

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: P575050

Luminaire Tested: **EPH-VN-04-735-U-SL4**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575050
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-04-735-U-SL4
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

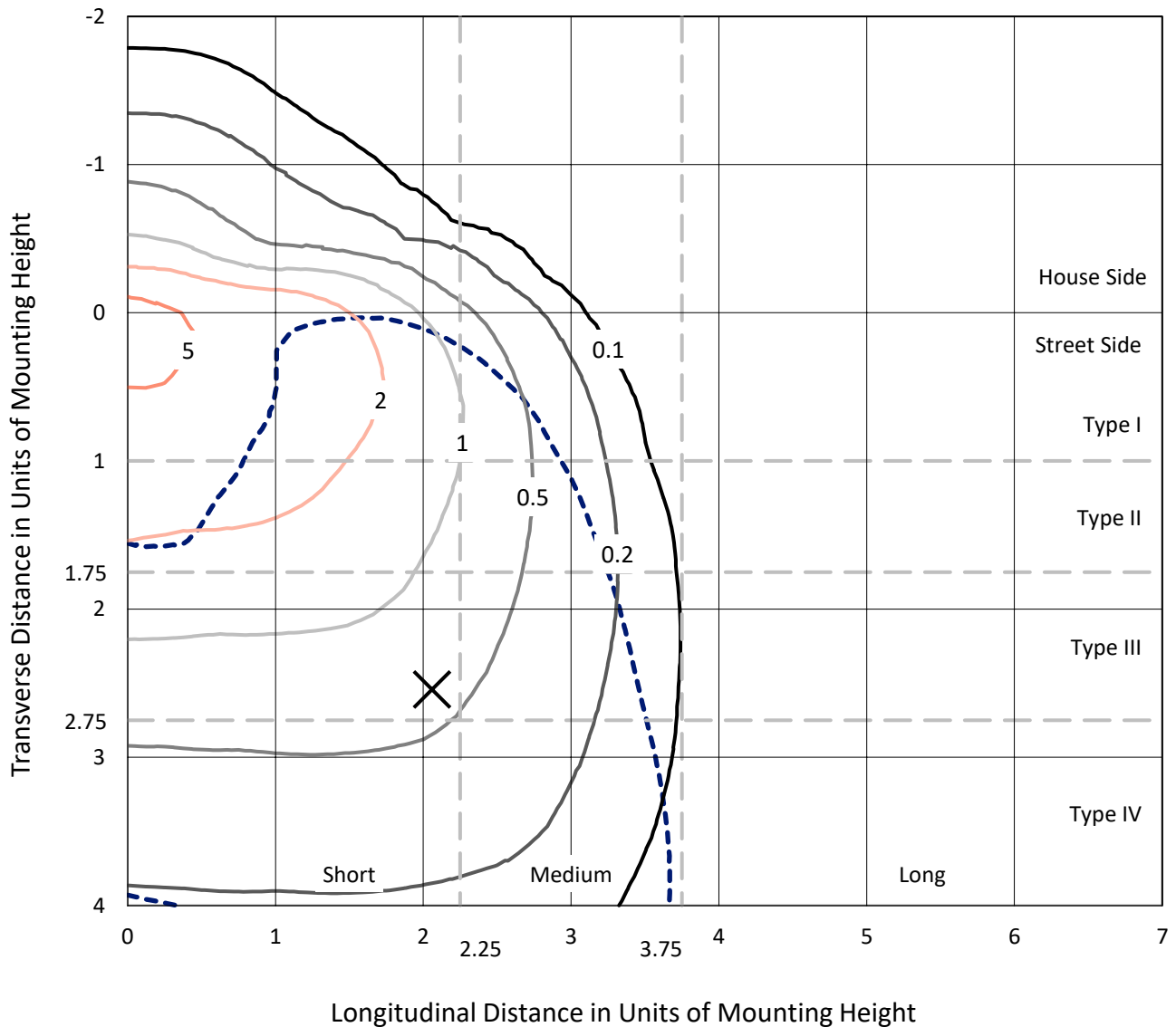
Lumens per Lamp: N/A
Luminaire Lumens: 33366.8 lumens
Efficiency: N/A
Efficacy: 109.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 303.8
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

REPORT NUMBER: P575050
 CATALOG NUMBER: EPH-VN-04-735-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

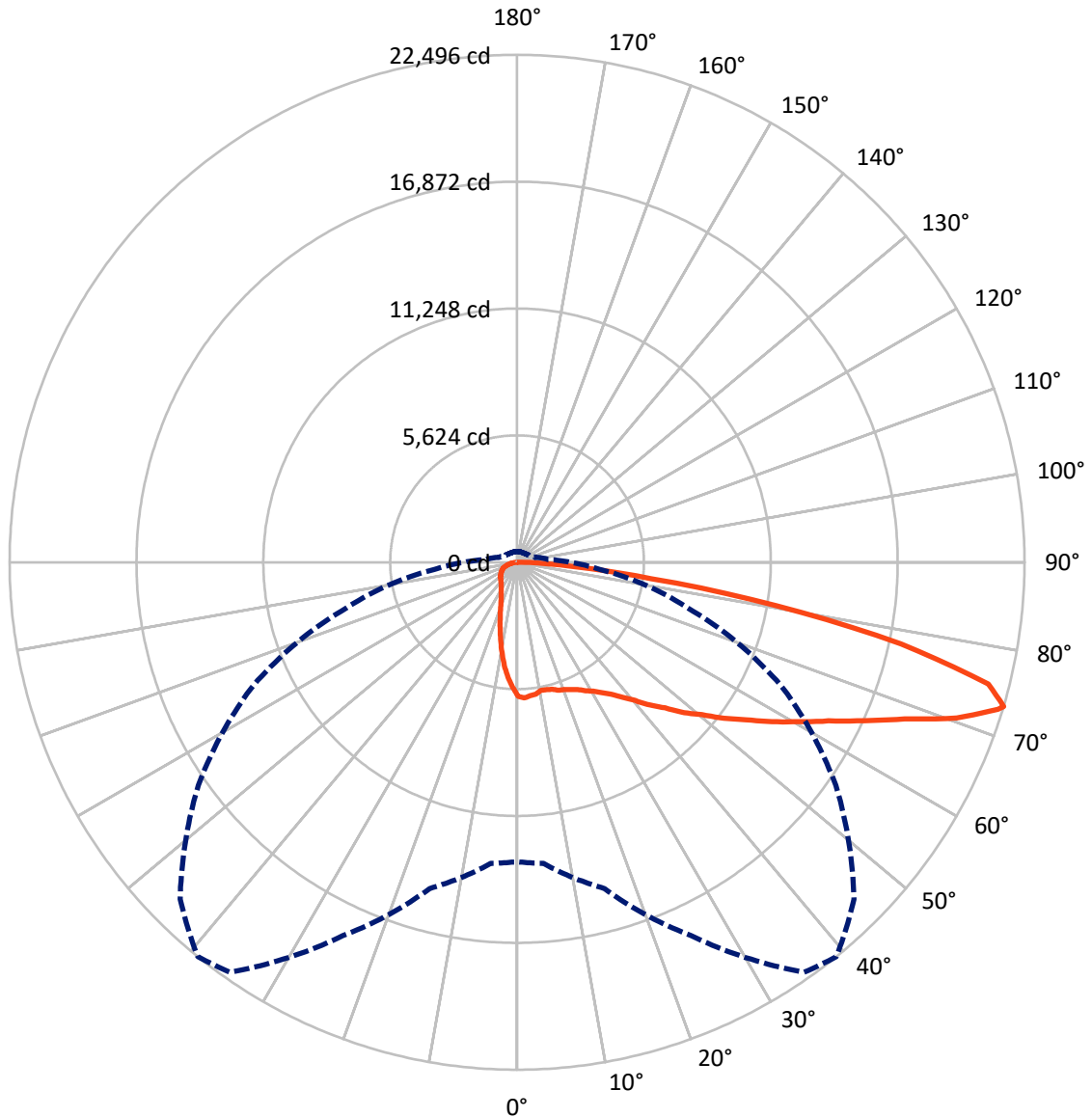
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.6 fc
 Type IV - Short - N/A

REPORT NUMBER: P575050
CATALOG NUMBER: EPH-VN-04-735-U-SL4

Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

REPORT NUMBER: P575050
 CATALOG NUMBER: EPH-VN-04-735-U-SL4

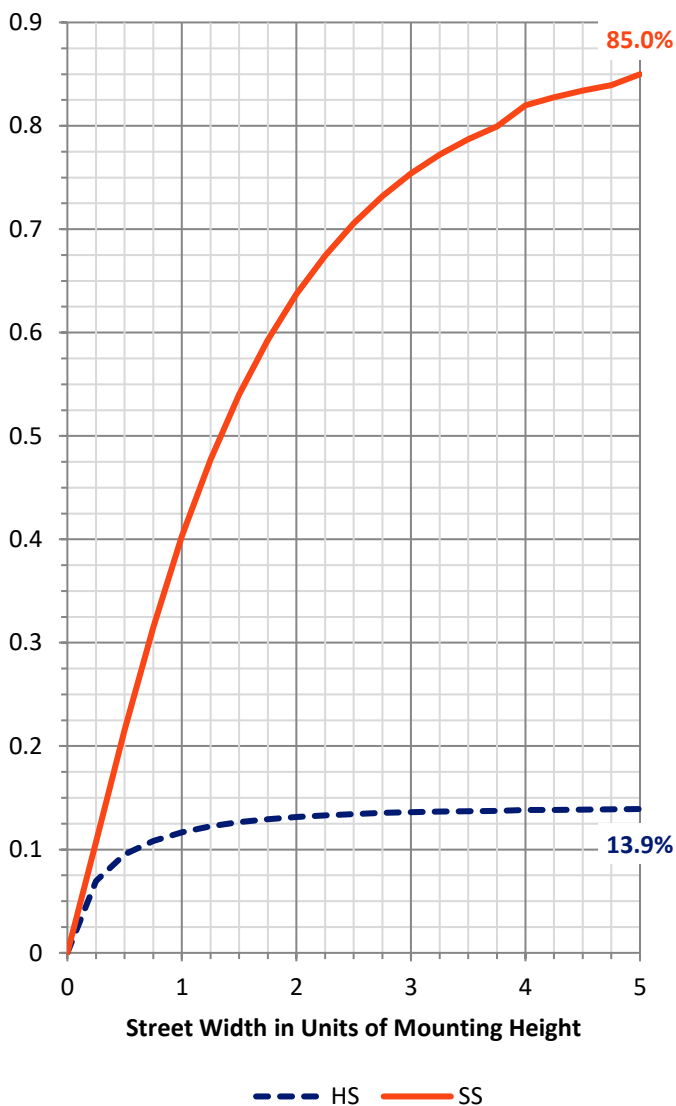
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4690.4	0.0	4690.4
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	28676.4	0.0	28676.4
	% Fixture	85.9	0.0	85.9
Total	Lumens	33366.8	0.0	33366.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	515.6	1.5
10°-20°	1310.7	3.9
20°-30°	2002.9	6.0
30°-40°	2920.3	8.8
40°-50°	4412.9	13.2
50°-60°	6390.1	19.2
60°-70°	8119.0	24.3
70°-80°	6581.7	19.7
80°-90°	1113.6	3.3
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°	33366.8	100.0
0°-180°	33366.8	100.0

Coefficient of Utilization

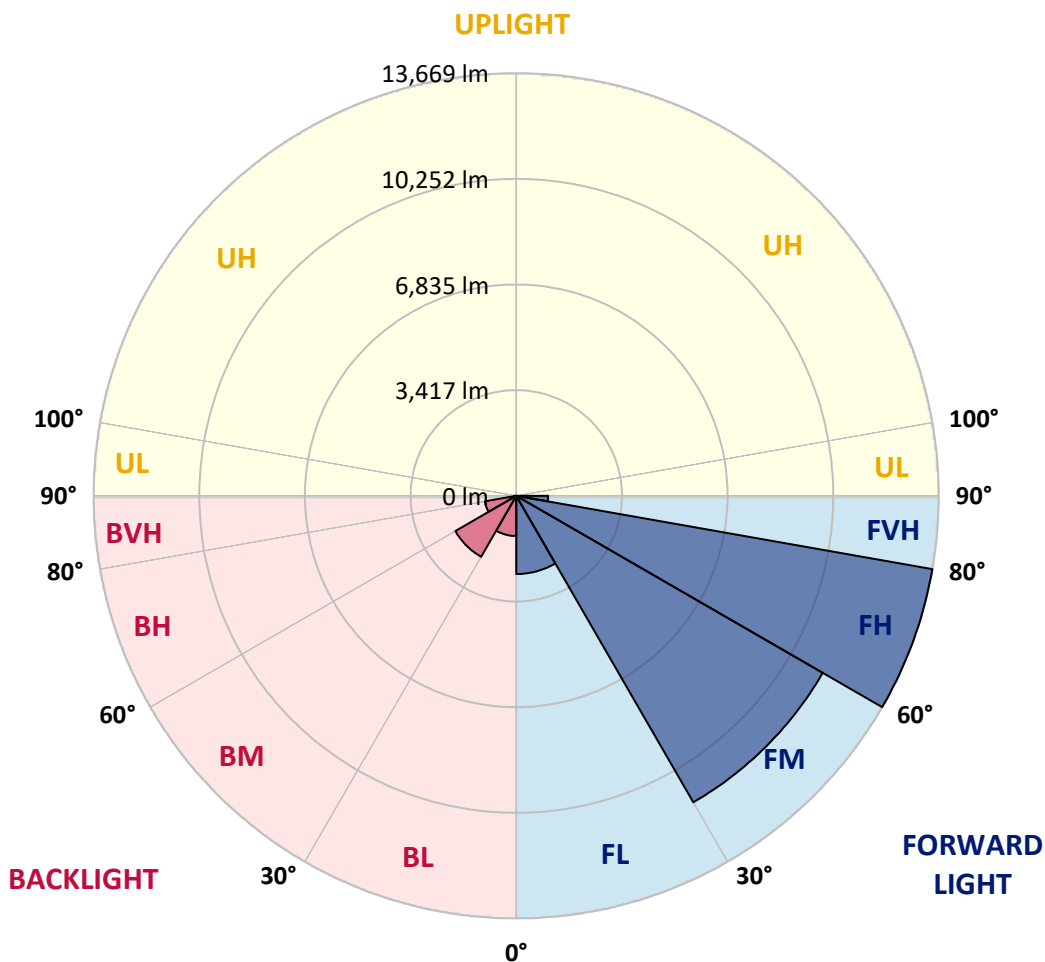


REPORT NUMBER: P575050
 CATALOG NUMBER: EPH-VN-04-735-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2528.5	7.6			
FM	(30°-60°)	11447.0	34.3			
FH	(60°-80°)	13669.1	41.0			G5
FVH	(80°-90°)	1031.9	3.1			G5
BL	(0°-30°)	1300.8	3.9	B3/2500		
BM	(30°-60°)	2276.4	6.8	B2/2500		
BH	(60°-80°)	1031.6	3.1	B3/2500		G3/2500
BVH	(80°-90°)	81.7	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type IV Short





REPORT NUMBER: P575050
 CATALOG NUMBER: EPH-VN-04-735-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°
0°	5939.5	5939.5	5939.5	5939.5	5939.5	5939.5	5939.5	5939.5	5939.5	5939.5
2.5°	6081.4	6017.9	6029.1	6006.7	6029.1	6021.6	6010.4	5954.4	6010.4	5954.4
5°	5999.2	5999.2	6036.6	5980.6	5988.0	5950.7	5988.0	5947.0	5909.6	5816.3
7.5°	5973.1	5969.4	5973.1	5894.7	5932.0	5909.6	5872.3	5827.5	5752.8	5693.1
10°	5793.9	5831.2	5790.2	5812.6	5842.4	5775.2	5771.5	5760.3	5726.7	5648.3
12.5°	5696.8	5760.3	5782.7	5764.0	5790.2	5797.6	5775.2	5760.3	5719.2	5667.0
15°	5737.9	5663.2	5726.7	5849.9	5823.8	5842.4	5846.2	5831.2	5812.6	5715.5
17.5°	5749.1	5704.3	5838.7	5864.8	5898.4	5965.6	5920.8	5917.1	5846.2	5779.0
20°	5775.2	5756.6	5864.8	6003.0	6006.7	6017.9	6040.3	5984.3	5947.0	5831.2
22.5°	5872.3	5935.8	6036.6	6096.3	6129.9	6137.4	6137.4	6025.4	5984.3	5891.0
25°	6163.5	6096.3	6238.2	6309.1	6260.6	6249.4	6223.2	6122.4	6077.6	5995.5
27.5°	6376.3	6372.5	6454.7	6551.7	6421.1	6447.2	6353.9	6324.0	6223.2	6178.4
30°	6667.5	6749.6	6745.9	6775.7	6604.0	6633.9	6514.4	6458.4	6402.4	6428.5
32.5°	7040.8	7010.9	7059.5	7037.1	6865.3	6891.5	6749.6	6663.7	6682.4	6760.8
35°	7279.7	7249.8	7268.5	7268.5	7216.2	7186.4	7126.6	7014.7	7104.3	7249.8
37.5°	7537.3	7574.6	7682.9	7660.5	7593.3	7593.3	7585.8	7507.4	7623.2	7981.5
40°	7765.0	7865.8	7933.0	7977.8	8056.2	8056.2	8119.7	8074.9	8283.9	8858.8
42.5°	8003.9	8007.7	8373.5	8407.1	8582.6	8657.3	8705.8	8743.1	9135.1	9777.2
45°	8310.1	8328.7	8649.8	8907.4	9179.9	9206.0	9389.0	9512.2	9993.7	10781.4
47.5°	8713.3	8690.9	9034.3	9445.0	9784.7	9963.9	10184.1	10318.5	10912.1	11871.5
50°	9243.4	9176.2	9374.0	10019.9	10419.3	10617.2	11009.2	11233.2	11927.5	12913.1
52.5°	9889.2	9777.2	9934.0	10639.6	11087.6	11487.0	11860.3	12110.5	12834.7	13719.5
55°	10572.4	10340.9	10385.7	11296.6	11942.5	12319.5	12831.0	13092.3	13831.4	14443.7
57.5°	11248.1	11102.5	11012.9	11927.5	12961.6	13323.7	13794.1	14133.8	14761.0	15085.8
60°	11815.5	11778.2	11632.6	12905.6	14040.5	14350.4	14843.1	15052.2	15526.3	15679.4
62.5°	12282.2	12155.2	12386.7	13693.3	15138.1	15489.0	16030.3	16049.0	16384.9	16049.0
65°	12648.0	12655.5	13025.1	14645.3	16407.3	16926.3	17363.0	17314.5	17098.0	15828.7
67.5°	12980.3	13122.1	13663.5	15690.6	18038.7	18527.8	19013.1	18371.0	17292.1	14798.3
70°	13241.6	13383.5	14525.8	16963.6	19961.3	20678.1	20786.4	18789.1	16399.9	12536.0
72.5°	13211.7	13469.3	15014.9	17979.0	21667.4	22287.1	21413.5	17613.2	13663.5	8739.4
73°	13275.2	13402.1	14973.8	18262.7	22186.3	22496.2	21122.4	17243.6	12887.0	7839.7
75°	12050.7	12480.0	14230.9	17799.8	21630.1	21574.1	19449.9	14369.0	9161.2	4117.7
77.5°	8914.8	9187.4	11214.5	14637.8	17755.0	17396.6	14671.4	9183.6	4349.2	1526.9
80°	4356.6	4569.4	5943.2	8451.9	11610.2	11640.1	9105.2	4778.5	1862.9	862.4
82.5°	2176.4	2303.4	2855.9	3714.5	5711.8	5984.3	4617.9	2717.8	1153.6	489.0
85°	1422.3	1511.9	1758.3	1818.1	2422.8	2557.2	2150.3	2120.4	750.4	265.1
87.5°	944.5	959.4	1078.9	918.4	970.6	933.3	1037.8	1336.5	220.3	112.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P575050

CATALOG NUMBER: EPH-VN-04-735-U-SL4

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
5939.5	0°	5939.5	5939.5	5939.5	5939.5	5939.5	5939.5	5939.5	5939.5	5939.5	5939.5
5939.5	2.5°	5920.8	5868.6	5812.6	5734.2	5678.2	5592.3	5513.9	5480.3	5472.8	5476.6
5790.2	5°	5767.8	5693.1	5581.1	5420.6	5327.3	5185.4	5065.9	5002.5	4935.3	4946.5
5607.2	7.5°	5555.0	5472.8	5301.1	5114.5	4883.0	4681.4	4569.4	4412.6	4323.0	4255.8
5596.0	10°	5487.8	5345.9	5088.3	4830.7	4472.4	4207.3	3949.7	3770.5	3647.3	3527.9
5517.6	12.5°	5454.2	5312.3	4953.9	4573.2	4110.2	3707.1	3344.9	3124.7	2949.2	2844.7
5618.4	15°	5424.3	5248.9	4827.0	4289.4	3770.5	3240.4	2833.5	2542.3	2374.3	2273.5
5637.1	17.5°	5465.4	5215.3	4640.3	4013.2	3397.2	2829.8	2378.0	2075.7	1903.9	1840.5
5614.7	20°	5424.3	5177.9	4457.4	3736.9	3023.9	2437.8	2004.7	1754.6	1635.1	1582.9
5719.2	22.5°	5439.3	5088.3	4267.0	3430.8	2676.7	2109.2	1754.6	1564.2	1470.9	1444.7
5767.8	25°	5510.2	5036.1	4076.6	3094.8	2333.2	1866.6	1594.1	1448.5	1381.3	1355.1
5853.6	27.5°	5562.4	5080.9	3904.9	2777.5	2042.1	1650.1	1459.7	1362.6	1317.8	1299.1
6107.5	30°	5693.1	5107.0	3736.9	2493.8	1803.1	1508.2	1366.3	1287.9	1258.1	1246.9
6454.7	32.5°	5887.2	5155.5	3542.8	2232.4	1627.7	1373.8	1291.7	1224.5	1217.0	1205.8
6842.9	35°	6204.6	5323.5	3326.3	2008.5	1459.7	1284.2	1213.3	1168.5	1168.5	1168.5
7462.6	37.5°	6660.0	5558.7	3132.1	1795.7	1351.4	1205.8	1146.1	1131.2	1123.7	1134.9
8220.5	40°	7246.1	5842.4	2975.3	1627.7	1258.1	1153.6	1101.3	1093.8	1090.1	1086.4
9030.6	42.5°	7888.2	6204.6	2841.0	1497.0	1190.9	1097.6	1060.2	1052.8	1037.8	1045.3
9911.6	45°	8526.6	6652.5	2721.5	1392.5	1146.1	1067.7	1015.4	1011.7	1004.2	1000.5
10874.8	47.5°	9235.9	7093.1	2684.2	1329.0	1112.5	1022.9	985.6	981.8	959.4	955.7
11535.5	50°	9788.4	7417.8	2725.2	1299.1	1064.0	989.3	963.2	944.5	925.8	907.2
12024.6	52.5°	10169.2	7641.8	2755.1	1276.7	1037.8	944.5	910.9	903.4	884.8	866.1
12513.6	55°	10512.6	7776.2	2762.6	1280.5	1011.7	892.2	869.8	866.1	854.9	825.0
12928.0	57.5°	10628.4	7720.2	2613.2	1246.9	996.8	858.6	828.8	836.2	821.3	795.2
12935.5	60°	10617.2	7332.0	2273.5	1202.1	963.2	821.3	784.0	806.4	806.4	776.5
12554.7	62.5°	9971.3	6436.0	1859.1	1116.2	925.8	784.0	742.9	776.5	787.7	769.0
11655.0	65°	8631.1	5241.4	1553.0	1030.4	869.8	742.9	701.8	739.2	757.8	750.4
9896.7	67.5°	7141.6	4009.4	1291.7	918.4	798.9	686.9	653.3	679.4	690.6	694.4
7466.4	70°	5047.3	2669.2	1078.9	795.2	701.8	627.2	589.8	593.6	589.8	601.0
4356.6	72.5°	2743.9	1538.1	877.3	675.7	604.8	545.0	518.9	500.2	500.2	496.5
3684.7	73°	2348.2	1381.3	836.2	657.0	578.6	530.1	500.2	485.3	485.3	481.6
1784.5	75°	1317.8	1011.7	716.8	563.7	500.2	462.9	440.5	418.1	414.4	414.4
963.2	77.5°	866.1	787.7	571.2	451.7	403.2	369.6	362.1	339.7	339.7	339.7
657.0	80°	649.6	619.7	440.5	343.5	309.9	283.7	276.3	261.3	257.6	242.7
373.3	82.5°	433.0	489.0	321.1	242.7	209.1	194.1	194.1	190.4	179.2	160.5
302.4	85°	343.5	399.5	231.5	149.3	123.2	104.5	108.3	104.5	100.8	82.1
82.1	87.5°	63.5	160.5	67.2	41.1	29.9	18.7	18.7	11.2	7.5	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>
5939.5
5439.3
4916.6
4293.2
3580.1
2885.8
2284.7
1825.5
1571.7
1452.2
1362.6
1295.4
1243.2
1209.6
1179.7
1142.4
1093.8
1056.5
1019.2
970.6
907.2
858.6
817.6
791.4
772.8
765.3
746.6
698.1
601.0
496.5
477.8
414.4
336.0
246.4
160.5
78.4
0.0
0.0

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