

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: P574650

Luminaire Tested: **EPH-VN-04-735-U-T2R**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P574650  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 10/19/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-VN-04-735-U-T2R  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T2R distribution lens  
Light Source: (64) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

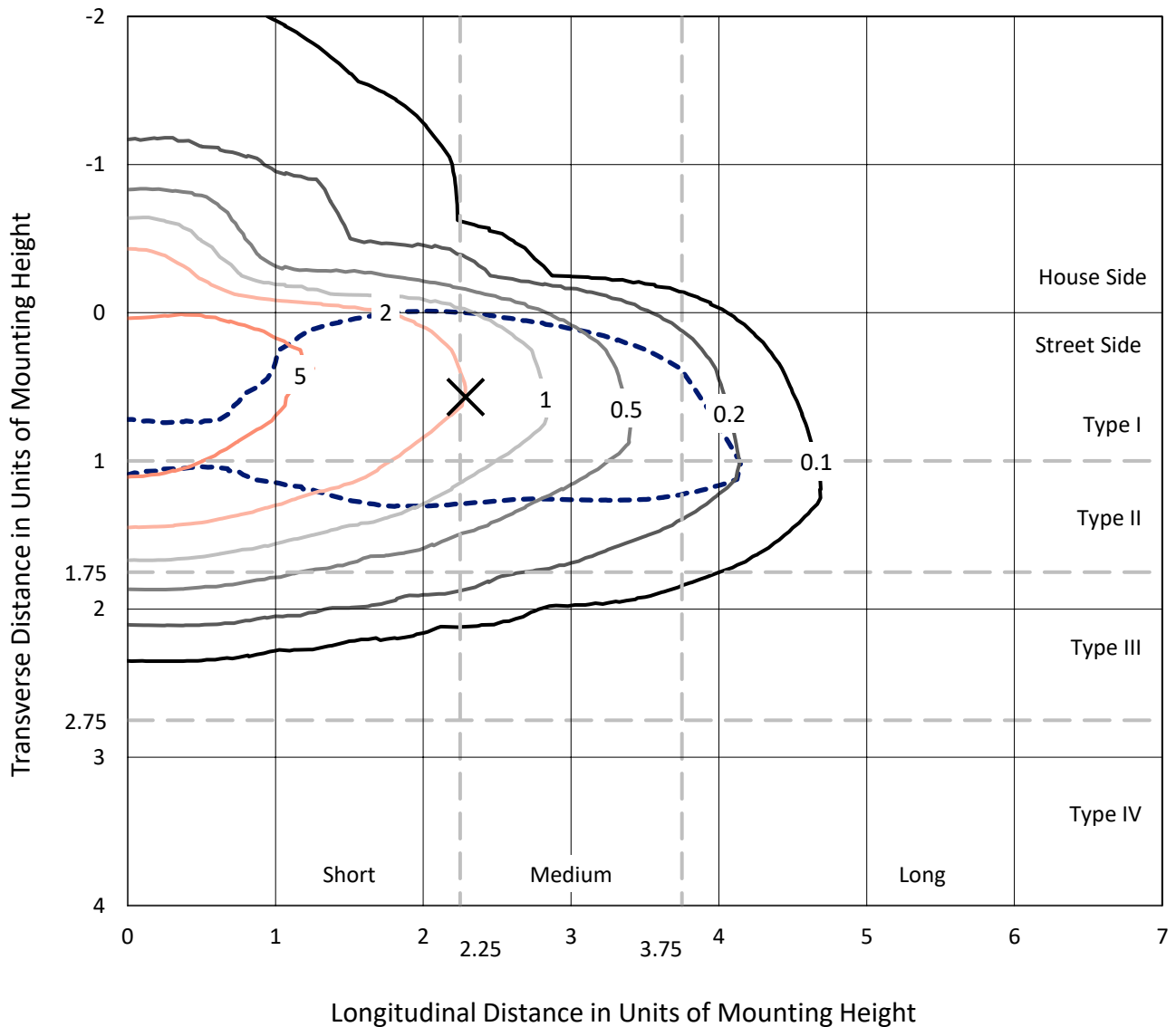
Lumens per Lamp: N/A  
Luminaire Lumens: 34689.4 lumens  
Efficiency: N/A  
Efficacy: 114.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4

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

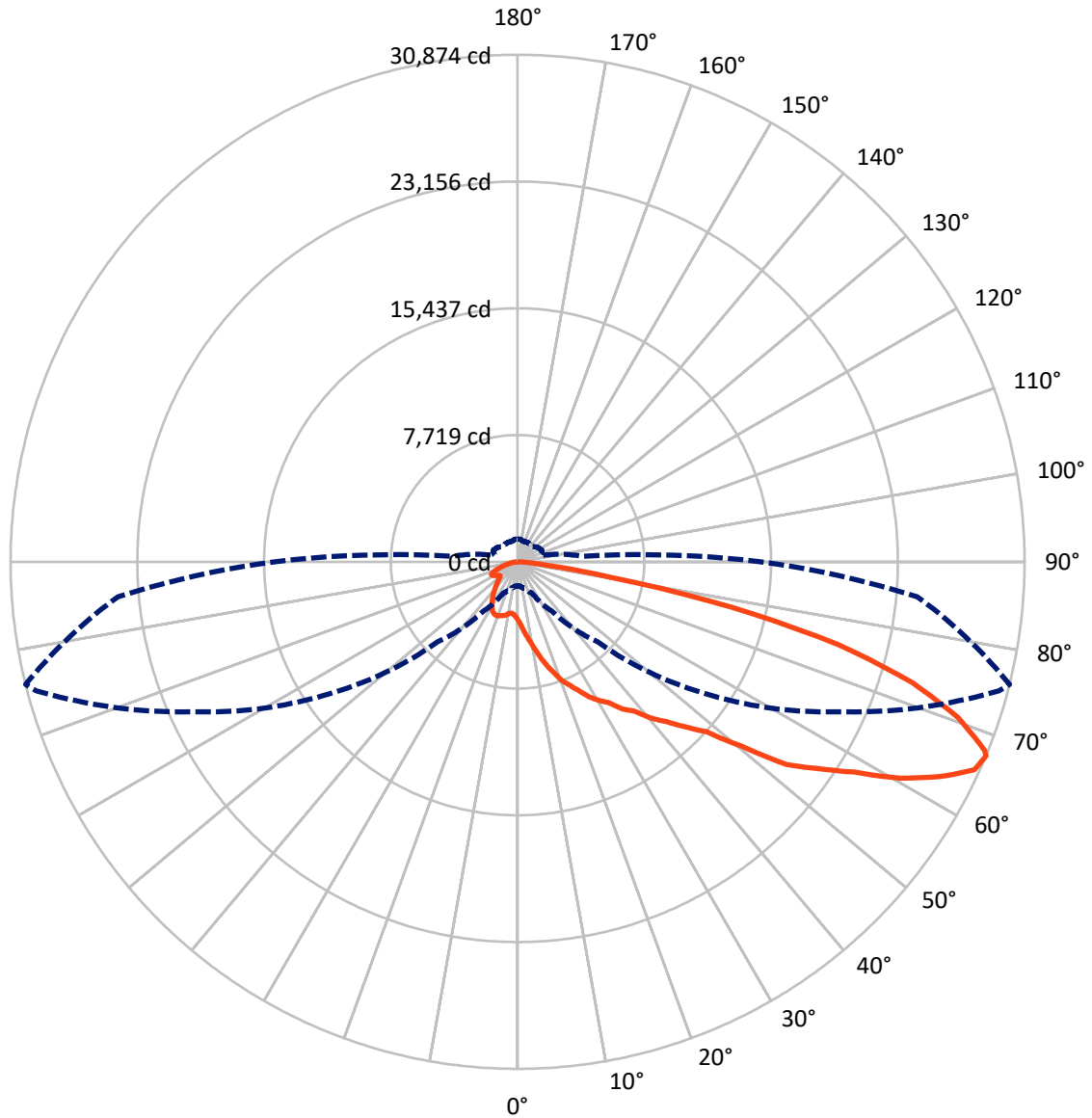
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.2 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 67-Deg Vertical

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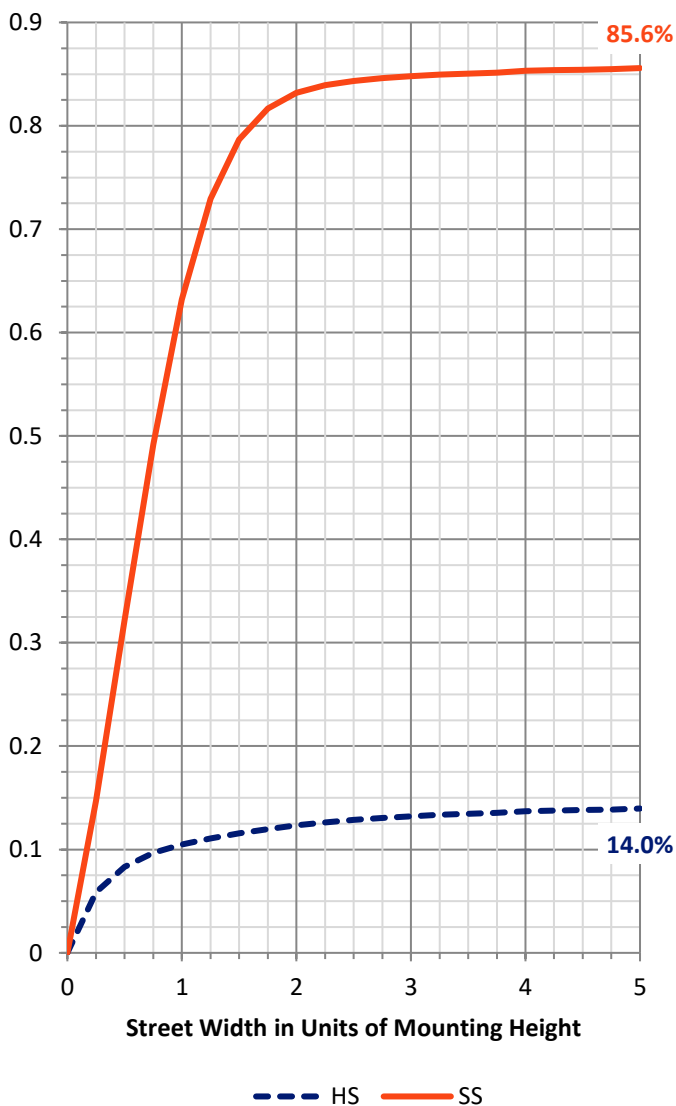
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4935.0	0.0	4935.0
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	29754.4	0.0	29754.4
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	34689.4	0.0	34689.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	411.2	1.2
10°-20°	1542.2	4.4
20°-30°	2867.2	8.3
30°-40°	4545.2	13.1
40°-50°	6286.4	18.1
50°-60°	7732.7	22.3
60°-70°	7195.7	20.7
70°-80°	3610.7	10.4
80°-90°	497.9	1.4
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°	34689.4	100.0
0°-180°	34689.4	100.0

**Coefficient of Utilization**

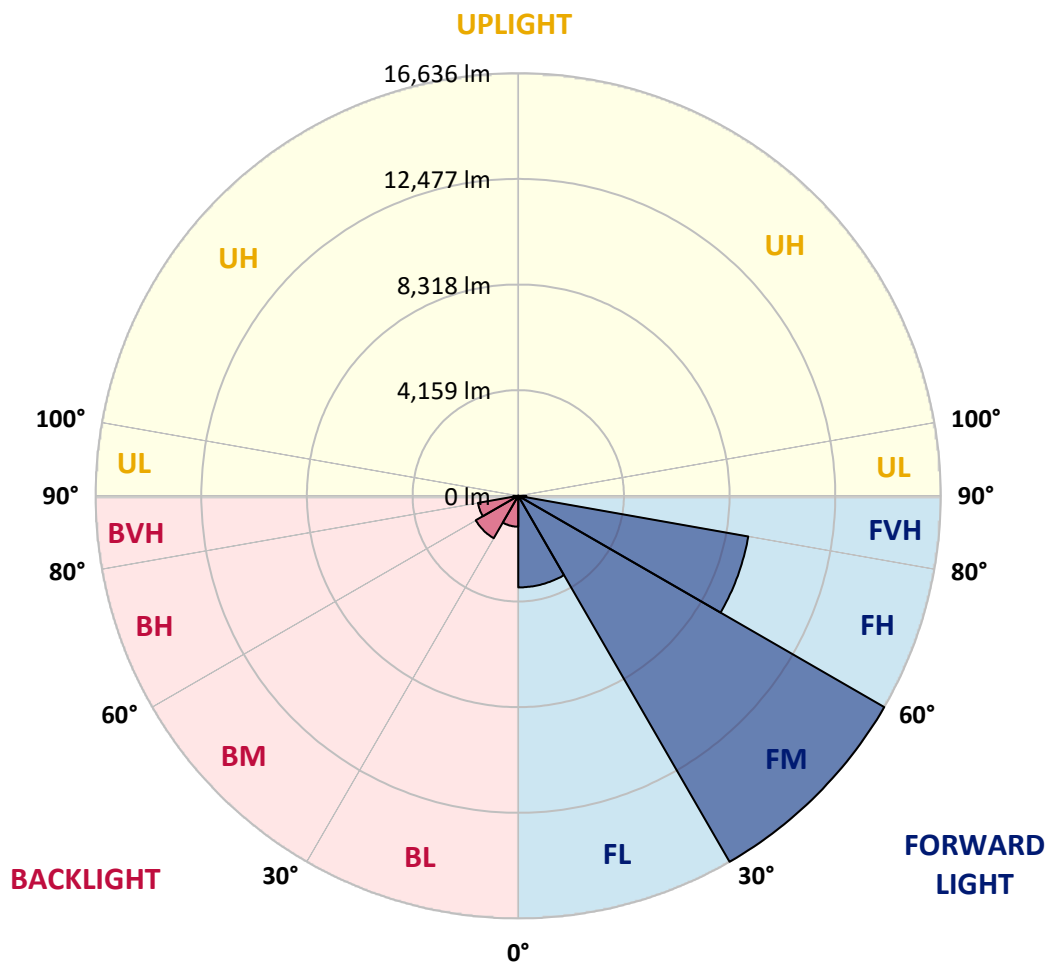


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3605.4	10.4			
FM (30°-60°)	16635.9	48.0			
FH (60°-80°)	9195.9	26.5			G4/12000
FVH (80°-90°)	317.2	0.9			G3/500
BL (0°-30°)	1215.3	3.5	B3/2500		
BM (30°-60°)	1928.5	5.6	B2/2500		
BH (60°-80°)	1610.5	4.6	B3/2500		G3/2500
BVH (80°-90°)	180.7	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**  
 Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°
0°	3549.9	3549.9	3549.9	3549.9	3549.9	3549.9	3549.9	3549.9	3549.9	3549.9
2.5°	4925.6	4866.3	4807.0	4680.5	4637.0	4518.5	4301.0	4059.9	3862.2	3834.6
5°	6111.6	6024.6	6004.8	5933.7	5708.3	5479.1	5123.3	4735.9	4253.6	4289.2
7.5°	7001.0	6949.6	6842.9	6775.7	6641.3	6336.9	5969.3	5455.3	4842.6	4724.0
10°	7673.1	7601.9	7598.0	7538.7	7467.5	7155.2	6874.5	6182.7	5396.0	5234.0
12.5°	8013.0	8001.2	8210.7	8210.7	8183.0	8052.6	7570.3	6937.8	5921.8	5866.5
15°	8380.7	8281.8	8463.7	8602.1	8673.2	8740.4	8341.1	7673.1	6593.9	6487.1
17.5°	8380.7	8372.8	8554.6	8783.9	9155.5	9242.5	9025.0	8349.1	7151.2	7072.2
20°	8238.4	8353.0	8479.5	8787.9	9191.1	9542.9	9606.2	9040.9	7767.9	7704.7
22.5°	8902.5	8791.8	8922.3	9040.9	9353.2	9886.8	10060.8	9649.6	8416.3	8175.1
25°	10017.3	9942.2	9847.3	9673.4	9803.8	10037.0	10301.9	10100.3	8969.7	8700.9
27.5°	11104.4	11108.4	10902.8	10523.3	10242.6	10290.0	10602.3	10495.6	9436.2	9317.6
30°	12650.1	12555.2	12325.9	11812.0	11262.5	10811.9	10760.5	10863.3	10029.1	9799.9
32.5°	13808.4	13828.1	13504.0	12764.7	12013.6	11646.0	11195.3	11238.8	10404.7	10234.7
35°	14745.2	14721.5	14492.2	13879.5	12990.1	12547.3	11938.5	11689.5	11278.3	11009.5
37.5°	15757.3	15563.6	15192.0	14500.2	13930.9	13318.2	12725.2	12163.8	11859.4	11535.3
40°	16164.4	16164.4	15666.3	15350.1	14674.1	14211.6	13828.1	12788.4	12567.1	12503.8
42.5°	15875.8	16053.7	15848.2	15488.4	15211.7	14626.7	14523.9	13436.8	13440.7	13314.2
45°	15848.2	15603.1	15433.1	15524.0	15393.6	15361.9	15622.8	14334.1	14357.8	14342.0
47.5°	15053.6	14942.9	15195.9	15346.1	15452.9	15943.1	16694.2	15405.4	15575.4	15456.8
50°	14263.0	14243.2	14401.3	14946.9	15409.4	16215.8	17714.1	17057.8	17615.2	17607.3
52.5°	12096.6	12306.2	12926.8	14081.1	15223.6	16587.4	18484.9	19168.8	20232.2	20520.8
55°	10025.2	9914.5	10831.6	12507.8	14413.2	16733.7	19346.7	20437.8	22003.2	22212.7
57.5°	7799.6	8005.1	8728.6	10337.5	12737.0	16010.3	19979.2	21690.9	24003.5	24165.6
60°	5819.0	5846.7	6641.3	7937.9	10507.5	14377.6	20184.8	22975.7	26296.4	26758.9
62.5°	3660.6	3826.6	4431.5	5708.3	7910.3	12092.7	19263.7	23754.5	28699.9	28822.4
65°	1972.6	2079.4	2534.0	3336.5	5526.5	9147.6	16820.7	23288.0	29830.5	30557.8
67°	1458.7	1478.5	1688.0	2130.7	3696.2	6886.4	14025.8	21600.0	30344.4	30874.1
67.5°	1367.8	1395.5	1561.5	1913.3	3277.2	6340.9	13294.4	20999.1	30115.1	30684.3
70°	1170.1	1178.0	1217.6	1316.4	1838.2	3814.8	9052.7	17208.1	27913.2	28458.7
72.5°	1039.7	1047.6	1063.4	1083.2	1245.2	2205.9	5506.7	13243.1	24260.5	25130.2
75°	913.2	940.8	948.8	932.9	1059.4	1435.0	2929.3	9732.7	19789.5	20212.5
77.5°	774.8	786.7	802.5	818.3	944.8	1071.3	1407.3	6570.1	13583.0	13326.1
80°	652.3	656.2	668.1	679.9	818.3	818.3	798.5	3549.9	5933.7	5672.8
82.5°	466.5	494.1	521.8	553.4	679.9	549.5	521.8	1581.3	1877.7	1786.8
85°	181.8	221.4	343.9	379.5	430.9	296.5	347.9	683.9	782.7	774.8
87.5°	31.6	35.6	94.9	146.3	158.1	102.8	166.0	245.1	292.5	316.3
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°
3549.9	0°	3549.9	3549.9	3549.9	3549.9	3549.9	3549.9	3549.9	3549.9	3549.9	3549.9
3696.2	2.5°	3581.6	3459.0	3312.7	3166.5	3071.6	2921.4	2909.5	2818.6	2806.7	2775.1
3814.8	5°	3609.2	3463.0	3166.5	2933.2	2826.5	2739.5	2759.3	2719.8	2707.9	2688.1
4079.7	7.5°	3826.6	3538.1	3095.3	2893.7	2814.6	2775.1	2775.1	2727.7	2692.1	2715.8
4403.8	10°	3969.0	3573.6	3150.7	2949.0	2885.8	2798.8	2830.5	2771.2	2790.9	2743.5
4779.4	12.5°	4198.2	3775.3	3265.3	3032.1	2929.3	2850.2	2881.8	2814.6	2798.8	2802.8
5182.6	15°	4506.6	3909.7	3316.7	3079.5	3008.3	2909.5	2885.8	2826.5	2767.2	2747.4
5625.3	17.5°	4795.2	4075.7	3352.3	3107.2	2992.5	2881.8	2854.2	2779.1	2759.3	2700.0
6127.4	20°	5139.1	4273.4	3399.7	3130.9	2933.2	2822.5	2751.4	2676.3	2609.1	2573.5
6582.0	22.5°	5368.4	4376.1	3423.4	3083.5	2846.3	2743.5	2593.3	2541.9	2447.0	2407.5
7020.8	25°	5743.9	4502.6	3364.1	2953.0	2692.1	2526.1	2391.7	2320.5	2253.3	2201.9
7321.2	27.5°	5838.8	4597.5	3225.8	2731.6	2447.0	2273.1	2158.4	2071.5	2028.0	1948.9
7752.1	30°	6115.5	4502.6	3020.2	2462.8	2213.8	2035.9	1921.2	1858.0	1755.2	1735.4
8096.1	32.5°	6293.4	4530.3	2759.3	2201.9	1944.9	1786.8	1711.7	1648.5	1620.8	1525.9
8621.8	35°	6589.9	4435.4	2494.4	1960.8	1723.6	1601.0	1537.8	1518.0	1427.1	1383.6
9072.5	37.5°	6779.7	4380.1	2229.6	1688.0	1482.4	1431.0	1450.8	1367.8	1257.1	1174.1
9649.6	40°	7111.7	4360.3	1929.1	1462.7	1316.4	1304.5	1367.8	1209.7	1008.1	936.9
10341.4	42.5°	7590.0	4225.9	1695.9	1261.1	1185.9	1237.3	1249.2	1008.1	893.4	834.1
11270.4	45°	8048.6	4253.6	1466.6	1043.6	1031.8	1106.9	1079.2	853.9	786.7	743.2
12341.7	47.5°	8930.2	4391.9	1241.3	869.7	929.0	1000.1	838.1	763.0	699.7	668.1
14282.7	50°	10294.0	4526.4	1043.6	794.6	877.6	905.3	719.5	691.8	687.8	624.6
15891.7	52.5°	11112.3	4475.0	1008.1	889.5	940.8	905.3	782.7	763.0	731.3	703.7
17544.1	55°	12412.9	4625.2	1083.2	1039.7	1067.4	869.7	877.6	869.7	846.0	774.8
19461.4	57.5°	13448.6	4724.0	1182.0	1162.2	1146.4	905.3	917.1	921.1	905.3	873.6
21469.6	60°	14871.7	4921.7	1284.8	1288.7	1292.7	984.3	1004.1	1027.8	1023.9	1012.0
23493.6	62.5°	15745.4	4830.7	1399.4	1462.7	1442.9	1146.4	1142.5	1158.3	1158.3	1178.0
24394.9	65°	15614.9	4494.7	1458.7	1616.8	1514.1	1265.0	1265.0	1272.9	1276.9	1316.4
24430.5	67°	14832.2	3893.9	1427.1	1640.6	1514.1	1312.4	1312.4	1320.4	1292.7	1395.5
24153.7	67.5°	14468.5	3716.0	1399.4	1620.8	1502.2	1308.5	1308.5	1312.4	1288.7	1387.6
22212.7	70°	12582.9	2759.3	1205.7	1435.0	1391.5	1272.9	1272.9	1249.2	1229.4	1359.9
19164.9	72.5°	10740.7	2004.2	968.5	1221.5	1257.1	1225.5	1233.4	1174.1	1118.7	1209.7
14903.4	75°	8226.5	1474.5	755.1	940.8	1063.4	1146.4	1197.8	1047.6	976.4	1000.1
8060.5	77.5°	4589.6	960.6	596.9	695.8	810.4	1067.4	1150.4	944.8	798.5	770.9
2723.7	80°	1557.5	561.3	438.8	517.9	557.4	944.8	1075.3	766.9	628.6	600.9
921.1	82.5°	589.0	343.9	300.4	355.8	355.8	747.1	877.6	589.0	474.4	612.7
343.9	85°	268.8	205.6	197.7	205.6	205.6	458.6	620.6	383.5	426.9	367.6
126.5	87.5°	106.7	98.8	90.9	87.0	71.2	79.1	213.5	102.8	193.7	51.4
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°  
3549.9  
2790.9  
2656.5  
2739.5  
2743.5  
2790.9  
2771.2  
2652.6  
2589.3  
2375.8  
2186.1  
1933.1  
1691.9  
1502.2  
1344.1  
1146.4  
897.4  
806.4  
766.9  
672.0  
620.6  
672.0  
794.6  
901.3  
1019.9  
1189.9  
1320.4  
**1363.8**  
1355.9  
1332.2  
1185.9  
956.7  
770.9  
581.1  
624.6  
324.2  
47.4  
0.0

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