

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: P575058

Luminaire Tested: **EPH-VN-06-740-U-SL4**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575058
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-06-740-U-SL4
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

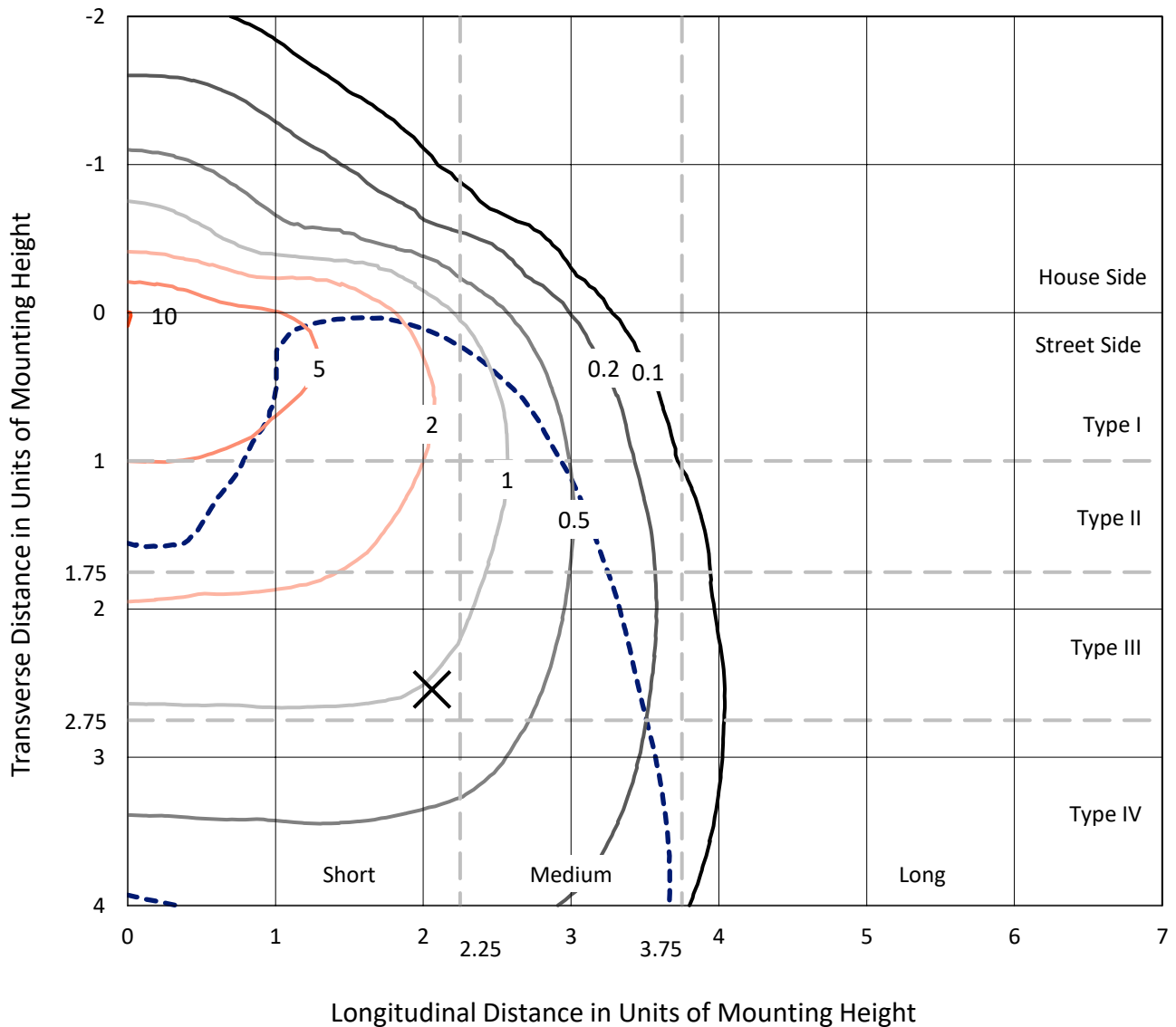
Lumens per Lamp: N/A
Luminaire Lumens: 51181.7 lumens
Efficiency: N/A
Efficacy: 110.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 464.2
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: P575058
 CATALOG NUMBER: EPH-VN-06-740-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

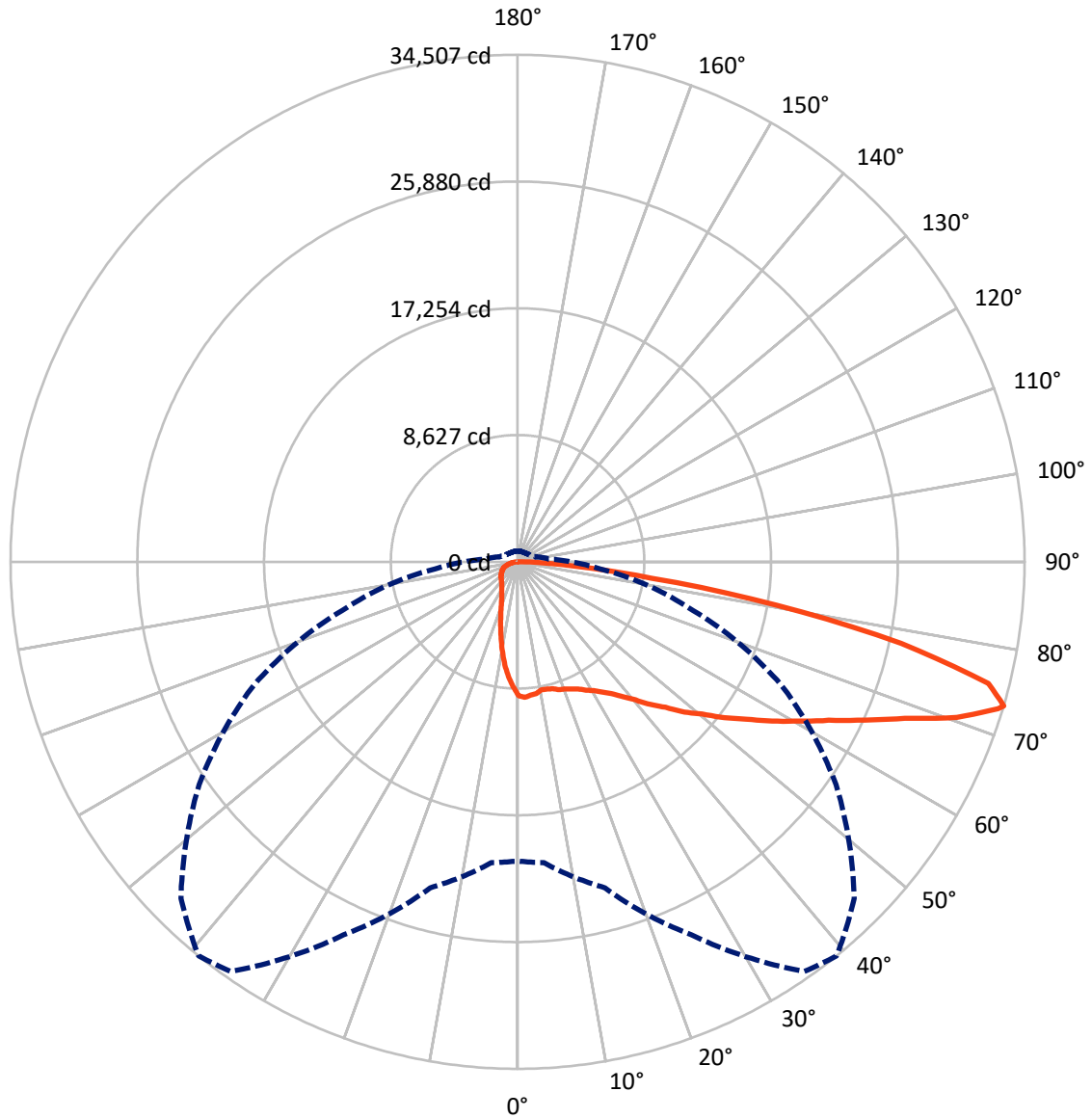
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.1 fc
 Type IV - Short - N/A

REPORT NUMBER: P575058
CATALOG NUMBER: EPH-VN-06-740-U-SL4

Luminous Intensity Polar Plot



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

REPORT NUMBER: P575058
 CATALOG NUMBER: EPH-VN-06-740-U-SL4

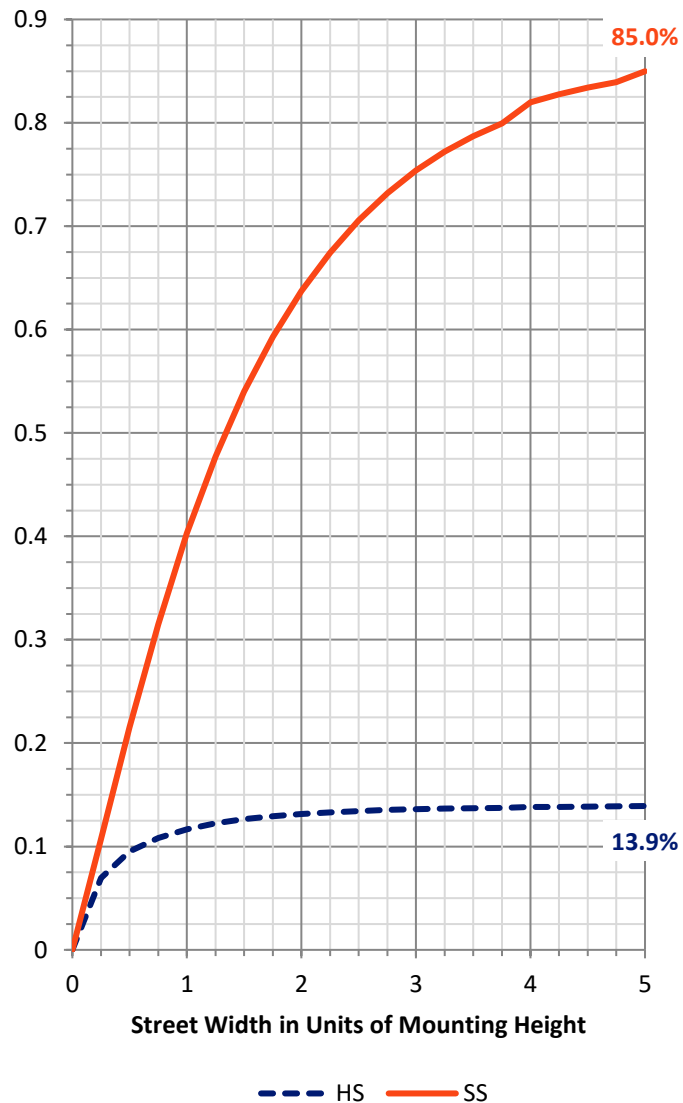
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7194.7	0.0	7194.7
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	43986.9	0.0	43986.9
	% Fixture	85.9	0.0	85.9
Total	Lumens	51181.7	0.0	51181.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	790.9	1.5
10°-20°	2010.5	3.9
20°-30°	3072.3	6.0
30°-40°	4479.5	8.8
40°-50°	6769.0	13.2
50°-60°	9801.9	19.2
60°-70°	12453.8	24.3
70°-80°	10095.7	19.7
80°-90°	1708.1	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°	51181.7	100.0
0°-180°	51181.7	100.0

Coefficient of Utilization



REPORT NUMBER: P575058

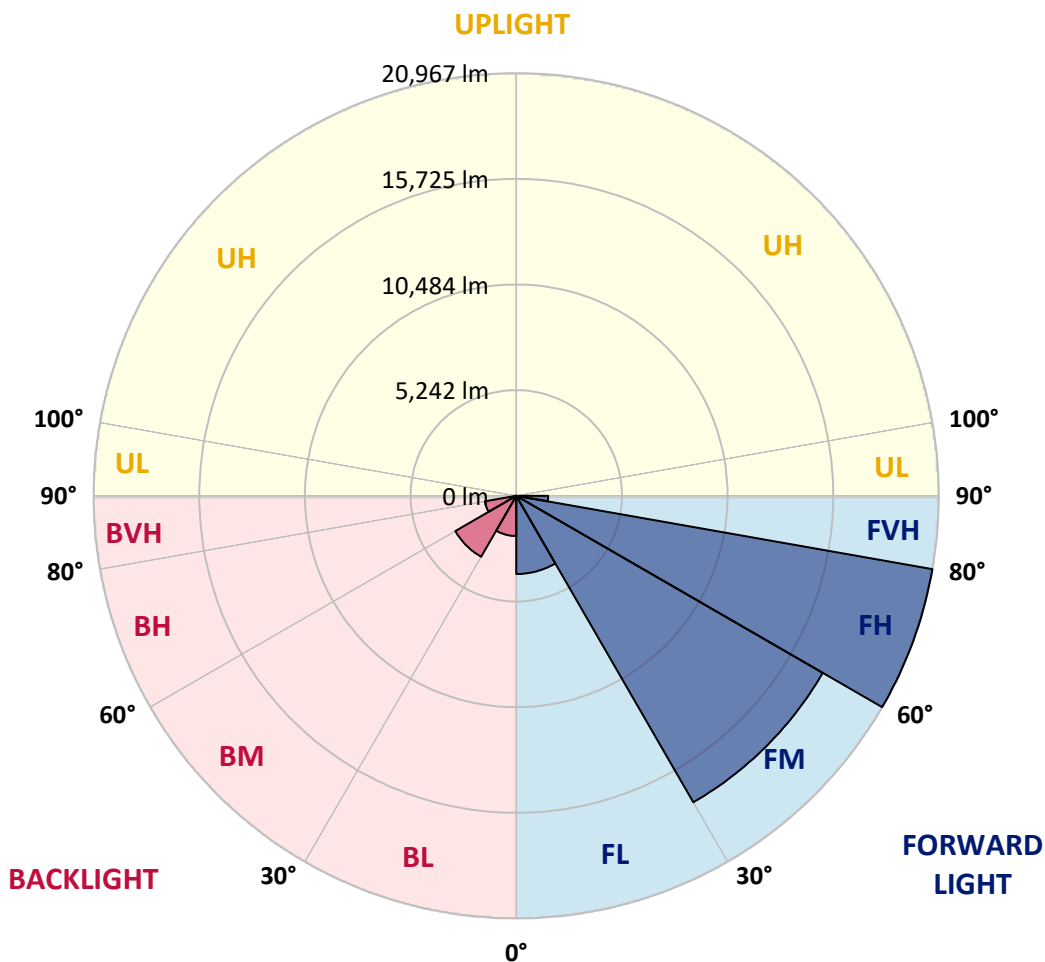
CATALOG NUMBER: EPH-VN-06-740-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3878.4	7.6			
FM (30°-60°)	17558.6	34.3			
FH (60°-80°)	20967.1	41.0			G5
FVH (80°-90°)	1582.8	3.1			G5
BL (0°-30°)	1995.2	3.9	B3/2500		
BM (30°-60°)	3491.8	6.8	B3/5000		
BH (60°-80°)	1582.4	3.1	B3/2500		G3/2500
BVH (80°-90°)	125.3	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: P575058
 CATALOG NUMBER: EPH-VN-06-740-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°
0°	9110.6	9110.6	9110.6	9110.6	9110.6	9110.6	9110.6	9110.6	9110.6	9110.6
2.5°	9328.2	9230.9	9248.1	9213.7	9248.1	9236.6	9219.4	9133.6	9219.4	9133.6
5°	9202.3	9202.3	9259.5	9173.6	9185.1	9127.8	9185.1	9122.1	9064.8	8921.7
7.5°	9162.2	9156.5	9162.2	9041.9	9099.2	9064.8	9007.6	8938.9	8824.3	8732.7
10°	8887.3	8944.6	8881.6	8916.0	8961.8	8858.7	8853.0	8835.8	8784.2	8664.0
12.5°	8738.4	8835.8	8870.1	8841.5	8881.6	8893.0	8858.7	8835.8	8772.8	8692.6
15°	8801.4	8686.9	8784.2	8973.2	8933.1	8961.8	8967.5	8944.6	8916.0	8767.1
17.5°	8818.6	8749.9	8956.0	8996.1	9047.7	9150.7	9082.0	9076.3	8967.5	8864.4
20°	8858.7	8830.1	8996.1	9208.0	9213.7	9230.9	9265.3	9179.4	9122.1	8944.6
22.5°	9007.6	9104.9	9259.5	9351.2	9402.7	9414.1	9414.1	9242.4	9179.4	9036.2
25°	9454.2	9351.2	9568.8	9677.6	9603.1	9585.9	9545.9	9391.2	9322.5	9196.5
27.5°	9780.6	9774.9	9900.9	10049.8	9849.3	9889.4	9746.3	9700.5	9545.9	9477.1
30°	10227.3	10353.3	10347.5	10393.4	10129.9	10175.8	9992.5	9906.6	9820.7	9860.8
32.5°	10799.9	10754.1	10828.6	10794.2	10530.8	10570.9	10353.3	10221.6	10250.2	10370.4
35°	11166.4	11120.6	11149.2	11149.2	11069.1	11023.3	10931.6	10759.8	10897.3	11120.6
37.5°	11561.5	11618.8	11784.9	11750.5	11647.4	11647.4	11636.0	11515.7	11693.2	12243.0
40°	11910.8	12065.5	12168.5	12237.2	12357.5	12357.5	12454.8	12386.1	12706.8	13588.7
42.5°	12277.3	12283.1	12844.2	12895.8	13164.9	13279.4	13353.9	13411.1	14012.4	14997.3
45°	12746.9	12775.5	13268.0	13663.1	14081.1	14121.2	14401.8	14590.8	15329.5	16537.7
47.5°	13365.3	13331.0	13857.8	14487.7	15008.8	15283.7	15621.5	15827.7	16738.2	18209.8
50°	14178.5	14075.4	14378.9	15369.6	15982.3	16285.8	16887.1	17230.6	18295.7	19807.5
52.5°	15169.1	14997.3	15237.9	16320.1	17007.3	17620.0	18192.7	18576.3	19687.2	21044.4
55°	16217.1	15862.0	15930.7	17328.0	18318.6	18897.0	19681.5	20082.4	21216.2	22155.3
57.5°	17253.5	17030.2	16892.8	18295.7	19881.9	20437.4	21158.9	21680.0	22642.0	23140.2
60°	18123.9	18066.7	17843.4	19796.0	21536.9	22012.1	22768.0	23088.7	23816.0	24050.7
62.5°	18839.7	18645.0	19000.1	21004.3	23220.4	23758.7	24589.0	24617.6	25133.0	24617.6
65°	19400.9	19412.4	19979.3	22464.5	25167.4	25963.3	26633.3	26558.9	26226.8	24279.8
67.5°	19910.6	20128.2	20958.5	24067.9	27669.8	28419.9	29164.4	28179.4	26524.5	22699.3
70°	20311.4	20529.0	22281.3	26020.6	30618.9	31718.3	31884.4	28820.8	25155.9	19229.1
72.5°	20265.6	20660.7	23031.4	27578.2	33235.8	34186.4	32846.4	27017.0	20958.5	13405.4
73°	20363.0	20557.6	22968.4	28013.4	34031.8	34507.1	32399.8	26450.1	19767.4	12025.4
75°	18484.7	19143.2	21828.9	27303.3	33178.6	33092.7	29834.4	22040.8	14052.5	6316.2
77.5°	13674.6	14092.6	17202.0	22453.1	27234.6	26684.9	22504.6	14086.9	6671.2	2342.1
80°	6682.7	7009.1	9116.4	12964.5	17809.0	17854.8	13966.6	7329.7	2857.5	1322.8
82.5°	3338.5	3533.2	4380.7	5697.7	8761.3	9179.4	7083.5	4168.8	1769.4	750.2
85°	2181.7	2319.2	2697.1	2788.7	3716.4	3922.6	3298.4	3252.6	1151.0	406.6
87.5°	1448.8	1471.7	1654.9	1408.7	1488.9	1431.6	1591.9	2050.0	337.9	171.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P575058

CATALOG NUMBER: EPH-VN-06-740-U-SL4

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
9110.6	0°	9110.6	9110.6	9110.6	9110.6	9110.6	9110.6	9110.6	9110.6	9110.6	9110.6
9110.6	2.5°	9082.0	9001.8	8916.0	8795.7	8709.8	8578.1	8457.8	8406.3	8394.9	8400.6
8881.6	5°	8847.2	8732.7	8560.9	8314.7	8171.5	7953.9	7770.7	7673.3	7570.3	7587.4
8601.0	7.5°	8520.8	8394.9	8131.4	7845.1	7490.1	7180.9	7009.1	6768.6	6631.1	6528.1
8583.8	10°	8417.8	8200.2	7805.0	7409.9	6860.2	6453.6	6058.5	5783.6	5594.7	5411.4
8463.6	12.5°	8366.2	8148.6	7598.9	7014.8	6304.7	5686.3	5130.8	4793.0	4523.8	4363.5
8618.2	15°	8320.4	8051.3	7404.2	6579.6	5783.6	4970.5	4346.3	3899.7	3642.0	3487.4
8646.8	17.5°	8383.4	7999.7	7117.9	6155.8	5211.0	4340.6	3647.7	3183.9	2920.4	2823.1
8612.5	20°	8320.4	7942.5	6837.3	5732.1	4638.4	3739.3	3075.1	2691.4	2508.1	2428.0
8772.8	22.5°	8343.3	7805.0	6545.2	5262.5	4105.8	3235.4	2691.4	2399.3	2256.2	2216.1
8847.2	25°	8452.1	7724.9	6253.2	4747.2	3579.0	2863.2	2445.2	2221.8	2118.8	2078.7
8978.9	27.5°	8532.3	7793.6	5989.8	4260.4	3132.3	2531.1	2239.0	2090.1	2021.4	1992.8
9368.3	30°	8732.7	7833.7	5732.1	3825.2	2765.8	2313.5	2095.8	1975.6	1929.8	1912.6
9900.9	32.5°	9030.5	7908.1	5434.3	3424.4	2496.7	2107.3	1981.3	1878.2	1866.8	1849.6
10496.4	35°	9517.2	8165.8	5102.2	3080.8	2239.0	1969.9	1861.1	1792.4	1792.4	1792.4
11447.0	37.5°	10215.8	8526.6	4804.4	2754.4	2072.9	1849.6	1758.0	1735.1	1723.6	1740.8
12609.5	40°	11114.9	8961.8	4563.9	2496.7	1929.8	1769.4	1689.3	1677.8	1672.1	1666.4
13852.1	42.5°	12099.8	9517.2	4357.8	2296.3	1826.7	1683.6	1626.3	1614.8	1591.9	1603.4
15203.5	45°	13079.0	10204.4	4174.5	2135.9	1758.0	1637.7	1557.6	1551.8	1540.4	1534.7
16680.9	47.5°	14167.0	10880.1	4117.3	2038.6	1706.5	1569.0	1511.8	1506.0	1471.7	1465.9
17694.5	50°	15014.5	11378.3	4180.2	1992.8	1632.0	1517.5	1477.4	1448.8	1420.1	1391.5
18444.6	52.5°	15598.6	11721.9	4226.1	1958.4	1591.9	1448.8	1397.2	1385.8	1357.1	1328.5
19194.8	55°	16125.4	11928.0	4237.5	1964.1	1551.8	1368.6	1334.2	1328.5	1311.3	1265.5
19830.4	57.5°	16303.0	11842.1	4008.5	1912.6	1528.9	1317.1	1271.3	1282.7	1259.8	1219.7
19841.9	60°	16285.8	11246.6	3487.4	1843.9	1477.4	1259.8	1202.5	1236.9	1236.9	1191.1
19257.8	62.5°	15295.1	9872.3	2851.7	1712.2	1420.1	1202.5	1139.5	1191.1	1208.3	1179.6
17877.7	65°	13239.4	8039.8	2382.2	1580.5	1334.2	1139.5	1076.6	1133.8	1162.5	1151.0
15180.6	67.5°	10954.5	6150.1	1981.3	1408.7	1225.4	1053.7	1002.1	1042.2	1059.4	1065.1
11452.7	70°	7742.0	4094.4	1654.9	1219.7	1076.6	962.0	904.8	910.5	904.8	921.9
6682.7	72.5°	4208.9	2359.3	1345.7	1036.5	927.7	836.0	796.0	767.3	767.3	761.6
5651.9	73°	3601.9	2118.8	1282.7	1007.8	887.6	813.1	767.3	744.4	744.4	738.7
2737.2	75°	2021.4	1551.8	1099.5	864.7	767.3	710.1	675.7	641.4	635.6	635.6
1477.4	77.5°	1328.5	1208.3	876.1	692.9	618.4	566.9	555.5	521.1	521.1	521.1
1007.8	80°	996.4	950.6	675.7	526.8	475.3	435.2	423.8	400.8	395.1	372.2
572.6	82.5°	664.3	750.2	492.5	372.2	320.7	297.8	297.8	292.0	274.9	246.2
463.8	85°	526.8	612.7	355.0	229.1	189.0	160.3	166.1	160.3	154.6	126.0
126.0	87.5°	97.3	246.2	103.1	63.0	45.8	28.6	28.6	17.2	11.5	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

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180°
9110.6
8343.3
7541.6
6585.3
5491.6
4426.5
3504.5
2800.2
2410.8
2227.6
2090.1
1987.0
1906.9
1855.3
1809.5
1752.3
1677.8
1620.6
1563.3
1488.9
1391.5
1317.1
1254.1
1214.0
1185.4
1173.9
1145.3
1070.8
921.9
761.6
733.0
635.6
515.4
377.9
246.2
120.3
0.0
0.0

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