

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: P575424

Luminaire Tested: **EPH-VN-06-750-U-SL3-HSS**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P575424  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 10/19/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-VN-06-750-U-SL3-HSS  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL3 distribution lens and House Side Shield  
Light Source: (96) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

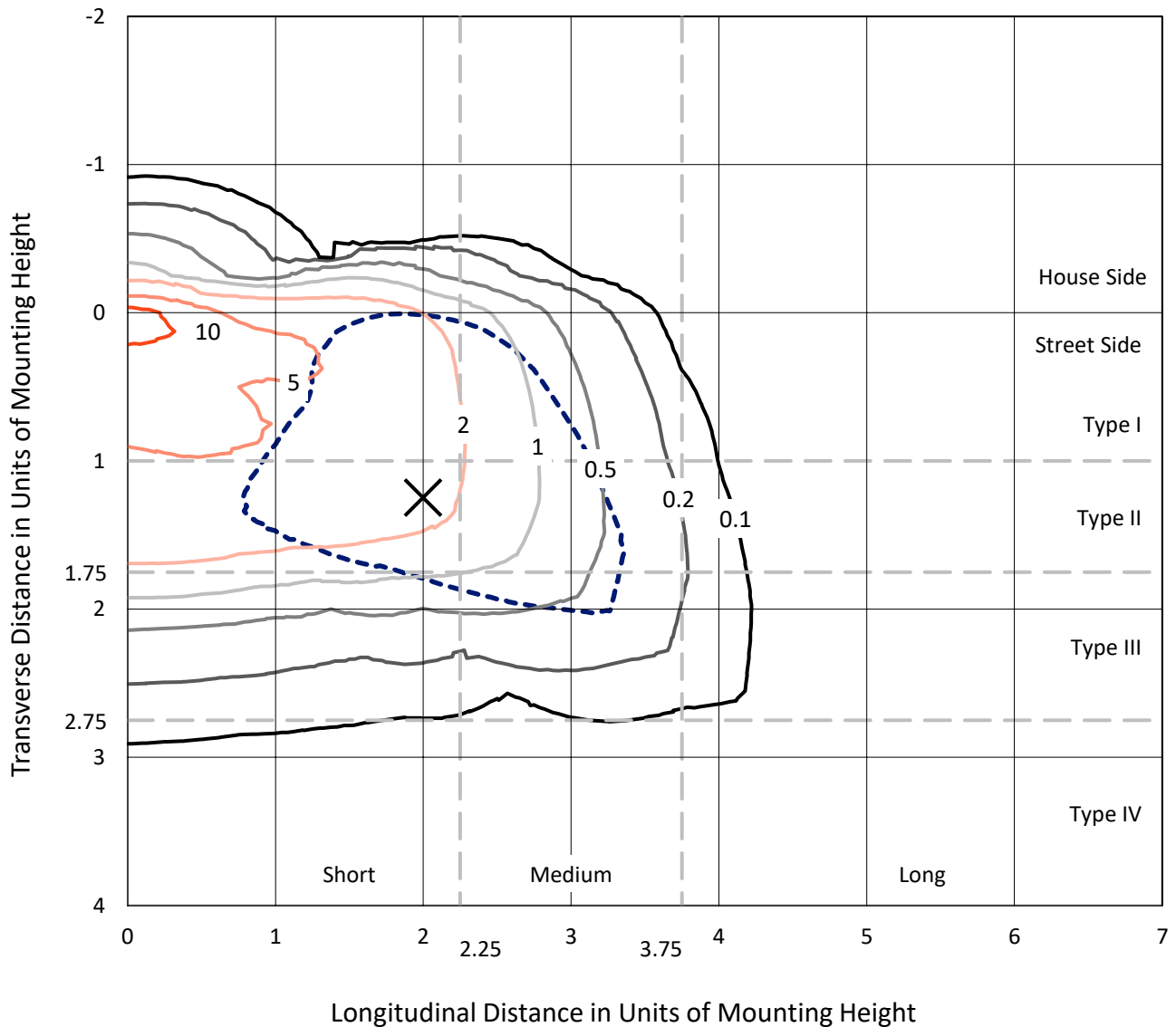
Lumens per Lamp: N/A  
Luminaire Lumens: 39112.8 lumens  
Efficiency: N/A  
Efficacy: 106.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 368.2  
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

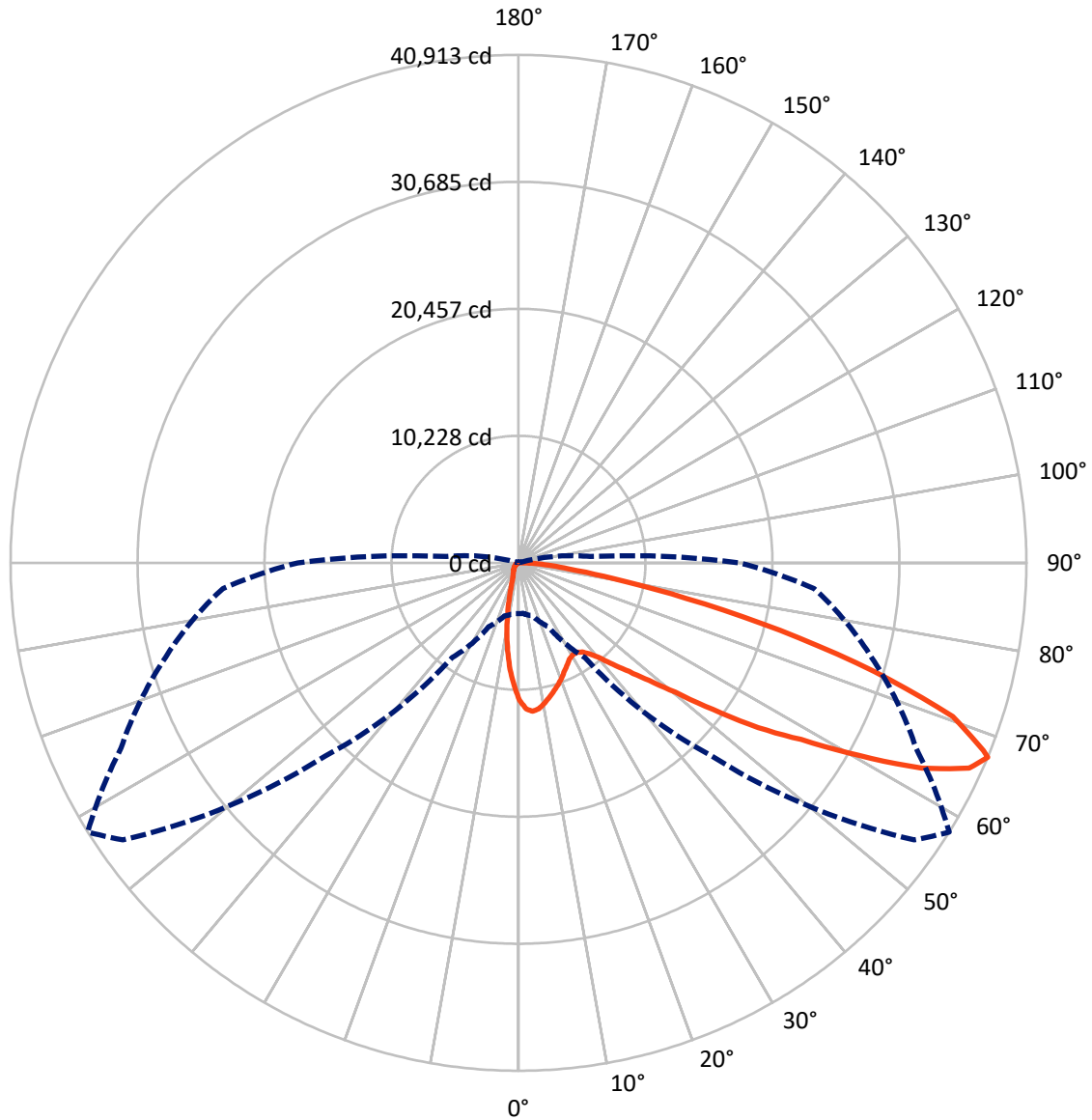
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.3 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 67-Deg Vertical

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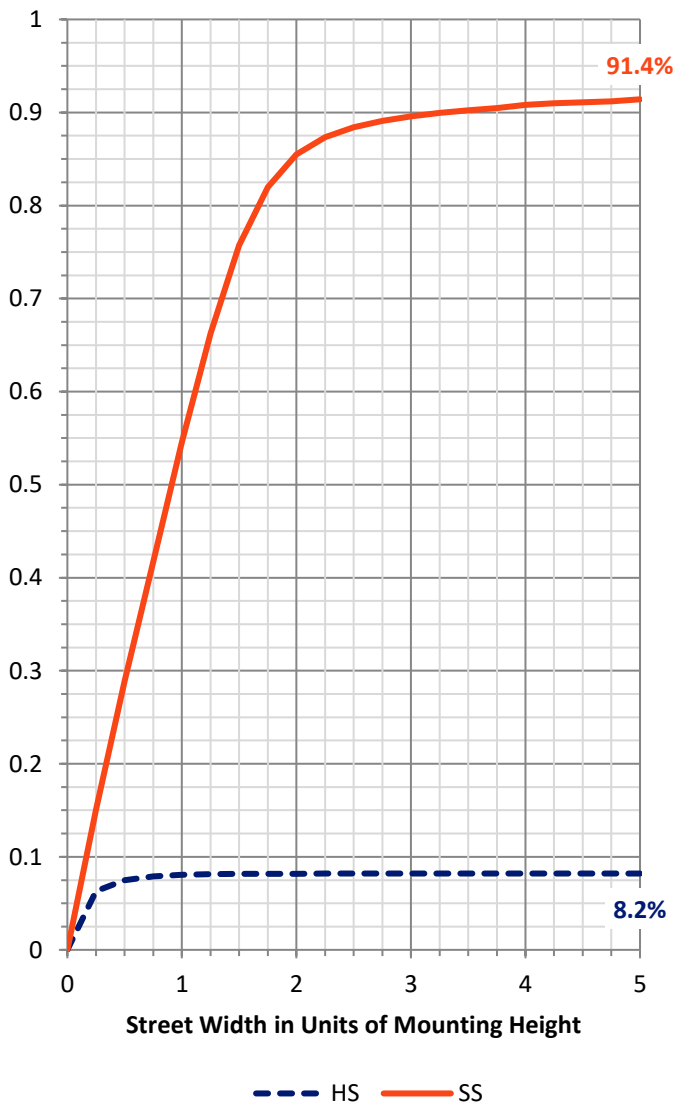
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3232.9	0.0	3232.9
	% Fixture	8.3	0.0	8.3
<b>Street Side</b>	Lumens	35879.9	0.0	35879.9
	% Fixture	91.7	0.0	91.7
<b>Total</b>	Lumens	39112.8	0.0	39112.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	879.2	2.2
10°-20°	1823.7	4.7
20°-30°	2419.7	6.2
30°-40°	3352.9	8.6
40°-50°	5470.9	14.0
50°-60°	9616.2	24.6
60°-70°	10650.7	27.2
70°-80°	4413.6	11.3
80°-90°	485.9	1.2
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°	39112.8	100.0
0°-180°	39112.8	100.0

**Coefficient of Utilization**

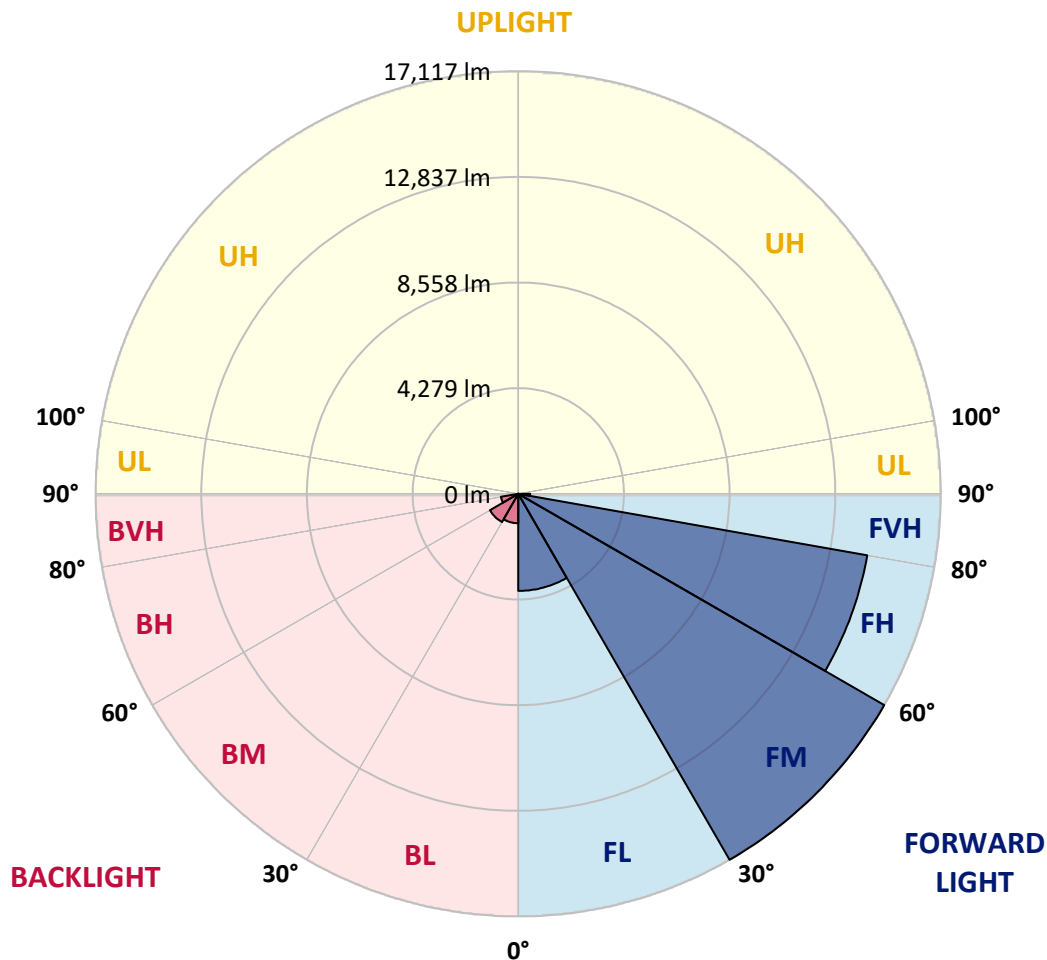


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3931.9	10.1			
FM (30°-60°)	17116.5	43.8			
FH (60°-80°)	14353.5	36.7			G5
FVH (80°-90°)	477.9	1.2			G3/500
BL (0°-30°)	1190.7	3.0	B3/2500		
BM (30°-60°)	1323.4	3.4	B2/2500		
BH (60°-80°)	710.8	1.8	B2/1000		G2/1000
BVH (80°-90°)	8.0	0.0			G0/10
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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°
0°	11081.2	11081.2	11081.2	11081.2	11081.2	11081.2	11081.2	11081.2	11081.2	11081.2
2.5°	12057.4	12099.0	12135.3	12067.8	12124.9	12041.8	11828.9	11782.2	11745.9	11429.1
5°	12052.2	12005.5	12041.8	12073.0	11995.1	12057.4	12005.5	12010.7	11870.5	11584.9
7.5°	11247.4	11226.6	11247.4	11397.9	11569.3	11704.3	11782.2	11860.1	11766.6	11340.8
10°	10162.1	10265.9	10323.1	10593.1	10857.9	11107.2	11351.2	11496.6	11470.6	11299.3
12.5°	9404.0	9372.8	9580.5	9757.1	10021.9	10525.6	10951.4	11086.4	11242.2	11003.3
15°	8702.9	8619.9	8744.5	9050.9	9502.6	9902.5	10499.6	10702.1	10899.4	10961.8
17.5°	8033.1	8074.6	8204.4	8479.7	8905.5	9466.3	10027.1	10317.9	10790.4	10707.3
20°	7711.1	7799.4	7846.1	7986.4	8282.3	8843.1	9679.2	9912.8	10416.5	10702.1
22.5°	7726.7	7726.7	7617.7	7700.8	7970.8	8407.0	9206.6	9466.3	10265.9	10432.1
25°	7892.9	7789.0	7794.2	7695.6	7809.8	8048.7	8780.8	9097.6	9959.6	10458.1
27.5°	8017.5	7996.7	7965.6	7939.6	7794.2	7830.6	8500.4	8760.1	9840.1	10426.9
30°	8469.3	8375.8	8344.6	8287.5	8095.4	7918.8	8277.1	8604.3	9746.7	10499.6
32.5°	8848.3	8863.9	8889.9	8723.7	8557.5	8121.4	8339.5	8599.1	9679.2	10665.8
35°	9326.1	9393.6	9404.0	9352.0	9175.5	8744.5	8599.1	8822.4	9793.4	10961.8
37.5°	10053.0	9980.3	10177.7	10198.4	10073.8	9502.6	9201.4	9289.7	10130.9	11434.3
40°	10525.6	10613.8	10982.5	11211.0	10998.1	10478.8	10073.8	10058.2	10619.0	12176.8
42.5°	11050.0	11247.4	11652.4	12145.7	12119.7	11636.8	11226.6	11159.1	11486.2	13251.7
45°	11766.6	11943.2	12509.2	13251.7	13656.8	13246.5	12628.6	12493.6	12540.3	14716.1
47.5°	12955.8	12909.0	13724.3	14456.4	15121.1	14804.3	14539.5	14144.9	14108.5	16440.0
50°	14300.7	14290.3	15017.2	15848.1	16616.6	17234.5	16793.1	16362.2	16372.5	18781.9
52.5°	15578.1	15780.6	16564.7	17390.3	18709.2	19373.9	19799.7	19628.4	18802.7	20874.6
55°	16253.1	16429.7	17208.6	18631.4	20713.6	22422.0	23574.8	23429.4	21835.2	23232.1
57.5°	15614.4	15733.8	16788.0	18652.1	22115.6	25927.1	27033.1	26851.4	24971.6	25033.9
60°	12940.2	13127.1	14695.3	16881.4	21570.4	28627.3	31794.8	31519.6	27827.6	27313.5
62.5°	8962.6	9087.2	10375.0	13096.0	18984.5	29567.2	36291.7	36442.3	30839.4	29089.4
65°	5805.4	5795.0	6532.4	8375.8	13454.2	26721.6	38950.3	39885.0	33747.3	29359.4
67°	4102.2	4086.6	4434.6	5680.8	9315.7	22017.0	38903.6	40913.2	35325.8	29437.3
67.5°	3785.5	3769.9	4102.2	5223.8	8407.0	20474.8	38322.0	40383.5	35881.5	29328.3
70°	2939.1	2897.5	3022.1	3598.5	4896.7	13241.3	32797.0	37096.5	34728.7	26607.3
72.5°	2123.8	2170.5	2367.9	2954.6	3842.6	7124.4	24997.6	29998.1	29006.3	20054.2
75°	1479.9	1521.5	1838.2	2409.4	3525.8	4320.3	16902.2	21757.4	20204.7	11070.8
77.5°	773.7	825.6	1173.5	1926.5	3203.9	3344.1	10099.8	13797.0	10707.3	3941.2
80°	358.3	384.3	586.8	1365.7	2679.4	2939.1	5888.5	7674.8	4284.0	882.8
82.5°	155.8	171.4	270.0	784.1	1900.5	2570.4	3645.3	4024.3	1552.6	285.6
85°	31.2	36.3	103.9	415.4	919.1	1557.8	2560.0	2388.6	778.9	140.2
87.5°	0.0	0.0	26.0	119.4	249.2	462.1	1085.3	1085.3	238.9	72.7
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°
11081.2	0°	11081.2	11081.2	11081.2	11081.2	11081.2	11081.2	11081.2	11081.2	11081.2	11081.2
11247.4	2.5°	11086.4	10899.4	10489.2	10110.2	9840.1	9533.8	9128.7	8947.0	8879.5	8786.0
11076.0	5°	10795.6	10567.1	9866.1	9159.9	8386.2	7799.4	7176.3	6812.8	6537.6	6366.2
10847.5	7.5°	10385.4	9918.0	8973.0	7841.0	6838.8	5966.4	5021.3	4382.6	3972.4	3806.2
10598.3	10°	10058.2	9450.7	8012.3	6605.1	5270.6	3993.2	2928.7	2367.9	1942.1	1781.1
10271.1	12.5°	9632.4	8905.5	7114.0	5343.3	3666.0	2378.3	1620.1	1407.2	1287.8	1267.0
10094.6	15°	9279.3	8412.2	6262.4	4138.6	2373.1	1485.1	1261.8	1209.9	1178.7	1168.4
9829.8	17.5°	9040.5	7882.5	5390.0	3011.8	1563.0	1215.1	1163.2	1132.0	1116.4	1111.2
9570.1	20°	8567.9	7435.9	4528.0	2108.2	1220.3	1121.6	1080.1	1054.1	1038.5	1033.3
9336.4	22.5°	8297.9	6869.9	3666.0	1469.5	1085.3	1017.8	986.6	965.8	939.9	924.3
9211.8	25°	8027.9	6454.5	2897.5	1142.4	986.6	939.9	893.1	867.2	825.6	804.9
9019.7	27.5°	7711.1	6044.3	2232.9	991.8	887.9	841.2	794.5	752.9	701.0	680.2
8910.6	30°	7529.4	5644.4	1682.4	887.9	815.3	752.9	695.8	643.9	586.8	550.4
9019.7	32.5°	7435.9	5281.0	1261.8	810.1	737.4	669.9	597.2	534.8	482.9	451.8
9030.1	35°	7321.7	4927.9	991.8	737.4	664.7	592.0	519.3	457.0	405.0	379.1
9424.7	37.5°	7441.1	4720.2	825.6	680.2	607.5	524.5	446.6	384.3	342.7	316.8
9912.8	40°	7768.3	4548.8	716.6	628.3	550.4	462.1	389.5	327.1	290.8	270.0
10686.5	42.5°	8271.9	4548.8	649.1	576.4	498.5	405.0	332.3	285.6	249.2	228.5
12005.5	45°	9185.9	4689.0	592.0	524.5	436.2	347.9	285.6	238.9	202.5	181.7
13828.1	47.5°	10468.5	5010.9	545.2	477.7	389.5	306.4	249.2	202.5	166.2	145.4
15972.7	50°	12192.4	5743.1	498.5	420.6	347.9	264.8	207.7	161.0	129.8	109.0
18267.9	52.5°	14342.2	6781.6	451.8	389.5	296.0	223.3	166.2	129.8	98.7	83.1
20531.9	55°	16616.6	8053.9	394.6	347.9	254.4	186.9	135.0	98.7	72.7	62.3
23268.4	57.5°	18906.6	9035.3	347.9	301.2	207.7	150.6	109.0	77.9	51.9	41.5
25028.7	60°	20121.7	9128.7	301.2	249.2	166.2	119.4	83.1	57.1	36.3	26.0
25553.2	62.5°	20308.6	8297.9	259.6	202.5	135.0	93.5	57.1	41.5	20.8	10.4
25392.2	65°	19347.9	6916.7	223.3	161.0	103.9	67.5	41.5	26.0	10.4	5.2
23901.9	67°	17790.1	5795.0	192.1	135.0	83.1	51.9	31.2	15.6	5.2	0.0
23247.7	67.5°	17187.8	5483.5	181.7	124.6	77.9	46.7	26.0	15.6	5.2	0.0
18563.9	70°	13340.0	3915.3	135.0	88.3	57.1	36.3	20.8	10.4	0.0	0.0
11797.8	72.5°	8173.3	2290.0	103.9	62.3	41.5	26.0	15.6	5.2	0.0	0.0
5026.5	75°	3427.2	789.3	88.3	46.7	31.2	15.6	10.4	5.2	0.0	0.0
1386.4	77.5°	893.1	296.0	62.3	31.2	20.8	15.6	10.4	5.2	0.0	0.0
477.7	80°	363.5	135.0	41.5	20.8	20.8	15.6	10.4	5.2	0.0	0.0
296.0	82.5°	238.9	62.3	26.0	20.8	15.6	10.4	5.2	0.0	0.0	0.0
233.7	85°	181.7	36.3	15.6	15.6	10.4	5.2	0.0	0.0	0.0	0.0
88.3	87.5°	77.9	20.8	15.6	10.4	10.4	0.0	0.0	0.0	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°
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