23147.7	22605.1	21367.7	20110.3	19494.9	18740.5	18813.3	17417.1	17132.5
35°	24683.0	24643.3	24259.5	23233.8	21744.8	21003.7	19984.6	19567.7	18879.5	18429.5
37.5°	26377.0	26052.8	25430.8	24272.7	23319.8	22294.1	21301.5	20361.8	19852.3	19309.6
40°	27058.6	27058.6	26224.8	25695.4	24563.9	23789.6	23147.7	21407.4	21036.8	20930.9
42.5°	26575.6	26873.3	26529.2	25927.1	25463.8	24484.5	24312.4	22492.6	22499.2	22287.5
45°	26529.2	26119.0	25834.4	25986.6	25768.2	25715.3	26152.1	23994.8	24034.5	24008.0
47.5°	25199.1	25013.9	25437.4	25688.8	25867.5	26688.1	27945.4	25788.1	26072.6	25874.1
50°	23875.7	23842.6	24107.3	25020.5	25794.7	27144.7	29652.7	28554.2	29487.2	29474.0
52.5°	20249.3	20600.0	21639.0	23571.3	25483.7	27766.7	30943.1	32087.9	33868.0	34351.0
55°	16781.8	16596.5	18131.7	20937.5	24127.1	28011.5	32385.7	34212.1	36832.6	37183.3
57.5°	13056.2	13400.3	14611.3	17304.6	21321.3	26800.6	33444.4	36309.8	40181.0	40452.3
60°	9740.8	9787.2	11117.3	13287.8	17589.1	24067.6	33788.6	38460.5	44019.1	44793.3
62.5°	6127.7	6405.7	7418.1	9555.6	13241.5	20242.7	32246.7	39764.1	48042.5	48247.6
65°	3302.1	3480.8	4241.8	5585.1	9251.2	15312.7	28157.1	38983.2	49935.1	51152.7
67°	2441.8	2474.9	2825.6	3566.8	6187.3	11527.5	23478.6	36157.6	50795.3	51682.1
67.5°	2289.6	2335.9	2613.9	3202.8	5485.8	10614.3	22254.4	35151.7	50411.5	51364.4
70°	1958.8	1972.0	2038.2	2203.6	3077.1	6385.8	15153.9	28805.6	46725.6	47638.8
72.5°	1740.4	1753.6	1780.1	1813.2	2084.5	3692.5	9218.1	22168.4	40611.1	42067.0
75°	1528.6	1574.9	1588.2	1561.7	1773.5	2402.1	4903.5	16292.1	33126.8	33834.9
77.5°	1297.0	1316.9	1343.3	1369.8	1581.6	1793.3	2355.8	10998.2	22737.5	22307.3
80°	1091.9	1098.5	1118.3	1138.2	1369.8	1369.8	1336.7	5942.4	9932.8	9496.0
82.5°	780.9	827.2	873.5	926.4	1138.2	919.8	873.5	2647.0	3143.3	2991.1
85°	304.4	370.6	575.7	635.3	721.3	496.3	582.3	1144.8	1310.2	1297.0
87.5°	52.9	59.6	158.8	244.8	264.7	172.1	277.9	410.3	489.7	529.4
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°
5942.4	0°	5942.4	5942.4	5942.4	5942.4	5942.4	5942.4	5942.4	5942.4	5942.4	5942.4
6187.3	2.5°	5995.4	5790.2	5545.4	5300.6	5141.7	4890.3	4870.4	4718.2	4698.4	4645.4
6385.8	5°	6041.7	5796.9	5300.6	4910.1	4731.5	4585.9	4619.0	4552.8	4532.9	4499.8
6829.2	7.5°	6405.7	5922.6	5181.4	4844.0	4711.6	4645.4	4645.4	4566.0	4506.5	4546.2
7371.8	10°	6643.9	5982.1	5274.1	4936.6	4830.7	4685.1	4738.1	4638.8	4671.9	4592.5
8000.5	12.5°	7027.7	6319.6	5466.0	5075.6	4903.5	4771.2	4824.1	4711.6	4685.1	4691.8
8675.4	15°	7543.9	6544.6	5552.0	5155.0	5035.9	4870.4	4830.7	4731.5	4632.2	4599.1
9416.6	17.5°	8026.9	6822.6	5611.6	5201.3	5009.4	4824.1	4777.8	4652.0	4619.0	4519.7
10257.0	20°	8602.6	7153.4	5691.0	5241.0	4910.1	4724.8	4605.7	4480.0	4367.5	4307.9
11018.0	22.5°	8986.5	7325.5	5730.7	5161.6	4764.5	4592.5	4341.0	4255.0	4096.2	4030.0
11752.5	25°	9615.1	7537.2	5631.4	4943.2	4506.5	4228.5	4003.5	3884.4	3771.9	3685.9
12255.5	27.5°	9773.9	7696.1	5399.8	4572.6	4096.2	3805.0	3613.1	3467.5	3394.7	3262.4
12976.8	30°	10237.2	7537.2	5055.7	4122.7	3705.8	3408.0	3216.1	3110.2	2938.1	2905.0
13552.5	32.5°	10534.9	7583.6	4619.0	3685.9	3255.8	2991.1	2865.3	2759.5	2713.1	2554.3
14432.6	35°	11031.2	7424.7	4175.6	3282.2	2885.2	2680.1	2574.2	2541.1	2388.9	2316.1
15187.0	37.5°	11348.9	7332.1	3732.2	2825.6	2481.5	2395.5	2428.6	2289.6	2104.3	1965.4
16153.1	40°	11904.7	7299.0	3229.3	2448.4	2203.6	2183.7	2289.6	2024.9	1687.4	1568.3
17311.2	42.5°	12705.4	7074.0	2838.9	2111.0	1985.2	2071.3	2091.1	1687.4	1495.5	1396.3
18866.3	45°	13473.1	7120.3	2455.1	1747.0	1727.1	1852.9	1806.6	1429.4	1316.9	1244.1
20659.6	47.5°	14948.8	7352.0	2077.9	1455.8	1555.1	1674.2	1402.9	1277.2	1171.3	1118.3
23908.7	50°	17231.8	7576.9	1747.0	1330.1	1469.1	1515.4	1204.4	1158.0	1151.4	1045.6
26602.0	52.5°	18601.6	7490.9	1687.4	1488.9	1574.9	1515.4	1310.2	1277.2	1224.2	1177.9
29368.1	55°	20778.7	7742.4	1813.2	1740.4	1786.7	1455.8	1469.1	1455.8	1416.1	1297.0
32577.6	57.5°	22512.5	7907.8	1978.6	1945.5	1919.1	1515.4	1535.2	1541.9	1515.4	1462.5
35939.2	60°	24894.7	8238.7	2150.7	2157.3	2163.9	1647.7	1680.8	1720.5	1713.9	1694.1
39327.3	62.5°	26357.2	8086.5	2342.6	2448.4	2415.4	1919.1	1912.4	1938.9	1938.9	1972.0
40836.1	65°	26138.8	7524.0	2441.8	2706.5	2534.5	2117.6	2117.6	2130.8	2137.4	2203.6
40895.7	67°	24828.6	6518.2	2388.9	2746.2	2534.5	2197.0	2197.0	2210.2	2163.9	2335.9
40432.4	67.5°	24219.8	6220.4	2342.6	2713.1	2514.6	2190.4	2190.4	2197.0	2157.3	2322.7
37183.3	70°	21063.3	4619.0	2018.3	2402.1	2329.3	2130.8	2130.8	2091.1	2058.0	2276.4
32081.3	72.5°	17979.5	3355.0	1621.3	2044.8	2104.3	2051.4	2064.6	1965.4	1872.7	2024.9
24947.7	75°	13770.9	2468.3	1263.9	1574.9	1780.1	1919.1	2005.1	1753.6	1634.5	1674.2
13492.9	77.5°	7682.8	1608.0	999.2	1164.7	1356.6	1786.7	1925.7	1581.6	1336.7	1290.4
4559.4	80°	2607.3	939.7	734.5	866.9	933.1	1581.6	1799.9	1283.8	1052.2	1005.8
1541.9	82.5°	986.0	575.7	502.9	595.6	595.6	1250.7	1469.1	986.0	794.1	1025.7
575.7	85°	450.0	344.1	330.9	344.1	344.1	767.6	1038.9	641.9	714.7	615.4
211.8	87.5°	178.7	165.4	152.2	145.6	119.1	132.3	357.3	172.1	324.3	86.0
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>
5942.4
4671.9
4446.9
4585.9
4592.5
4671.9
4638.8
4440.3
4334.4
3977.1
3659.4
3235.9
2832.3
2514.6
2249.9
1919.1
1502.2
1350.0
1283.8
1125.0
1038.9
1125.0
1330.1
1508.8
1707.3
1991.8
2210.2
2283.0
2269.8
2230.1
1985.2
1601.4
1290.4
972.8
1045.6
542.6
79.4
0.0

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