

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: P575019

Luminaire Tested: **EPH-VN-07-740-U-SL3**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575019
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-SL3
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (112) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

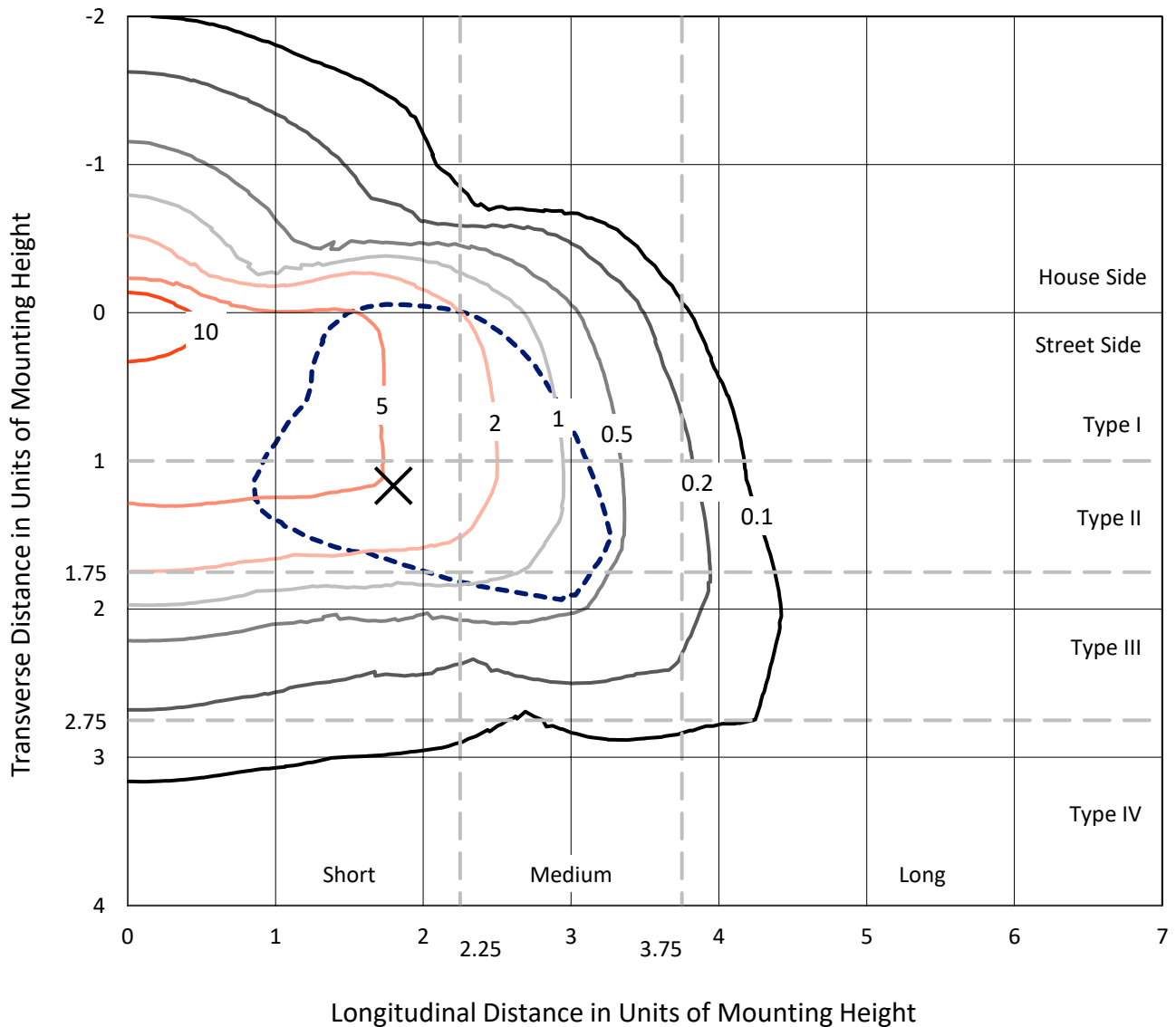
Lumens per Lamp: N/A
Luminaire Lumens: 55702.1 lumens
Efficiency: N/A
Efficacy: 104.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

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

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Iso-Footcandle Lines of Horizontal Illumination

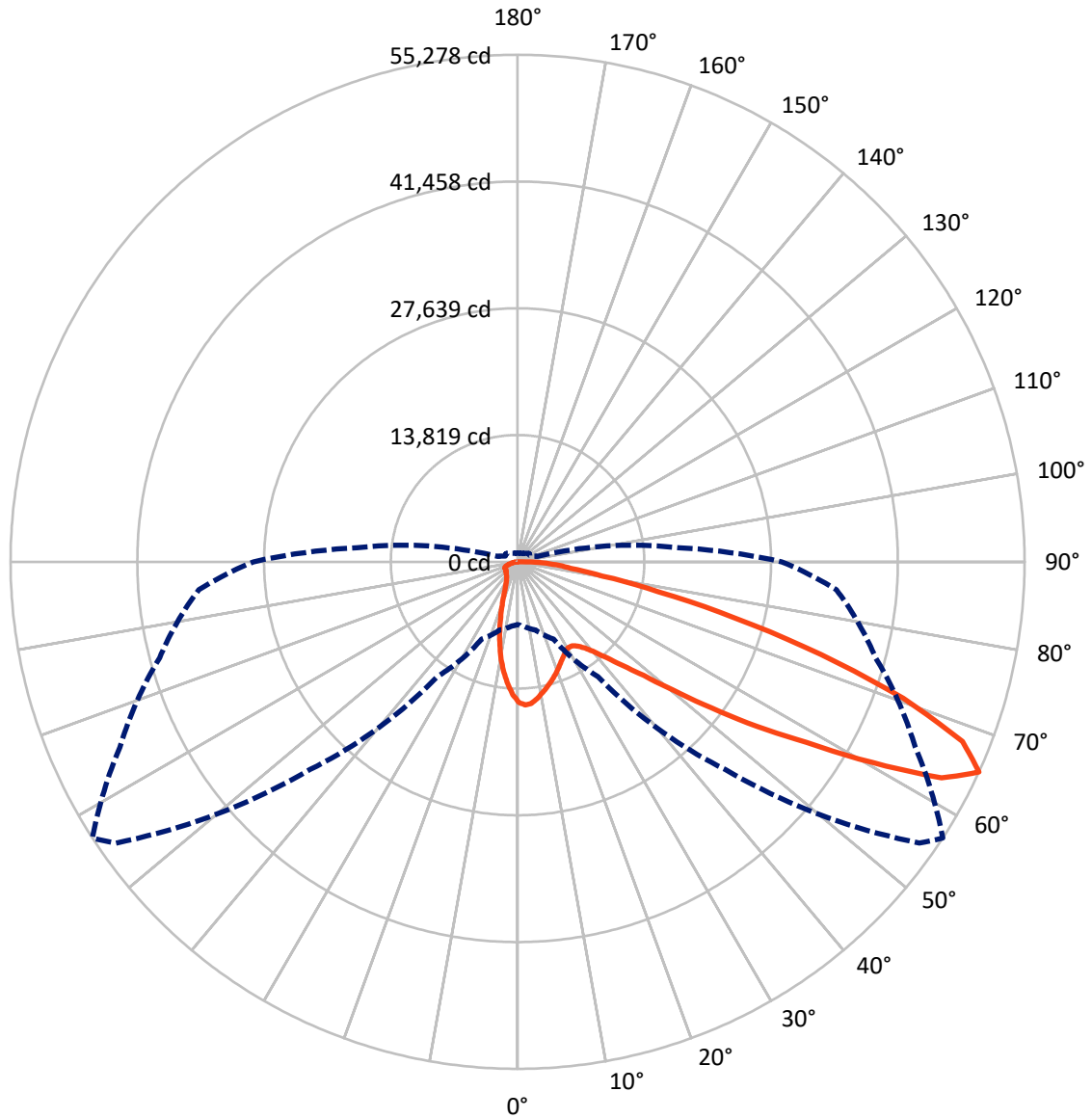
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 17 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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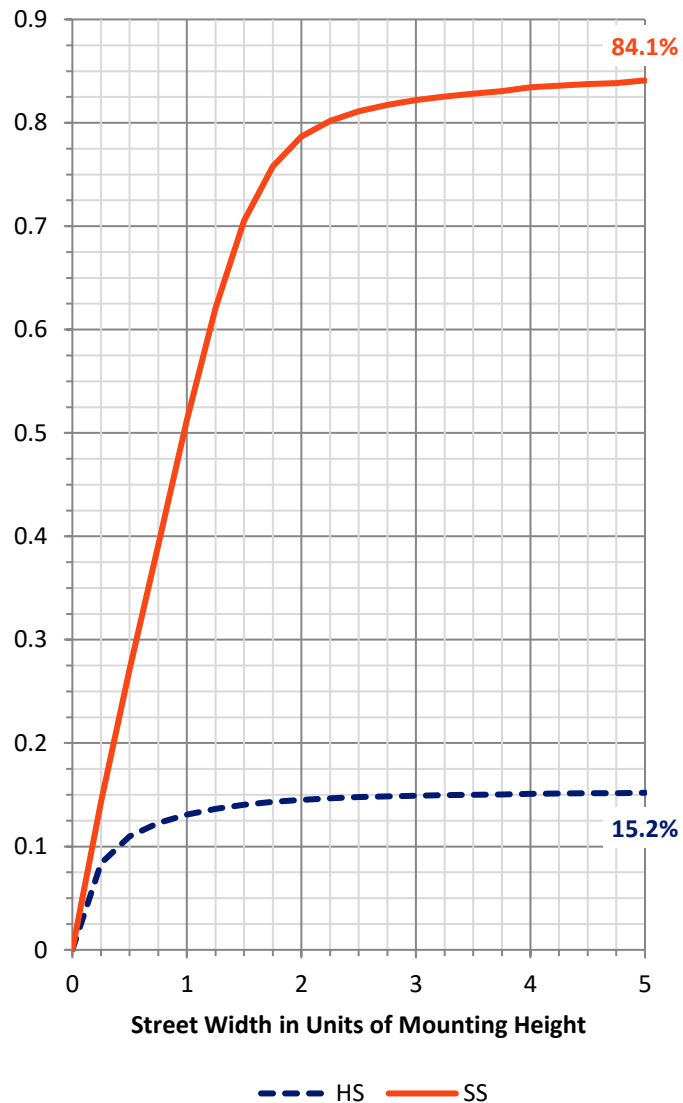
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8542.4	0.0	8542.4
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	47159.6	0.0	47159.6
	% Fixture	84.7	0.0	84.7
Total	Lumens	55702.1	0.0	55702.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1282.7	2.3
10°-20°	2760.6	5.0
20°-30°	3569.2	6.4
30°-40°	4803.0	8.6
40°-50°	7658.5	13.7
50°-60°	13526.8	24.3
60°-70°	14881.3	26.7
70°-80°	6225.1	11.2
80°-90°	994.9	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°	55702.1	100.0
0°-180°	55702.1	100.0

Coefficient of Utilization



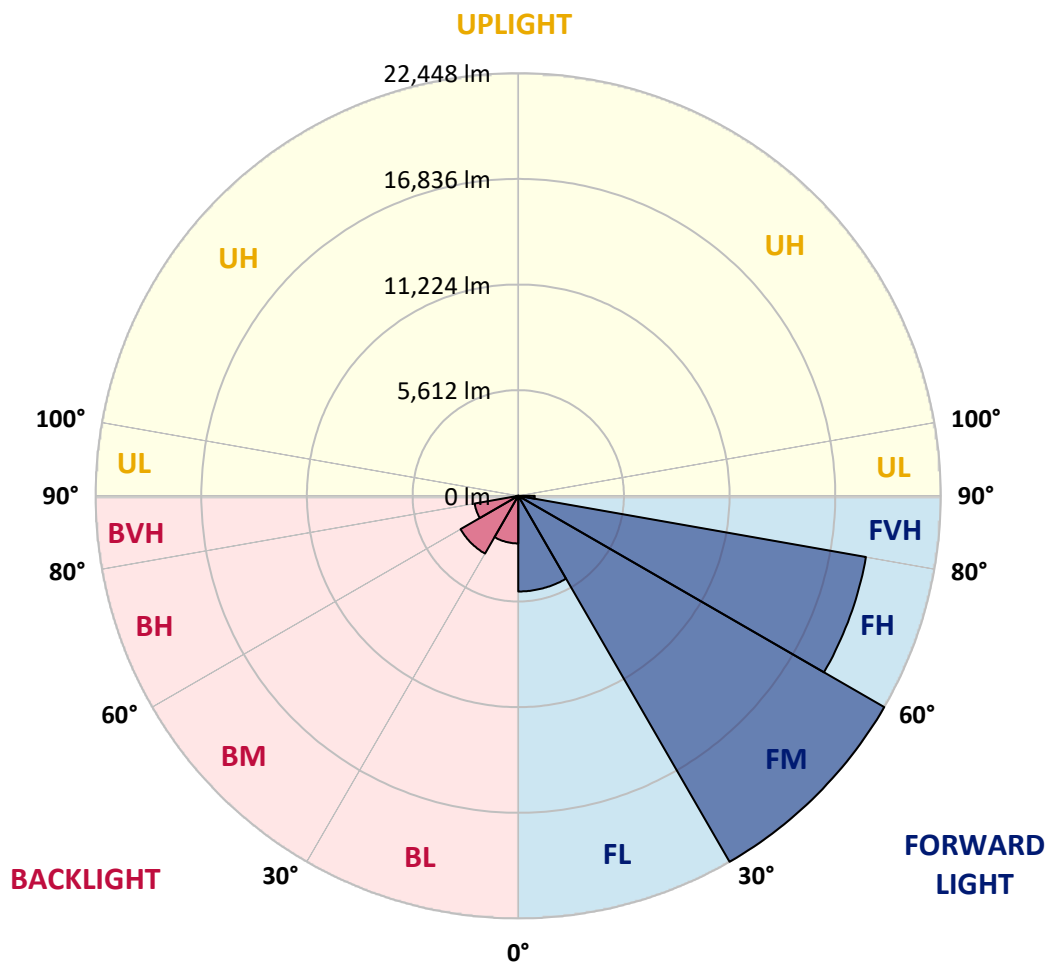
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5082.6	9.1			
FM (30°-60°)	22447.9	40.3			
FH (60°-80°)	18751.0	33.7			G5
FVH (80°-90°)	878.2	1.6			G5
BL (0°-30°)	2529.9	4.5	B4/5000		
BM (30°-60°)	3540.4	6.4	B3/5000		
BH (60°-80°)	2355.4	4.2	B3/2500		G3/2500
BVH (80°-90°)	116.7	0.2			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°
0°	15317.3	15317.3	15317.3	15317.3	15317.3	15317.3	15317.3	15317.3	15317.3	15317.3
2.5°	15730.9	15756.0	15756.0	15806.1	15636.9	15718.4	15705.9	15630.7	15655.7	15524.1
5°	15286.0	15267.1	15367.4	15380.0	15511.6	15549.2	15580.5	15530.4	15542.9	15254.6
7.5°	14145.3	14139.0	14308.3	14452.4	14728.2	14985.1	15154.3	15104.2	15173.1	14991.4
10°	12791.6	12935.7	13111.2	13255.3	13763.0	14088.9	14527.6	14571.5	14834.7	14790.8
12.5°	11776.3	11838.9	11970.5	12384.2	12848.0	13387.0	14013.7	14070.1	14327.1	14452.4
15°	10942.7	10999.1	11168.3	11475.4	11995.6	12634.9	13430.8	13575.0	14088.9	14132.8
17.5°	10334.8	10378.7	10491.5	10798.6	11224.7	12045.8	12797.8	13054.8	13731.7	13944.7
20°	10096.6	10002.6	10065.3	10259.6	10685.8	11318.7	12290.2	12515.8	13380.7	13800.6
22.5°	9990.1	9908.6	9946.2	9933.7	10272.1	10723.4	11744.9	11983.1	13048.5	13631.4
25°	10071.6	10071.6	10034.0	10002.6	10040.2	10334.8	11155.8	11525.6	12603.5	13487.2
27.5°	10510.3	10341.0	10359.9	10228.2	10190.6	10190.6	10892.6	11111.9	12459.4	13405.8
30°	10792.3	10873.8	10880.0	10685.8	10491.5	10140.5	10648.1	10861.2	12340.3	13506.0
32.5°	11513.0	11475.4	11368.9	11331.3	11043.0	10648.1	10767.2	10911.4	12271.4	13731.7
35°	12233.8	12215.0	12221.2	12202.4	11901.6	11318.7	11086.9	11281.1	12396.7	14126.5
37.5°	12979.6	13029.7	13242.8	13242.8	12923.2	12290.2	11983.1	11926.7	12854.2	14772.0
40°	13725.4	13850.7	14120.2	14546.4	14095.2	13506.0	13010.9	12923.2	13405.8	15636.9
42.5°	14439.9	14646.7	15179.4	15812.4	15662.0	15072.9	14414.8	14314.5	14540.1	16921.7
45°	15354.9	15530.4	16370.2	17341.6	17548.4	17028.3	16257.4	16175.9	16163.4	18801.9
47.5°	16746.2	16934.3	17774.1	18751.8	19391.0	19472.5	18607.6	18519.9	18219.0	21340.2
50°	18488.5	18795.6	19503.8	20644.5	21572.1	22443.2	22198.8	21941.8	21352.7	24292.1
52.5°	19760.8	20136.8	21095.7	22556.0	24191.8	25576.9	26454.3	26454.3	25100.5	27532.3
55°	20099.2	20324.9	21534.5	23646.5	26448.0	29951.4	31787.8	31649.9	29562.9	30941.7
57.5°	18751.8	19046.3	20512.9	22725.2	27632.5	34044.0	37083.6	37115.0	34438.8	34902.6
60°	15041.5	15135.5	16865.3	19823.5	26491.9	37340.6	44316.1	44435.2	39985.4	38431.1
62.5°	10397.5	10698.3	12001.9	14596.5	21948.1	36970.8	51291.6	51880.7	44428.9	40292.5
65°	6843.9	7025.6	7721.3	9300.7	15279.7	32044.7	53460.1	55277.6	47825.8	40399.0
67.5°	4963.7	4995.0	5201.9	6016.6	9181.6	23044.9	49756.1	52319.4	49098.0	39509.1
70°	4011.1	4036.1	4111.4	4631.5	5928.9	14421.1	40580.8	44598.1	45281.3	35291.2
72.5°	3259.0	3290.3	3384.3	3873.2	4888.5	8022.1	29675.7	34570.4	36832.9	26109.6
75°	2563.3	2588.4	2814.0	3296.6	4593.9	5509.0	19685.6	24480.1	24787.2	15260.9
77.5°	1754.8	1798.7	2074.5	2795.2	4324.4	4819.6	12271.4	15680.8	14070.1	5972.7
80°	1115.6	1178.3	1341.2	2118.3	3823.1	4600.2	7633.6	9363.3	6160.8	2043.1
82.5°	658.1	720.7	883.7	1372.5	3002.0	4268.0	5377.3	5859.9	2889.2	1046.6
85°	363.5	407.4	532.7	827.3	1761.1	3791.7	4305.6	4205.4	1654.6	557.8
87.5°	119.1	137.9	194.3	332.2	727.0	1786.2	2582.1	2425.4	858.6	257.0
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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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
15317.3	0°	15317.3	15317.3	15317.3	15317.3	15317.3	15317.3	15317.3	15317.3	15317.3	15317.3
15392.5	2.5°	15304.8	15286.0	15003.9	14790.8	14427.3	14126.5	14007.4	13844.5	13838.2	13719.1
15129.3	5°	14935.0	14740.7	14308.3	13894.6	13249.1	12816.6	12421.8	12146.0	12033.2	11788.8
14696.8	7.5°	14458.7	14201.7	13537.4	12760.2	12001.9	11325.0	10710.8	10096.6	9751.9	9632.8
14258.1	10°	13963.5	13512.3	12528.3	11657.2	10598.0	9557.6	8592.5	7727.6	7257.5	6925.4
13988.6	12.5°	13568.7	12967.0	11713.6	10410.0	9012.4	7621.0	6499.2	5590.4	5057.7	4807.0
13637.6	15°	13123.7	12327.8	10823.6	9175.3	7433.0	5853.7	4756.9	4042.4	3829.3	3710.2
13274.1	17.5°	12653.7	11732.4	9858.5	7959.5	5891.3	4405.9	3697.7	3409.4	3315.4	3265.3
12929.4	20°	12215.0	11199.7	8868.2	6605.7	4612.7	3534.8	3202.6	3052.2	3045.9	3071.0
12622.3	22.5°	11594.5	10504.0	7890.5	5352.3	3685.2	3077.2	2864.2	2826.6	2864.2	2895.5
12309.0	25°	11243.5	9933.7	6800.0	4249.2	3045.9	2732.5	2663.6	2651.1	2707.5	2745.1
12052.0	27.5°	10880.0	9344.5	5784.7	3403.1	2669.9	2488.1	2475.6	2488.1	2544.5	2600.9
11901.6	30°	10598.0	8874.5	4832.1	2845.4	2381.6	2312.6	2300.1	2312.6	2344.0	2350.2
11945.5	32.5°	10366.1	8316.7	4023.6	2469.3	2206.1	2149.7	2162.2	2156.0	2162.2	2168.5
12095.9	35°	10228.2	7984.5	3359.3	2237.4	2061.9	2018.1	2011.8	1993.0	1999.3	2005.5
12453.1	37.5°	10522.8	7821.6	2832.8	2074.5	1961.7	1924.1	1911.5	1899.0	1880.2	1880.2
13311.7	40°	10967.8	7733.9	2513.2	1967.9	1886.5	1842.6	1805.0	1792.4	1792.4	1798.7
14508.8	42.5°	11851.5	7878.0	2293.8	1886.5	1792.4	1742.3	1704.7	1711.0	1729.8	1748.6
16157.1	45°	13130.0	8316.7	2193.6	1823.8	1736.0	1667.1	1642.0	1635.8	1654.6	1685.9
18570.0	47.5°	14803.4	8999.8	2156.0	1767.4	1698.4	1604.4	1573.1	1591.9	1617.0	1660.8
21628.5	50°	17542.2	10535.3	2187.3	1717.2	1642.0	1573.1	1535.5	1516.7	1535.5	1566.8
25307.4	52.5°	21120.8	13324.3	2306.4	1692.2	1604.4	1548.0	1485.4	1454.0	1472.8	1497.9
29587.9	55°	25401.4	17134.8	2638.5	1660.8	1541.8	1510.4	1441.5	1378.8	1391.3	1391.3
33812.1	57.5°	29174.3	20011.5	3033.4	1617.0	1504.2	1460.3	1372.5	1297.3	1284.8	1291.1
35961.8	60°	30866.5	20776.1	3221.4	1604.4	1504.2	1397.6	1278.5	1203.3	1184.5	1172.0
36300.2	62.5°	30571.9	19453.7	2839.1	1548.0	1541.8	1347.5	1190.8	1109.3	1084.2	1059.2
34883.8	65°	28792.0	17567.2	2237.4	1472.8	1548.0	1316.1	1103.0	1021.6	977.7	946.4
31562.1	67.5°	25539.3	14997.7	1773.6	1416.4	1485.4	1259.7	1027.8	933.8	896.2	864.9
25420.2	70°	19980.2	11757.5	1541.8	1341.2	1334.9	1121.8	940.1	858.6	802.2	764.6
16896.6	72.5°	12954.5	7433.0	1322.4	1190.8	1153.2	940.1	814.7	764.6	720.7	689.4
7909.3	75°	5866.2	3453.3	1065.4	996.5	940.1	752.1	689.4	664.3	626.7	595.4
2720.0	77.5°	2105.8	1472.8	795.9	783.4	701.9	582.9	557.8	539.0	513.9	482.6
1309.9	80°	1178.3	933.8	595.4	570.3	488.8	432.4	401.1	401.1	388.6	369.8
789.7	82.5°	745.8	607.9	438.7	382.3	319.6	288.3	275.8	269.5	263.2	238.2
495.1	85°	470.0	413.6	288.3	225.6	188.0	144.1	137.9	131.6	119.1	106.5
194.3	87.5°	213.1	238.2	112.8	68.9	50.1	31.3	18.8	6.3	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°
15317.3
13687.8
11732.4
9501.2
6781.2
4694.2
3691.4
3240.2
3064.7
2908.0
2738.8
2594.7
2350.2
2174.8
1999.3
1880.2
1805.0
1736.0
1711.0
1642.0
1579.4
1497.9
1385.1
1297.3
1172.0
1065.4
940.1
852.4
764.6
689.4
595.4
482.6
363.5
231.9
106.5
0.0
0.0

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