

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: P575059

Luminaire Tested: **EPH-VN-07-740-U-SL4**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575059
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-07-740-U-SL4
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (112) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

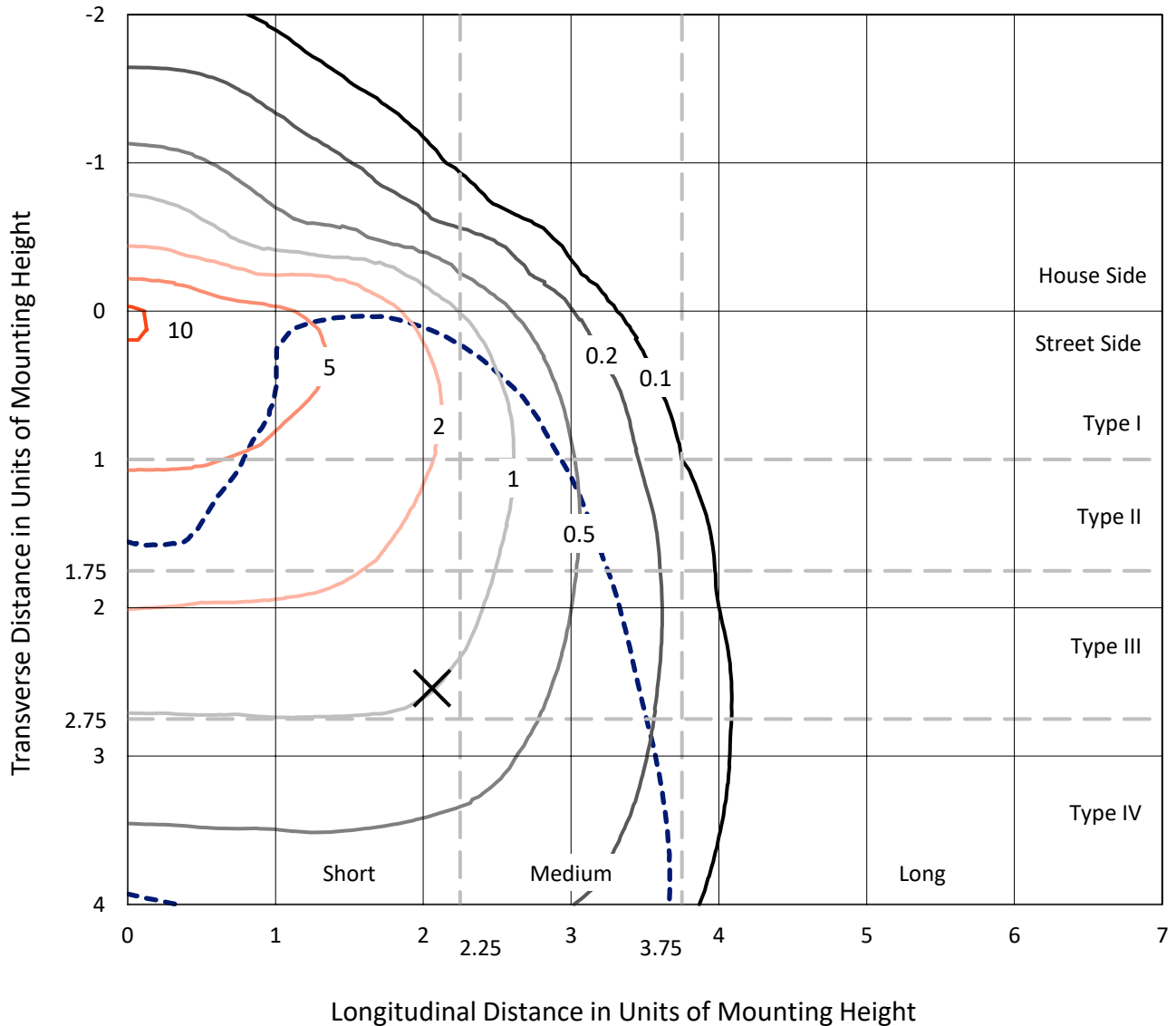
Lumens per Lamp: N/A
Luminaire Lumens: 54604.4 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 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

REPORT NUMBER: P575059
 CATALOG NUMBER: EPH-VN-07-740-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

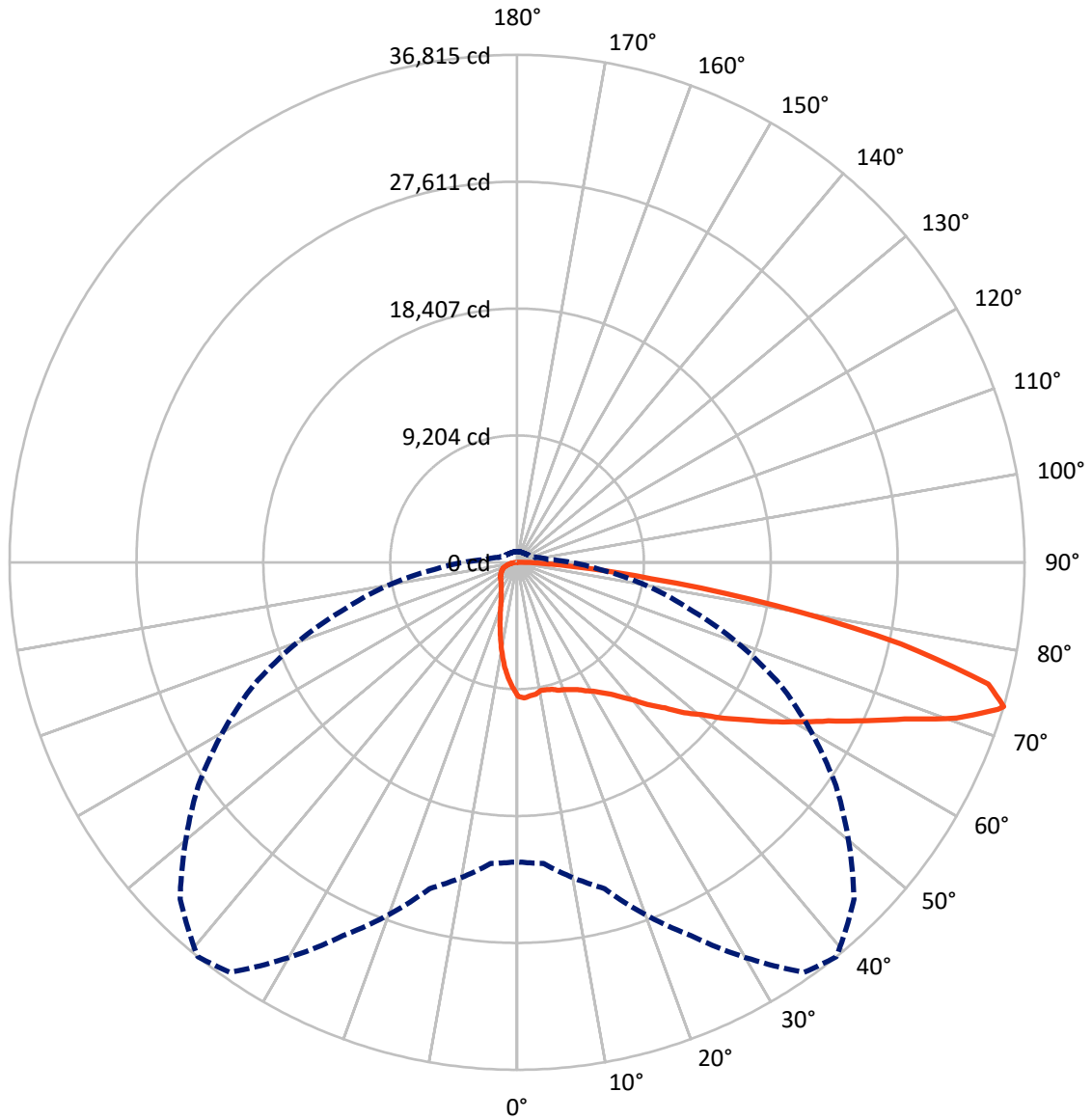
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.8 fc
 Type IV - Short - N/A

REPORT NUMBER: P575059
CATALOG NUMBER: EPH-VN-07-740-U-SL4

Luminous Intensity Polar Plot



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

REPORT NUMBER: P575059
 CATALOG NUMBER: EPH-VN-07-740-U-SL4

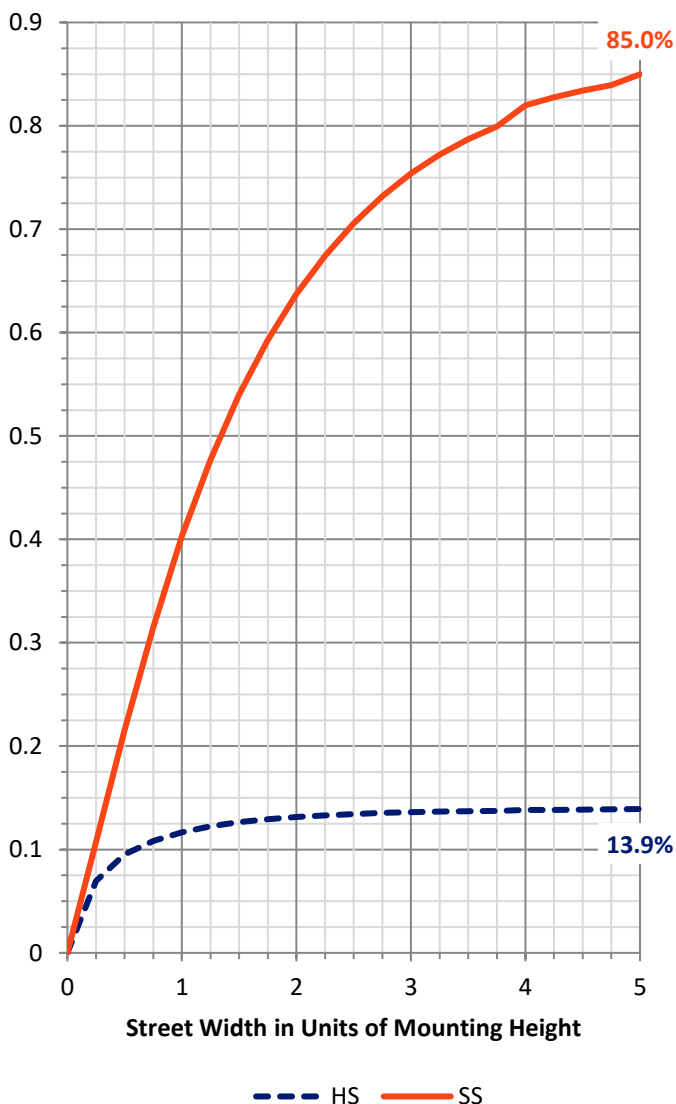
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7675.8	0.0	7675.8
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	46928.5	0.0	46928.5
	% Fixture	85.9	0.0	85.9
Total	Lumens	54604.4	0.0	54604.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	843.8	1.5
10°-20°	2145.0	3.9
20°-30°	3277.8	6.0
30°-40°	4779.1	8.8
40°-50°	7221.7	13.2
50°-60°	10457.4	19.2
60°-70°	13286.6	24.3
70°-80°	10770.8	19.7
80°-90°	1822.4	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°	54604.4	100.0
0°-180°	54604.4	100.0

Coefficient of Utilization

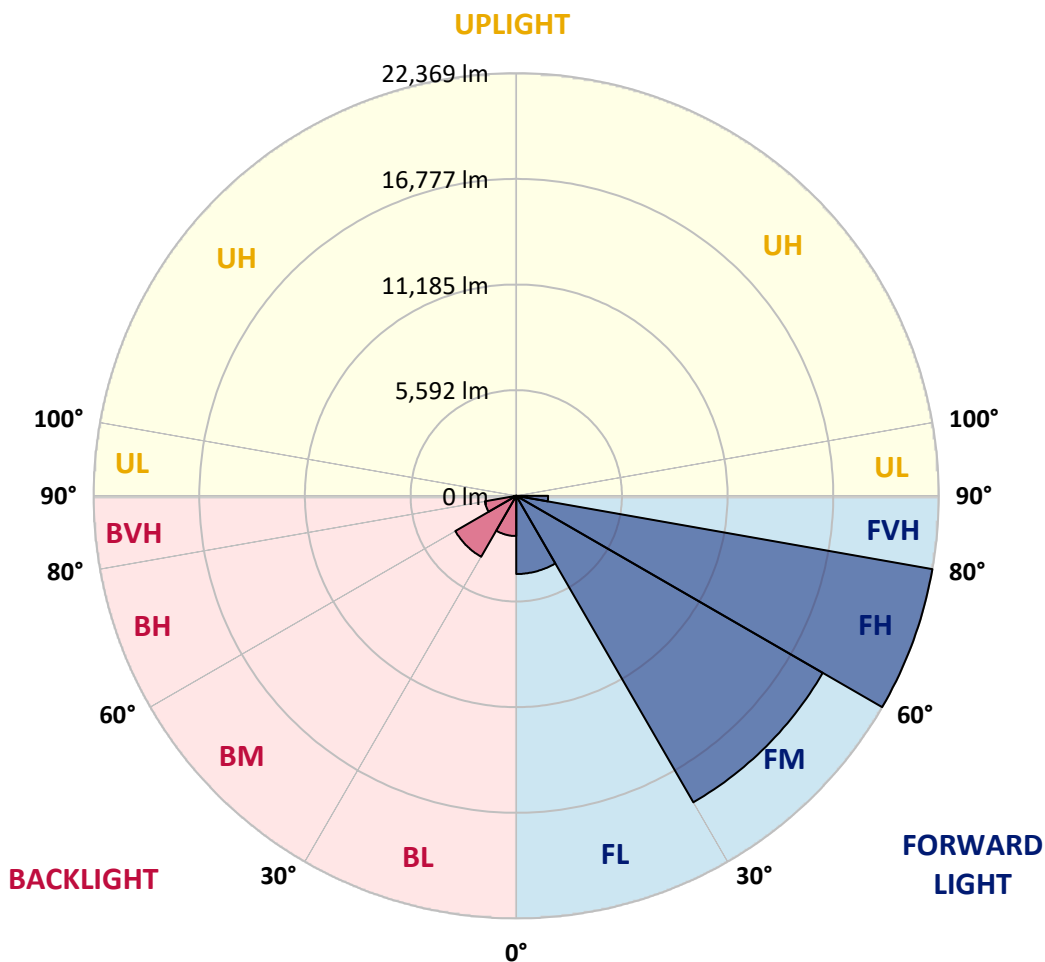


REPORT NUMBER: P575059
 CATALOG NUMBER: EPH-VN-07-740-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4137.8	7.6			
FM (30°-60°)	18732.8	34.3			
FH (60°-80°)	22369.2	41.0			G5
FVH (80°-90°)	1688.7	3.1			G5
BL (0°-30°)	2128.7	3.9	B3/2500		
BM (30°-60°)	3725.3	6.8	B3/5000		
BH (60°-80°)	1688.2	3.1	B3/2500		G3/2500
BVH (80°-90°)	133.7	0.2			G2/225
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: P575059
 CATALOG NUMBER: EPH-VN-07-740-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°
0°	9719.9	9719.9	9719.9	9719.9	9719.9	9719.9	9719.9	9719.9	9719.9	9719.9
2.5°	9952.1	9848.2	9866.5	9829.9	9866.5	9854.3	9836.0	9744.3	9836.0	9744.3
5°	9817.7	9817.7	9878.7	9787.1	9799.3	9738.2	9799.3	9732.1	9671.0	9518.3
7.5°	9774.9	9768.8	9774.9	9646.6	9707.7	9671.0	9609.9	9536.6	9414.4	9316.7
10°	9481.6	9542.7	9475.5	9512.2	9561.1	9451.1	9445.0	9426.7	9371.7	9243.4
12.5°	9322.8	9426.7	9463.3	9432.8	9475.5	9487.8	9451.1	9426.7	9359.5	9273.9
15°	9390.0	9267.8	9371.7	9573.3	9530.5	9561.1	9567.2	9542.7	9512.2	9353.3
17.5°	9408.3	9335.0	9555.0	9597.7	9652.7	9762.7	9689.4	9683.2	9567.2	9457.2
20°	9451.1	9420.5	9597.7	9823.8	9829.9	9848.2	9884.9	9793.2	9732.1	9542.7
22.5°	9609.9	9713.8	9878.7	9976.5	10031.5	10043.7	10043.7	9860.4	9793.2	9640.5
25°	10086.5	9976.5	10208.6	10324.7	10245.3	10227.0	10184.2	10019.3	9945.9	9811.5
27.5°	10434.7	10428.6	10563.0	10721.8	10508.0	10550.8	10398.0	10349.2	10184.2	10110.9
30°	10911.2	11045.6	11039.5	11088.4	10807.4	10856.2	10660.7	10569.1	10477.5	10520.2
32.5°	11522.2	11473.3	11552.7	11516.0	11235.0	11277.8	11045.6	10905.1	10935.7	11064.0
35°	11913.1	11864.3	11894.8	11894.8	11809.3	11760.4	11662.7	11479.4	11626.0	11864.3
37.5°	12334.7	12395.8	12573.0	12536.3	12426.3	12426.3	12414.1	12285.8	12475.2	13061.7
40°	12707.4	12872.3	12982.3	13055.6	13183.9	13183.9	13287.7	13214.4	13556.5	14497.4
42.5°	13098.4	13104.5	13703.2	13758.2	14045.3	14167.5	14246.9	14308.0	14949.5	16000.3
45°	13599.3	13629.9	14155.3	14576.8	15022.8	15065.5	15364.9	15566.5	16354.6	17643.7
47.5°	14259.1	14222.5	14784.5	15456.5	16012.5	16305.7	16666.2	16886.1	17857.5	19427.6
50°	15126.6	15016.7	15340.5	16397.4	17051.1	17374.9	18016.3	18382.9	19519.2	21132.1
52.5°	16183.6	16000.3	16256.9	17411.5	18144.6	18798.3	19409.3	19818.6	21003.8	22451.7
55°	17301.6	16922.8	16996.1	18486.8	19543.7	20160.7	20997.7	21425.3	22635.0	23636.9
57.5°	18407.3	18169.1	18022.5	19519.2	21211.5	21804.1	22573.9	23129.8	24156.2	24687.7
60°	19336.0	19274.9	19036.6	21119.9	22977.1	23484.2	24290.6	24632.7	25408.6	25659.1
62.5°	20099.6	19891.9	20270.7	22408.9	24773.2	25347.5	26233.4	26263.9	26813.7	26263.9
65°	20698.3	20710.5	21315.4	23966.8	26850.4	27699.6	28414.4	28335.0	27980.6	25903.5
67.5°	21242.1	21474.2	22360.1	25677.4	29520.2	30320.5	31114.7	30063.9	28298.3	24217.3
70°	21669.7	21901.9	23771.3	27760.7	32666.5	33839.4	34016.6	30748.1	26838.2	20515.0
72.5°	21620.8	22042.4	24571.6	29422.4	35458.4	36472.6	35043.0	28823.7	22360.1	14301.9
73°	21724.7	21932.4	24504.4	29886.7	36307.6	36814.7	34566.5	28218.9	21089.3	12829.5
75°	19720.8	20423.4	23288.7	29129.2	35397.3	35305.7	31829.5	23514.7	14992.2	6738.6
77.5°	14589.0	15035.0	18352.4	23954.6	29055.9	28469.4	24009.6	15028.9	7117.3	2498.7
80°	7129.6	7477.8	9726.0	13831.5	18999.9	19048.8	14900.6	7819.9	3048.5	1411.2
82.5°	3561.7	3769.4	4673.6	6078.8	9347.2	9793.2	7557.2	4447.6	1887.8	800.3
85°	2327.6	2474.3	2877.5	2975.2	3964.9	4184.9	3519.0	3470.1	1228.0	433.8
87.5°	1545.7	1570.1	1765.6	1502.9	1588.4	1527.3	1698.4	2187.1	360.4	183.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P575059

CATALOG NUMBER: EPH-VN-07-740-U-SL4

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
9719.9	0°	9719.9	9719.9	9719.9	9719.9	9719.9	9719.9	9719.9	9719.9	9719.9	9719.9
9719.9	2.5°	9689.4	9603.8	9512.2	9383.9	9292.3	9151.7	9023.4	8968.5	8956.2	8962.4
9475.5	5°	9438.9	9316.7	9133.4	8870.7	8718.0	8485.8	8290.3	8186.5	8076.5	8094.8
9176.2	7.5°	9090.6	8956.2	8675.2	8369.7	7991.0	7661.1	7477.8	7221.2	7074.6	6964.6
9157.8	10°	8980.7	8748.5	8327.0	7905.4	7318.9	6885.2	6463.6	6170.4	5968.8	5773.3
9029.6	12.5°	8925.7	8693.5	8107.0	7483.9	6726.3	6066.5	5473.9	5113.5	4826.4	4655.3
9194.5	15°	8876.8	8589.7	7899.3	7019.6	6170.4	5302.9	4637.0	4160.4	3885.5	3720.6
9225.1	17.5°	8944.0	8534.7	7593.9	6567.5	5559.5	4630.9	3891.6	3396.8	3115.7	3011.9
9188.4	20°	8876.8	8473.6	7294.5	6115.4	4948.5	3989.4	3280.7	2871.4	2675.9	2590.3
9359.5	22.5°	8901.3	8327.0	6982.9	5614.5	4380.4	3451.8	2871.4	2559.8	2407.1	2364.3
9438.9	25°	9017.3	8241.5	6671.4	5064.6	3818.3	3054.7	2608.7	2370.4	2260.4	2217.7
9579.4	27.5°	9102.9	8314.8	6390.3	4545.3	3341.8	2700.3	2388.7	2229.9	2156.6	2126.0
9994.8	30°	9316.7	8357.5	6115.4	4081.0	2950.8	2468.2	2236.0	2107.7	2058.8	2040.5
10563.0	32.5°	9634.4	8437.0	5797.7	3653.4	2663.7	2248.2	2113.8	2003.9	1991.6	1973.3
11198.4	35°	10153.7	8711.9	5443.4	3286.8	2388.7	2101.6	1985.5	1912.2	1912.2	1912.2
12212.5	37.5°	10899.0	9096.8	5125.7	2938.6	2211.6	1973.3	1875.6	1851.1	1838.9	1857.2
13452.7	40°	11858.2	9561.1	4869.1	2663.7	2058.8	1887.8	1802.2	1790.0	1783.9	1777.8
14778.4	42.5°	12909.0	10153.7	4649.2	2449.8	1948.9	1796.1	1735.0	1722.8	1698.4	1710.6
16220.2	45°	13953.7	10886.8	4453.7	2278.8	1875.6	1747.3	1661.7	1655.6	1643.4	1637.3
17796.4	47.5°	15114.4	11607.7	4392.6	2174.9	1820.6	1673.9	1612.9	1606.7	1570.1	1564.0
18877.8	50°	16018.6	12139.2	4459.8	2126.0	1741.2	1619.0	1576.2	1545.7	1515.1	1484.6
19678.1	52.5°	16641.7	12505.7	4508.7	2089.4	1698.4	1545.7	1490.7	1478.5	1447.9	1417.4
20478.4	55°	17203.8	12725.7	4520.9	2095.5	1655.6	1460.1	1423.5	1417.4	1399.0	1350.2
21156.5	57.5°	17393.2	12634.0	4276.5	2040.5	1631.2	1405.1	1356.3	1368.5	1344.0	1301.3
21168.7	60°	17374.9	11998.7	3720.6	1967.2	1576.2	1344.0	1283.0	1319.6	1319.6	1270.7
20545.6	62.5°	16318.0	10532.4	3042.4	1826.7	1515.1	1283.0	1215.8	1270.7	1289.1	1258.5
19073.3	65°	14124.7	8577.5	2541.5	1686.2	1423.5	1215.8	1148.5	1209.6	1240.2	1228.0
16195.8	67.5°	11687.1	6561.4	2113.8	1502.9	1307.4	1124.1	1069.1	1111.9	1130.2	1136.3
12218.6	70°	8259.8	4368.2	1765.6	1301.3	1148.5	1026.4	965.3	971.4	965.3	983.6
7129.6	72.5°	4490.3	2517.0	1435.7	1105.8	989.7	892.0	849.2	818.6	818.6	812.5
6029.9	73°	3842.8	2260.4	1368.5	1075.2	946.9	867.5	818.6	794.2	794.2	788.1
2920.2	75°	2156.6	1655.6	1173.0	922.5	818.6	757.6	720.9	684.2	678.1	678.1
1576.2	77.5°	1417.4	1289.1	934.7	739.2	659.8	604.8	592.6	555.9	555.9	555.9
1075.2	80°	1063.0	1014.1	720.9	562.1	507.1	464.3	452.1	427.7	421.5	397.1
610.9	82.5°	708.7	800.3	525.4	397.1	342.1	317.7	317.7	311.6	293.2	262.7
494.9	85°	562.1	653.7	378.8	244.4	201.6	171.1	177.2	171.1	165.0	134.4
134.4	87.5°	103.9	262.7	110.0	67.2	48.9	30.5	30.5	18.3	12.2	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

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180°
9719.9
8901.3
8046.0
7025.7
5858.8
4722.5
3738.9
2987.5
2572.0
2376.5
2229.9
2119.9
2034.4
1979.4
1930.5
1869.4
1790.0
1728.9
1667.8
1588.4
1484.6
1405.1
1337.9
1295.2
1264.6
1252.4
1221.9
1142.4
983.6
812.5
782.0
678.1
549.8
403.2
262.7
128.3
0.0
0.0

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