

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: P575008

Luminaire Tested: **EPH-VN-08-730-U-SL3**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575008
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-08-730-U-SL3
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (128) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

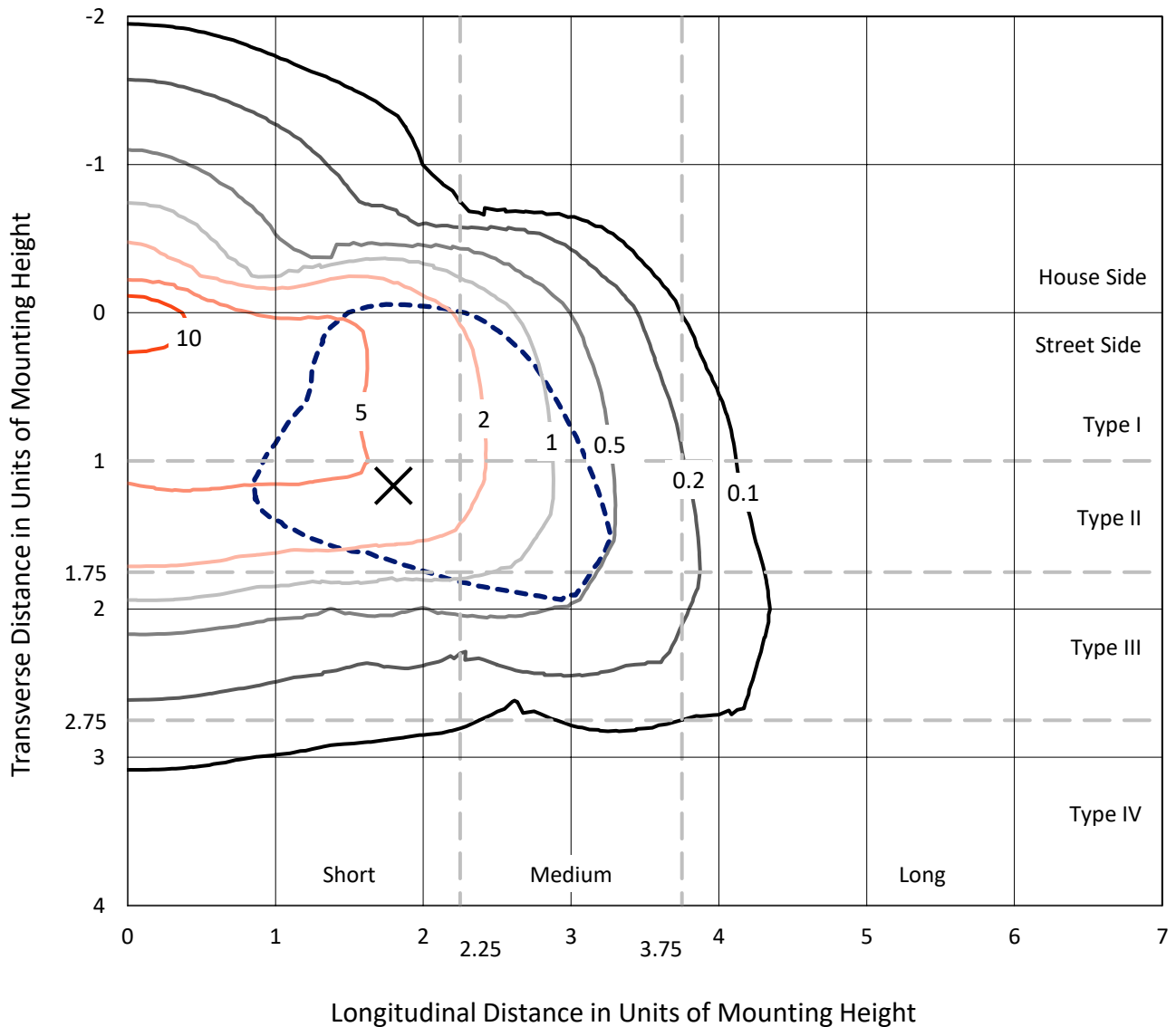
Lumens per Lamp: N/A
Luminaire Lumens: 50090 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 488.3
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: P575008
 CATALOG NUMBER: EPH-VN-08-730-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

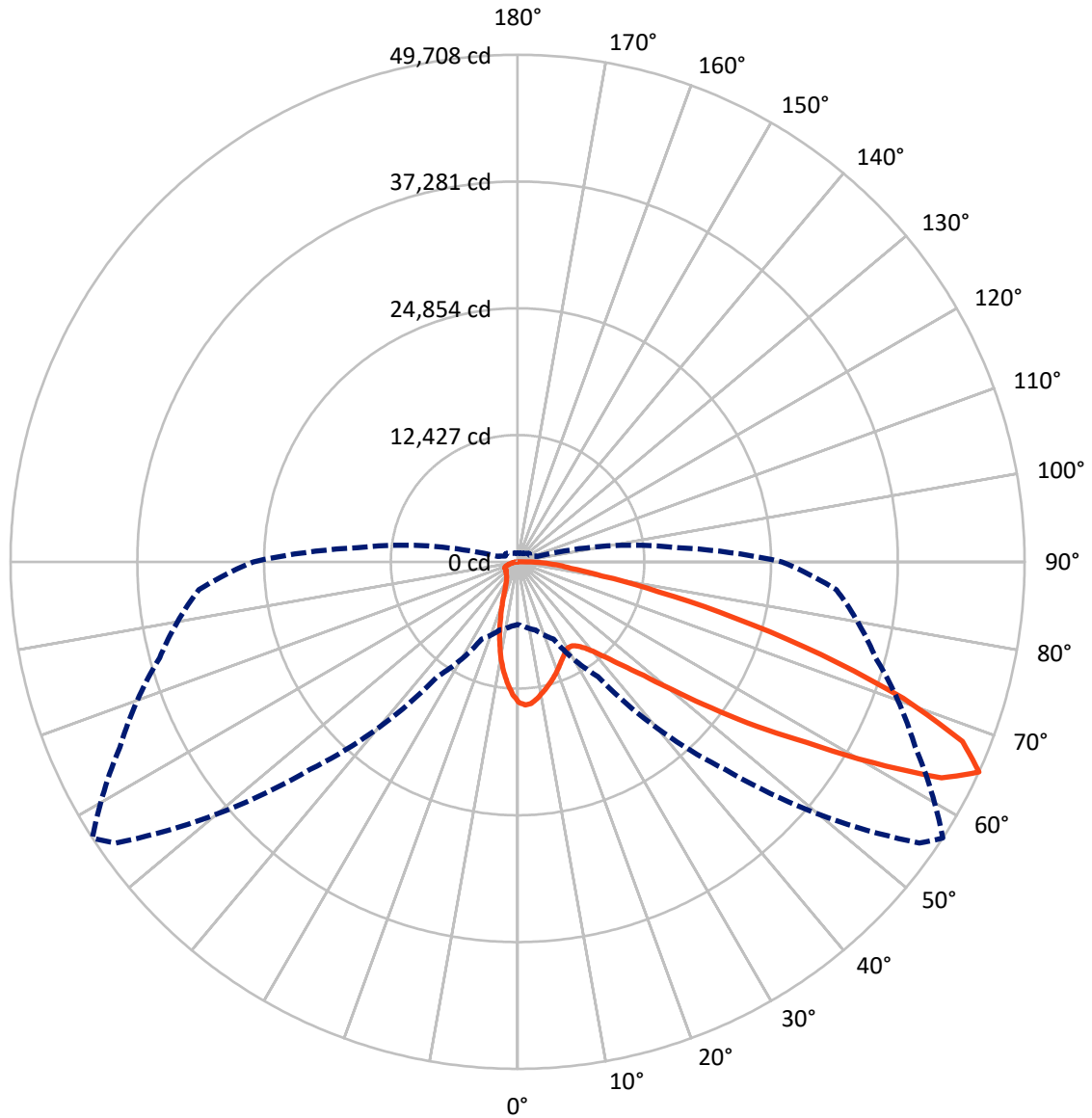
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 15.3 fc
 Type III - Short - N/A

REPORT NUMBER: P575008
CATALOG NUMBER: EPH-VN-08-730-U-SL3

Luminous Intensity Polar Plot



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

REPORT NUMBER: P575008
 CATALOG NUMBER: EPH-VN-08-730-U-SL3

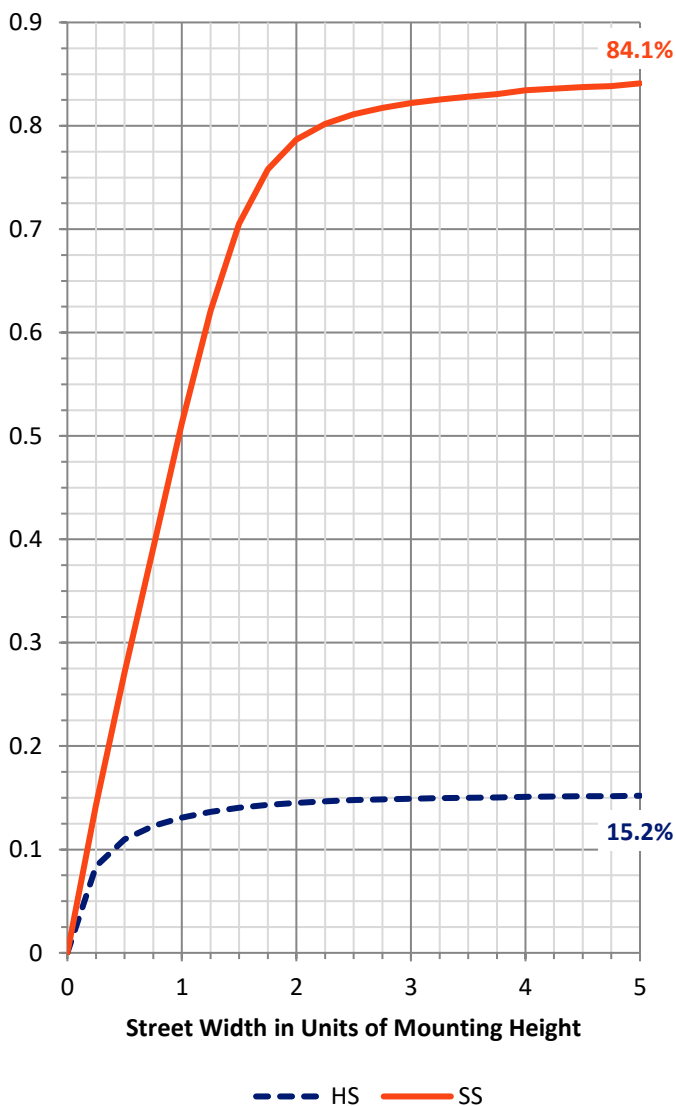
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7681.8	0.0	7681.8
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	42408.2	0.0	42408.2
	% Fixture	84.7	0.0	84.7
Total	Lumens	50090.0	0.0	50090.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1153.5	2.3
10°-20°	2482.5	5.0
20°-30°	3209.6	6.4
30°-40°	4319.0	8.6
40°-50°	6886.9	13.7
50°-60°	12164.0	24.3
60°-70°	13382.0	26.7
70°-80°	5597.9	11.2
80°-90°	894.7	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°	50090.0	100.0
0°-180°	50090.0	100.0

Coefficient of Utilization



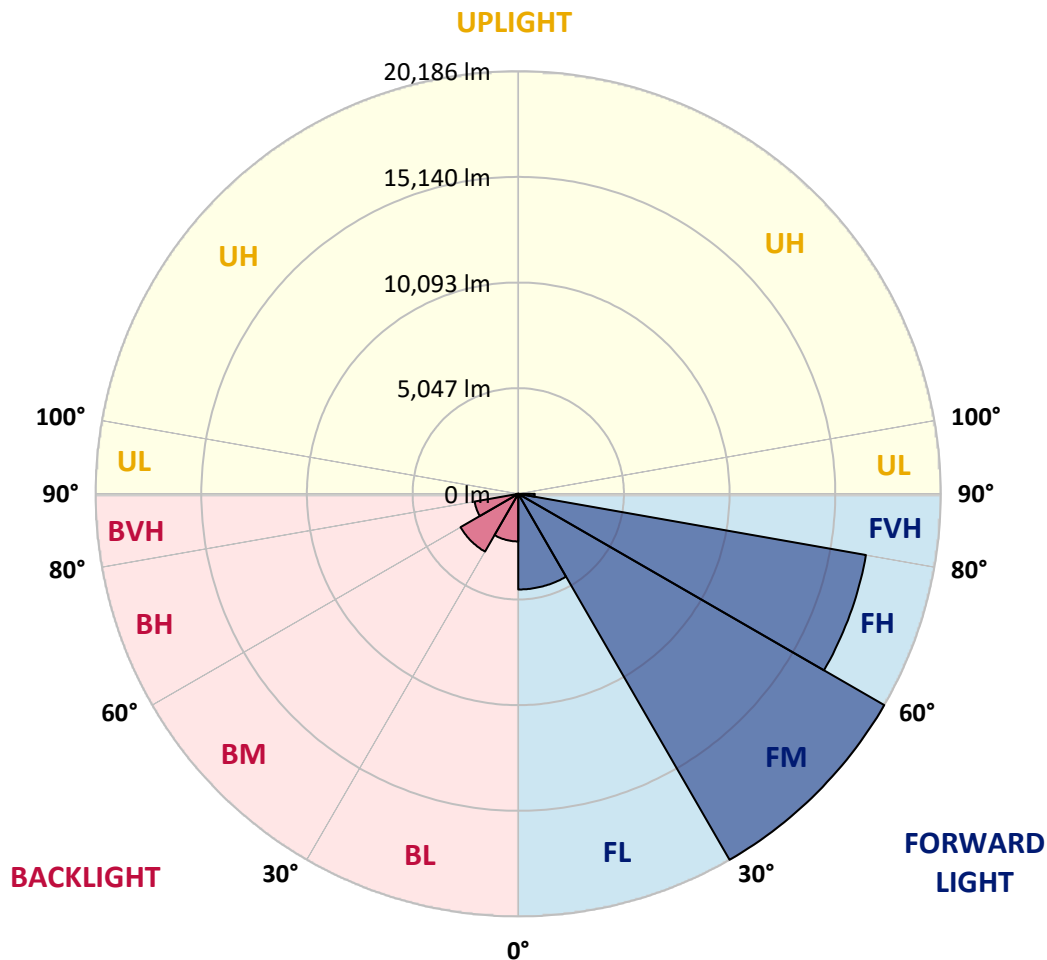
REPORT NUMBER: P575008
 CATALOG NUMBER: EPH-VN-08-730-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4570.5	9.1			
FM (30°-60°)	20186.2	40.3			
FH (60°-80°)	16861.8	33.7			G5
FVH (80°-90°)	789.7	1.6			G5
BL (0°-30°)	2275.0	4.5	B3/2500		
BM (30°-60°)	3183.7	6.4	B3/5000		
BH (60°-80°)	2118.1	4.2	B3/2500		G3/2500
BVH (80°-90°)	105.0	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 III Short





REPORT NUMBER: P575008
 CATALOG NUMBER: EPH-VN-08-730-U-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°
0°	13774.0	13774.0	13774.0	13774.0	13774.0	13774.0	13774.0	13774.0	13774.0	13774.0
2.5°	14146.0	14168.5	14168.5	14213.6	14061.5	14134.7	14123.5	14055.8	14078.4	13960.0
5°	13745.9	13728.9	13819.1	13830.4	13948.7	13982.6	14010.7	13965.6	13976.9	13717.7
7.5°	12720.1	12714.5	12866.7	12996.3	13244.3	13475.3	13627.5	13582.4	13644.4	13481.0
10°	11502.8	11632.4	11790.2	11919.8	12376.3	12669.4	13063.9	13103.4	13340.1	13300.6
12.5°	10589.8	10646.1	10764.5	11136.5	11553.5	12038.2	12601.8	12652.5	12883.6	12996.3
15°	9840.2	9890.9	10043.1	10319.3	10787.0	11361.9	12077.6	12207.3	12669.4	12708.9
17.5°	9293.5	9333.0	9434.4	9710.6	10093.8	10832.1	11508.4	11739.5	12348.2	12539.8
20°	9079.4	8994.8	9051.2	9225.9	9609.1	10178.4	11051.9	11254.8	12032.6	12410.2
22.5°	8983.6	8910.3	8944.1	8932.8	9237.2	9642.9	10561.6	10775.8	11733.9	12258.0
25°	9056.8	9056.8	9023.0	8994.8	9028.6	9293.5	10031.8	10364.3	11333.7	12128.4
27.5°	9451.3	9299.2	9316.1	9197.7	9163.9	9163.9	9795.1	9992.4	11204.1	12055.1
30°	9704.9	9778.2	9783.8	9609.1	9434.4	9118.8	9575.3	9766.9	11097.0	12145.3
32.5°	10353.1	10319.3	10223.4	10189.6	9930.4	9575.3	9682.4	9812.0	11035.0	12348.2
35°	11001.2	10984.3	10989.9	10973.0	10702.5	10178.4	9969.8	10144.5	11147.7	12703.2
37.5°	11671.9	11716.9	11908.6	11908.6	11621.1	11051.9	10775.8	10725.0	11559.1	13283.7
40°	12342.5	12455.2	12697.6	13080.8	12675.0	12145.3	11700.0	11621.1	12055.1	14061.5
42.5°	12985.0	13171.0	13650.0	14219.3	14084.0	13554.2	12962.5	12872.3	13075.2	15216.8
45°	13807.8	13965.6	14720.9	15594.4	15780.4	15312.6	14619.4	14546.1	14534.9	16907.6
47.5°	15059.0	15228.1	15983.3	16862.5	17437.3	17510.6	16732.9	16654.0	16383.4	19190.1
50°	16625.8	16901.9	17538.8	18564.5	19398.6	20182.0	19962.2	19731.1	19201.4	21844.6
52.5°	17769.9	18108.0	18970.3	20283.4	21754.4	22999.9	23788.9	23788.9	22571.6	24758.3
55°	18074.2	18277.1	19364.8	21264.1	23783.3	26933.8	28585.1	28461.1	26584.3	27824.2
57.5°	16862.5	17127.4	18446.2	20435.6	24848.5	30614.0	33347.4	33375.5	30969.0	31386.1
60°	13526.1	13610.6	15166.1	17826.2	23822.8	33578.4	39851.1	39958.2	35956.8	34559.1
62.5°	9349.9	9620.4	10792.7	13125.9	19736.8	33245.9	46123.8	46653.6	39952.6	36232.9
65°	6154.4	6317.8	6943.4	8363.6	13740.2	28816.1	48073.8	49708.2	43007.2	36328.7
67.5°	4463.6	4491.8	4677.8	5410.4	8256.5	20723.0	44743.1	47048.1	44151.3	35528.4
70°	3606.9	3629.5	3697.1	4164.9	5331.5	12968.1	36492.2	40104.7	40719.1	31735.5
72.5°	2930.6	2958.8	3043.4	3483.0	4396.0	7213.9	26685.8	31087.4	33121.9	23479.0
75°	2305.1	2327.6	2530.5	2964.5	4131.1	4953.9	17702.2	22013.7	22289.8	13723.3
77.5°	1578.0	1617.5	1865.5	2513.6	3888.7	4334.0	11035.0	14100.9	12652.5	5371.0
80°	1003.2	1059.5	1206.1	1904.9	3437.9	4136.7	6864.5	8420.0	5540.0	1837.3
82.5°	591.8	648.1	794.7	1234.3	2699.6	3838.0	4835.6	5269.5	2598.1	941.2
85°	326.9	366.3	479.0	743.9	1583.7	3409.7	3871.8	3781.7	1487.9	501.6
87.5°	107.1	124.0	174.7	298.7	653.8	1606.2	2322.0	2181.1	772.1	231.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P575008

CATALOG NUMBER: EPH-VN-08-730-U-SL3

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
13774.0	0°	13774.0	13774.0	13774.0	13774.0	13774.0	13774.0	13774.0	13774.0	13774.0	13774.0
13841.7	2.5°	13762.8	13745.9	13492.2	13300.6	12973.7	12703.2	12596.1	12449.6	12444.0	12336.9
13605.0	5°	13430.2	13255.5	12866.7	12494.7	11914.2	11525.3	11170.3	10922.3	10820.8	10601.0
13216.1	7.5°	13001.9	12770.8	12173.4	11474.6	10792.7	10184.0	9631.7	9079.4	8769.4	8662.3
12821.6	10°	12556.7	12150.9	11266.1	10482.7	9530.2	8594.7	7726.8	6949.0	6526.3	6227.6
12579.2	12.5°	12201.6	11660.6	10533.4	9361.2	8104.4	6853.2	5844.4	5027.2	4548.1	4322.7
12263.6	15°	11801.5	11085.7	9733.1	8250.9	6684.1	5263.9	4277.6	3635.1	3443.5	3336.4
11936.7	17.5°	11378.8	10550.3	8865.2	7157.5	5297.7	3962.0	3325.2	3065.9	2981.4	2936.3
11626.8	20°	10984.3	10071.3	7974.7	5940.2	4148.0	3178.6	2879.9	2744.7	2739.0	2761.6
11350.6	22.5°	10426.3	9445.7	7095.5	4813.0	3313.9	2767.2	2575.6	2541.8	2575.6	2603.8
11068.8	25°	10110.7	8932.8	6114.9	3821.1	2739.0	2457.2	2395.2	2384.0	2434.7	2468.5
10837.7	27.5°	9783.8	8403.1	5201.9	3060.3	2400.9	2237.4	2226.2	2237.4	2288.2	2338.9
10702.5	30°	9530.2	7980.4	4345.2	2558.7	2141.6	2079.6	2068.4	2079.6	2107.8	2113.4
10741.9	32.5°	9321.7	7478.8	3618.2	2220.5	1983.8	1933.1	1944.4	1938.7	1944.4	1950.0
10877.2	35°	9197.7	7180.1	3020.8	2012.0	1854.2	1814.7	1809.1	1792.2	1797.8	1803.5
11198.4	37.5°	9462.6	7033.5	2547.4	1865.5	1764.0	1730.2	1718.9	1707.7	1690.8	1690.8
11970.6	40°	9862.7	6954.6	2260.0	1769.7	1696.4	1656.9	1623.1	1611.9	1611.9	1617.5
13047.0	42.5°	10657.4	7084.3	2062.7	1696.4	1611.9	1566.8	1533.0	1538.6	1555.5	1572.4
14529.2	45°	11807.1	7478.8	1972.5	1640.0	1561.1	1499.1	1476.6	1471.0	1487.9	1516.0
16699.0	47.5°	13311.9	8093.1	1938.7	1589.3	1527.3	1442.8	1414.6	1431.5	1454.1	1493.5
19449.3	50°	15774.8	9473.9	1966.9	1544.2	1476.6	1414.6	1380.8	1363.9	1380.8	1409.0
22757.6	52.5°	18992.8	11981.8	2074.0	1521.7	1442.8	1392.1	1335.7	1307.5	1324.4	1347.0
26606.9	55°	22842.1	15408.4	2372.7	1493.5	1386.4	1358.2	1296.2	1239.9	1251.2	1251.2
30405.4	57.5°	26234.9	17995.3	2727.8	1454.1	1352.6	1313.2	1234.3	1166.6	1155.4	1161.0
32338.5	60°	27756.6	18682.9	2896.8	1442.8	1352.6	1256.8	1149.7	1082.1	1065.2	1053.9
32642.9	62.5°	27491.7	17493.7	2553.0	1392.1	1386.4	1211.7	1070.8	997.5	975.0	952.5
31369.2	65°	25891.1	15797.3	2012.0	1324.4	1392.1	1183.5	991.9	918.6	879.2	851.0
28382.2	67.5°	22966.1	13486.6	1594.9	1273.7	1335.7	1132.8	924.3	839.7	805.9	777.7
22859.0	70°	17967.1	10572.9	1386.4	1206.1	1200.4	1008.8	845.4	772.1	721.4	687.6
15194.3	72.5°	11649.3	6684.1	1189.2	1070.8	1037.0	845.4	732.7	687.6	648.1	619.9
7112.4	75°	5275.2	3105.4	958.1	896.1	845.4	676.3	619.9	597.4	563.6	535.4
2446.0	77.5°	1893.6	1324.4	715.8	704.5	631.2	524.1	501.6	484.7	462.1	434.0
1177.9	80°	1059.5	839.7	535.4	512.9	439.6	388.9	360.7	360.7	349.4	332.5
710.1	82.5°	670.7	546.7	394.5	343.8	287.4	259.2	248.0	242.3	236.7	214.2
445.2	85°	422.7	372.0	259.2	202.9	169.1	129.6	124.0	118.4	107.1	95.8
174.7	87.5°	191.6	214.2	101.4	62.0	45.1	28.2	16.9	5.6	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°
13774.0
12308.7
10550.3
8544.0
6098.0
4221.3
3319.5
2913.7
2755.9
2615.0
2462.9
2333.2
2113.4
1955.6
1797.8
1690.8
1623.1
1561.1
1538.6
1476.6
1420.2
1347.0
1245.5
1166.6
1053.9
958.1
845.4
766.5
687.6
619.9
535.4
434.0
326.9
208.5
95.8
0.0
0.0

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