

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: P575378

Luminaire Tested: **EPH-VN-06-740-U-SL2-HSS**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575378
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-SL2-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL2 distribution lens and House Side Shield
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

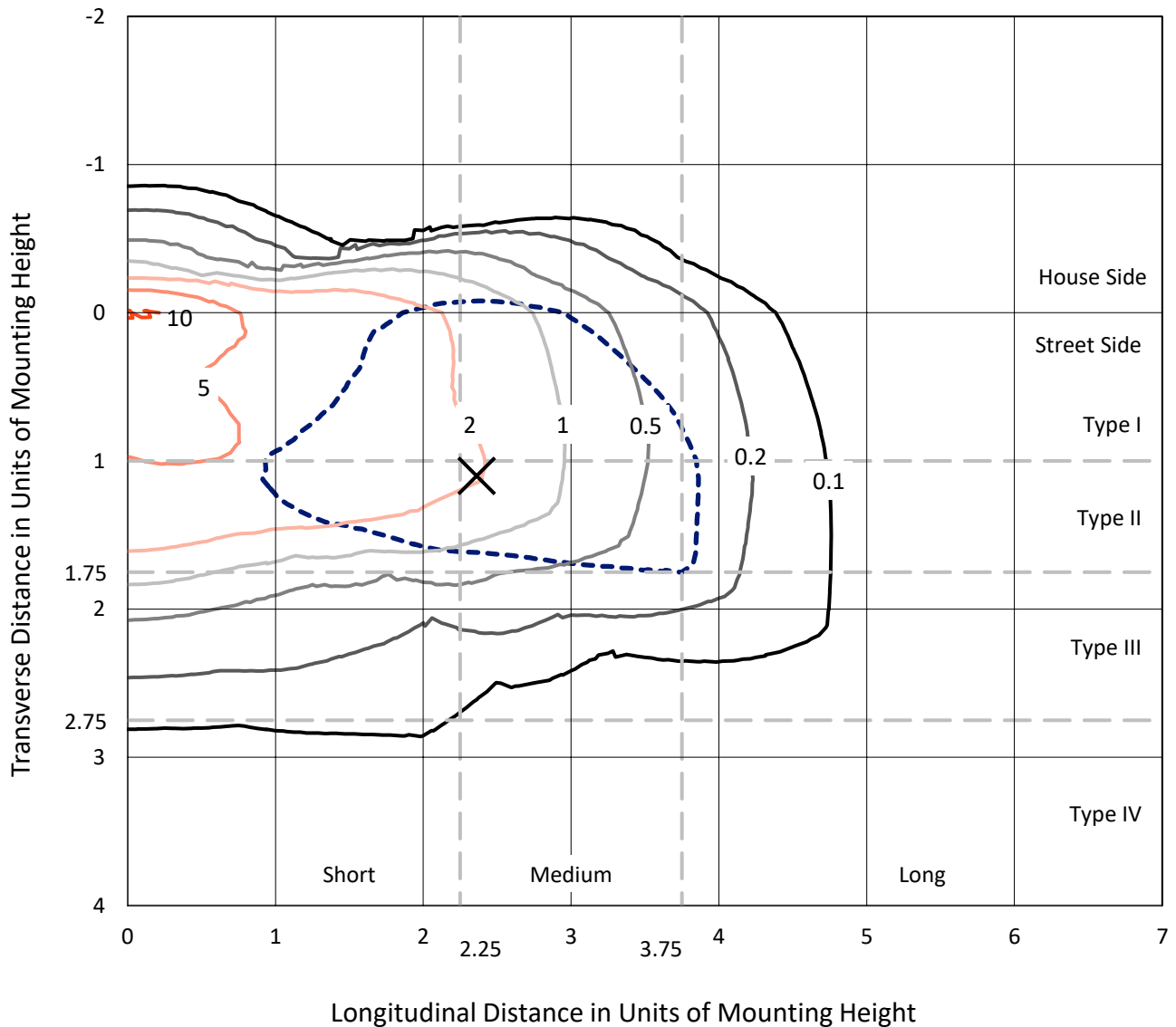
Lumens per Lamp: N/A
Luminaire Lumens: 37631.7 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G5

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

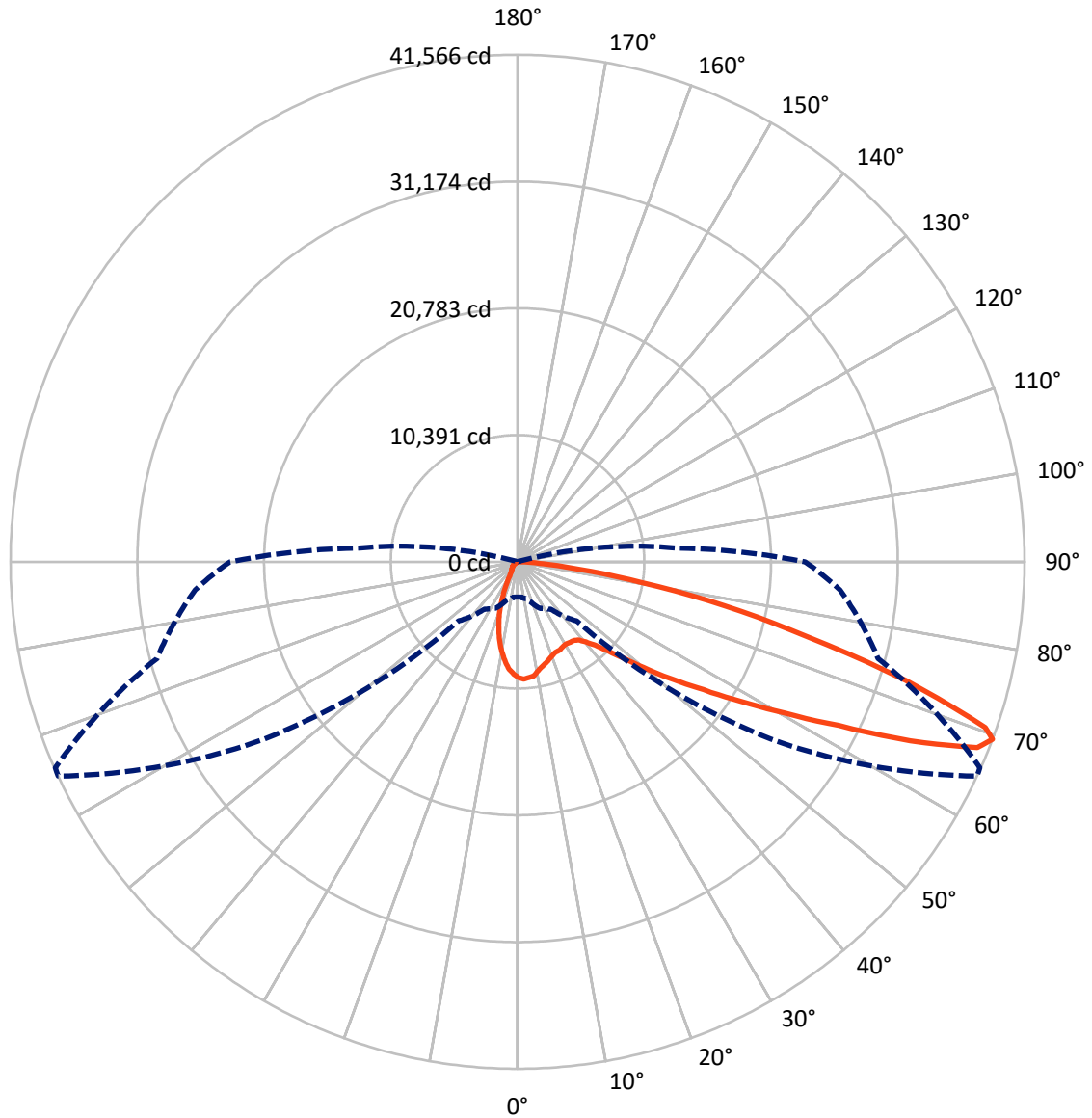
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.5 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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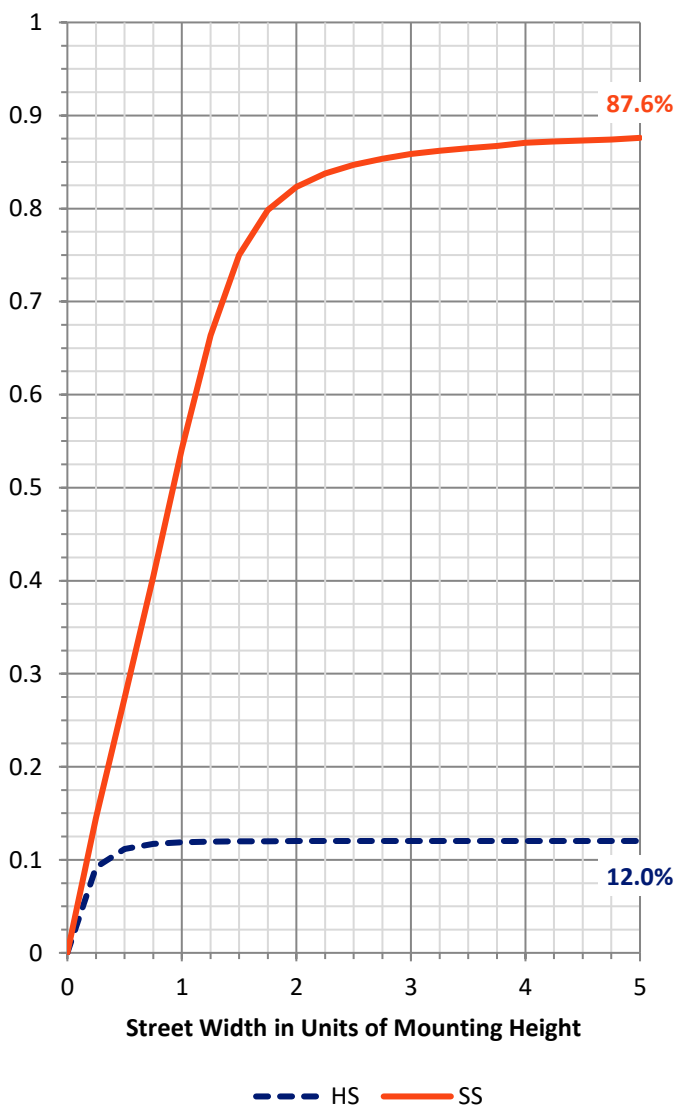
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4565.0	0.0	4565.0
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	33066.7	0.0	33066.7
	% Fixture	87.9	0.0	87.9
Total	Lumens	37631.7	0.0	37631.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	776.4	2.1
10°-20°	1698.8	4.5
20°-30°	2365.1	6.3
30°-40°	3351.6	8.9
40°-50°	5281.9	14.0
50°-60°	8570.7	22.8
60°-70°	9571.8	25.4
70°-80°	5390.0	14.3
80°-90°	625.4	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°	37631.7	100.0
0°-180°	37631.7	100.0

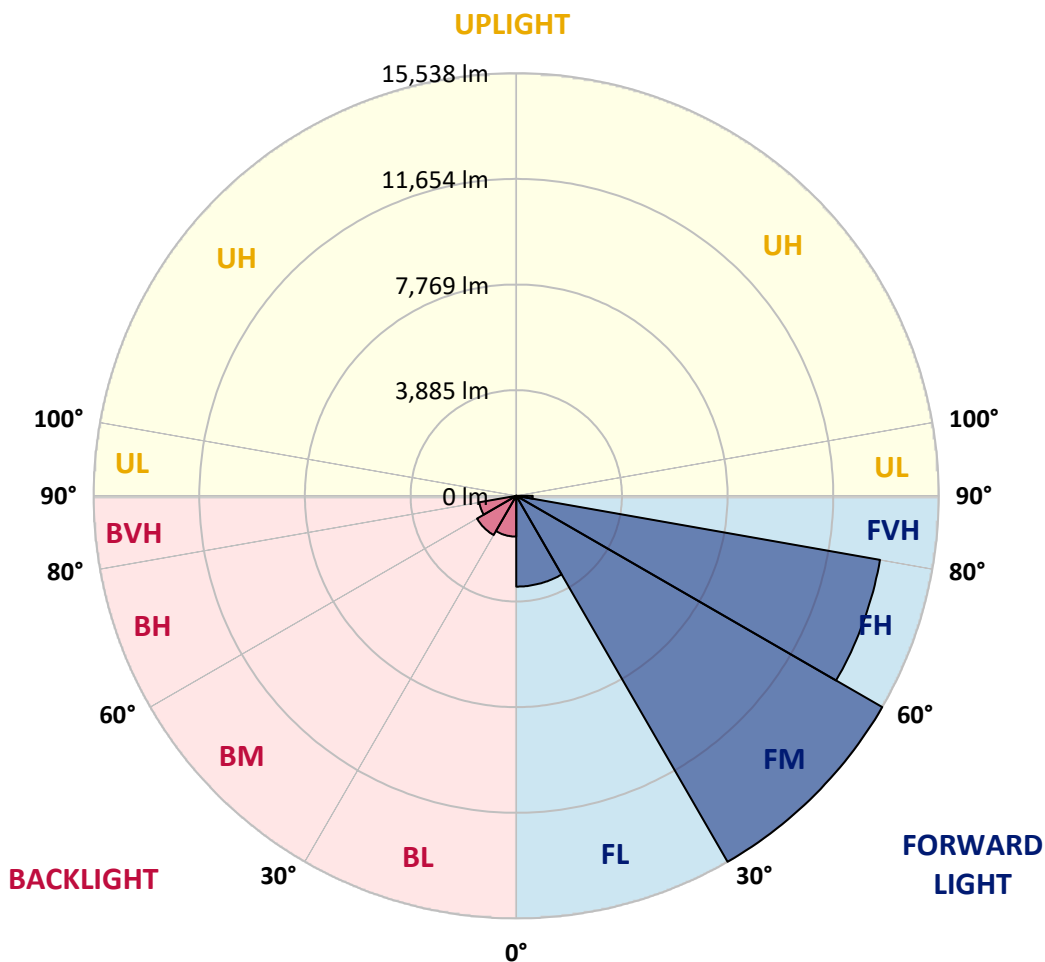


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3339.4	8.9			
FM (30°-60°)	15538.5	41.3			
FH (60°-80°)	13580.6	36.1			G5
FVH (80°-90°)	608.2	1.6			G4/750
BL (0°-30°)	1500.8	4.0	B3/2500		
BM (30°-60°)	1665.7	4.4	B2/2500		
BH (60°-80°)	1381.2	3.7	B3/2500		G3/2500
BVH (80°-90°)	17.3	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°	9487.8	9487.8	9487.8	9487.8	9487.8	9487.8	9487.8	9487.8	9487.8	9487.8
2.5°	9137.5	9208.6	9228.9	9300.0	9335.5	9487.8	9574.1	9624.9	9599.5	9655.3
5°	8487.8	8447.2	8553.8	8629.9	8792.4	9056.3	9325.4	9533.5	9630.0	9721.3
7.5°	7792.3	7772.0	7878.6	8051.2	8198.4	8518.2	8949.7	9462.4	9442.1	9665.5
10°	7315.1	7335.4	7371.0	7543.6	7761.8	8086.7	8624.8	9102.0	9208.6	9680.7
12.5°	6878.5	6914.1	6980.1	7157.7	7411.6	7746.6	8269.5	8827.9	8990.3	9594.4
15°	6736.4	6655.2	6787.2	6919.2	7183.1	7482.6	7924.3	8619.8	8690.8	9492.9
17.5°	6619.6	6568.9	6629.8	6736.4	7015.6	7259.3	7675.5	8396.4	8528.4	9452.3
20°	6655.2	6609.5	6634.9	6716.1	6843.0	7071.4	7457.3	8183.2	8325.3	9264.5
22.5°	6756.7	6792.2	6746.6	6766.9	6807.5	6924.2	7340.5	8030.9	8152.7	9228.9
25°	7213.6	7152.7	7091.8	7066.4	6827.8	6878.5	7305.0	8020.7	8107.0	9102.0
27.5°	7690.8	7640.0	7614.6	7467.4	7142.5	6990.2	7310.0	7878.6	7995.4	9051.2
30°	8269.5	8335.5	8233.9	8056.3	7604.5	7228.8	7365.9	7807.5	7970.0	8858.3
32.5°	8878.7	8914.2	8965.0	8833.0	8249.2	7589.2	7533.4	7873.5	7883.7	8858.3
35°	9569.0	9518.3	9650.3	9660.4	9147.7	8228.9	7853.2	7919.2	8025.8	8817.7
37.5°	10163.0	10249.3	10401.6	10645.2	10117.3	9132.5	8350.7	8132.4	8178.1	9005.6
40°	10812.8	10899.1	11244.3	11487.9	11188.4	10147.8	9107.1	8629.9	8665.4	9284.8
42.5°	11528.5	11696.1	12107.3	12533.7	12452.4	11437.2	10081.8	9360.9	9345.7	9980.2
45°	12498.1	12721.5	13168.2	13660.6	13731.7	12914.4	11381.3	10452.3	10503.1	10888.9
47.5°	13848.5	13838.3	14274.9	14823.1	15234.3	14447.5	12934.7	11919.4	11914.3	12325.5
50°	15153.1	15158.2	15274.9	15909.5	16975.5	16574.5	14858.7	13868.8	13812.9	14016.0
52.5°	15757.2	15686.1	15599.8	16366.4	18315.7	19254.8	17295.3	16077.0	16031.3	15909.5
55°	15122.6	15148.0	15142.9	15939.9	19021.3	22082.4	20422.4	18508.6	18432.5	18051.7
57.5°	13087.0	13005.8	13183.5	14427.2	18214.2	24011.4	24894.7	21574.8	21376.8	20112.8
60°	9741.6	9767.0	9914.2	11381.3	16209.0	24417.6	29174.2	25173.9	24321.1	21564.6
62.5°	6802.4	6751.6	6807.5	7629.9	11589.5	22793.1	32067.7	29549.8	28727.4	23214.5
65°	4868.3	4802.3	5025.7	5528.2	6959.8	17427.3	32478.9	35377.5	34641.5	25849.1
67.5°	3502.7	3492.6	3751.5	4665.2	4944.4	10036.1	29433.1	40657.0	40210.3	28976.2
69°	2898.6	2903.7	3152.5	4177.9	4721.1	6853.2	25326.2	41565.7	41484.5	30590.5
70°	2528.1	2548.4	2837.7	3888.5	4629.7	5634.8	21833.7	40672.2	40591.0	30905.2
72.5°	1558.5	1573.7	1954.4	3116.9	4401.3	4599.2	13056.5	33275.9	33555.1	29463.5
75°	746.2	751.3	1025.4	2253.9	4243.9	4360.6	6995.3	24554.6	25143.5	23788.1
77.5°	396.0	396.0	492.4	1198.0	3436.7	4101.7	4152.5	17320.7	17808.1	15041.4
80°	198.0	203.1	299.5	624.4	2132.1	4020.5	3243.8	10330.5	10594.5	6137.4
82.5°	76.1	81.2	142.1	375.7	1106.7	3396.1	2847.9	5081.5	5015.5	1436.6
85°	10.2	10.2	50.8	223.4	472.1	1497.5	2350.4	2121.9	2050.9	314.7
87.5°	0.0	0.0	10.2	66.0	142.1	436.6	908.7	583.8	649.8	86.3
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°
9487.8	0°	9487.8	9487.8	9487.8	9487.8	9487.8	9487.8	9487.8	9487.8	9487.8	9487.8
9660.4	2.5°	9635.0	9528.4	9366.0	9208.6	9041.1	8838.0	8614.7	8533.5	8391.3	8381.2
9706.1	5°	9624.9	9452.3	9168.0	8833.0	8355.8	7995.4	7604.5	7320.2	7101.9	6959.8
9731.5	7.5°	9675.6	9467.5	8975.1	8254.3	7640.0	6924.2	6320.1	5903.9	5523.1	5335.3
9812.7	10°	9594.4	9315.2	8594.4	7584.2	6680.6	5680.5	4797.2	4238.8	3670.2	3462.1
9858.4	12.5°	9640.1	9249.2	8183.2	6893.8	5650.1	4350.5	3294.6	2533.1	2000.1	1827.5
9934.5	15°	9670.6	9107.1	7787.2	6066.3	4507.9	2964.6	1908.7	1436.6	1269.1	1238.6
9924.4	17.5°	9553.8	8934.5	7228.8	5249.0	3340.3	1802.1	1269.1	1172.7	1142.2	1121.9
9909.2	20°	9548.7	8833.0	6746.6	4411.4	2228.5	1228.5	1096.5	1061.0	1015.3	1000.1
9995.5	22.5°	9462.4	8619.8	6167.8	3492.6	1421.4	1055.9	984.8	929.0	878.2	857.9
9924.4	25°	9437.1	8371.0	5624.7	2624.5	1081.3	944.2	873.1	791.9	731.0	700.5
9838.1	27.5°	9366.0	8157.8	5076.4	1847.8	944.2	842.7	751.3	665.0	593.9	548.3
9782.3	30°	9112.2	7934.4	4467.2	1279.3	857.9	746.2	644.7	543.2	472.1	441.6
9655.3	32.5°	9005.6	7726.3	3802.2	984.8	781.8	659.9	543.2	451.8	396.0	365.5
9609.7	35°	8878.7	7421.7	3157.5	857.9	710.7	573.6	456.9	380.7	335.0	309.7
9645.2	37.5°	8893.9	7178.1	2553.4	776.7	634.6	492.4	390.9	324.9	284.3	258.9
9827.9	40°	8848.2	6985.1	1984.9	705.6	563.5	421.3	330.0	274.1	238.6	213.2
10203.6	42.5°	9056.3	6934.4	1497.5	644.7	492.4	360.4	284.3	233.5	198.0	167.5
10980.3	45°	9406.6	7015.6	1167.6	588.9	421.3	309.7	243.7	192.9	157.4	137.1
12132.6	47.5°	10340.7	7335.4	913.8	543.2	360.4	269.1	203.1	157.4	126.9	106.6
13706.3	50°	11696.1	8051.2	776.7	477.2	304.6	228.4	167.5	121.8	101.5	81.2
15828.3	52.5°	13625.1	9254.3	705.6	421.3	253.8	187.8	132.0	96.5	76.1	60.9
18163.4	55°	15726.7	10756.9	639.6	355.3	213.2	152.3	106.6	76.1	55.8	40.6
19858.9	57.5°	17366.4	12056.5	583.8	294.4	172.6	121.8	81.2	55.8	40.6	25.4
21214.3	60°	19158.4	12970.2	512.7	233.5	142.1	91.4	60.9	40.6	30.5	15.2
23011.4	62.5°	21006.2	14041.4	421.3	182.8	111.7	71.1	45.7	30.5	20.3	5.1
25361.8	65°	23574.9	14879.0	324.9	142.1	86.3	50.8	35.5	25.4	10.2	0.0
26793.3	67.5°	24300.8	14467.8	238.6	111.7	60.9	35.5	25.4	15.2	5.1	0.0
26524.3	69°	23574.9	13031.2	208.1	96.5	50.8	30.5	20.3	10.2	5.1	0.0
25635.9	70°	22249.9	11914.3	182.8	81.2	45.7	30.5	15.2	10.2	5.1	0.0
22087.5	72.5°	18610.1	9137.5	142.1	60.9	35.5	25.4	15.2	10.2	0.0	0.0
17259.8	75°	13650.5	5645.0	106.6	45.7	30.5	20.3	15.2	10.2	0.0	0.0
9812.7	77.5°	7315.1	2061.0	76.1	30.5	20.3	15.2	15.2	10.2	0.0	0.0
3056.0	80°	2005.2	609.2	55.8	20.3	15.2	10.2	10.2	5.1	0.0	0.0
746.2	82.5°	548.3	157.4	35.5	20.3	15.2	10.2	5.1	0.0	0.0	0.0
360.4	85°	294.4	60.9	20.3	15.2	10.2	5.1	0.0	0.0	0.0	0.0
177.7	87.5°	152.3	20.3	15.2	10.2	10.2	5.1	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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