

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: P575384

Luminaire Tested: **EPH-VN-06-750-U-SL2-HSS**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P575384  
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-SL2-HSS  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL2 distribution lens and House Side Shield  
Light Source: (96) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

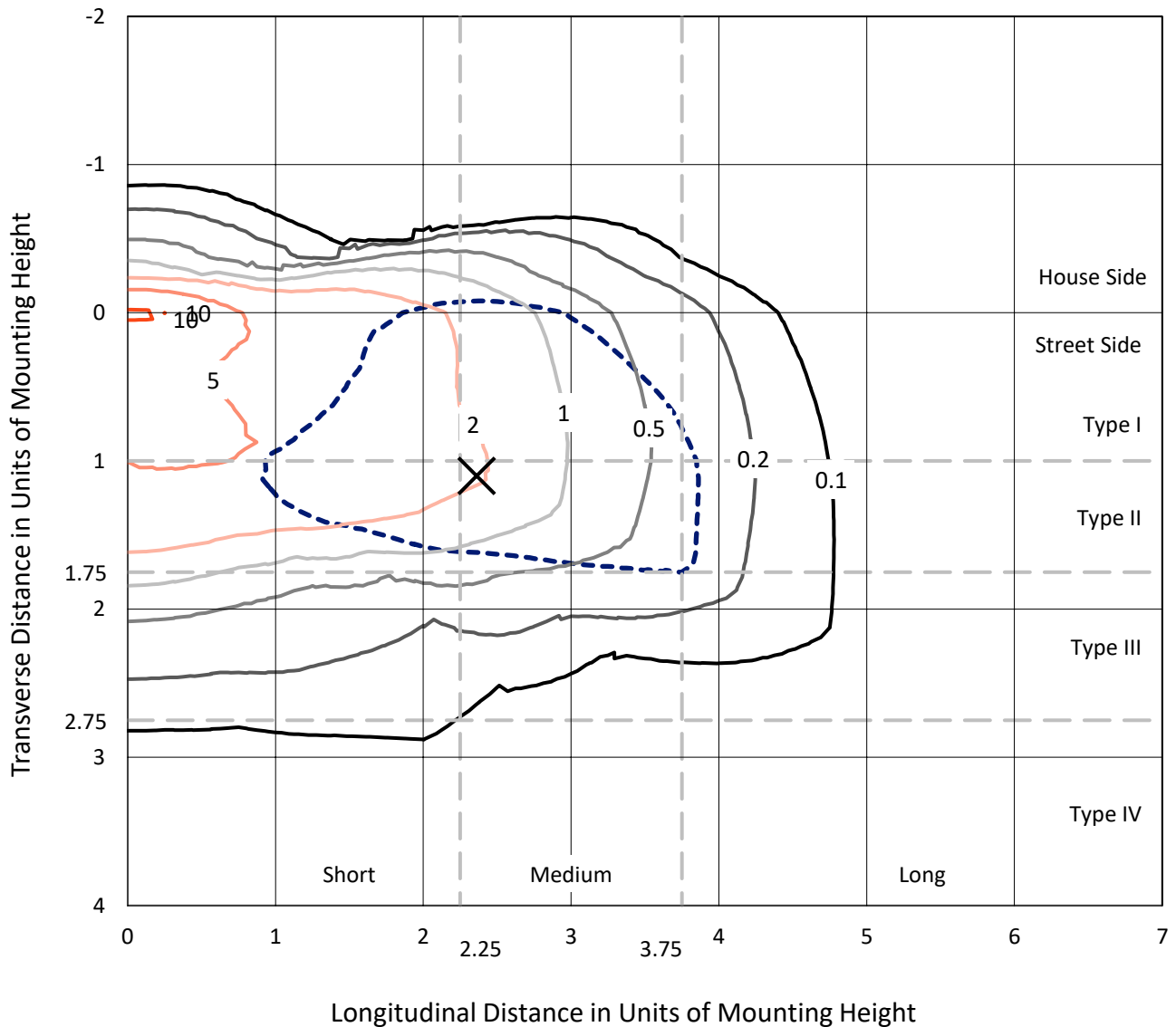
Lumens per Lamp: N/A  
Luminaire Lumens: 38493.5 lumens  
Efficiency: N/A  
Efficacy: 104.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G5

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

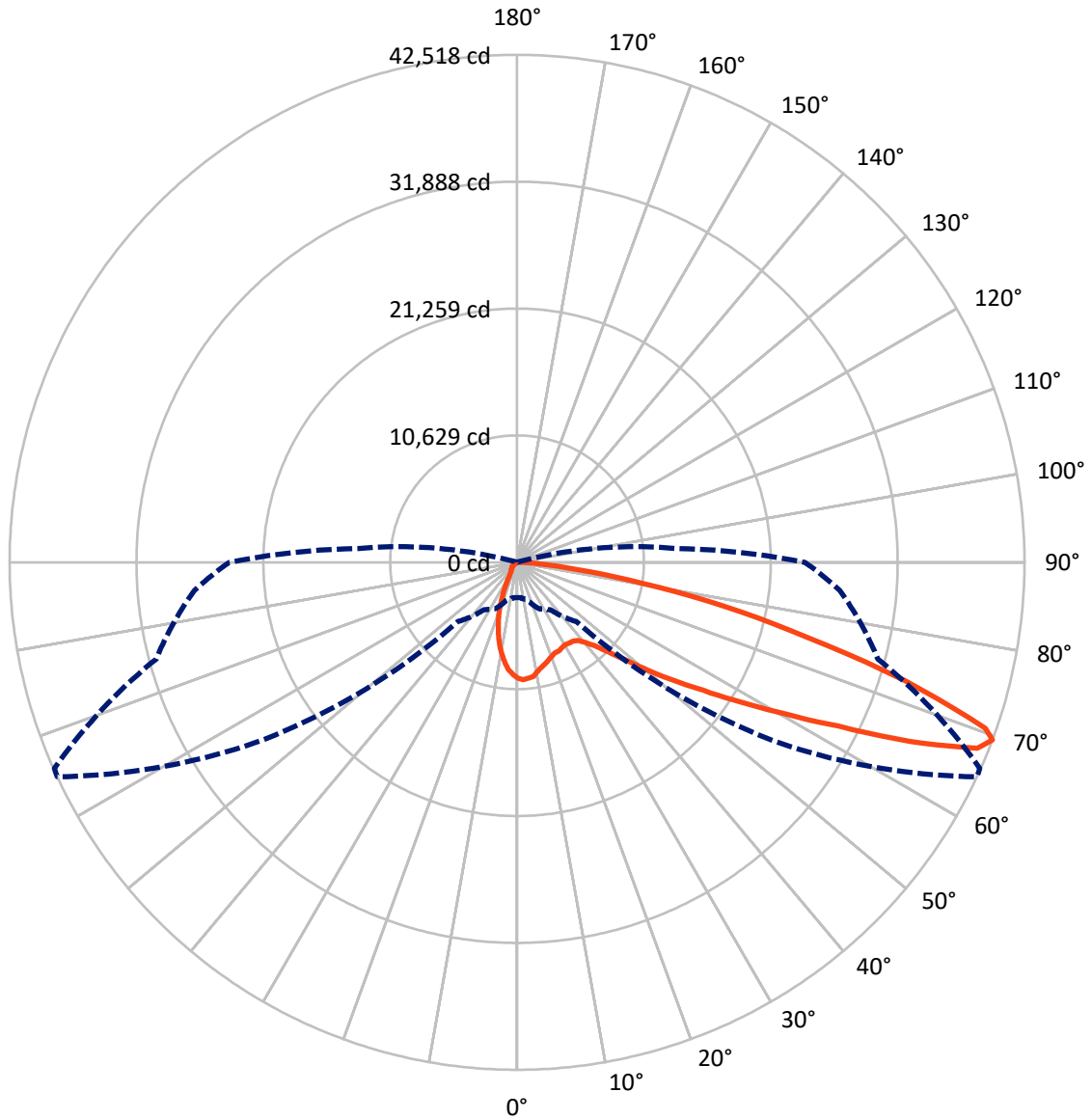
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.8 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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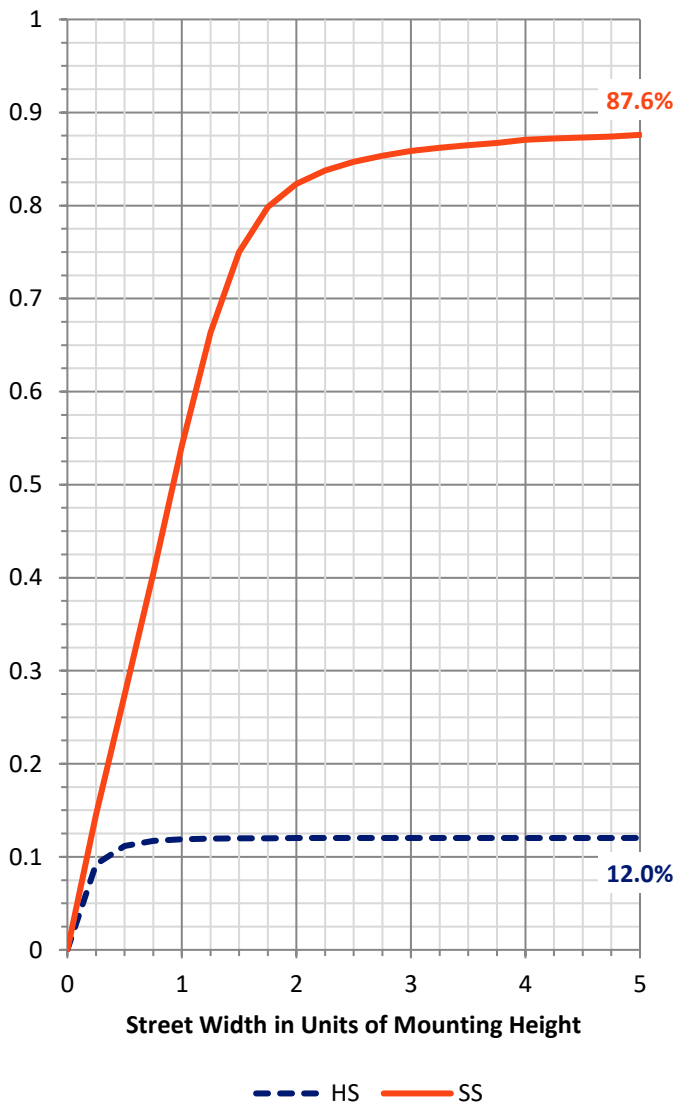
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4669.5	0.0	4669.5
	% Fixture	12.1	0.0	12.1
<b>Street Side</b>	Lumens	33824.0	0.0	33824.0
	% Fixture	87.9	0.0	87.9
<b>Total</b>	Lumens	38493.5	0.0	38493.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	794.2	2.1
10°-20°	1737.7	4.5
20°-30°	2419.2	6.3
30°-40°	3428.3	8.9
40°-50°	5402.9	14.0
50°-60°	8767.0	22.8
60°-70°	9791.0	25.4
70°-80°	5513.4	14.3
80°-90°	639.8	1.7
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°	38493.5	100.0
0°-180°	38493.5	100.0

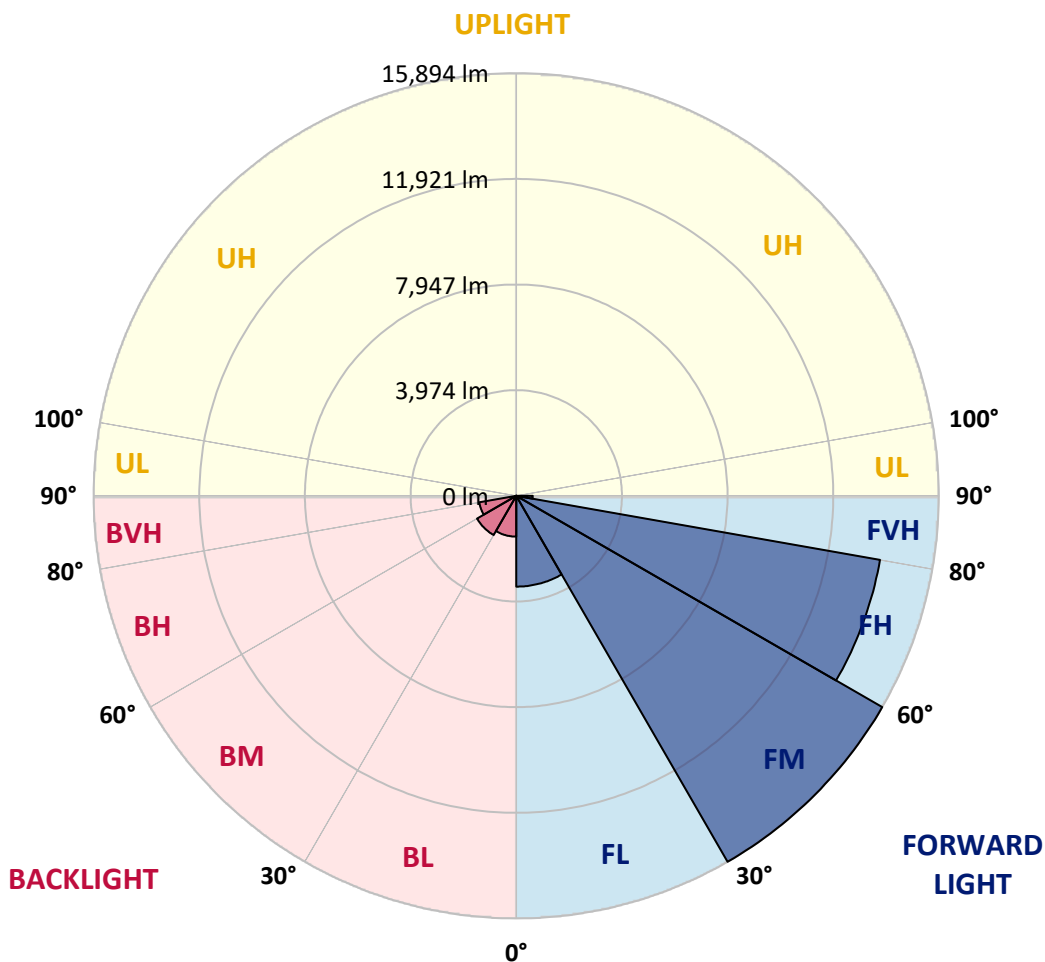


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3415.9	8.9			
FM (30°-60°)	15894.3	41.3			
FH (60°-80°)	13891.6	36.1			G5
FVH (80°-90°)	622.1	1.6			G4/750
BL (0°-30°)	1535.2	4.0	B3/2500		
BM (30°-60°)	1703.9	4.4	B2/2500		
BH (60°-80°)	1412.8	3.7	B3/2500		G3/2500
BVH (80°-90°)	17.7	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**  
 Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	9705.1	9705.1	9705.1	9705.1	9705.1	9705.1	9705.1	9705.1	9705.1	9705.1
2.5°	9346.8	9419.5	9440.3	9513.0	9549.3	9705.1	9793.4	9845.3	9819.3	9876.5
5°	8682.1	8640.6	8749.6	8827.5	8993.7	9263.7	9538.9	9751.8	9850.5	9944.0
7.5°	7970.7	7950.0	8059.0	8235.6	8386.2	8713.3	9154.7	9679.1	9658.4	9886.8
10°	7482.6	7503.4	7539.8	7716.3	7939.6	8271.9	8822.3	9310.5	9419.5	9902.4
12.5°	7036.1	7072.4	7139.9	7321.7	7581.3	7924.0	8458.9	9030.0	9196.2	9814.1
15°	6890.7	6807.6	6942.6	7077.6	7347.6	7654.0	8105.8	8817.1	8889.8	9710.3
17.5°	6771.2	6719.3	6781.6	6890.7	7176.3	7425.5	7851.3	8588.7	8723.7	9668.7
20°	6807.6	6760.9	6786.8	6869.9	6999.7	7233.4	7628.0	8370.6	8516.0	9476.6
22.5°	6911.4	6947.8	6901.1	6921.8	6963.4	7082.8	7508.6	8214.8	8339.4	9440.3
25°	7378.8	7316.5	7254.2	7228.2	6984.1	7036.1	7472.2	8204.4	8292.7	9310.5
27.5°	7866.9	7815.0	7789.0	7638.4	7306.1	7150.3	7477.4	8059.0	8178.4	9258.5
30°	8458.9	8526.4	8422.5	8240.8	7778.6	7394.4	7534.6	7986.3	8152.5	9061.2
32.5°	9082.0	9118.3	9170.2	9035.2	8438.1	7763.0	7705.9	8053.8	8064.2	9061.2
35°	9788.2	9736.2	9871.3	9881.6	9357.2	8417.3	8033.1	8100.6	8209.6	9019.7
37.5°	10395.7	10484.0	10639.8	10889.0	10349.0	9341.6	8541.9	8318.7	8365.4	9211.8
40°	11060.4	11148.7	11501.8	11751.0	11444.6	10380.1	9315.6	8827.5	8863.9	9497.4
42.5°	11792.5	11963.9	12384.5	12820.7	12737.6	11699.1	10312.6	9575.3	9559.7	10208.8
45°	12784.3	13012.8	13469.8	13973.5	14046.2	13210.1	11642.0	10691.7	10743.6	11138.3
47.5°	14165.6	14155.2	14601.8	15162.6	15583.2	14778.3	13230.9	12192.4	12187.2	12607.8
50°	15500.1	15505.3	15624.7	16273.8	17364.3	16954.1	15198.9	14186.4	14129.2	14337.0
52.5°	16118.0	16045.3	15957.1	16741.2	18735.1	19695.8	17691.4	16445.2	16398.4	16273.8
55°	15469.0	15494.9	15489.7	16305.0	19456.9	22588.1	20890.1	18932.5	18854.6	18465.1
57.5°	13386.7	13303.6	13485.4	14757.6	18631.3	24561.3	25464.8	22068.8	21866.3	20573.3
60°	9964.7	9990.7	10141.3	11642.0	16580.2	24976.7	29842.3	25750.4	24878.1	22058.4
62.5°	6958.2	6906.2	6963.4	7804.6	11854.9	23315.1	32802.1	30226.5	29385.3	23746.1
65°	4979.8	4912.3	5140.7	5654.8	7119.1	17826.4	33222.7	36187.7	35434.8	26441.1
67.5°	3582.9	3572.6	3837.4	4772.1	5057.7	10265.9	30107.1	41588.1	41131.1	29639.7
69°	2965.0	2970.2	3224.6	4273.6	4829.2	7010.1	25906.2	42517.5	42434.5	31291.0
70°	2585.9	2606.7	2902.7	3977.6	4735.7	5763.9	22333.7	41603.6	41520.6	31613.0
72.5°	1594.1	1609.7	1999.2	3188.3	4502.0	4704.6	13355.5	34037.9	34323.5	30138.2
75°	763.3	768.5	1048.9	2305.5	4341.1	4460.5	7155.5	25116.9	25719.3	24332.8
77.5°	405.0	405.0	503.7	1225.5	3515.4	4195.7	4247.6	17717.4	18215.9	15385.9
80°	202.5	207.7	306.4	638.7	2180.9	4112.6	3318.1	10567.1	10837.1	6277.9
82.5°	77.9	83.1	145.4	384.3	1132.0	3473.9	2913.1	5197.9	5130.4	1469.5
85°	10.4	10.4	51.9	228.5	482.9	1531.8	2404.2	2170.5	2097.8	321.9
87.5°	0.0	0.0	10.4	67.5	145.4	446.6	929.5	597.2	664.7	88.3
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°
9705.1	0°	9705.1	9705.1	9705.1	9705.1	9705.1	9705.1	9705.1	9705.1	9705.1	9705.1
9881.6	2.5°	9855.7	9746.6	9580.5	9419.5	9248.1	9040.4	8812.0	8728.9	8583.5	8573.1
9928.4	5°	9845.3	9668.7	9378.0	9035.2	8547.1	8178.4	7778.6	7487.8	7264.5	7119.1
9954.3	7.5°	9897.2	9684.3	9180.6	8443.3	7815.0	7082.8	6464.9	6039.1	5649.6	5457.5
10037.4	10°	9814.1	9528.5	8791.2	7757.8	6833.5	5810.6	4907.1	4335.9	3754.3	3541.4
10084.2	12.5°	9860.9	9461.0	8370.6	7051.6	5779.4	4450.1	3370.0	2591.1	2045.9	1869.4
10162.0	15°	9892.0	9315.6	7965.5	6205.2	4611.1	3032.5	1952.4	1469.5	1298.2	1267.0
10151.7	17.5°	9772.6	9139.1	7394.4	5369.2	3416.8	1843.4	1298.2	1199.5	1168.3	1147.6
10136.1	20°	9767.4	9035.2	6901.1	4512.4	2279.6	1256.6	1121.6	1085.3	1038.5	1023.0
10224.4	22.5°	9679.1	8817.1	6309.1	3572.6	1453.9	1080.1	1007.4	950.3	898.3	877.6
10151.7	25°	9653.2	8562.7	5753.5	2684.6	1106.0	965.8	893.1	810.1	747.7	716.6
10063.4	27.5°	9580.5	8344.6	5192.7	1890.1	965.8	862.0	768.5	680.2	607.5	560.8
10006.3	30°	9320.8	8116.1	4569.5	1308.6	877.6	763.3	659.5	555.6	482.9	451.8
9876.5	32.5°	9211.8	7903.2	3889.3	1007.4	799.7	675.0	555.6	462.1	405.0	373.9
9829.7	35°	9082.0	7591.7	3229.8	877.6	727.0	586.8	467.3	389.4	342.7	316.8
9866.1	37.5°	9097.6	7342.4	2611.9	794.5	649.1	503.7	399.8	332.3	290.8	264.8
10053.0	40°	9050.8	7145.1	2030.3	721.8	576.4	431.0	337.5	280.4	244.1	218.1
10437.3	42.5°	9263.7	7093.2	1531.8	659.5	503.7	368.7	290.8	238.9	202.5	171.4
11231.7	45°	9622.0	7176.3	1194.3	602.3	431.0	316.8	249.2	197.3	161.0	140.2
12410.5	47.5°	10577.5	7503.4	934.7	555.6	368.7	275.2	207.7	161.0	129.8	109.0
14020.2	50°	11963.9	8235.6	794.5	488.1	311.6	233.7	171.4	124.6	103.9	83.1
16190.7	52.5°	13937.1	9466.2	721.8	431.0	259.6	192.1	135.0	98.7	77.9	62.3
18579.4	55°	16086.9	11003.3	654.3	363.5	218.1	155.8	109.0	77.9	57.1	41.5
20313.7	57.5°	17764.1	12332.6	597.2	301.2	176.6	124.6	83.1	57.1	41.5	26.0
21700.2	60°	19597.1	13267.3	524.5	238.9	145.4	93.5	62.3	41.5	31.2	15.6
23538.4	62.5°	21487.3	14362.9	431.0	186.9	114.2	72.7	46.7	31.2	20.8	5.2
25942.6	65°	24114.7	15219.7	332.3	145.4	88.3	51.9	36.3	26.0	10.4	0.0
27406.9	67.5°	24857.3	14799.1	244.1	114.2	62.3	36.3	26.0	15.6	5.2	0.0
27131.7	69°	24114.7	13329.6	212.9	98.7	51.9	31.2	20.8	10.4	5.2	0.0
26223.0	70°	22759.5	12187.2	186.9	83.1	46.7	31.2	15.6	10.4	5.2	0.0
22593.3	72.5°	19036.3	9346.8	145.4	62.3	36.3	26.0	15.6	10.4	0.0	0.0
17655.1	75°	13963.1	5774.2	109.0	46.7	31.2	20.8	15.6	10.4	0.0	0.0
10037.4	77.5°	7482.6	2108.2	77.9	31.2	20.8	15.6	15.6	10.4	0.0	0.0
3126.0	80°	2051.1	623.1	57.1	20.8	15.6	10.4	10.4	5.2	0.0	0.0
763.3	82.5°	560.8	161.0	36.3	20.8	15.6	10.4	5.2	0.0	0.0	0.0
368.7	85°	301.2	62.3	20.8	15.6	10.4	5.2	0.0	0.0	0.0	0.0
181.7	87.5°	155.8	20.8	15.6	10.4	10.4	5.2	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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