

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: P575418

Luminaire Tested: **EPH-VN-06-740-U-SL3-HSS**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575418
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-06-740-U-SL3-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL3 distribution lens and House Side Shield
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

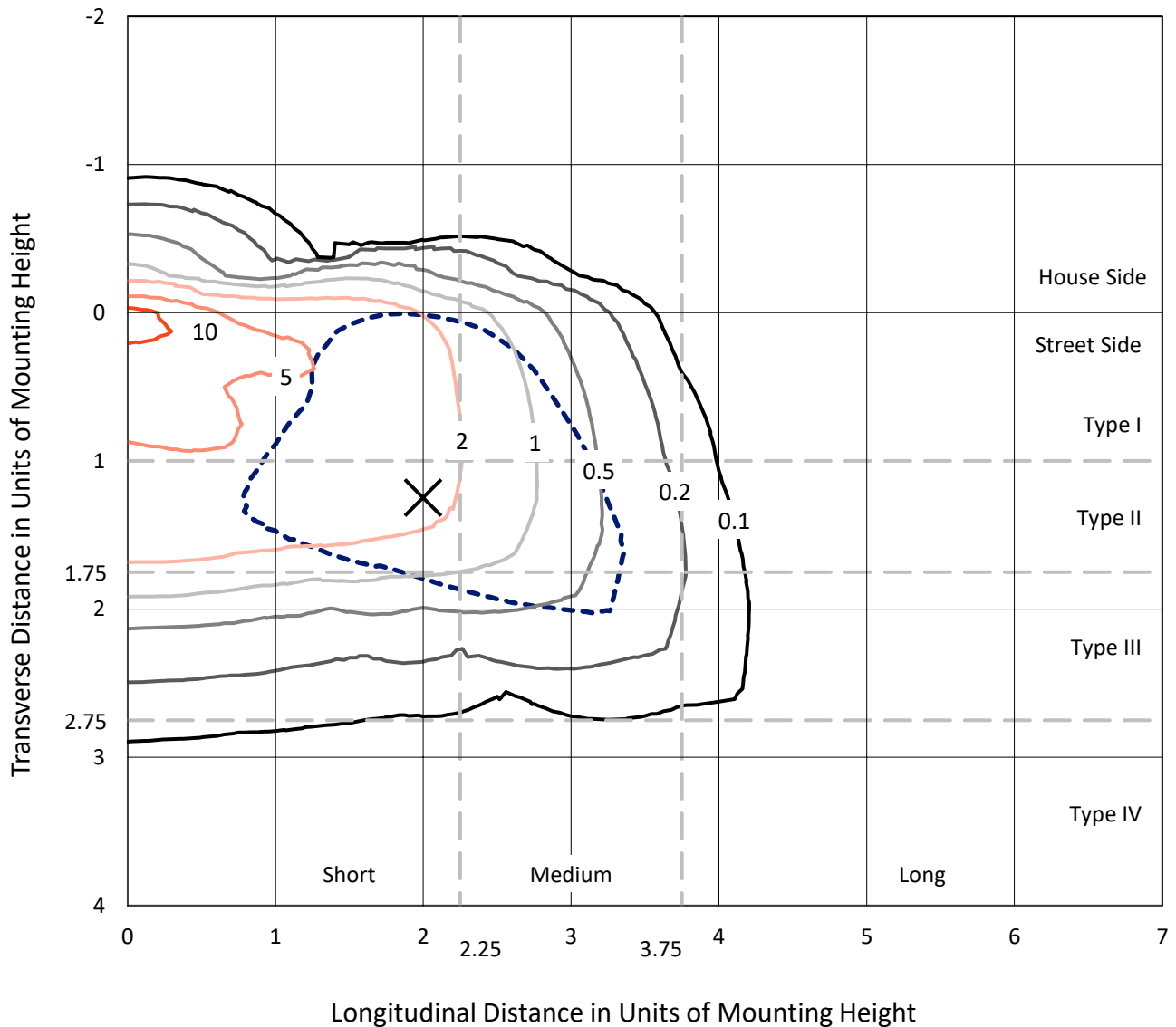
Lumens per Lamp: N/A
Luminaire Lumens: 38237.2 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

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

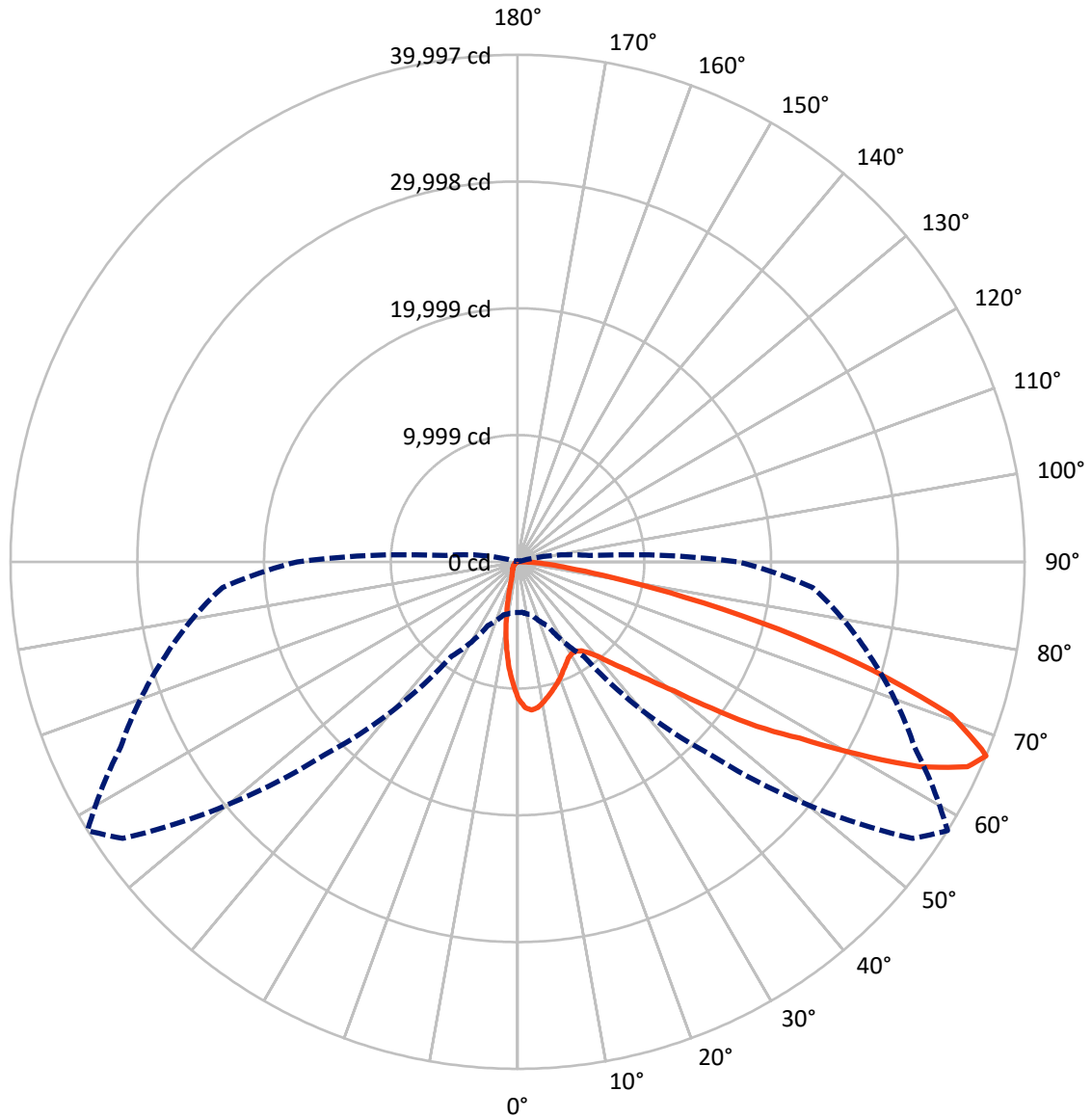
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.1 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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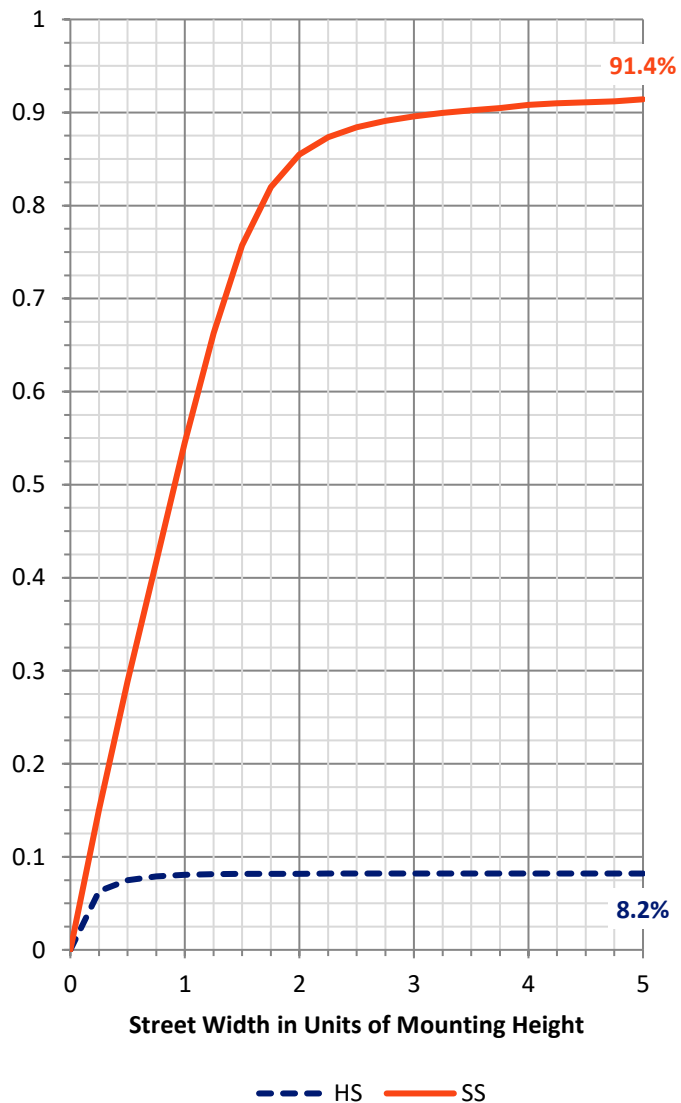
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3160.6	0.0	3160.6
	% Fixture	8.3	0.0	8.3
Street Side	Lumens	35076.6	0.0	35076.6
	% Fixture	91.7	0.0	91.7
Total	Lumens	38237.2	0.0	38237.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	859.6	2.2
10°-20°	1782.9	4.7
20°-30°	2365.5	6.2
30°-40°	3277.8	8.6
40°-50°	5348.5	14.0
50°-60°	9400.9	24.6
60°-70°	10412.2	27.2
70°-80°	4314.8	11.3
80°-90°	475.0	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°	38237.2	100.0
0°-180°	38237.2	100.0

Coefficient of Utilization

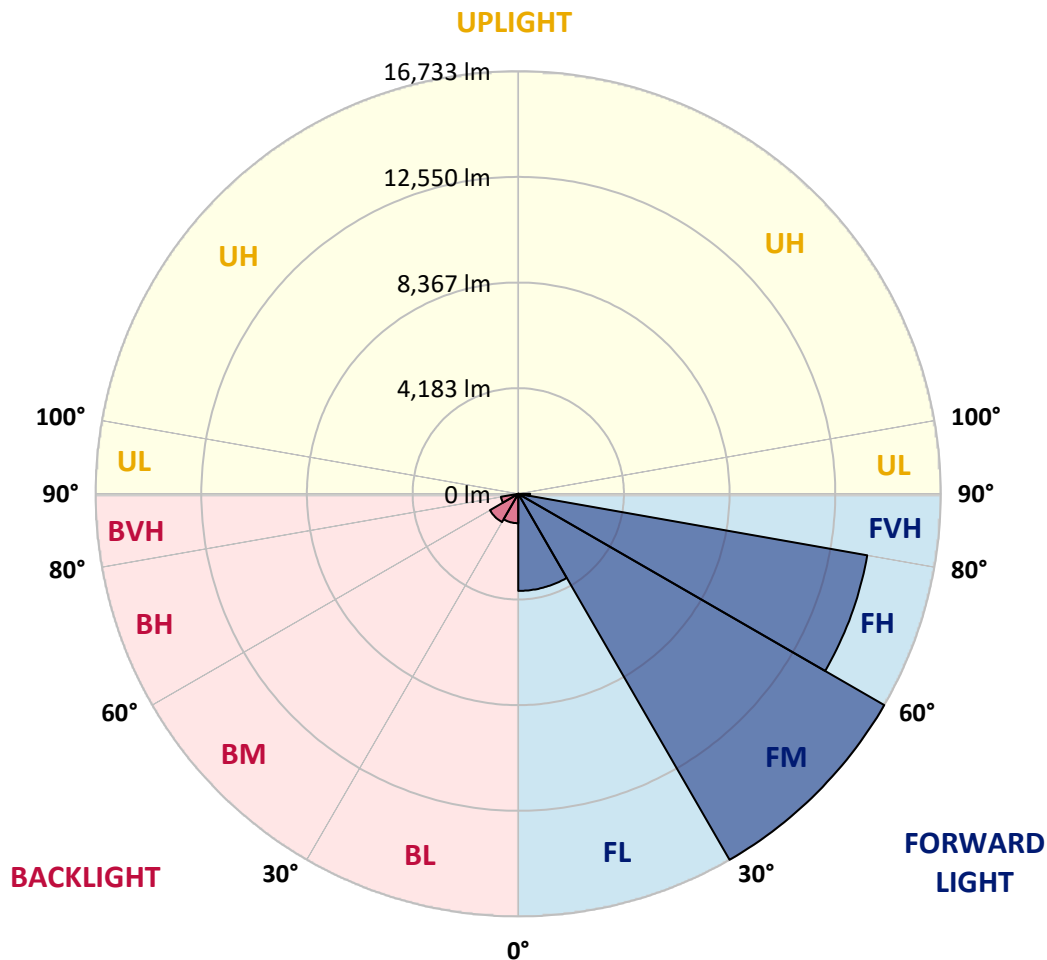


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3843.9	10.1			
FM (30°-60°)	16733.4	43.8			
FH (60°-80°)	14032.2	36.7			G5
FVH (80°-90°)	467.2	1.2			G3/500
BL (0°-30°)	1164.0	3.0	B3/2500		
BM (30°-60°)	1293.8	3.4	B2/2500		
BH (60°-80°)	694.9	1.8	B2/1000		G2/1000
BVH (80°-90°)	7.8	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°	10833.1	10833.1	10833.1	10833.1	10833.1	10833.1	10833.1	10833.1	10833.1	10833.1
2.5°	11787.5	11828.1	11863.6	11797.6	11853.5	11772.3	11564.1	11518.4	11482.9	11173.2
5°	11782.4	11736.7	11772.3	11802.7	11726.6	11787.5	11736.7	11741.8	11604.7	11325.5
7.5°	10995.6	10975.3	10995.6	11142.8	11310.3	11442.3	11518.4	11594.6	11503.2	11086.9
10°	9934.6	10036.1	10092.0	10355.9	10614.8	10858.5	11097.1	11239.2	11213.8	11046.3
12.5°	9193.4	9163.0	9366.0	9538.6	9797.5	10289.9	10706.2	10838.2	10990.5	10757.0
15°	8508.1	8426.9	8548.7	8848.2	9289.9	9680.8	10264.6	10462.5	10655.4	10716.4
17.5°	7853.2	7893.9	8020.8	8289.8	8706.1	9254.3	9802.6	10086.9	10548.8	10467.6
20°	7538.5	7624.8	7670.5	7807.6	8096.9	8645.2	9462.5	9690.9	10183.3	10462.5
22.5°	7553.7	7553.7	7447.1	7528.4	7792.3	8218.7	9000.5	9254.3	10036.1	10198.6
25°	7716.2	7614.7	7619.7	7523.3	7635.0	7868.5	8584.3	8893.9	9736.6	10223.9
27.5°	7838.0	7817.7	7787.3	7761.9	7619.7	7655.3	8310.1	8563.9	9619.8	10193.5
30°	8279.7	8188.3	8157.8	8102.0	7914.2	7741.6	8091.8	8411.7	9528.5	10264.6
32.5°	8650.2	8665.5	8690.9	8528.4	8366.0	7939.5	8152.8	8406.6	9462.5	10427.0
35°	9117.3	9183.3	9193.4	9142.7	8970.1	8548.7	8406.6	8624.9	9574.2	10716.4
37.5°	9828.0	9756.9	9949.8	9970.1	9848.3	9289.9	8995.4	9081.7	9904.1	11178.3
40°	10289.9	10376.2	10736.7	10960.0	10751.9	10244.2	9848.3	9833.1	10381.3	11904.2
42.5°	10802.7	10995.6	11391.5	11873.8	11848.4	11376.3	10975.3	10909.3	11229.1	12955.1
45°	11503.2	11675.8	12229.1	12955.1	13351.0	12950.0	12345.9	12213.9	12259.6	14386.6
47.5°	12665.7	12620.0	13417.0	14132.8	14782.6	14472.9	14214.0	13828.2	13792.7	16072.0
50°	13980.5	13970.4	14681.1	15493.3	16244.6	16848.7	16417.2	15995.8	16006.0	18361.5
52.5°	15229.3	15427.3	16193.8	17001.0	18290.4	18940.2	19356.4	19188.9	18381.8	20407.3
55°	15889.2	16061.8	16823.3	18214.3	20249.9	21920.0	23047.0	22904.9	21346.4	22712.0
57.5°	15264.8	15381.6	16412.1	18234.6	21620.5	25346.6	26427.9	26250.2	24412.6	24473.5
60°	12650.5	12833.2	14366.3	16503.5	21087.5	27986.4	31083.0	30814.0	27204.6	26702.1
62.5°	8761.9	8883.8	10142.7	12802.8	18559.4	28905.2	35479.2	35626.4	30148.9	28438.2
65°	5675.5	5665.3	6386.2	8188.3	13153.0	26123.3	38078.3	38992.1	32991.8	28702.2
67°	4010.4	3995.2	4335.3	5553.6	9107.1	21524.1	38032.7	39997.2	34535.0	28778.3
67.5°	3700.7	3685.5	4010.4	5106.9	8218.7	20016.4	37464.1	39479.4	35078.2	28671.7
70°	2873.3	2832.7	2954.5	3518.0	4787.1	12944.9	32062.8	36266.1	33951.2	26011.7
72.5°	2076.3	2121.9	2314.9	2888.5	3756.6	6964.9	24438.0	29326.6	28357.0	19605.2
75°	1446.8	1487.4	1797.1	2355.5	3446.9	4223.6	16523.8	21270.3	19752.4	10823.0
77.5°	756.4	807.2	1147.3	1883.4	3132.2	3269.2	9873.7	13488.1	10467.6	3853.0
80°	350.3	375.7	573.6	1335.1	2619.4	2873.3	5756.7	7503.0	4188.1	863.0
82.5°	152.3	167.5	264.0	766.5	1858.0	2512.8	3563.7	3934.2	1517.9	279.2
85°	30.5	35.5	101.5	406.1	898.5	1522.9	2502.7	2335.2	761.5	137.1
87.5°	0.0	0.0	25.4	116.8	243.7	451.8	1061.0	1061.0	233.5	71.1
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°
10833.1	0°	10833.1	10833.1	10833.1	10833.1	10833.1	10833.1	10833.1	10833.1	10833.1	10833.1
10995.6	2.5°	10838.2	10655.4	10254.4	9883.8	9619.8	9320.3	8924.4	8746.7	8680.7	8589.3
10828.0	5°	10553.9	10330.5	9645.2	8954.8	8198.4	7624.8	7015.6	6660.3	6391.2	6223.7
10604.7	7.5°	10152.9	9696.0	8772.1	7665.4	6685.7	5832.8	4908.9	4284.5	3883.5	3721.0
10361.0	10°	9833.1	9239.1	7832.9	6457.2	5152.6	3903.8	2863.1	2314.9	1898.6	1741.2
10041.2	12.5°	9416.8	8706.1	6954.7	5223.7	3584.0	2325.0	1583.8	1375.7	1259.0	1238.7
9868.6	15°	9071.6	8223.8	6122.2	4045.9	2319.9	1451.9	1233.6	1182.8	1152.4	1142.2
9609.7	17.5°	8838.1	7706.0	5269.3	2944.3	1528.0	1187.9	1137.1	1106.7	1091.4	1086.4
9355.9	20°	8376.1	7269.5	4426.7	2061.0	1193.0	1096.5	1055.9	1030.5	1015.3	1010.2
9127.4	22.5°	8112.1	6716.1	3584.0	1436.6	1061.0	995.0	964.5	944.2	918.8	903.6
9005.6	25°	7848.2	6310.0	2832.7	1116.8	964.5	918.8	873.1	847.8	807.2	786.8
8817.8	27.5°	7538.5	5909.0	2182.9	969.6	868.1	822.4	776.7	736.1	685.3	665.0
8711.2	30°	7360.8	5518.1	1644.8	868.1	797.0	736.1	680.2	629.5	573.6	538.1
8817.8	32.5°	7269.5	5162.7	1233.6	791.9	720.9	654.9	583.8	522.9	472.1	441.6
8827.9	35°	7157.8	4817.5	969.6	720.9	649.8	578.7	507.6	446.7	396.0	370.6
9213.7	37.5°	7274.5	4614.5	807.2	665.0	593.9	512.7	436.6	375.7	335.0	309.7
9690.9	40°	7594.3	4447.0	700.5	614.2	538.1	451.8	380.7	319.8	284.3	264.0
10447.3	42.5°	8086.8	4447.0	634.6	563.5	487.3	396.0	324.9	279.2	243.7	223.4
11736.7	45°	8980.2	4584.0	578.7	512.7	426.4	340.1	279.2	233.5	198.0	177.7
13518.5	47.5°	10234.1	4898.8	533.0	467.0	380.7	299.5	243.7	198.0	162.4	142.1
15615.1	50°	11919.5	5614.5	487.3	411.2	340.1	258.9	203.1	157.4	126.9	106.6
17858.9	52.5°	14021.1	6629.8	441.6	380.7	289.4	218.3	162.4	126.9	96.5	81.2
20072.2	55°	16244.6	7873.6	385.8	340.1	248.7	182.8	132.0	96.5	71.1	60.9
22747.5	57.5°	18483.3	8833.0	340.1	294.4	203.1	147.2	106.6	76.1	50.8	40.6
24468.4	60°	19671.2	8924.4	294.4	243.7	162.4	116.8	81.2	55.8	35.5	25.4
24981.1	62.5°	19853.9	8112.1	253.8	198.0	132.0	91.4	55.8	40.6	20.3	10.2
24823.8	65°	18914.8	6761.8	218.3	157.4	101.5	66.0	40.6	25.4	10.2	5.1
23366.8	67°	17391.9	5665.3	187.8	132.0	81.2	50.8	30.5	15.2	5.1	0.0
22727.2	67.5°	16803.0	5360.7	177.7	121.8	76.1	45.7	25.4	15.2	5.1	0.0
18148.3	70°	13041.4	3827.6	132.0	86.3	55.8	35.5	20.3	10.2	0.0	0.0
11533.7	72.5°	7990.3	2238.7	101.5	60.9	40.6	25.4	15.2	5.1	0.0	0.0
4914.0	75°	3350.4	771.6	86.3	45.7	30.5	15.2	10.2	5.1	0.0	0.0
1355.4	77.5°	873.1	289.4	60.9	30.5	20.3	15.2	10.2	5.1	0.0	0.0
467.0	80°	355.4	132.0	40.6	20.3	20.3	15.2	10.2	5.1	0.0	0.0
289.4	82.5°	233.5	60.9	25.4	20.3	15.2	10.2	5.1	0.0	0.0	0.0
228.4	85°	177.7	35.5	15.2	15.2	10.2	5.1	0.0	0.0	0.0	0.0
86.3	87.5°	76.1	20.3	15.2	10.2	10.2	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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