

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: P574609

Luminaire Tested: **EPH-VN-03-735-U-T2**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P574609
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-03-735-U-T2
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (48) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

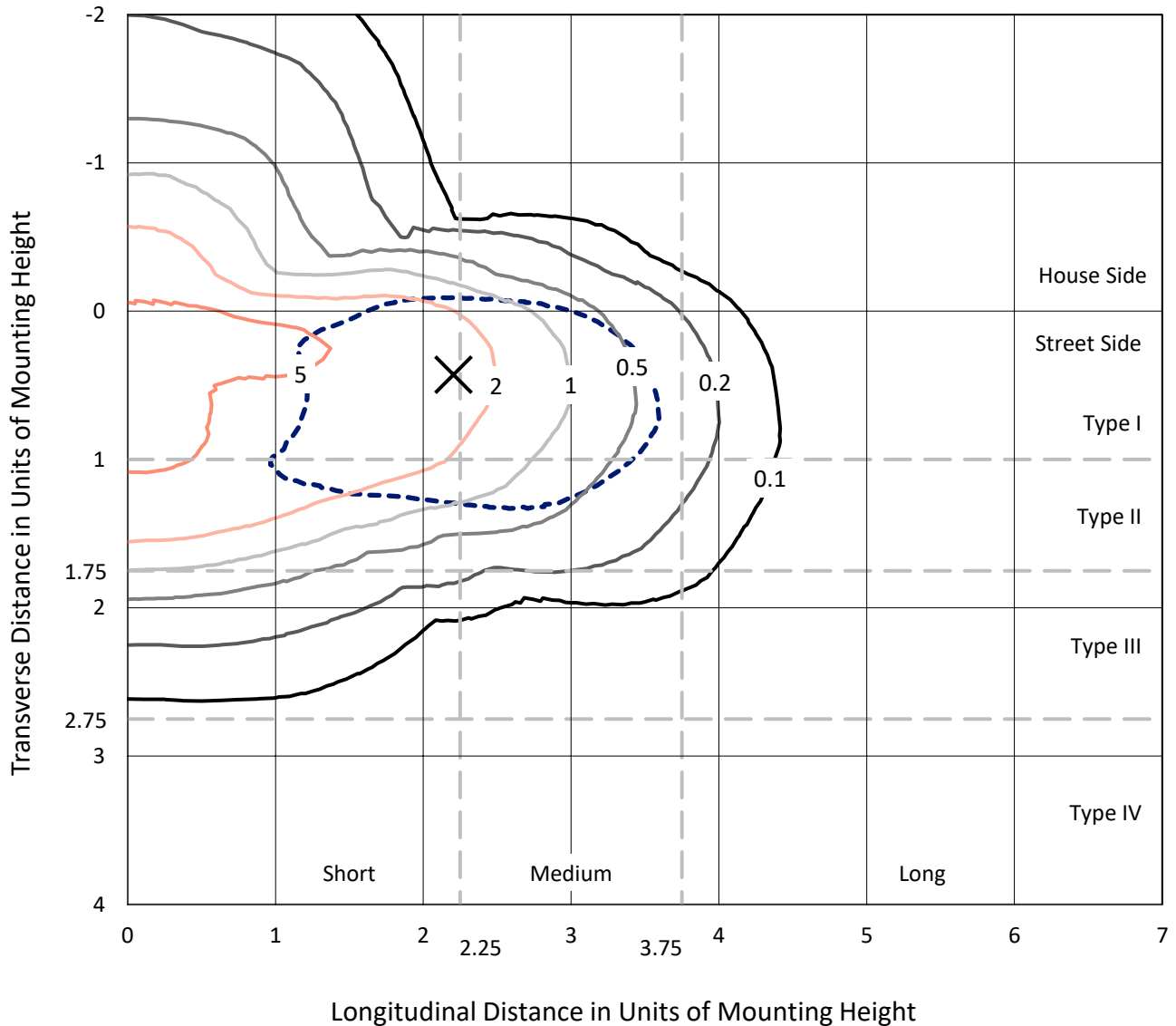
Lumens per Lamp: N/A
Luminaire Lumens: 26571.7 lumens
Efficiency: N/A
Efficacy: 114.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 232.1
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

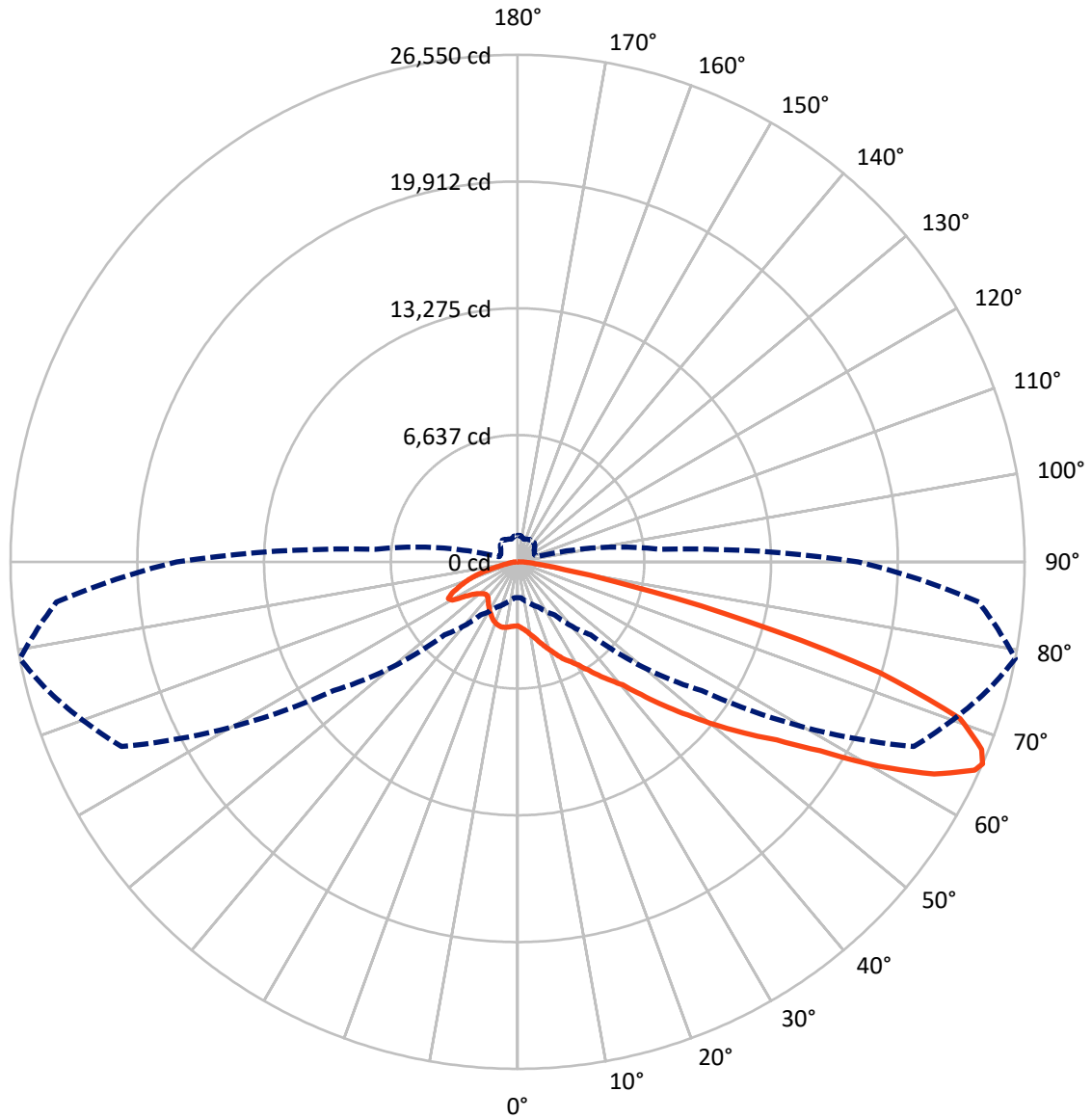
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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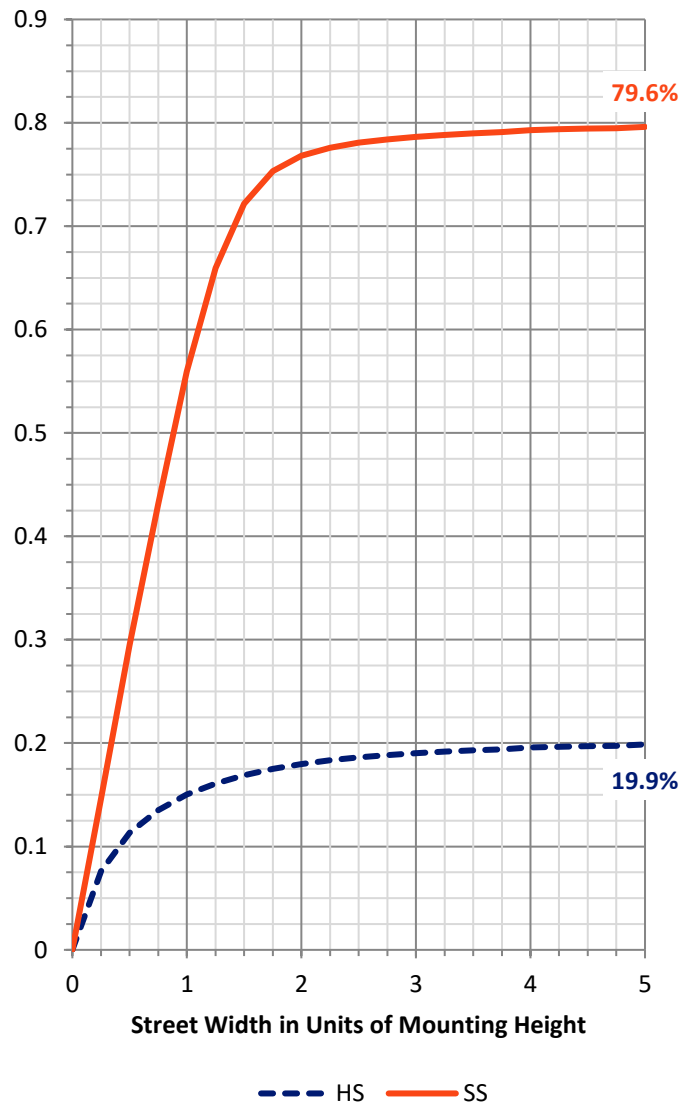
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5365.8	0.0	5365.8
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	21205.9	0.0	21205.9
	% Fixture	79.8	0.0	79.8
Total	Lumens	26571.7	0.0	26571.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	329.9	1.2
10°-20°	1018.8	3.8
20°-30°	1748.8	6.6
30°-40°	2701.5	10.2
40°-50°	4327.1	16.3
50°-60°	6460.7	24.3
60°-70°	6638.4	25.0
70°-80°	2942.7	11.1
80°-90°	403.8	1.5
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°	26571.7	100.0
0°-180°	26571.7	100.0

Coefficient of Utilization



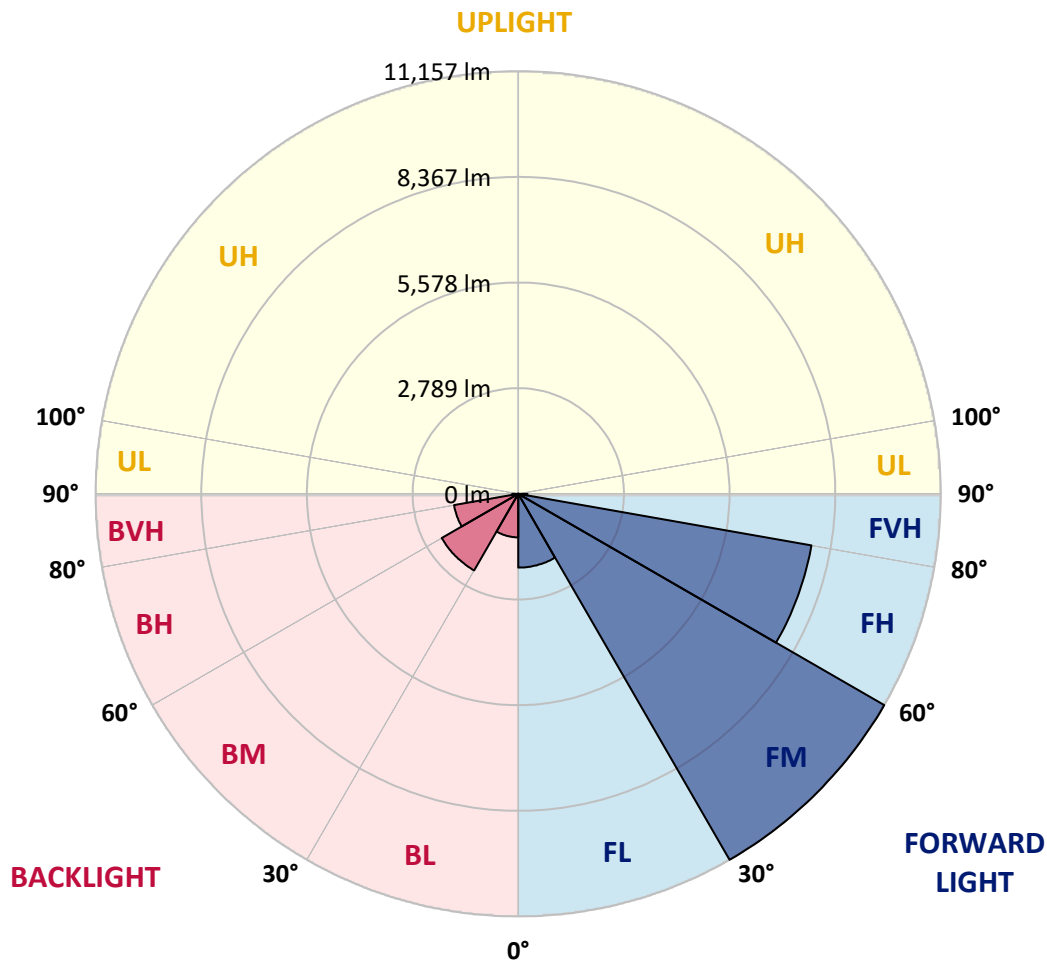
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1947.9	7.3			
FM (30°-60°)	11156.6	42.0			
FH (60°-80°)	7859.3	29.6			G4/12000
FVH (80°-90°)	242.2	0.9			G3/500
BL (0°-30°)	1149.6	4.3	B3/2500		
BM (30°-60°)	2332.8	8.8	B2/2500		
BH (60°-80°)	1721.8	6.5	B3/2500		G3/2500
BVH (80°-90°)	161.6	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	3355.3	3355.3	3355.3	3355.3	3355.3	3355.3	3355.3	3355.3	3355.3	3355.3
2.5°	3568.6	3571.5	3571.5	3559.9	3562.8	3571.5	3539.4	3469.3	3469.3	3457.6
5°	3787.8	3773.2	3752.8	3755.7	3744.0	3744.0	3708.9	3641.7	3583.2	3559.9
7.5°	3817.1	3831.7	3828.7	3863.8	3881.4	3881.4	3898.9	3843.4	3755.7	3700.1
10°	3875.5	3837.5	3834.6	3916.4	3942.7	4004.1	4074.3	4045.0	3972.0	3893.0
12.5°	3910.6	3934.0	3934.0	3974.9	4036.3	4126.9	4249.6	4305.1	4191.2	4109.3
15°	3963.2	3931.0	4024.6	4059.6	4176.6	4240.8	4416.2	4559.4	4483.4	4384.1
17.5°	3986.6	3966.1	4018.7	4083.0	4281.8	4378.2	4591.6	4790.3	4726.0	4661.7
20°	4106.4	4103.5	4126.9	4179.5	4322.7	4512.7	4778.6	5053.4	5076.7	4959.8
22.5°	4398.7	4360.7	4360.7	4340.2	4401.6	4597.4	4956.9	5336.9	5442.1	5304.7
25°	4667.6	4720.2	4688.0	4594.5	4571.1	4673.4	5085.5	5637.9	5778.2	5649.6
27.5°	5012.4	5030.0	5085.5	4959.8	4799.1	4831.2	5225.8	5807.4	6096.8	5924.3
30°	5509.3	5477.2	5465.5	5325.2	5114.7	5070.9	5386.6	6055.9	6514.7	6272.1
32.5°	5845.4	5924.3	5921.4	5728.5	5474.2	5377.8	5585.3	6289.7	6961.9	6736.8
35°	6511.8	6593.6	6529.3	6245.8	5947.7	5754.8	5871.7	6593.6	7473.4	7298.0
37.5°	7362.3	7555.2	7417.8	6894.7	6473.8	6263.4	6269.2	6923.9	7996.5	7853.3
40°	7949.8	8209.9	8019.9	7528.9	7081.7	6883.0	6804.1	7315.5	8622.0	8470.0
42.5°	8677.5	8893.8	8794.4	8309.3	7786.1	7616.6	7458.8	7970.2	9577.7	9507.6
45°	9472.5	9574.8	9542.6	9235.8	8654.1	8595.7	8247.9	8832.4	10703.0	10732.2
47.5°	10211.9	10267.5	10328.9	10106.7	9744.3	9794.0	9156.8	9756.0	11796.1	11988.9
50°	10401.9	10591.9	10735.1	10884.2	10963.1	11299.2	10159.3	10890.0	13052.8	13426.9
52.5°	10209.0	10194.4	10629.9	11097.5	11886.7	12591.0	11524.2	12298.8	14163.4	14902.9
55°	9332.2	9303.0	10004.4	10624.0	12164.3	13310.0	13473.7	14175.1	15505.0	16466.5
57.5°	7797.8	7616.6	8382.3	9399.4	11562.2	13388.9	15431.9	16960.5	17568.4	18664.4
60°	5240.4	5164.4	5898.0	7110.9	9387.7	12269.5	16603.9	20447.3	20476.5	21709.9
62.5°	3226.7	3241.3	3711.8	4620.8	6573.2	9726.8	16098.3	23232.6	23238.5	24474.8
65°	2110.2	2119.0	2498.9	3001.6	4106.4	6596.6	13312.9	23451.8	25158.7	26307.3
66°	1879.3	1882.2	2209.6	2618.7	3402.0	5398.2	11758.1	22881.9	25591.2	26549.9
67.5°	1584.1	1622.1	1885.1	2200.8	2653.8	3878.4	9329.3	21233.5	25369.1	26210.8
70°	1239.2	1259.7	1467.2	1788.7	1990.4	2244.6	5544.4	17308.3	23220.9	24585.8
72.5°	993.7	1011.3	1169.1	1452.6	1616.3	1478.9	3019.2	12558.9	18342.9	19798.4
75°	838.8	841.7	917.7	1142.8	1329.8	1110.6	1607.5	8060.8	11769.7	12447.8
77.5°	678.1	689.8	742.4	871.0	1069.7	873.9	958.6	4515.6	5909.7	5959.4
80°	552.4	558.2	590.4	634.2	815.4	645.9	648.8	2203.7	2534.0	2475.5
82.5°	435.5	441.3	479.3	470.6	599.2	461.8	403.3	1060.9	1166.2	1142.8
85°	245.5	245.5	377.0	377.0	380.0	292.3	245.5	499.8	616.7	575.8
87.5°	78.9	81.8	114.0	119.8	190.0	131.5	119.8	187.1	292.3	257.2
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°
3355.3	0°	3355.3	3355.3	3355.3	3355.3	3355.3	3355.3	3355.3	3355.3	3355.3	3355.3
3437.1	2.5°	3425.4	3378.7	3358.2	3291.0	3273.4	3229.6	3209.1	3182.8	3174.1	3136.1
3498.5	5°	3451.7	3437.1	3355.3	3270.5	3206.2	3177.0	3133.1	3074.7	3068.8	3016.2
3638.8	7.5°	3562.8	3513.1	3369.9	3279.3	3150.7	3077.6	2981.2	2951.9	2913.9	2896.4
3811.2	10°	3735.2	3609.5	3396.2	3168.2	3010.4	2922.7	2852.6	2832.1	2835.0	2823.3
3983.7	12.5°	3858.0	3738.1	3352.3	3074.7	2870.1	2785.3	2779.5	2800.0	2832.1	2817.5
4185.3	15°	4033.3	3808.3	3320.2	2919.8	2756.1	2732.7	2729.8	2791.2	2788.3	2788.3
4457.1	17.5°	4197.0	3878.4	3203.3	2785.3	2636.3	2653.8	2674.3	2671.4	2700.6	2712.3
4682.2	20°	4404.5	3960.3	3039.6	2650.9	2545.7	2539.8	2536.9	2539.8	2569.1	2586.6
4936.5	22.5°	4585.7	3977.8	2902.2	2522.3	2437.5	2414.2	2376.2	2414.2	2399.5	2405.4
5281.3	25°	4743.6	3980.7	2706.4	2425.8	2329.4	2276.8	2247.6	2244.6	2218.3	2215.4
5477.2	27.5°	4875.1	3881.4	2534.0	2291.4	2200.8	2151.1	2148.2	2116.0	2048.8	2005.0
5708.0	30°	4977.4	3805.4	2414.2	2174.5	2086.8	2078.0	2051.7	1978.7	1891.0	1835.5
6134.8	32.5°	5158.6	3653.4	2250.5	2054.7	2010.8	1999.1	1937.8	1873.5	1791.6	1739.0
6497.2	35°	5293.0	3513.1	2142.3	1952.4	1931.9	1908.5	1855.9	1785.8	1762.4	1750.7
6885.9	37.5°	5445.0	3355.3	2010.8	1864.7	1885.1	1841.3	1779.9	1747.8	1829.6	1809.2
7493.8	40°	5687.6	3244.2	1882.2	1812.1	1832.5	1782.9	1703.9	1692.2	1794.5	1721.5
8274.2	42.5°	6131.8	3241.3	1803.3	1733.2	1747.8	1709.8	1639.6	1633.8	1674.7	1587.0
9250.4	45°	6684.2	3343.6	1744.9	1674.7	1663.0	1657.2	1633.8	1607.5	1572.4	1458.4
10337.6	47.5°	7344.8	3510.2	1733.2	1587.0	1601.6	1651.3	1622.1	1554.9	1464.3	1391.2
11547.6	50°	8145.6	3855.1	1703.9	1522.7	1549.0	1627.9	1604.6	1511.0	1429.2	1382.4
12655.3	52.5°	9031.2	4290.5	1665.9	1423.4	1481.8	1607.5	1619.2	1531.5	1411.7	1370.8
14154.7	55°	10074.6	4933.5	1622.1	1315.2	1402.9	1587.0	1619.2	1473.0	1388.3	1388.3
16443.2	57.5°	12135.1	6090.9	1531.5	1215.8	1332.8	1549.0	1572.4	1476.0	1391.2	1391.2
19994.2	60°	15157.2	7897.2	1359.1	1139.9	1265.5	1496.4	1537.3	1432.1	1359.1	1376.6
22917.0	62.5°	17521.6	8446.6	1212.9	1066.8	1198.3	1400.0	1490.6	1385.4	1321.1	1385.4
24255.6	65°	18027.3	7891.3	1063.9	987.9	1104.8	1306.5	1423.4	1318.1	1265.5	1391.2
24238.0	66°	17846.1	7458.8	1011.3	964.5	1063.9	1259.7	1382.4	1294.8	1236.3	1385.4
23688.6	67.5°	17039.4	6809.9	952.8	914.8	1008.3	1192.5	1335.7	1262.6	1189.5	1367.8
21689.4	70°	15285.8	5775.3	853.4	827.1	929.4	1081.4	1227.5	1180.8	1116.5	1259.7
17059.8	72.5°	11772.7	4615.0	748.2	751.1	838.8	967.4	1119.4	1087.2	1031.7	1104.8
10451.6	75°	7169.4	2949.0	651.8	657.6	730.7	859.3	1017.1	993.7	926.5	967.4
4831.2	77.5°	3177.0	1461.4	549.5	561.2	619.6	757.0	885.6	847.6	777.4	786.2
1964.1	80°	1233.4	692.7	447.2	461.8	499.8	605.0	733.6	698.5	637.2	625.5
903.1	82.5°	593.3	385.8	344.9	350.7	365.3	482.2	631.3	587.5	505.6	453.0
423.8	85°	298.1	239.7	242.6	222.1	242.6	327.3	426.7	356.6	295.2	263.0
152.0	87.5°	119.8	119.8	119.8	102.3	108.1	154.9	198.7	134.4	122.8	73.1
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>
3355.3
3171.1
3010.4
2934.4
2805.8
2837.9
2785.3
2732.7
2572.0
2422.9
2215.4
2010.8
1835.5
1730.2
1759.5
1817.9
1703.9
1560.7
1429.2
1376.6
1373.7
1364.9
1382.4
1379.5
1373.7
1391.2
1397.1
1388.3
1341.5
1212.9
1075.6
952.8
780.4
619.6
453.0
268.9
73.1
0.0

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