

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: P575367

Luminaire Tested: **EPH-VN-07-730-U-SL2-HSS**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575367
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-07-730-U-SL2-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL2 distribution lens and House Side Shield
Light Source: (112) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

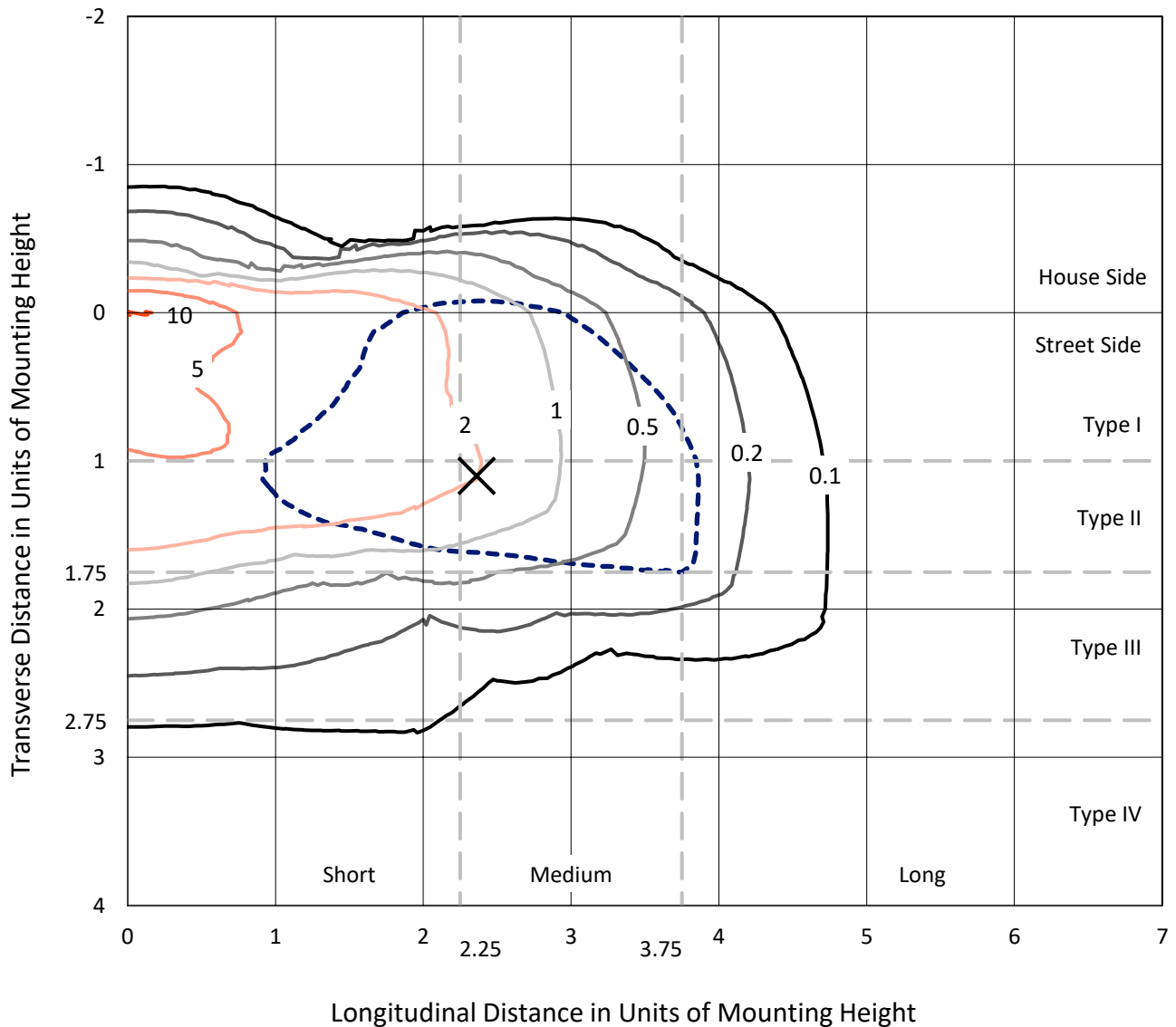
Lumens per Lamp: N/A
Luminaire Lumens: 36559 lumens
Efficiency: N/A
Efficacy: 86.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 422.5
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

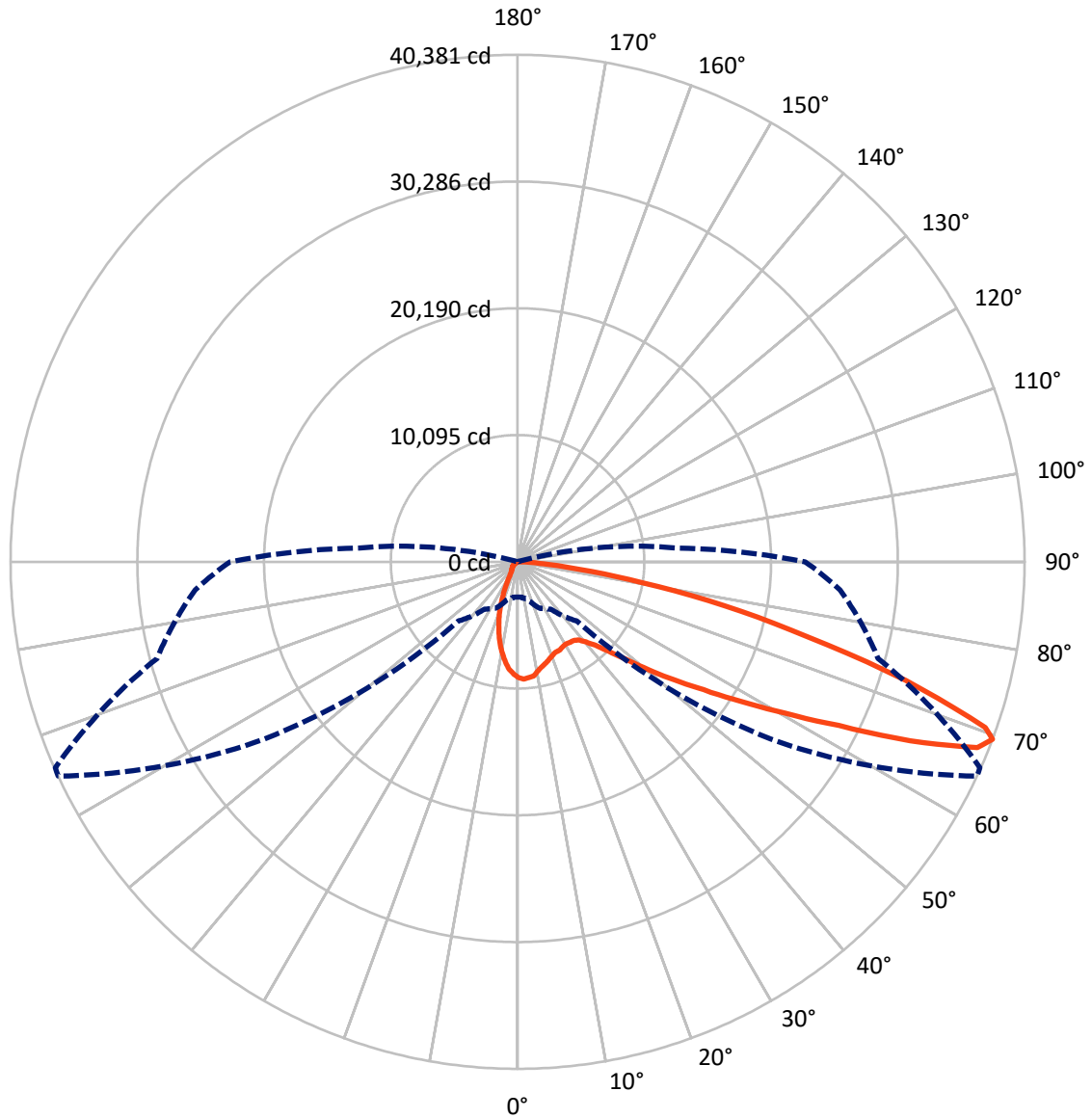
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.2 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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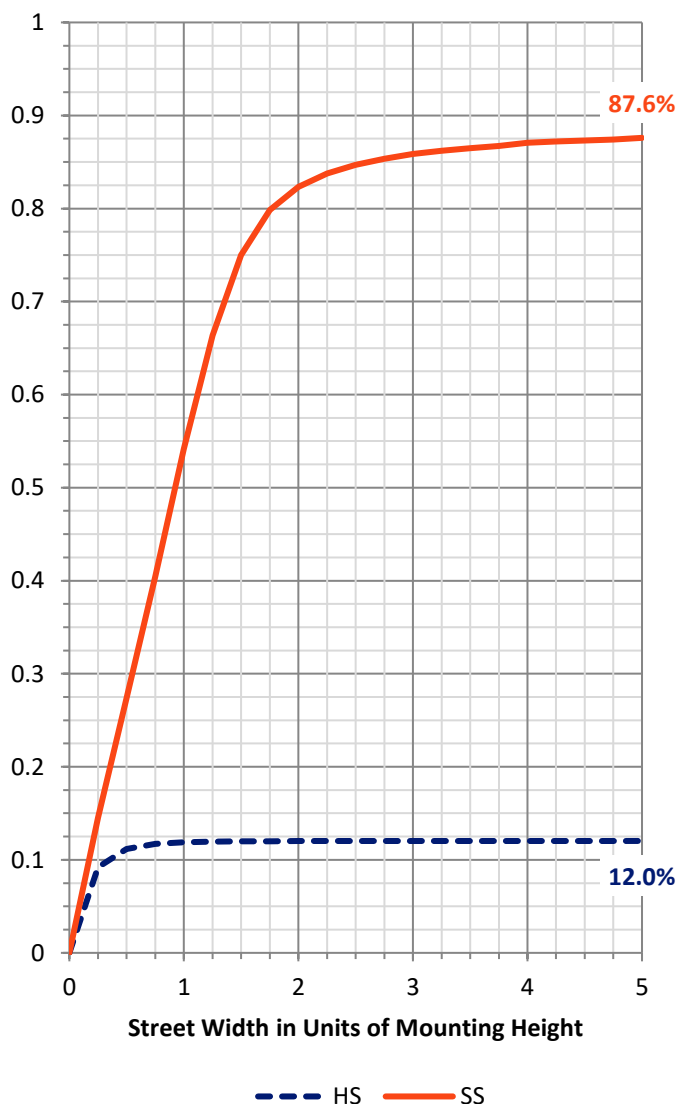
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4434.8	0.0	4434.8
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	32124.2	0.0	32124.2
	% Fixture	87.9	0.0	87.9
Total	Lumens	36559.0	0.0	36559.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	754.3	2.1
10°-20°	1650.3	4.5
20°-30°	2297.7	6.3
30°-40°	3256.0	8.9
40°-50°	5131.4	14.0
50°-60°	8326.4	22.8
60°-70°	9298.9	25.4
70°-80°	5236.4	14.3
80°-90°	607.6	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°	36559.0	100.0
0°-180°	36559.0	100.0

Coefficient of Utilization

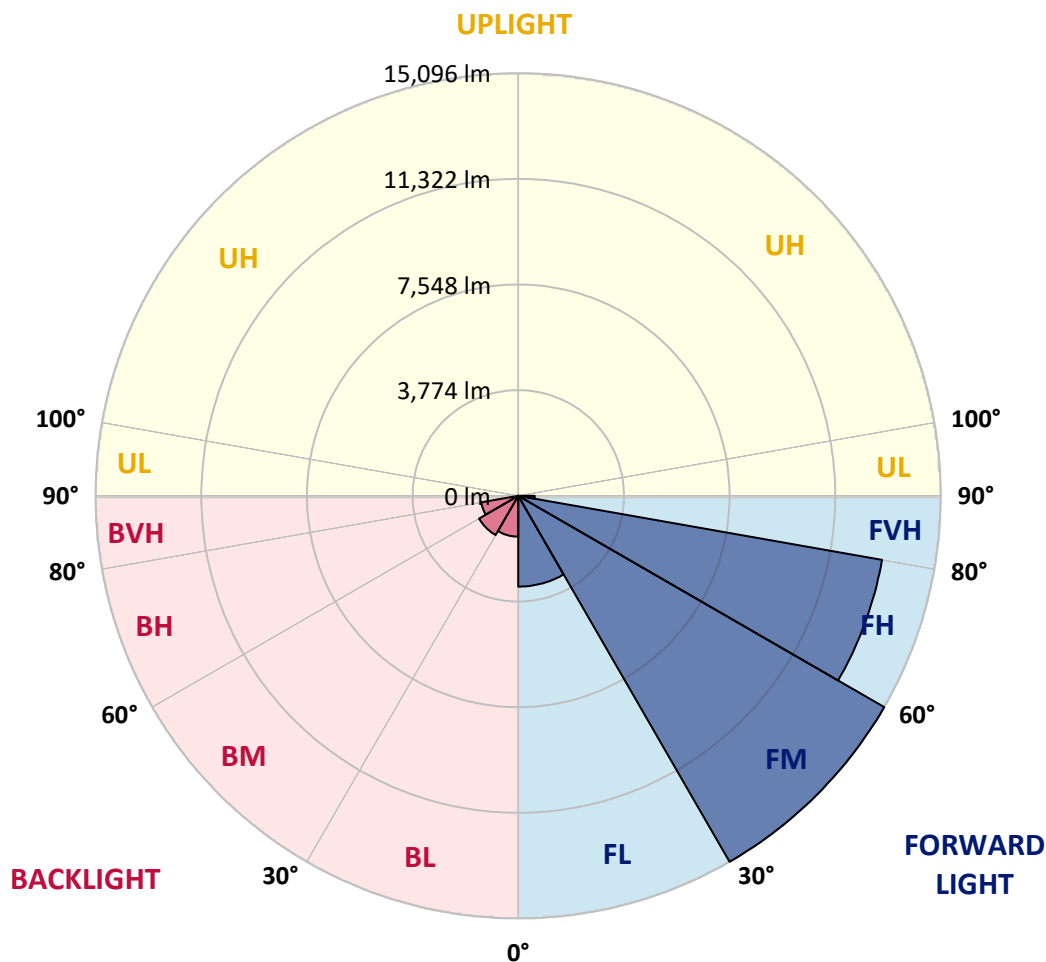


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3244.3	8.9			
FM (30°-60°)	15095.5	41.3			
FH (60°-80°)	13193.5	36.1			G5
FVH (80°-90°)	590.9	1.6			G4/750
BL (0°-30°)	1458.0	4.0	B3/2500		
BM (30°-60°)	1618.2	4.4	B2/2500		
BH (60°-80°)	1341.8	3.7	B3/2500		G3/2500
BVH (80°-90°)	16.8	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°	9217.4	9217.4	9217.4	9217.4	9217.4	9217.4	9217.4	9217.4	9217.4	9217.4
2.5°	8877.1	8946.1	8965.9	9034.9	9069.4	9217.4	9301.2	9350.5	9325.9	9380.1
5°	8245.8	8206.4	8309.9	8383.9	8541.7	8798.2	9059.6	9261.8	9355.5	9444.2
7.5°	7570.2	7550.5	7654.0	7821.7	7964.7	8275.4	8694.6	9192.7	9173.0	9390.0
10°	7106.6	7126.3	7160.8	7328.5	7540.6	7856.2	8379.0	8842.6	8946.1	9404.8
12.5°	6682.5	6717.0	6781.1	6953.7	7200.3	7525.8	8033.8	8576.2	8734.1	9320.9
15°	6544.4	6465.5	6593.7	6721.9	6978.4	7269.3	7698.4	8374.0	8443.1	9222.3
17.5°	6431.0	6381.6	6440.8	6544.4	6815.6	7052.3	7456.7	8157.1	8285.3	9182.8
20°	6465.5	6421.1	6445.7	6524.7	6647.9	6869.9	7244.7	7949.9	8088.0	9000.4
22.5°	6564.1	6598.6	6554.2	6574.0	6613.4	6726.9	7131.3	7802.0	7920.3	8965.9
25°	7008.0	6948.8	6889.6	6864.9	6633.2	6682.5	7096.7	7792.1	7875.9	8842.6
27.5°	7471.5	7422.2	7397.6	7254.5	6938.9	6791.0	7101.7	7654.0	7767.4	8793.2
30°	8033.8	8097.9	7999.2	7826.6	7387.7	7022.8	7155.9	7585.0	7742.8	8605.8
32.5°	8625.6	8660.1	8709.4	8581.2	8014.0	7372.9	7318.7	7649.1	7658.9	8605.8
35°	9296.3	9247.0	9375.2	9385.0	8886.9	7994.3	7629.4	7693.5	7797.0	8566.4
37.5°	9873.3	9957.1	10105.1	10341.8	9828.9	8872.1	8112.7	7900.6	7945.0	8748.9
40°	10504.5	10588.4	10923.7	11160.5	10869.5	9858.5	8847.5	8383.9	8418.4	9020.1
42.5°	11199.9	11362.7	11762.1	12176.4	12097.5	11111.1	9794.4	9094.1	9079.3	9695.7
45°	12141.9	12358.9	12792.9	13271.2	13340.3	12546.3	11056.9	10154.4	10203.7	10578.5
47.5°	13453.7	13443.8	13868.0	14400.6	14800.1	14035.7	12566.0	11579.7	11574.7	11974.2
50°	14721.2	14726.1	14839.5	15456.0	16491.6	16102.0	14435.1	13473.4	13419.2	13616.5
52.5°	15308.0	15239.0	15155.2	15899.8	17793.6	18706.0	16802.3	15618.7	15574.3	15456.0
55°	14691.6	14716.2	14711.3	15485.6	18479.1	21452.9	19840.3	17981.0	17907.0	17537.2
57.5°	12714.0	12635.0	12807.7	14015.9	17695.0	23327.0	24185.1	20959.8	20767.4	19539.4
60°	9464.0	9488.6	9631.6	11056.9	15747.0	23721.5	28342.5	24456.4	23627.8	20949.9
62.5°	6608.5	6559.2	6613.4	7412.4	11259.1	22143.4	31153.6	28707.5	27908.6	22552.7
65°	4729.5	4665.4	4882.4	5370.6	6761.4	16930.6	31553.1	34369.1	33654.0	25112.3
67.5°	3402.9	3393.0	3644.5	4532.2	4803.5	9750.0	28594.1	39498.1	39064.1	28150.2
69°	2816.0	2820.9	3062.6	4058.8	4586.5	6657.8	24604.3	40380.9	40301.9	29718.5
70°	2456.0	2475.7	2756.8	3777.7	4497.7	5474.2	21211.3	39512.9	39434.0	30024.3
72.5°	1514.0	1528.8	1898.7	3028.1	4275.8	4468.1	12684.4	32327.4	32598.6	28623.7
75°	725.0	729.9	996.2	2189.7	4122.9	4236.3	6795.9	23854.7	24426.8	23110.0
77.5°	384.7	384.7	478.4	1163.9	3338.8	3984.8	4034.1	16827.0	17300.4	14612.7
80°	192.3	197.3	291.0	606.6	2071.3	3905.9	3151.4	10036.0	10292.5	5962.4
82.5°	74.0	78.9	138.1	364.9	1075.1	3299.3	2766.7	4936.6	4872.5	1395.7
85°	9.9	9.9	49.3	217.0	458.6	1454.9	2283.4	2061.5	1992.4	305.8
87.5°	0.0	0.0	9.9	64.1	138.1	424.1	882.8	567.1	631.3	83.8
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°
9217.4	0°	9217.4	9217.4	9217.4	9217.4	9217.4	9217.4	9217.4	9217.4	9217.4	9217.4
9385.0	2.5°	9360.4	9256.8	9099.0	8946.1	8783.4	8586.1	8369.1	8290.2	8152.1	8142.3
9429.4	5°	9350.5	9182.8	8906.7	8581.2	8117.6	7767.4	7387.7	7111.5	6899.5	6761.4
9454.1	7.5°	9399.8	9197.6	8719.3	8019.0	7422.2	6726.9	6140.0	5735.6	5365.7	5183.2
9533.0	10°	9320.9	9049.7	8349.4	7368.0	6490.1	5518.6	4660.5	4118.0	3565.6	3363.4
9577.4	12.5°	9365.3	8985.6	7949.9	6697.3	5489.0	4226.5	3200.7	2460.9	1943.1	1775.4
9651.4	15°	9394.9	8847.5	7565.2	5893.4	4379.4	2880.1	1854.3	1395.7	1232.9	1203.3
9641.5	17.5°	9281.5	8679.8	7022.8	5099.4	3245.1	1750.8	1232.9	1139.2	1109.6	1089.9
9626.7	20°	9276.5	8581.2	6554.2	4285.7	2165.0	1193.5	1065.2	1030.7	986.3	971.5
9710.5	22.5°	9192.7	8374.0	5992.0	3393.0	1380.9	1025.8	956.8	902.5	853.2	833.5
9641.5	25°	9168.1	8132.4	5464.3	2549.7	1050.5	917.3	848.3	769.3	710.2	680.6
9557.7	27.5°	9099.0	7925.3	4931.7	1795.1	917.3	818.7	729.9	646.1	577.0	532.6
9503.4	30°	8852.4	7708.3	4339.9	1242.8	833.5	725.0	626.3	527.7	458.6	429.1
9380.1	32.5°	8748.9	7506.1	3693.9	956.8	759.5	641.1	527.7	438.9	384.7	355.1
9335.7	35°	8625.6	7210.2	3067.5	833.5	690.4	557.3	443.9	369.9	325.5	300.8
9370.3	37.5°	8640.4	6973.4	2480.7	754.6	616.5	478.4	379.7	315.6	276.2	251.5
9547.8	40°	8596.0	6786.0	1928.3	685.5	547.4	409.3	320.6	266.3	231.8	207.1
9912.7	42.5°	8798.2	6736.7	1454.9	626.3	478.4	350.2	276.2	226.9	192.3	162.7
10667.3	45°	9138.5	6815.6	1134.3	572.1	409.3	300.8	236.7	187.4	152.9	133.2
11786.8	47.5°	10045.9	7126.3	887.7	527.7	350.2	261.4	197.3	152.9	123.3	103.6
13315.6	50°	11362.7	7821.7	754.6	463.6	295.9	221.9	162.7	118.4	98.6	78.9
15377.1	52.5°	13236.7	8990.5	685.5	409.3	246.6	182.5	128.2	93.7	74.0	59.2
17645.7	55°	15278.4	10450.3	621.4	345.2	207.1	148.0	103.6	74.0	54.2	39.5
19292.9	57.5°	16871.4	11712.8	567.1	286.0	167.7	118.4	78.9	54.2	39.5	24.7
20609.6	60°	18612.3	12600.5	498.1	226.9	138.1	88.8	59.2	39.5	29.6	14.8
22355.4	62.5°	20407.4	13641.1	409.3	177.5	108.5	69.0	44.4	29.6	19.7	4.9
24638.8	65°	22902.9	14454.8	315.6	138.1	83.8	49.3	34.5	24.7	9.9	0.0
26029.6	67.5°	23608.1	14055.4	231.8	108.5	59.2	34.5	24.7	14.8	4.9	0.0
25768.2	69°	22902.9	12659.7	202.2	93.7	49.3	29.6	19.7	9.9	4.9	0.0
24905.1	70°	21615.7	11574.7	177.5	78.9	44.4	29.6	14.8	9.9	4.9	0.0
21457.9	72.5°	18079.7	8877.1	138.1	59.2	34.5	24.7	14.8	9.9	0.0	0.0
16767.8	75°	13261.4	5484.1	103.6	44.4	29.6	19.7	14.8	9.9	0.0	0.0
9533.0	77.5°	7106.6	2002.3	74.0	29.6	19.7	14.8	14.8	9.9	0.0	0.0
2968.9	80°	1948.0	591.8	54.2	19.7	14.8	9.9	9.9	4.9	0.0	0.0
725.0	82.5°	532.6	152.9	34.5	19.7	14.8	9.9	4.9	0.0	0.0	0.0
350.2	85°	286.0	59.2	19.7	14.8	9.9	4.9	0.0	0.0	0.0	0.0
172.6	87.5°	148.0	19.7	14.8	9.9	9.9	4.9	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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