

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: P574972

Luminaire Tested: **EPH-VN-06-735-U-SL2**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P574972
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-06-735-U-SL2
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

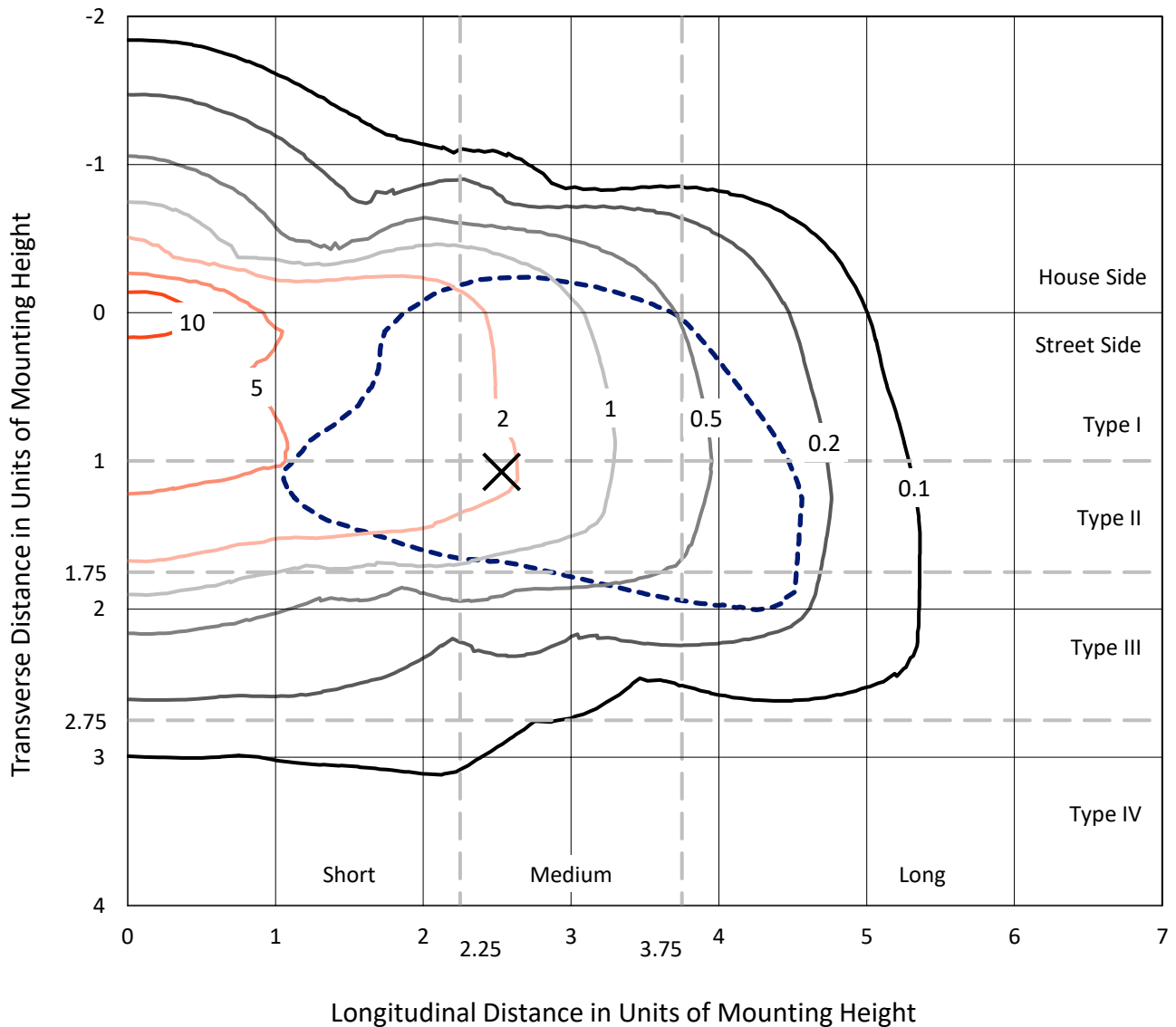
Lumens per Lamp: N/A
Luminaire Lumens: 52034.5 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

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

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Iso-Footcandle Lines of Horizontal Illumination

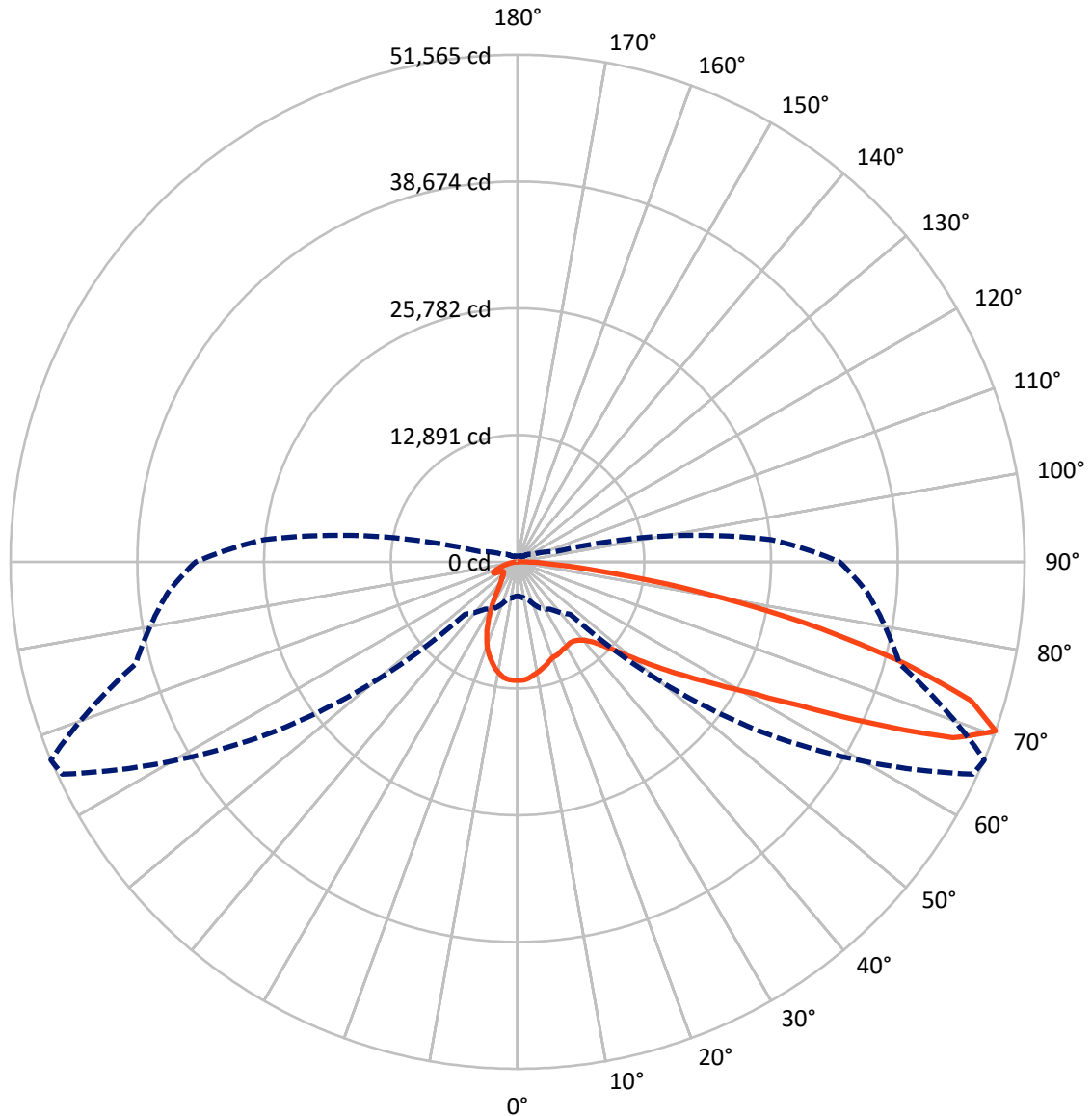
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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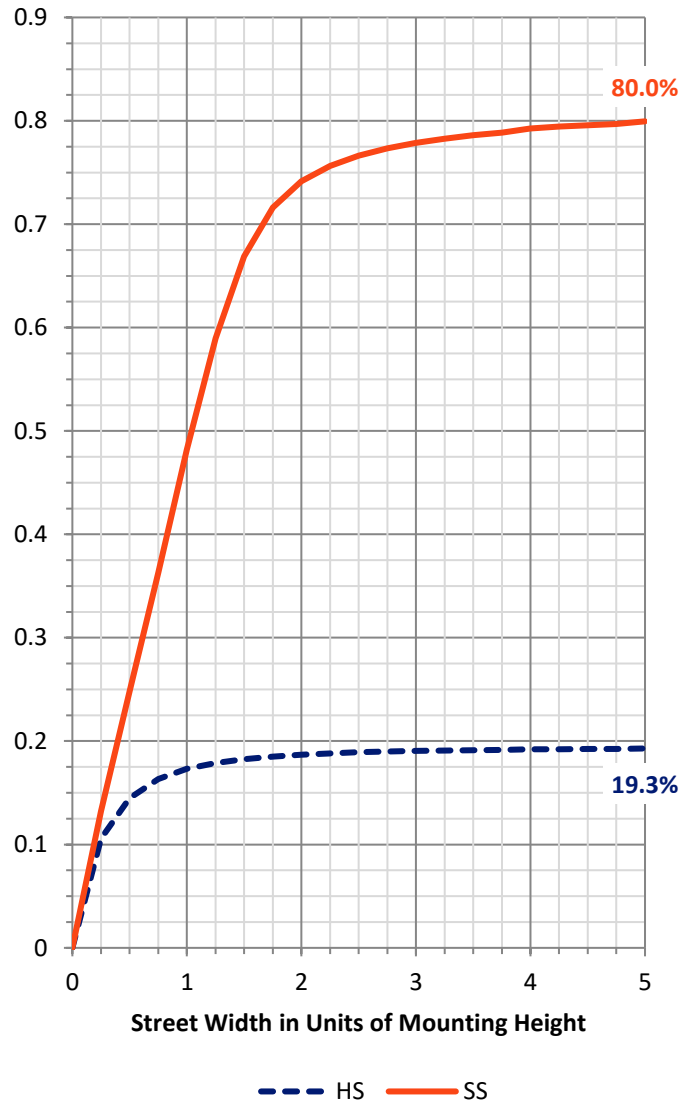
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10134.2	0.0	10134.2
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	41900.3	0.0	41900.3
	% Fixture	80.5	0.0	80.5
Total	Lumens	52034.5	0.0	52034.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1051.0	2.0
10°-20°	2517.2	4.8
20°-30°	3399.2	6.5
30°-40°	4548.5	8.7
40°-50°	6688.5	12.9
50°-60°	10425.6	20.0
60°-70°	12842.6	24.7
70°-80°	9074.5	17.4
80°-90°	1487.4	2.9
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°	52034.5	100.0
0°-180°	52034.5	100.0

Coefficient of Utilization



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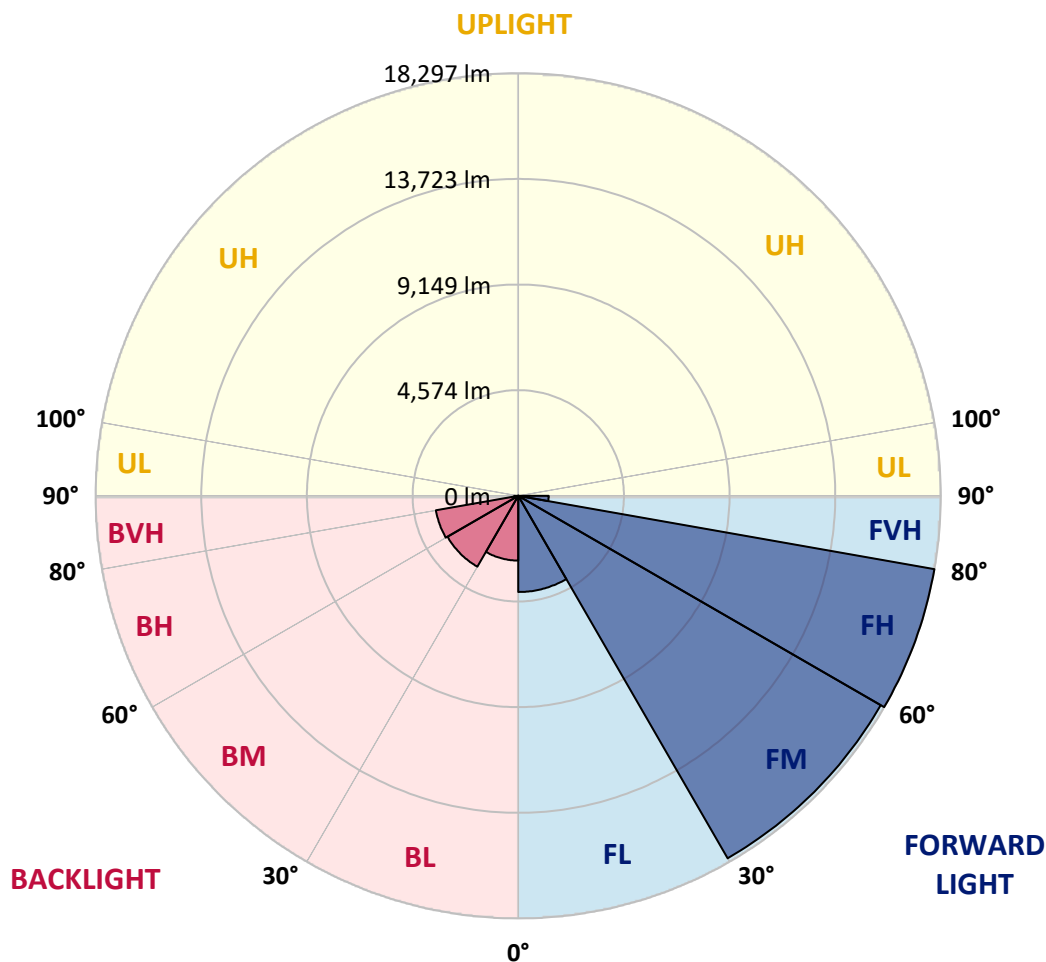
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4165.0	8.0			
FM (30°-60°)	18122.5	34.8			
FH (60°-80°)	18297.1	35.2			G5
FVH (80°-90°)	1315.8	2.5			G5
BL (0°-30°)	2802.4	5.4	B4/5000		
BM (30°-60°)	3540.1	6.8	B3/5000		
BH (60°-80°)	3620.1	7.0	B4/5000		G4/5000
BVH (80°-90°)	171.6	0.3			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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	12045.8	12045.8	12045.8	12045.8	12045.8	12045.8	12045.8	12045.8	12045.8	12045.8
2.5°	11216.3	11343.0	11389.1	11458.2	11636.8	11769.3	11850.0	11942.1	12051.6	12143.8
5°	10432.8	10501.9	10611.4	10686.3	10910.9	11268.1	11510.1	11901.8	11890.3	12034.3
7.5°	9672.4	9741.5	9793.4	9943.1	10265.7	10588.3	11031.9	11665.6	11619.5	11953.7
10°	9200.0	9148.1	9165.4	9418.9	9672.4	10035.3	10594.1	11239.3	11406.4	11924.8
12.5°	8756.4	8698.8	8837.1	8998.4	9309.4	9637.8	10306.1	10887.9	11141.4	11821.2
15°	8479.9	8439.6	8612.4	8681.5	9050.2	9441.9	9914.3	10622.9	10899.4	11694.4
17.5°	8324.4	8358.9	8422.3	8572.1	8808.3	9142.4	9660.9	10444.3	10565.3	11538.9
20°	8353.2	8393.5	8399.2	8462.6	8623.9	8883.1	9413.1	10254.2	10334.9	11510.1
22.5°	8583.6	8526.0	8549.0	8508.7	8554.8	8756.4	9223.0	10000.7	10311.8	11268.1
25°	8929.2	8848.6	8837.1	8698.8	8612.4	8670.0	9188.5	9937.4	10139.0	11193.2
27.5°	9539.9	9418.9	9418.9	9211.5	8860.1	8767.9	9090.5	9833.7	10012.3	11124.1
30°	10127.5	10127.5	10133.2	9839.4	9447.7	8992.6	9130.9	9793.4	9908.6	10916.7
32.5°	10841.8	10824.5	10795.7	10651.7	10046.8	9367.1	9326.7	9741.5	9799.1	10847.6
35°	11538.9	11492.8	11717.5	11590.7	10974.3	10098.7	9528.4	9764.6	9891.3	10743.9
37.5°	12063.1	12091.9	12558.5	12639.2	12109.2	10928.2	10098.7	9995.0	10116.0	10893.7
40°	12742.9	12858.1	13295.9	13566.7	13244.1	12022.8	11003.1	10381.0	10467.4	11227.8
42.5°	13635.8	13733.7	14292.5	14643.9	14551.8	13416.9	11896.0	11187.5	11118.3	11786.6
45°	14816.8	14834.1	15398.6	15882.5	16072.6	14874.4	13313.2	12207.1	12149.5	12748.6
47.5°	16222.4	16205.1	16556.5	17075.0	17587.7	16614.1	14943.5	13756.8	13549.4	14125.5
50°	17582.0	17507.1	17587.7	18250.2	19235.3	18791.7	16925.2	15652.1	15444.7	15761.5
52.5°	18330.9	18423.0	18204.1	19079.8	20986.6	21366.8	19552.1	17916.1	17737.5	17893.0
55°	17806.6	17996.7	17852.7	18682.3	21752.8	24506.4	22951.0	20537.2	20306.8	20249.2
57.5°	15577.2	15922.8	15951.6	17265.1	21487.8	26937.5	27732.5	23630.8	23285.1	22697.5
60°	11959.4	12305.1	12570.1	14125.5	19218.0	28389.2	33274.4	28032.0	26891.4	25370.6
62.5°	8382.0	8618.2	8883.1	9839.4	14816.8	27536.6	38067.3	34230.7	32128.0	28187.6
65°	6106.4	6290.8	6561.5	7126.1	9102.1	22784.0	40291.0	41593.0	39599.7	31770.8
67.5°	4597.1	4712.3	5069.5	5973.9	6308.1	14073.6	37986.7	49370.0	47757.0	35751.5
70°	3479.5	3577.5	3911.6	5150.2	5893.3	7546.6	29967.7	51104.0	51564.9	40216.1
72.5°	2396.5	2505.9	2880.4	4291.8	5611.0	5985.5	18809.0	46426.3	48171.8	42053.8
75°	1469.0	1543.9	1762.8	3254.9	5570.7	5853.0	10352.2	38044.3	39893.5	38856.6
77.5°	1036.9	1031.2	1071.5	1906.8	4827.5	5887.5	6383.0	27876.5	29673.9	28636.9
80°	754.7	760.4	800.8	1140.6	3277.9	5985.5	5029.2	18670.7	19206.5	14932.0
82.5°	455.1	478.1	576.1	771.9	1970.2	5403.6	4649.0	10375.2	9706.9	4793.0
85°	242.0	242.0	339.9	489.7	1048.5	4032.6	4476.1	4937.0	4136.3	1486.3
87.5°	57.6	57.6	97.9	195.9	420.5	1929.9	3053.2	1964.4	1572.7	501.2
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°
12045.8	0°	12045.8	12045.8	12045.8	12045.8	12045.8	12045.8	12045.8	12045.8	12045.8	12045.8
12201.4	2.5°	12178.3	12109.2	12195.6	12022.8	11884.5	11890.3	11677.1	11665.6	11636.8	11487.0
12253.2	5°	12316.6	12259.0	12161.0	11970.9	11665.6	11360.3	11175.9	10939.8	10841.8	10790.0
12293.5	7.5°	12449.1	12345.4	12063.1	11798.1	11325.7	10749.6	10415.5	10098.7	9695.4	9649.3
12408.8	10°	12483.6	12264.7	11901.8	11337.2	10709.3	10069.9	9309.4	8721.8	8410.8	8168.8
12460.6	12.5°	12431.8	12339.6	11642.6	10916.7	9966.2	8963.8	8076.6	7247.1	6671.0	6371.4
12380.0	15°	12426.0	12264.7	11354.5	10277.3	9061.7	7754.0	6492.4	5495.8	4890.9	4643.2
12362.7	17.5°	12431.8	12045.8	11014.6	9632.1	7996.0	6227.4	4839.1	4021.0	3686.9	3652.3
12408.8	20°	12316.6	11884.5	10657.5	8871.6	6659.5	4677.8	3514.1	3180.0	3180.0	3226.0
12310.8	22.5°	12212.9	11642.6	10092.9	7932.6	5299.9	3387.3	2857.4	2759.4	2868.9	2949.5
12305.1	25°	12068.9	11440.9	9516.8	6959.0	4032.6	2730.6	2482.9	2505.9	2609.6	2753.7
12172.6	27.5°	11861.5	11089.5	8831.3	5829.9	3001.4	2356.2	2292.8	2304.3	2413.8	2477.1
11994.0	30°	11625.3	10732.4	8197.6	4706.6	2379.2	2160.3	2154.5	2183.3	2200.6	2235.2
11942.1	32.5°	11325.7	10260.0	7523.6	3658.1	2143.0	2050.8	2027.8	2010.5	2027.8	2022.0
11780.8	35°	11112.6	10006.5	6838.1	2788.2	2010.5	1952.9	1935.6	1906.8	1883.8	1849.2
11780.8	37.5°	11055.0	9753.0	6118.0	2275.5	1906.8	1878.0	1820.4	1768.6	1739.8	1722.5
12034.3	40°	11020.4	9586.0	5415.1	1999.0	1820.4	1791.6	1722.5	1653.3	1624.5	1607.3
12414.5	42.5°	11141.4	9493.8	4700.8	1860.7	1745.5	1693.7	1618.8	1538.1	1532.4	1520.9
13111.6	45°	11567.7	9609.0	4038.3	1762.8	1670.6	1584.2	1486.3	1446.0	1440.2	1428.7
14269.5	47.5°	12535.5	9897.0	3473.8	1699.4	1590.0	1515.1	1411.4	1353.8	1348.0	1342.3
16009.3	50°	13872.0	10784.2	3001.4	1624.5	1538.1	1434.4	1336.5	1273.1	1261.6	1238.6
18325.1	52.5°	15968.9	12276.3	2719.1	1584.2	1446.0	1359.5	1255.9	1186.7	1157.9	1134.9
20957.8	55°	18330.9	14125.5	2667.2	1515.1	1348.0	1267.4	1175.2	1106.1	1077.3	1048.5
23429.2	57.5°	21021.1	16573.8	3035.9	1469.0	1278.9	1175.2	1071.5	1008.1	985.1	956.3
25808.4	60°	23527.1	19016.4	4182.3	1399.9	1215.5	1088.8	985.1	921.7	892.9	864.1
28734.9	62.5°	26424.8	22040.8	6123.7	1399.9	1157.9	996.6	892.9	846.8	829.6	800.8
31701.7	65°	29852.5	25168.9	7540.9	1486.3	1140.6	916.0	806.5	760.4	743.1	725.9
34086.6	67.5°	32462.1	26966.3	6486.7	1716.7	1215.5	846.8	720.1	691.3	679.8	662.5
35688.1	70°	32738.6	25871.7	3911.6	1855.0	1290.4	777.7	645.2	616.4	616.4	599.1
33971.4	72.5°	30255.7	22956.8	2632.7	1653.3	1169.4	697.1	570.3	547.3	535.8	524.2
29720.0	75°	25318.7	19471.5	2079.6	1319.2	898.7	576.1	495.4	472.4	455.1	449.3
20168.6	77.5°	17005.9	12656.5	1538.1	1031.2	662.5	466.6	414.8	391.7	374.5	368.7
7955.7	80°	6532.7	4821.8	990.9	748.9	466.6	368.7	328.4	305.3	293.8	276.5
2189.1	82.5°	1924.1	1561.2	553.0	460.9	299.6	253.5	236.2	218.9	201.6	184.3
812.3	85°	795.0	714.3	339.9	242.0	184.3	149.8	138.3	121.0	103.7	92.2
334.1	87.5°	368.7	305.3	155.5	92.2	63.4	34.6	17.3	5.8	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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<u>180°</u>
12045.8
11538.9
10813.0
9568.7
8076.6
6290.8
4643.2
3681.1
3243.3
2984.1
2742.1
2465.6
2229.4
2004.8
1843.5
1711.0
1613.0
1538.1
1440.2
1342.3
1238.6
1134.9
1036.9
944.8
864.1
795.0
720.1
651.0
587.6
518.5
437.8
351.4
265.0
178.6
80.7
0.0
0.0

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