

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: P575016

Luminaire Tested: **EPH-VN-04-740-U-SL3**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575016
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-04-740-U-SL3
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

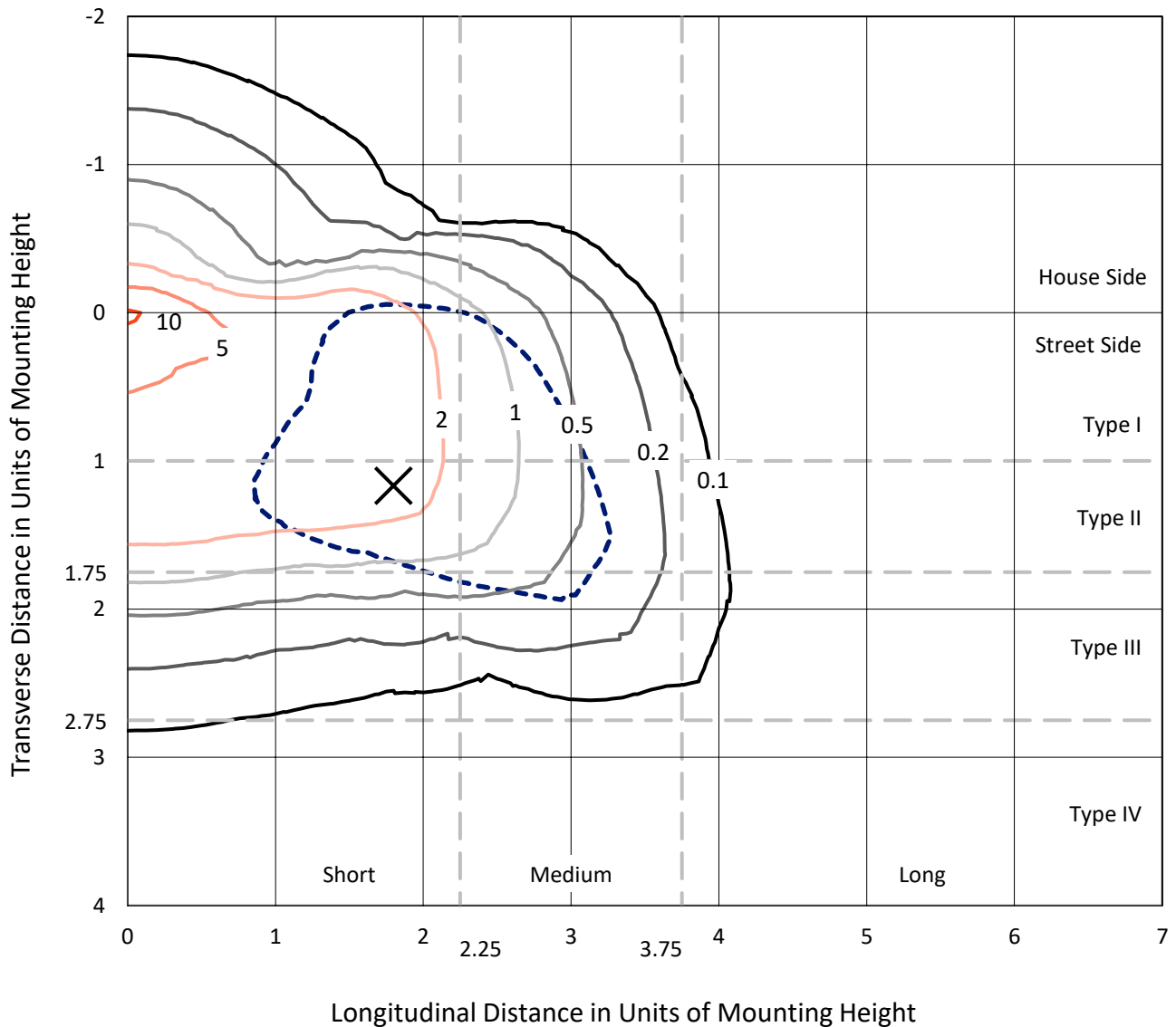
Lumens per Lamp: N/A
Luminaire Lumens: 34510.4 lumens
Efficiency: N/A
Efficacy: 113.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

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

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Iso-Footcandle Lines of Horizontal Illumination

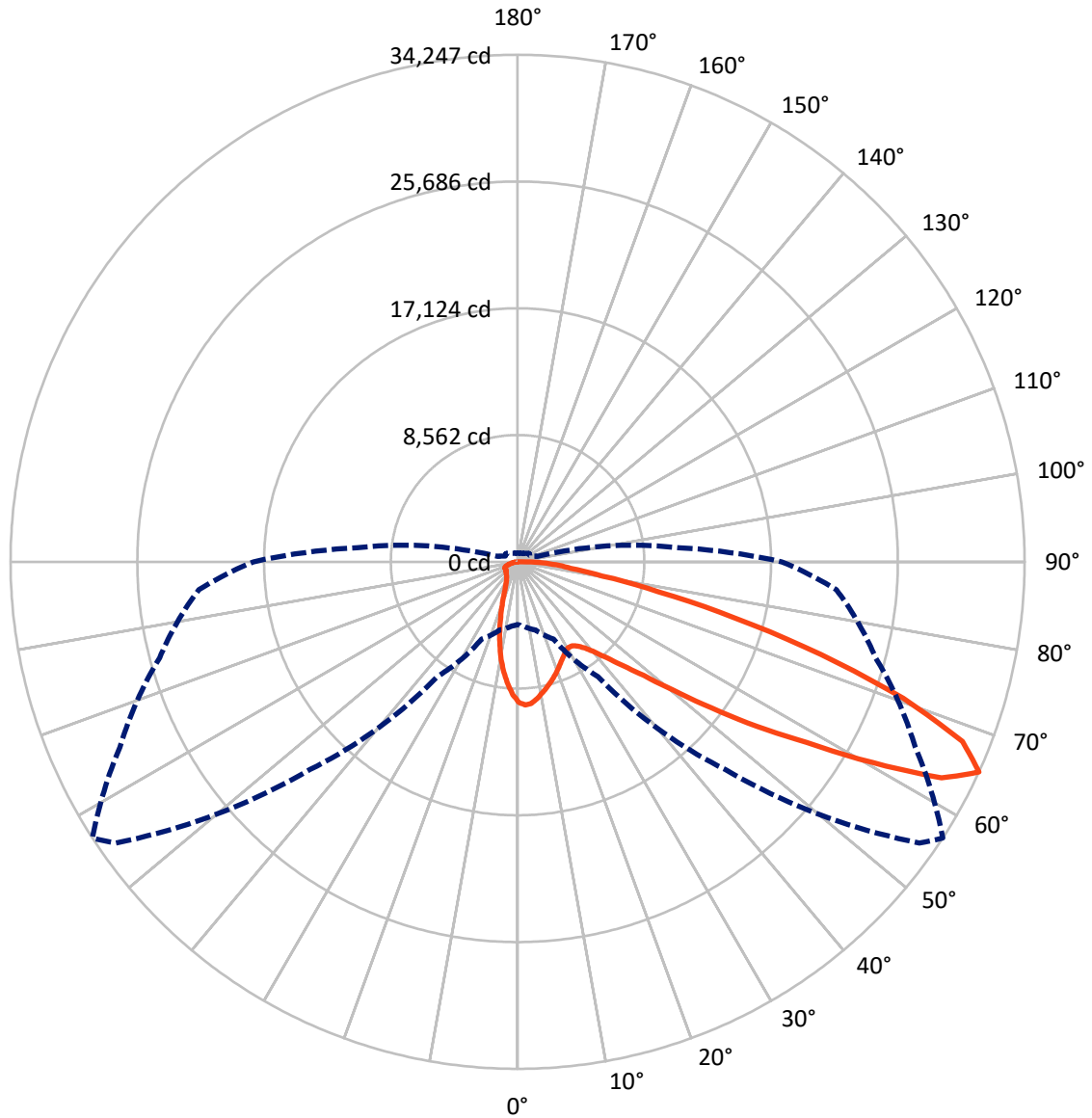
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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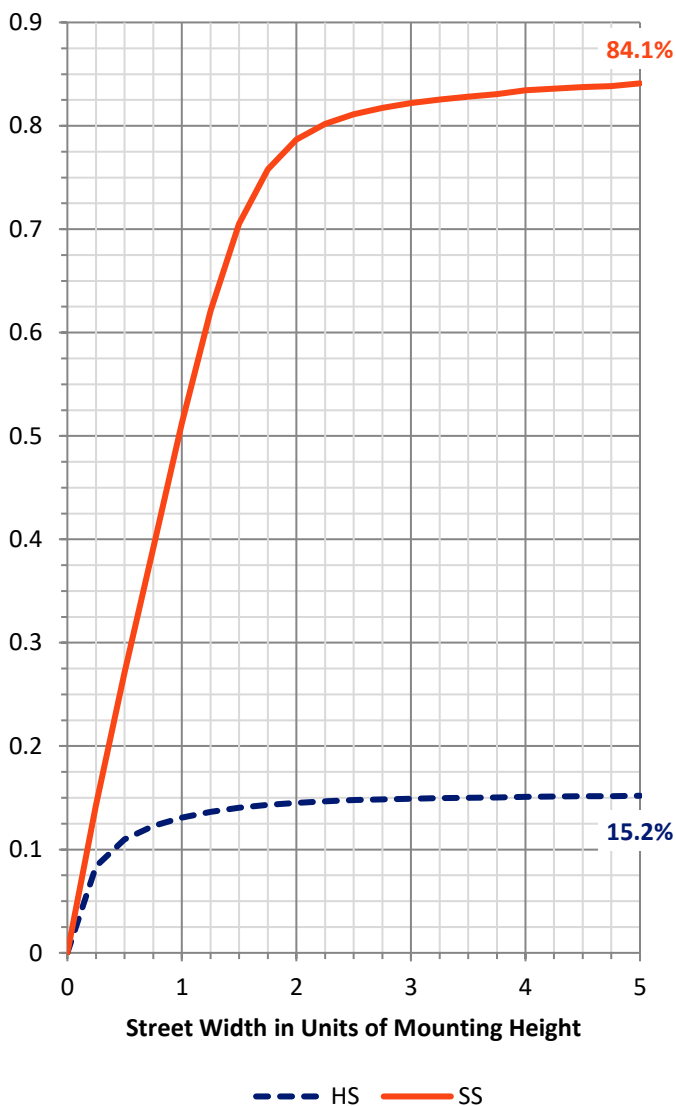
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5292.5	0.0	5292.5
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	29217.9	0.0	29217.9
	% Fixture	84.7	0.0	84.7
Total	Lumens	34510.4	0.0	34510.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	794.7	2.3
10°-20°	1710.3	5.0
20°-30°	2211.3	6.4
30°-40°	2975.7	8.6
40°-50°	4744.9	13.7
50°-60°	8380.6	24.3
60°-70°	9219.8	26.7
70°-80°	3856.8	11.2
80°-90°	616.4	1.8
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°	34510.4	100.0
0°-180°	34510.4	100.0

Coefficient of Utilization



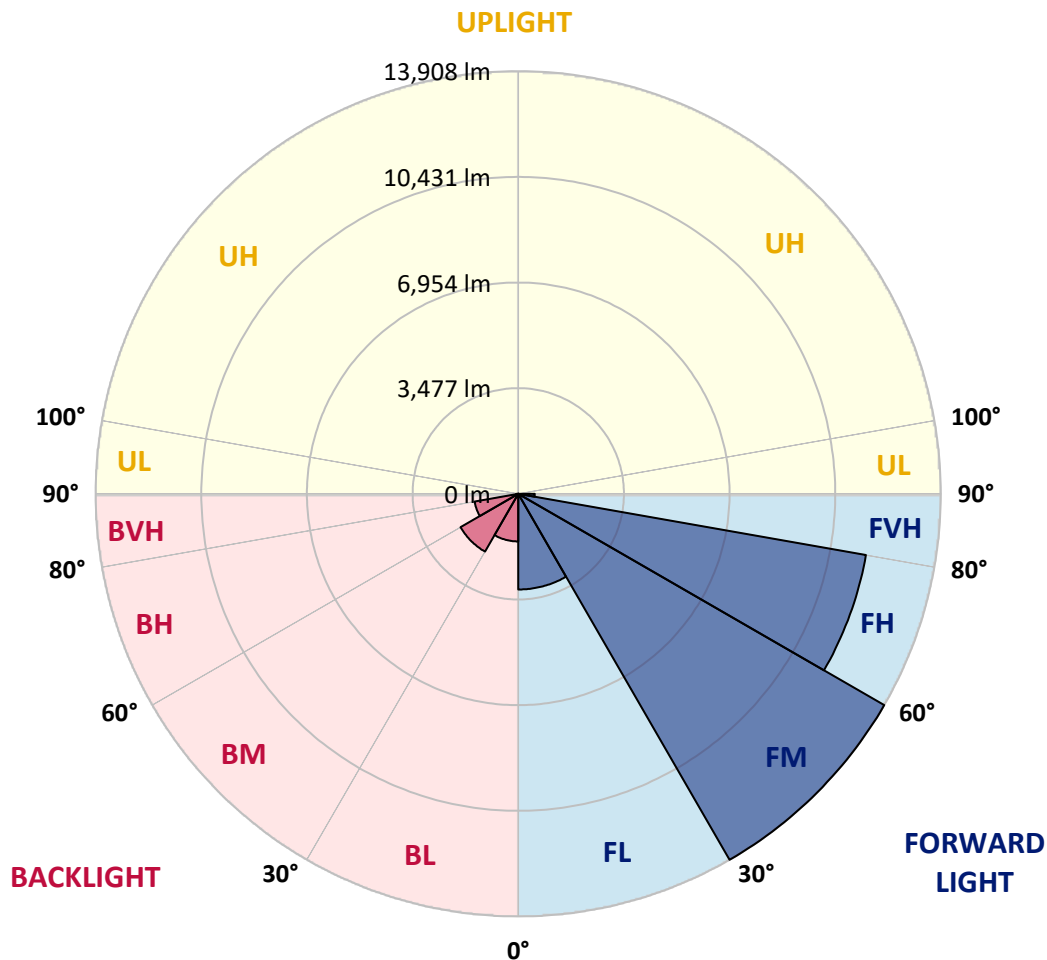
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3148.9	9.1			
FM (30°-60°)	13907.6	40.3			
FH (60°-80°)	11617.2	33.7			G4/12000
FVH (80°-90°)	544.1	1.6			G4/750
BL (0°-30°)	1567.4	4.5	B3/2500		
BM (30°-60°)	2193.5	6.4	B2/2500		
BH (60°-80°)	1459.3	4.2	B3/2500		G3/2500
BVH (80°-90°)	72.3	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-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°
0°	9489.9	9489.9	9489.9	9489.9	9489.9	9489.9	9489.9	9489.9	9489.9	9489.9
2.5°	9746.1	9761.7	9761.7	9792.7	9687.9	9738.4	9730.6	9684.0	9699.6	9618.0
5°	9470.5	9458.8	9520.9	9528.7	9610.2	9633.5	9653.0	9621.9	9629.7	9451.0
7.5°	8763.8	8759.9	8864.7	8954.0	9124.9	9284.1	9388.9	9357.9	9400.6	9288.0
10°	7925.1	8014.4	8123.1	8212.4	8526.9	8728.8	9000.6	9027.8	9190.9	9163.7
12.5°	7296.0	7334.8	7416.4	7672.7	7960.0	8293.9	8682.2	8717.2	8876.4	8954.0
15°	6779.6	6814.5	6919.4	7109.6	7431.9	7828.0	8321.1	8410.4	8728.8	8756.0
17.5°	6402.9	6430.1	6500.0	6690.3	6954.3	7463.0	7928.9	8088.1	8507.5	8639.5
20°	6255.4	6197.2	6236.0	6356.4	6620.4	7012.6	7614.4	7754.2	8290.0	8550.2
22.5°	6189.4	6138.9	6162.2	6154.4	6364.1	6643.7	7276.6	7424.2	8084.3	8445.4
25°	6239.9	6239.9	6216.6	6197.2	6220.4	6402.9	6911.6	7140.7	7808.6	8356.1
27.5°	6511.7	6406.8	6418.5	6336.9	6313.6	6313.6	6748.5	6884.4	7719.3	8305.6
30°	6686.4	6736.9	6740.8	6620.4	6500.0	6282.6	6597.1	6729.1	7645.5	8367.7
32.5°	7132.9	7109.6	7043.6	7020.3	6841.7	6597.1	6670.9	6760.2	7602.8	8507.5
35°	7579.5	7567.8	7571.7	7560.1	7373.7	7012.6	6868.9	6989.3	7680.4	8752.1
37.5°	8041.5	8072.6	8204.6	8204.6	8006.6	7614.4	7424.2	7389.2	7963.9	9152.1
40°	8503.6	8581.3	8748.2	9012.3	8732.7	8367.7	8061.0	8006.6	8305.6	9687.9
42.5°	8946.3	9074.4	9404.4	9796.6	9703.4	9338.4	8930.7	8868.6	9008.4	10483.9
45°	9513.2	9621.9	10142.2	10744.1	10872.2	10549.9	10072.3	10021.8	10014.1	11648.8
47.5°	10375.2	10491.7	11012.0	11617.7	12013.8	12064.3	11528.4	11474.0	11287.7	13221.4
50°	11454.6	11644.9	12083.7	12790.4	13365.0	13904.8	13753.3	13594.1	13229.1	15050.2
52.5°	12242.9	12475.8	13069.9	13974.7	14988.1	15846.2	16389.8	16389.8	15551.1	17057.7
55°	12452.5	12592.3	13341.7	14650.3	16386.0	18556.5	19694.2	19608.8	18315.8	19170.0
57.5°	11617.7	11800.2	12708.8	14079.5	17119.8	21092.1	22975.3	22994.7	21336.7	21624.0
60°	9319.0	9377.3	10449.0	12281.7	16413.1	23134.5	27456.2	27530.0	24773.1	23810.1
62.5°	6441.8	6628.2	7435.8	9043.3	13598.0	22905.4	31777.9	32142.9	27526.1	24963.3
65°	4240.2	4352.8	4783.8	5762.3	9466.6	19853.4	33121.4	34247.4	29630.6	25029.3
67.5°	3075.3	3094.7	3222.8	3727.6	5688.5	14277.5	30826.6	32414.7	30418.9	24478.0
70°	2485.1	2500.6	2547.2	2869.5	3673.2	8934.6	25142.0	27630.9	28054.1	21864.8
72.5°	2019.1	2038.5	2096.8	2399.6	3028.7	4970.1	18385.7	21418.2	22820.0	16176.3
75°	1588.1	1603.6	1743.4	2042.4	2846.2	3413.1	12196.3	15166.7	15357.0	9454.9
77.5°	1087.2	1114.4	1285.2	1731.8	2679.2	2986.0	7602.8	9715.1	8717.2	3700.4
80°	691.2	730.0	830.9	1312.4	2368.6	2850.1	4729.4	5801.1	3816.9	1265.8
82.5°	407.7	446.5	547.5	850.4	1859.9	2644.3	3331.6	3630.5	1790.0	648.4
85°	225.2	252.4	330.0	512.5	1091.1	2349.2	2667.6	2605.4	1025.1	345.6
87.5°	73.8	85.4	120.4	205.8	450.4	1106.6	1599.8	1502.7	532.0	159.2
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°
9489.9	0°	9489.9	9489.9	9489.9	9489.9	9489.9	9489.9	9489.9	9489.9	9489.9	9489.9
9536.5	2.5°	9482.1	9470.5	9295.7	9163.7	8938.5	8752.1	8678.3	8577.4	8573.5	8499.7
9373.4	5°	9253.0	9132.6	8864.7	8608.4	8208.5	7940.6	7696.0	7525.1	7455.2	7303.8
9105.5	7.5°	8957.9	8798.7	8387.1	7905.6	7435.8	7016.4	6635.9	6255.4	6041.8	5968.1
8833.7	10°	8651.2	8371.6	7762.0	7222.2	6566.0	5921.5	5323.5	4787.6	4496.4	4290.6
8666.7	12.5°	8406.5	8033.8	7257.2	6449.5	5583.6	4721.6	4026.6	3463.6	3133.5	2978.2
8449.2	15°	8130.8	7637.7	6705.8	5684.6	4605.2	3626.7	2947.1	2504.5	2372.5	2298.7
8224.0	17.5°	7839.6	7268.8	6107.8	4931.3	3650.0	2729.7	2290.9	2112.3	2054.1	2023.0
8010.5	20°	7567.8	6938.8	5494.3	4092.6	2857.8	2190.0	1984.2	1891.0	1887.1	1902.6
7820.2	22.5°	7183.4	6507.8	4888.6	3316.0	2283.2	1906.5	1774.5	1751.2	1774.5	1793.9
7626.1	25°	6966.0	6154.4	4213.0	2632.6	1887.1	1693.0	1650.2	1642.5	1677.4	1700.7
7466.9	27.5°	6740.8	5789.4	3583.9	2108.4	1654.1	1541.5	1533.8	1541.5	1576.5	1611.4
7373.7	30°	6566.0	5498.2	2993.7	1762.8	1475.5	1432.8	1425.0	1432.8	1452.2	1456.1
7400.9	32.5°	6422.4	5152.6	2492.8	1529.9	1366.8	1331.8	1339.6	1335.7	1339.6	1343.5
7494.0	35°	6336.9	4946.8	2081.2	1386.2	1277.5	1250.3	1246.4	1234.8	1238.7	1242.5
7715.4	37.5°	6519.4	4845.9	1755.1	1285.2	1215.4	1192.1	1184.3	1176.5	1164.9	1164.9
8247.3	40°	6795.1	4791.5	1557.1	1219.2	1168.8	1141.6	1118.3	1110.5	1110.5	1114.4
8989.0	42.5°	7342.6	4880.8	1421.2	1168.8	1110.5	1079.5	1056.2	1060.0	1071.7	1083.3
10010.2	45°	8134.7	5152.6	1359.0	1129.9	1075.6	1032.9	1017.3	1013.4	1025.1	1044.5
11505.1	47.5°	9171.5	5575.9	1335.7	1095.0	1052.3	994.0	974.6	986.3	1001.8	1029.0
13400.0	50°	10868.3	6527.2	1355.1	1063.9	1017.3	974.6	951.3	939.7	951.3	970.7
15679.3	52.5°	13085.5	8255.1	1428.9	1048.4	994.0	959.1	920.3	900.8	912.5	928.0
18331.3	55°	15737.5	10615.9	1634.7	1029.0	955.2	935.8	893.1	854.2	862.0	862.0
20948.4	57.5°	18075.0	12398.2	1879.3	1001.8	931.9	904.7	850.4	803.8	796.0	799.9
22280.2	60°	19123.4	12871.9	1995.8	994.0	931.9	865.9	792.1	745.5	733.9	726.1
22489.9	62.5°	18940.9	12052.6	1759.0	959.1	955.2	834.8	737.8	687.3	671.7	656.2
21612.4	65°	17838.2	10883.8	1386.2	912.5	959.1	815.4	683.4	632.9	605.7	586.3
19554.4	67.5°	15822.9	9291.8	1098.9	877.5	920.3	780.5	636.8	578.6	555.3	535.8
15749.2	70°	12378.8	7284.4	955.2	830.9	827.1	695.0	582.4	532.0	497.0	473.7
10468.4	72.5°	8026.0	4605.2	819.3	737.8	714.5	582.4	504.8	473.7	446.5	427.1
4900.3	75°	3634.4	2139.5	660.1	617.4	582.4	466.0	427.1	411.6	388.3	368.9
1685.2	77.5°	1304.7	912.5	493.1	485.4	434.9	361.1	345.6	333.9	318.4	299.0
811.5	80°	730.0	578.6	368.9	353.3	302.9	267.9	248.5	248.5	240.7	229.1
489.2	82.5°	462.1	376.6	271.8	236.9	198.0	178.6	170.8	167.0	163.1	147.6
306.8	85°	291.2	256.3	178.6	139.8	116.5	89.3	85.4	81.5	73.8	66.0
120.4	87.5°	132.0	147.6	69.9	42.7	31.1	19.4	11.6	3.9	0.0	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°
9489.9
8480.3
7268.8
5886.5
4201.3
2908.3
2287.0
2007.5
1898.8
1801.7
1696.8
1607.5
1456.1
1347.4
1238.7
1164.9
1118.3
1075.6
1060.0
1017.3
978.5
928.0
858.1
803.8
726.1
660.1
582.4
528.1
473.7
427.1
368.9
299.0
225.2
143.7
66.0
0.0
0.0

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