

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: P575374

Luminaire Tested: **EPH-VN-08-735-U-SL2-HSS**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P575374  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 10/19/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-VN-08-735-U-SL2-HSS  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL2 distribution lens and House Side Shield  
Light Source: (128) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

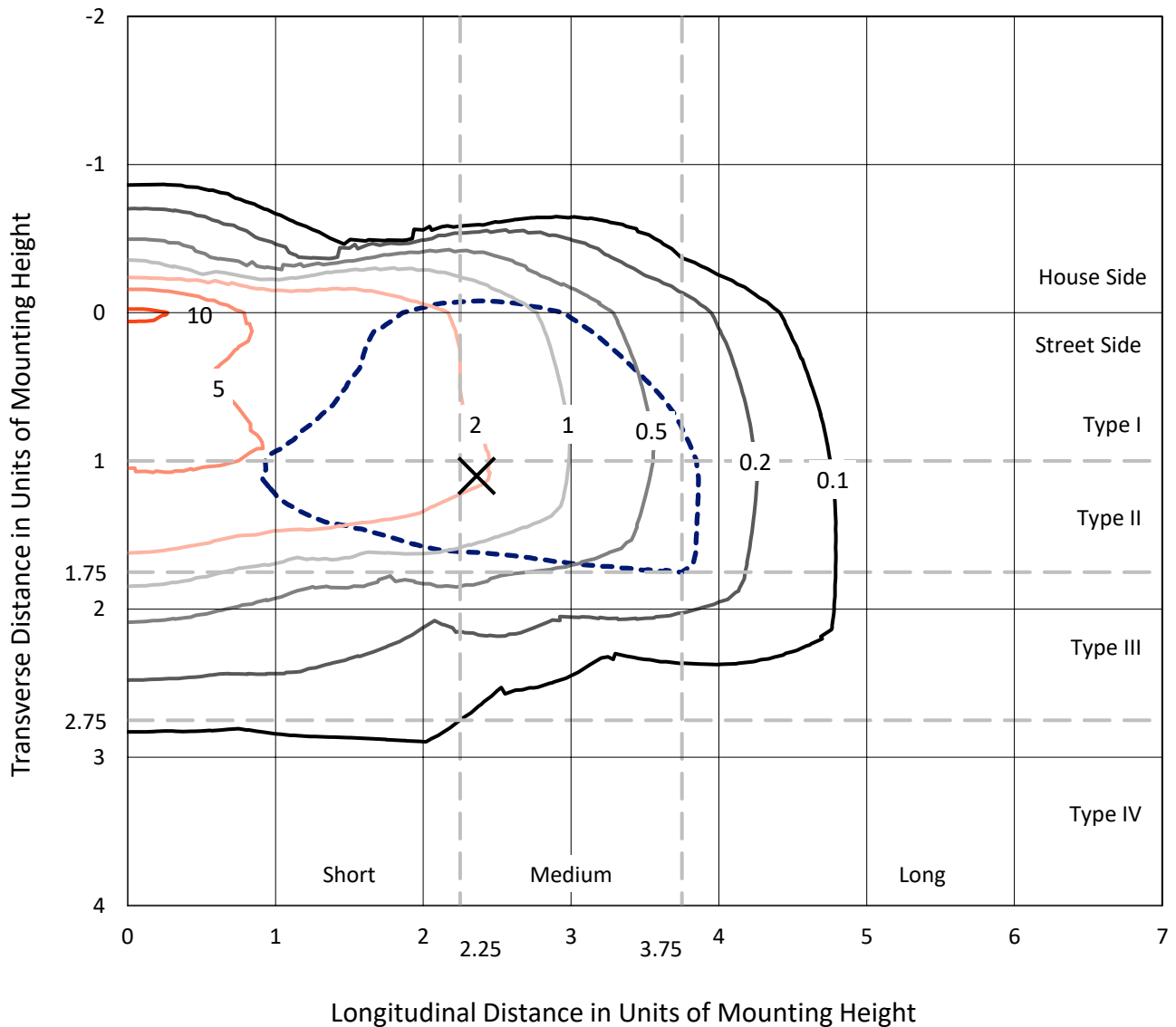
Lumens per Lamp: N/A  
Luminaire Lumens: 39104.5 lumens  
Efficiency: N/A  
Efficacy: 80.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G5

Input Watts (W): 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

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### Iso-Footcandle Lines of Horizontal Illumination

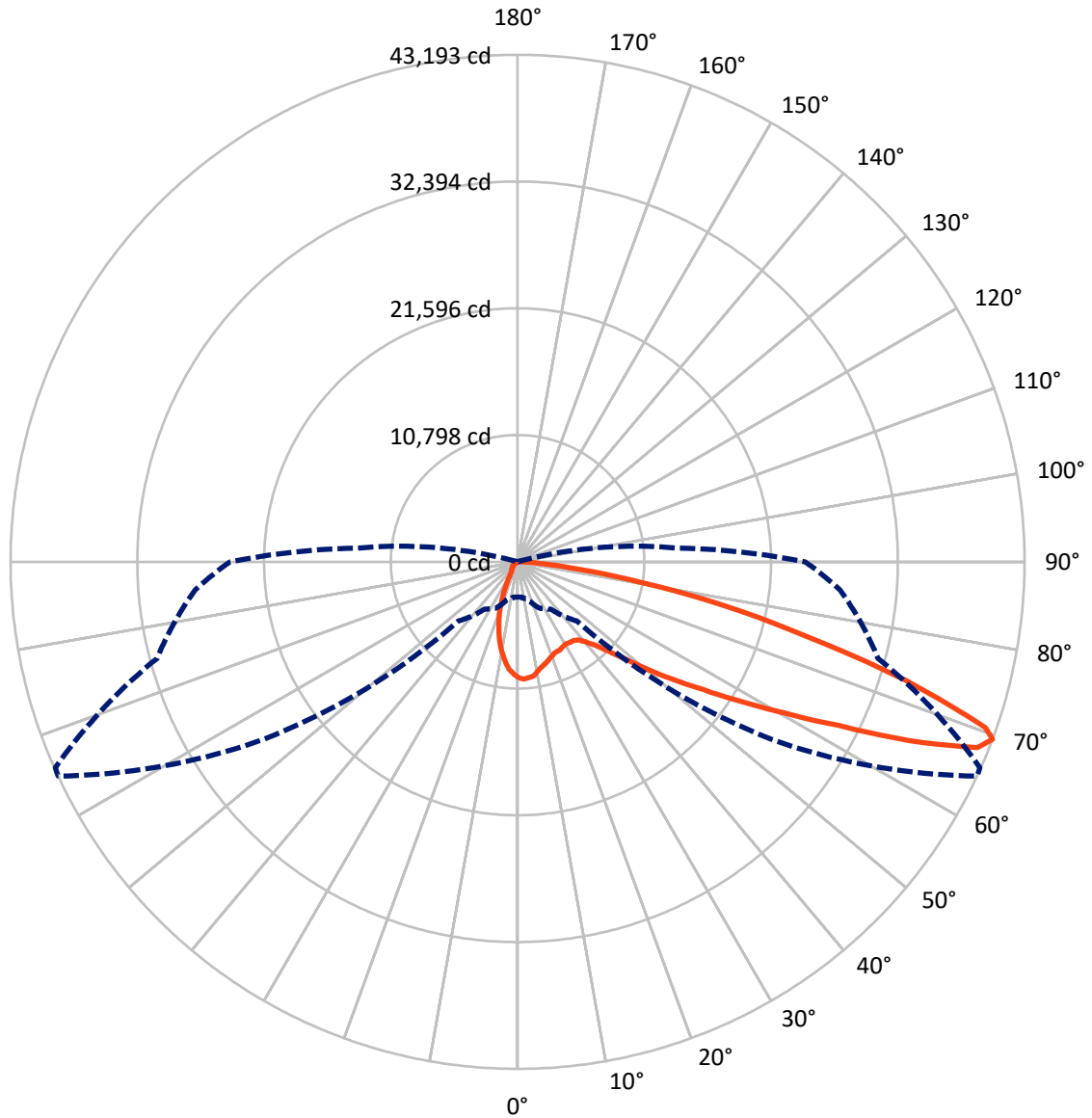
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11 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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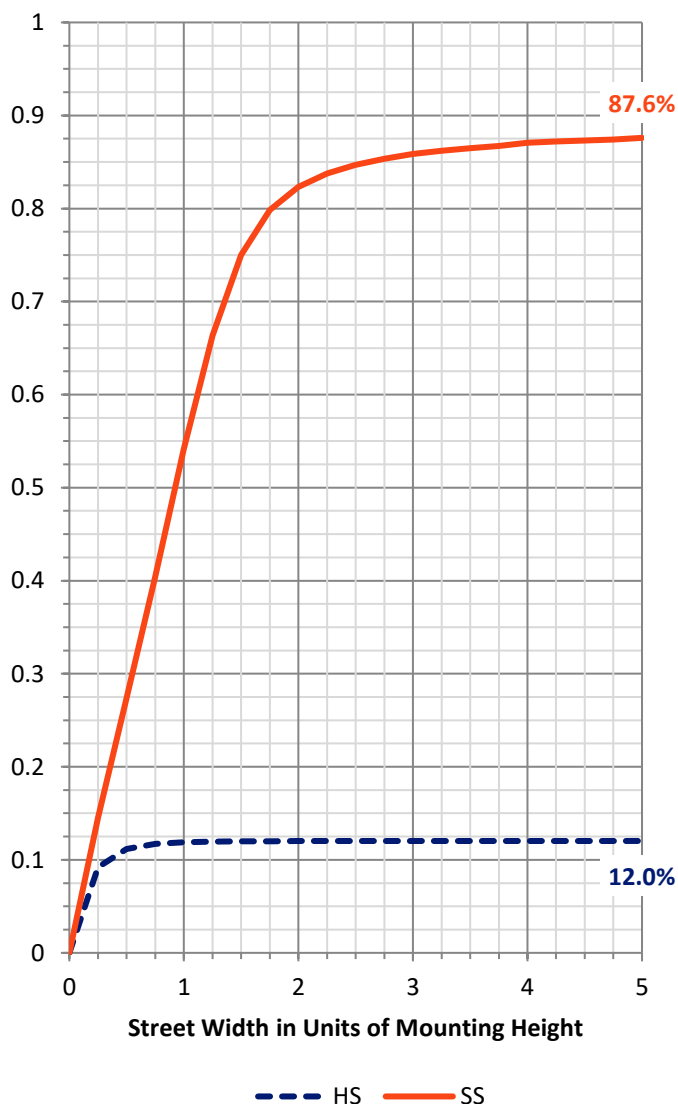
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4743.6	0.0	4743.6
	% Fixture	12.1	0.0	12.1
<b>Street Side</b>	Lumens	34360.9	0.0	34360.9
	% Fixture	87.9	0.0	87.9
<b>Total</b>	Lumens	39104.5	0.0	39104.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	806.8	2.1
10°-20°	1765.3	4.5
20°-30°	2457.6	6.3
30°-40°	3482.7	8.9
40°-50°	5488.6	14.0
50°-60°	8906.2	22.8
60°-70°	9946.4	25.4
70°-80°	5601.0	14.3
80°-90°	649.9	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°	39104.5	100.0
0°-180°	39104.5	100.0

**Coefficient of Utilization**

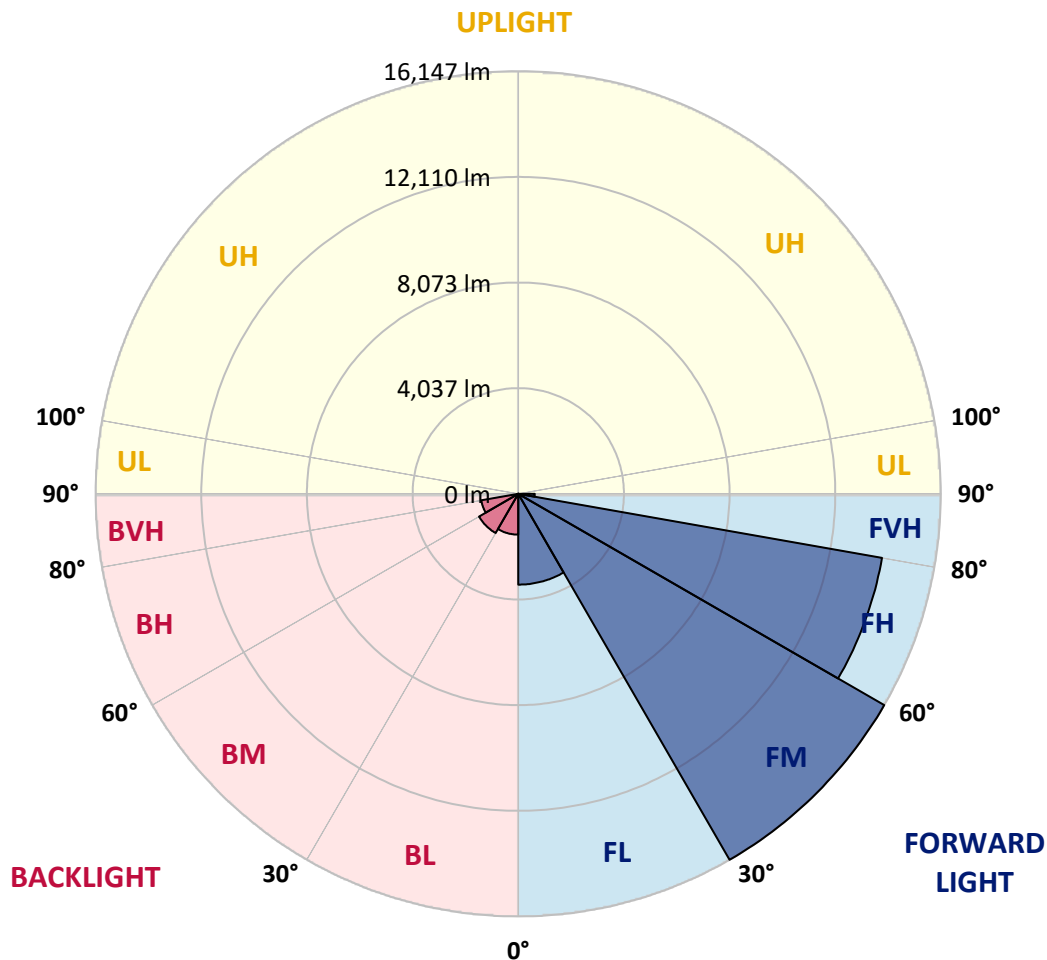


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3470.1	8.9			
FM (30°-60°)	16146.6	41.3			
FH (60°-80°)	14112.1	36.1			G5
FVH (80°-90°)	632.0	1.6			G4/750
BL (0°-30°)	1559.6	4.0	B3/2500		
BM (30°-60°)	1730.9	4.4	B2/2500		
BH (60°-80°)	1435.2	3.7	B3/2500		G3/2500
BVH (80°-90°)	17.9	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°	9859.2	9859.2	9859.2	9859.2	9859.2	9859.2	9859.2	9859.2	9859.2	9859.2
2.5°	9495.2	9569.0	9590.1	9664.0	9700.9	9859.2	9948.8	10001.6	9975.2	10033.2
5°	8820.0	8777.8	8888.5	8967.7	9136.5	9410.8	9690.4	9906.6	10006.9	10101.8
7.5°	8097.3	8076.2	8187.0	8366.3	8519.3	8851.6	9300.0	9832.8	9811.7	10043.8
10°	7601.4	7622.5	7659.4	7838.8	8065.6	8403.2	8962.4	9458.3	9569.0	10059.6
12.5°	7147.8	7184.7	7253.3	7437.9	7701.6	8049.8	8593.1	9173.4	9342.2	9969.9
15°	7000.1	6915.7	7052.8	7190.0	7464.3	7775.5	8234.4	8957.1	9031.0	9864.4
17.5°	6878.7	6826.0	6889.3	7000.1	7290.2	7543.4	7975.9	8725.0	8862.2	9822.2
20°	6915.7	6868.2	6894.6	6979.0	7110.8	7348.2	7749.1	8503.5	8651.2	9627.1
22.5°	7021.2	7058.1	7010.6	7031.7	7073.9	7195.2	7627.8	8345.2	8471.8	9590.1
25°	7495.9	7432.6	7369.3	7342.9	7095.0	7147.8	7590.9	8334.7	8424.3	9458.3
27.5°	7991.8	7939.0	7912.6	7759.7	7422.1	7263.8	7596.1	8187.0	8308.3	9405.5
30°	8593.1	8661.7	8556.2	8371.6	7902.1	7511.7	7654.2	8113.1	8281.9	9205.0
32.5°	9226.1	9263.1	9315.8	9178.7	8572.0	7886.3	7828.2	8181.7	8192.2	9205.0
35°	9943.6	9890.8	10028.0	10038.5	9505.7	8550.9	8160.6	8229.2	8339.9	9162.8
37.5°	10560.7	10650.4	10808.7	11061.9	10513.3	9489.9	8677.5	8450.7	8498.2	9358.0
40°	11236.0	11325.6	11684.3	11937.5	11626.3	10544.9	9463.5	8967.7	9004.6	9648.2
42.5°	11979.8	12153.8	12581.1	13024.2	12939.8	11884.8	10476.3	9727.3	9711.5	10370.8
45°	12987.3	13219.4	13683.6	14195.3	14269.1	13419.9	11826.8	10861.4	10914.2	11315.1
47.5°	14390.5	14379.9	14833.6	15403.3	15830.6	15012.9	13441.0	12385.9	12380.7	12807.9
50°	15746.2	15751.4	15872.8	16532.2	17639.9	17223.2	15440.2	14411.6	14353.5	14564.5
52.5°	16373.9	16300.1	16210.4	17006.9	19032.6	20008.5	17972.3	16706.2	16658.8	16532.2
55°	15714.5	15740.9	15735.6	16563.8	19765.8	22946.7	21221.7	19233.0	19153.9	18758.3
57.5°	13599.2	13514.8	13699.4	14991.8	18927.1	24951.2	25869.1	22419.2	22213.4	20899.9
60°	10122.9	10149.3	10302.3	11826.8	16843.4	25373.2	30316.0	26159.2	25273.0	22408.6
62.5°	7068.6	7015.9	7073.9	7928.5	12043.1	23685.2	33322.8	30706.4	29851.8	24123.0
65°	5058.8	4990.2	5222.3	5744.6	7232.2	18109.4	33750.1	36762.2	35997.3	26860.8
67.5°	3639.8	3629.3	3898.3	4847.8	5137.9	10428.9	30585.0	42248.3	41784.1	30110.3
69°	3012.1	3017.4	3275.8	4341.4	4905.8	7121.4	26317.5	43192.5	43108.1	31787.7
70°	2627.0	2648.1	2948.8	4040.7	4810.9	5855.4	22688.2	42264.1	42179.7	32114.8
72.5°	1619.5	1635.3	2030.9	3238.9	4573.5	4779.2	13567.6	34578.3	34868.4	30616.7
75°	775.4	780.7	1065.6	2342.1	4410.0	4531.3	7269.1	25515.7	26127.6	24719.1
77.5°	411.5	411.5	511.7	1244.9	3571.2	4262.3	4315.0	17998.6	18505.0	15630.1
80°	205.7	211.0	311.2	648.8	2215.5	4177.9	3370.8	10734.8	11009.1	6377.6
82.5°	79.1	84.4	147.7	390.4	1150.0	3529.0	2959.3	5280.4	5211.8	1492.9
85°	10.6	10.6	52.8	232.1	490.6	1556.2	2442.4	2205.0	2131.1	327.1
87.5°	0.0	0.0	10.6	68.6	147.7	453.7	944.2	606.6	675.2	89.7
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°
9859.2	0°	9859.2	9859.2	9859.2	9859.2	9859.2	9859.2	9859.2	9859.2	9859.2	9859.2
10038.5	2.5°	10012.1	9901.4	9732.6	9569.0	9395.0	9183.9	8951.8	8867.4	8719.7	8709.2
10086.0	5°	10001.6	9822.2	9526.8	9178.7	8682.8	8308.3	7902.1	7606.7	7379.9	7232.2
10112.4	7.5°	10054.3	9838.1	9326.4	8577.3	7939.0	7195.2	6567.5	6134.9	5739.3	5544.1
10196.8	10°	9969.9	9679.8	8930.7	7881.0	6942.0	5902.8	4985.0	4404.7	3813.9	3597.6
10244.2	12.5°	10017.4	9611.2	8503.5	7163.6	5871.2	4520.8	3423.5	2632.3	2078.4	1899.0
10323.4	15°	10049.1	9463.5	8092.0	6303.7	4684.3	3080.7	1983.4	1492.9	1318.8	1287.1
10312.8	17.5°	9927.7	9284.2	7511.7	5454.5	3471.0	1872.7	1318.8	1218.5	1186.9	1165.8
10297.0	20°	9922.5	9178.7	7010.6	4584.1	2315.8	1276.6	1139.4	1102.5	1055.0	1039.2
10386.7	22.5°	9832.8	8957.1	6409.2	3629.3	1477.0	1097.2	1023.4	965.3	912.6	891.5
10312.8	25°	9806.4	8698.6	5844.8	2727.2	1123.6	981.2	907.3	822.9	759.6	728.0
10223.1	27.5°	9732.6	8477.1	5275.1	1920.1	981.2	875.7	780.7	691.0	617.2	569.7
10165.1	30°	9468.8	8245.0	4642.1	1329.3	891.5	775.4	669.9	564.4	490.6	458.9
10033.2	32.5°	9358.0	8028.7	3951.0	1023.4	812.4	685.8	564.4	469.5	411.5	379.8
9985.8	35°	9226.1	7712.2	3281.1	891.5	738.5	596.1	474.8	395.6	348.2	321.8
10022.7	37.5°	9242.0	7459.0	2653.4	807.1	659.4	511.7	406.2	337.6	295.4	269.0
10212.6	40°	9194.5	7258.5	2062.6	733.2	585.5	437.8	342.9	284.9	247.9	221.6
10602.9	42.5°	9410.8	7205.8	1556.2	669.9	511.7	374.5	295.4	242.7	205.7	174.1
11410.0	45°	9774.8	7290.2	1213.3	611.9	437.8	321.8	253.2	200.5	163.5	142.4
12607.5	47.5°	10745.4	7622.5	949.5	564.4	374.5	279.6	211.0	163.5	131.9	110.8
14242.8	50°	12153.8	8366.3	807.1	495.9	316.5	237.4	174.1	126.6	105.5	84.4
16447.8	52.5°	14158.4	9616.5	733.2	437.8	263.8	195.2	137.2	100.2	79.1	63.3
18874.3	55°	16342.3	11177.9	664.7	369.3	221.6	158.3	110.8	79.1	58.0	42.2
20636.2	57.5°	18046.1	12528.4	606.6	306.0	179.4	126.6	84.4	58.0	42.2	26.4
22044.6	60°	19908.2	13477.9	532.8	242.7	147.7	95.0	63.3	42.2	31.7	15.8
23912.0	62.5°	21828.4	14590.9	437.8	189.9	116.1	73.9	47.5	31.7	21.1	5.3
26354.4	65°	24497.6	15461.3	337.6	147.7	89.7	52.8	36.9	26.4	10.6	0.0
27842.0	67.5°	25251.9	15034.0	247.9	116.1	63.3	36.9	26.4	15.8	5.3	0.0
27562.4	69°	24497.6	13541.2	216.3	100.2	52.8	31.7	21.1	10.6	5.3	0.0
26639.3	70°	23120.8	12380.7	189.9	84.4	47.5	31.7	15.8	10.6	5.3	0.0
22952.0	72.5°	19338.5	9495.2	147.7	63.3	36.9	26.4	15.8	10.6	0.0	0.0
17935.3	75°	14184.7	5865.9	110.8	47.5	31.7	21.1	15.8	10.6	0.0	0.0
10196.8	77.5°	7601.4	2141.7	79.1	31.7	21.1	15.8	15.8	10.6	0.0	0.0
3175.6	80°	2083.7	633.0	58.0	21.1	15.8	10.6	10.6	5.3	0.0	0.0
775.4	82.5°	569.7	163.5	36.9	21.1	15.8	10.6	5.3	0.0	0.0	0.0
374.5	85°	306.0	63.3	21.1	15.8	10.6	5.3	0.0	0.0	0.0	0.0
184.6	87.5°	158.3	21.1	15.8	10.6	10.6	5.3	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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