

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: P575368

Luminaire Tested: **EPH-VN-08-730-U-SL2-HSS**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575368
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-08-730-U-SL2-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL2 distribution lens and House Side Shield
Light Source: (128) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

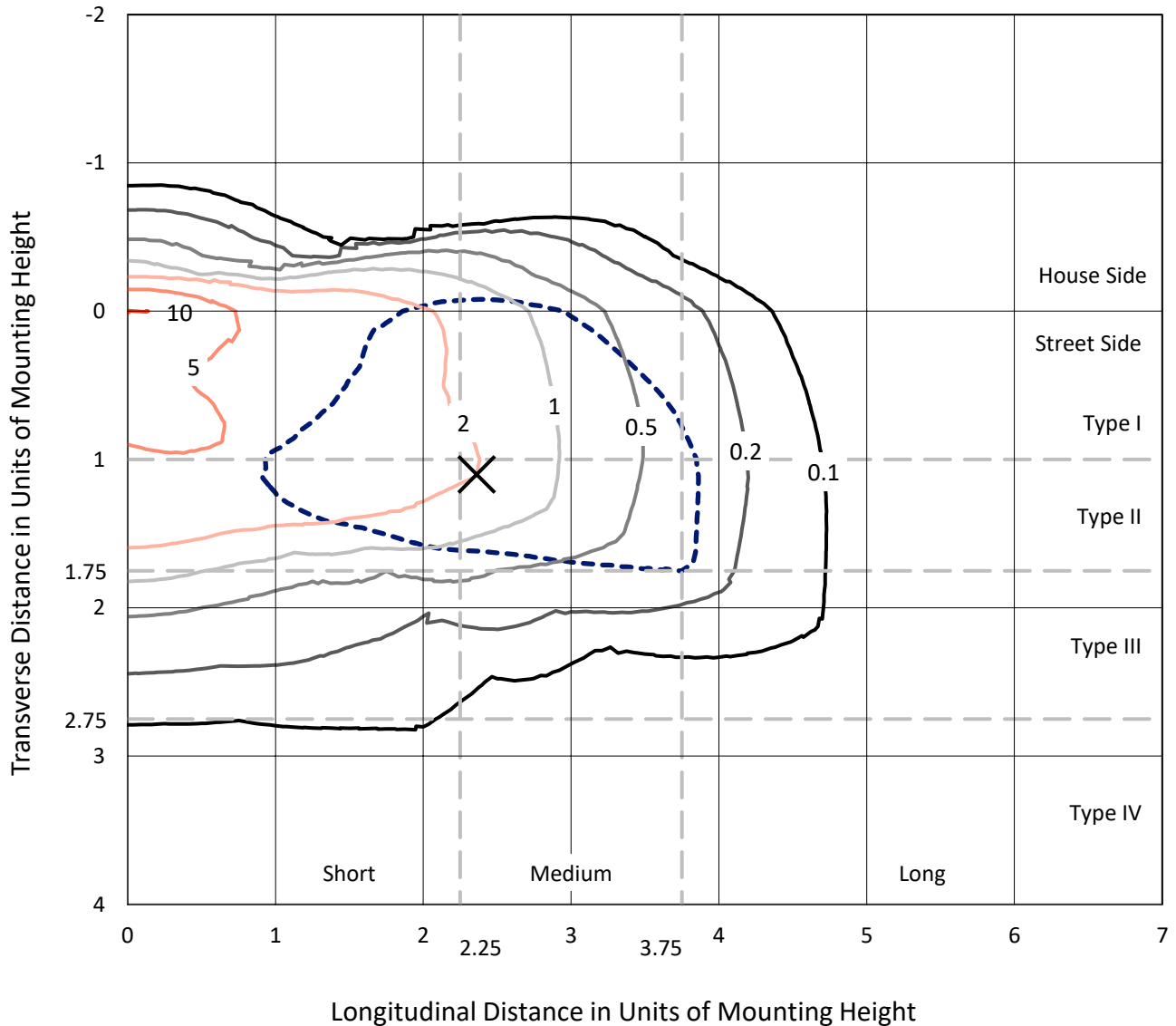
Lumens per Lamp: N/A
Luminaire Lumens: 36103.2 lumens
Efficiency: N/A
Efficacy: 73.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G5

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

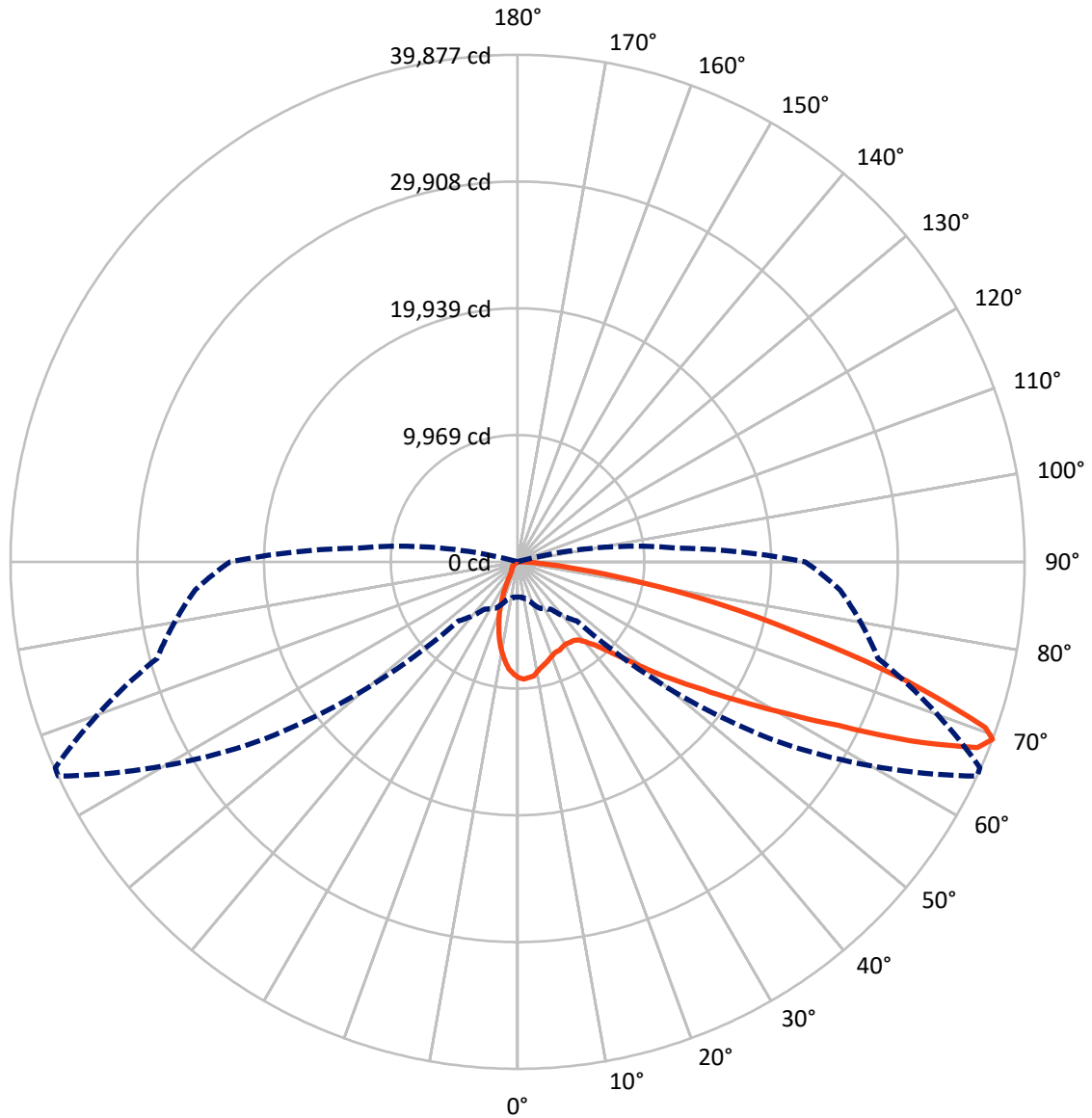
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.1 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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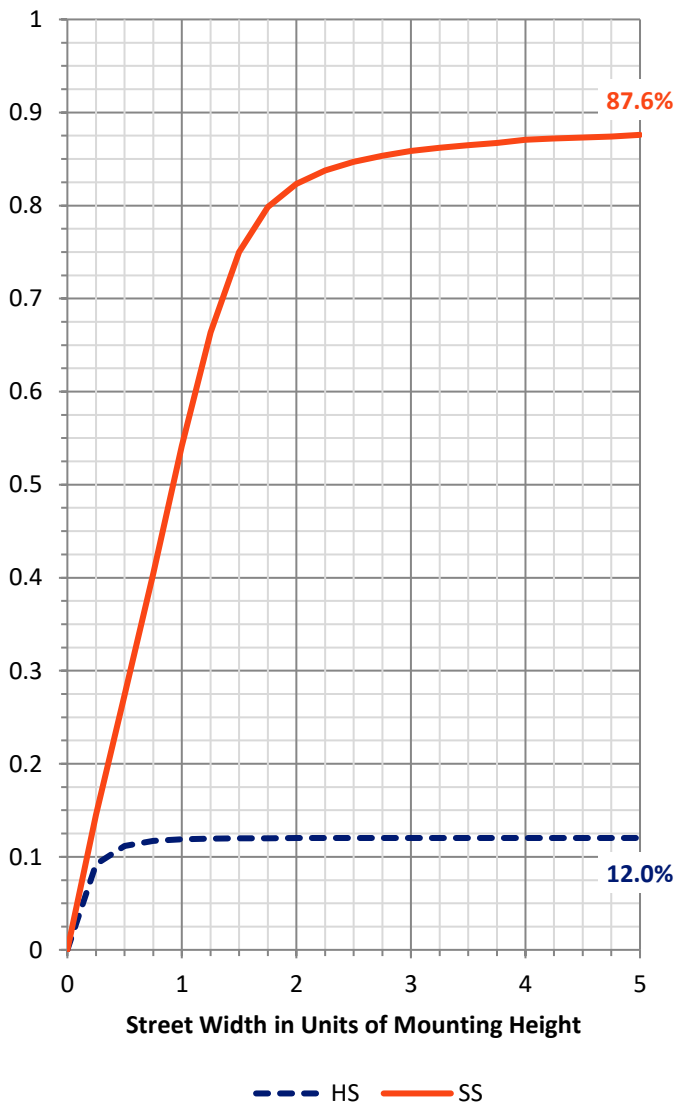
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4379.5	0.0	4379.5
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	31723.7	0.0	31723.7
	% Fixture	87.9	0.0	87.9
Total	Lumens	36103.2	0.0	36103.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	744.9	2.1
10°-20°	1629.8	4.5
20°-30°	2269.0	6.3
30°-40°	3215.4	8.9
40°-50°	5067.4	14.0
50°-60°	8222.6	22.8
60°-70°	9183.0	25.4
70°-80°	5171.1	14.3
80°-90°	600.0	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°	36103.2	100.0
0°-180°	36103.2	100.0

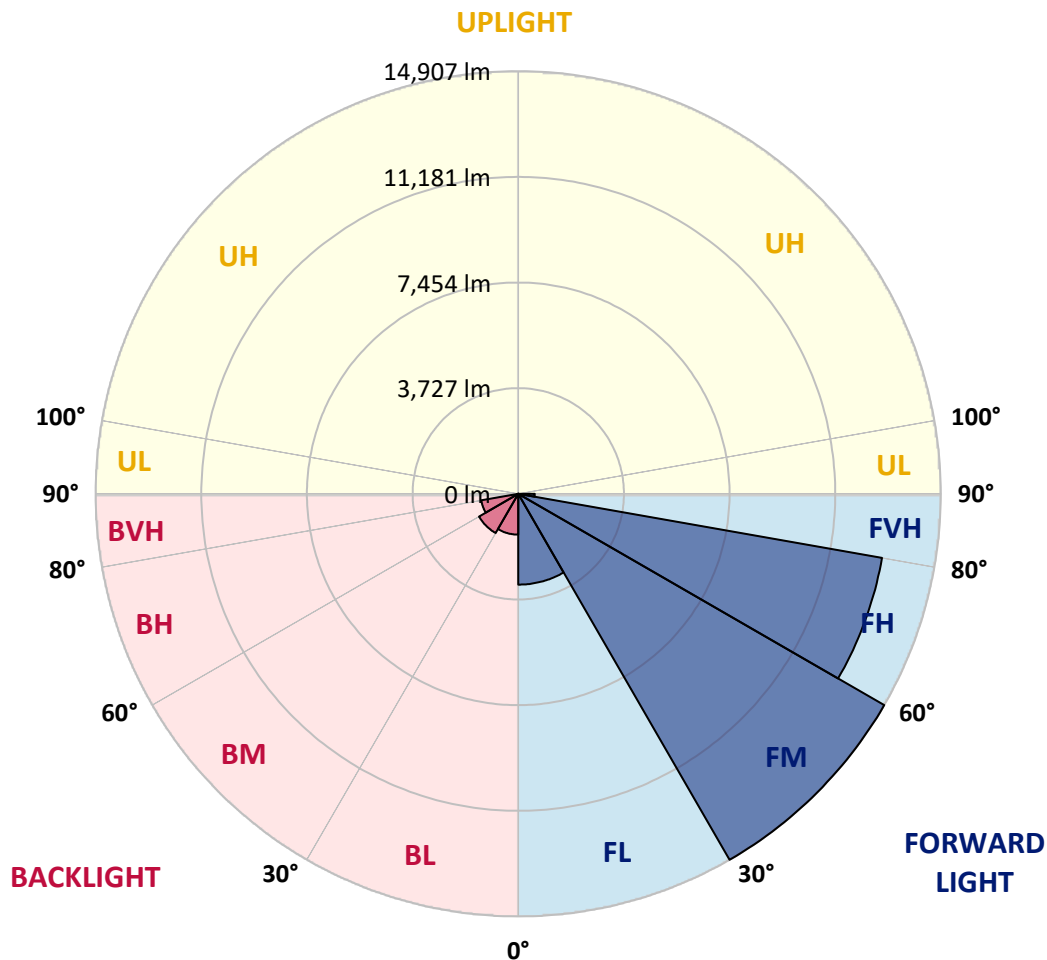


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3203.8	8.9			
FM (30°-60°)	14907.3	41.3			
FH (60°-80°)	13029.0	36.1			G5
FVH (80°-90°)	583.5	1.6			G4/750
BL (0°-30°)	1439.9	4.0	B3/2500		
BM (30°-60°)	1598.1	4.4	B2/2500		
BH (60°-80°)	1325.1	3.7	B3/2500		G3/2500
BVH (80°-90°)	16.5	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°	9102.5	9102.5	9102.5	9102.5	9102.5	9102.5	9102.5	9102.5	9102.5	9102.5
2.5°	8766.4	8834.6	8854.1	8922.3	8956.3	9102.5	9185.2	9234.0	9209.6	9263.2
5°	8143.0	8104.1	8206.3	8279.4	8435.2	8688.5	8946.6	9146.3	9238.8	9326.5
7.5°	7475.8	7456.3	7558.6	7724.2	7865.4	8172.2	8586.2	9078.1	9058.6	9272.9
10°	7018.0	7037.5	7071.6	7237.2	7446.6	7758.3	8274.5	8732.3	8834.6	9287.5
12.5°	6599.2	6633.2	6696.6	6867.0	7110.5	7432.0	7933.6	8469.3	8625.2	9204.7
15°	6462.8	6384.9	6511.5	6638.1	6891.4	7178.7	7602.4	8269.6	8337.8	9107.3
17.5°	6350.8	6302.1	6360.5	6462.8	6730.7	6964.4	7363.8	8055.4	8182.0	9068.4
20°	6384.9	6341.0	6365.4	6443.3	6565.1	6784.2	7154.4	7850.8	7987.2	8888.2
22.5°	6482.3	6516.4	6472.5	6492.0	6531.0	6643.0	7042.3	7704.7	7821.6	8854.1
25°	6920.6	6862.2	6803.7	6779.4	6550.5	6599.2	7008.3	7695.0	7777.8	8732.3
27.5°	7378.4	7329.7	7305.3	7164.1	6852.4	6706.3	7013.1	7558.6	7670.6	8683.6
30°	7933.6	7996.9	7899.5	7729.1	7295.6	6935.2	7066.7	7490.4	7646.3	8498.5
32.5°	8518.0	8552.1	8600.8	8474.2	7914.1	7281.0	7227.4	7553.7	7563.5	8498.5
35°	9180.4	9131.7	9258.3	9268.0	8776.1	7894.6	7534.2	7597.6	7699.8	8459.6
37.5°	9750.2	9833.0	9979.1	10212.9	9706.4	8761.5	8011.5	7802.1	7845.9	8639.8
40°	10373.6	10456.4	10787.6	11021.3	10734.0	9735.6	8737.2	8279.4	8313.5	8907.6
42.5°	11060.3	11221.0	11615.5	12024.6	11946.7	10972.6	9672.3	8980.7	8966.1	9574.9
45°	11990.5	12204.8	12633.4	13105.8	13174.0	12389.9	10919.0	10027.8	10076.5	10446.6
47.5°	13286.0	13276.2	13695.1	14221.1	14615.6	13860.7	12409.3	11435.3	11430.4	11824.9
50°	14537.6	14542.5	14654.5	15263.3	16286.0	15901.3	14255.2	13305.5	13251.9	13446.7
52.5°	15117.2	15049.0	14966.2	15701.6	17571.8	18472.8	16592.9	15424.0	15380.2	15263.3
55°	14508.4	14532.8	14527.9	15292.5	18248.7	21185.5	19592.9	17756.8	17683.8	17318.5
57.5°	12555.4	12477.5	12648.0	13841.2	17474.4	23036.2	23883.6	20698.5	20508.5	19295.8
60°	9346.0	9370.3	9511.6	10919.0	15550.6	23425.8	27989.2	24151.5	23333.3	20688.7
62.5°	6526.1	6477.4	6531.0	7320.0	11118.7	21867.3	30765.2	28349.6	27560.6	22271.6
65°	4670.5	4607.2	4821.5	5303.7	6677.1	16719.5	31159.7	33940.6	33234.4	24799.2
67.5°	3360.5	3350.7	3599.1	4475.7	4743.6	9628.4	28237.6	39005.7	38577.1	27799.3
69°	2780.9	2785.8	3024.4	4008.2	4529.3	6574.8	24297.6	39877.4	39799.5	29348.0
70°	2425.4	2444.9	2722.5	3730.6	4441.6	5406.0	20946.8	39020.3	38942.3	29649.9
72.5°	1495.2	1509.8	1875.0	2990.3	4222.5	4412.4	12526.2	31924.3	32192.2	28266.8
75°	715.9	720.8	983.8	2162.4	4071.5	4183.5	6711.2	23557.3	24122.2	22821.9
77.5°	379.9	379.9	472.4	1149.4	3297.1	3935.1	3983.8	16617.2	17084.8	14430.5
80°	189.9	194.8	287.3	599.0	2045.5	3857.2	3112.1	9910.9	10164.2	5888.1
82.5°	73.1	77.9	136.4	360.4	1061.7	3258.2	2732.2	4875.1	4811.8	1378.3
85°	9.7	9.7	48.7	214.3	452.9	1436.7	2254.9	2035.8	1967.6	302.0
87.5°	0.0	0.0	9.7	63.3	136.4	418.8	871.8	560.1	623.4	82.8
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°
9102.5	0°	9102.5	9102.5	9102.5	9102.5	9102.5	9102.5	9102.5	9102.5	9102.5	9102.5
9268.0	2.5°	9243.7	9141.4	8985.6	8834.6	8673.9	8479.1	8264.8	8186.9	8050.5	8040.7
9311.9	5°	9234.0	9068.4	8795.6	8474.2	8016.4	7670.6	7295.6	7022.9	6813.4	6677.1
9336.2	7.5°	9282.7	9083.0	8610.6	7919.0	7329.7	6643.0	6063.4	5664.1	5298.8	5118.6
9414.1	10°	9204.7	8936.9	8245.3	7276.1	6409.2	5449.8	4602.4	4066.6	3521.2	3321.5
9458.0	12.5°	9248.6	8873.6	7850.8	6613.8	5420.6	4173.8	3160.8	2430.2	1918.9	1753.3
9531.0	15°	9277.8	8737.2	7470.9	5819.9	4324.8	2844.2	1831.2	1378.3	1217.6	1188.3
9521.3	17.5°	9165.8	8571.6	6935.2	5035.8	3204.6	1728.9	1217.6	1125.0	1095.8	1076.3
9506.7	20°	9160.9	8474.2	6472.5	4232.2	2138.0	1178.6	1052.0	1017.9	974.0	959.4
9589.5	22.5°	9078.1	8269.6	5917.3	3350.7	1363.7	1013.0	944.8	891.3	842.5	823.1
9521.3	25°	9053.8	8031.0	5396.2	2517.9	1037.4	905.9	837.7	759.8	701.3	672.1
9438.5	27.5°	8985.6	7826.5	4870.2	1772.8	905.9	808.5	720.8	638.0	569.8	526.0
9384.9	30°	8742.1	7612.2	4285.8	1227.3	823.1	715.9	618.5	521.1	452.9	423.7
9263.2	32.5°	8639.8	7412.5	3647.8	944.8	750.0	633.1	521.1	433.5	379.9	350.7
9219.3	35°	8518.0	7120.3	3029.3	823.1	681.8	550.3	438.3	365.3	321.4	297.1
9253.4	37.5°	8532.6	6886.5	2449.7	745.1	608.8	472.4	375.0	311.7	272.7	248.4
9428.8	40°	8488.8	6701.4	1904.3	677.0	540.6	404.2	316.6	263.0	228.9	204.5
9789.2	42.5°	8688.5	6652.7	1436.7	618.5	472.4	345.8	272.7	224.0	189.9	160.7
10534.3	45°	9024.5	6730.7	1120.2	564.9	404.2	297.1	233.8	185.1	151.0	131.5
11639.8	47.5°	9920.7	7037.5	876.6	521.1	345.8	258.1	194.8	151.0	121.8	102.3
13149.6	50°	11221.0	7724.2	745.1	457.8	292.2	219.2	160.7	116.9	97.4	77.9
15185.4	52.5°	13071.7	8878.4	677.0	404.2	243.5	180.2	126.6	92.5	73.1	58.4
17425.7	55°	15088.0	10320.0	613.6	340.9	204.5	146.1	102.3	73.1	53.6	39.0
19052.3	57.5°	16661.0	11566.8	560.1	282.5	165.6	116.9	77.9	53.6	39.0	24.4
20352.7	60°	18380.2	12443.4	491.9	224.0	136.4	87.7	58.4	39.0	29.2	14.6
22076.7	62.5°	20153.0	13471.0	404.2	175.3	107.1	68.2	43.8	29.2	19.5	4.9
24331.7	65°	22617.3	14274.6	311.7	136.4	82.8	48.7	34.1	24.4	9.7	0.0
25705.1	67.5°	23313.8	13880.1	228.9	107.1	58.4	34.1	24.4	14.6	4.9	0.0
25446.9	69°	22617.3	12501.9	199.7	92.5	48.7	29.2	19.5	9.7	4.9	0.0
24594.6	70°	21346.2	11430.4	175.3	77.9	43.8	29.2	14.6	9.7	4.9	0.0
21190.4	72.5°	17854.3	8766.4	136.4	58.4	34.1	24.4	14.6	9.7	0.0	0.0
16558.8	75°	13096.0	5415.7	102.3	43.8	29.2	19.5	14.6	9.7	0.0	0.0
9414.1	77.5°	7018.0	1977.3	73.1	29.2	19.5	14.6	14.6	9.7	0.0	0.0
2931.9	80°	1923.7	584.4	53.6	19.5	14.6	9.7	9.7	4.9	0.0	0.0
715.9	82.5°	526.0	151.0	34.1	19.5	14.6	9.7	4.9	0.0	0.0	0.0
345.8	85°	282.5	58.4	19.5	14.6	9.7	4.9	0.0	0.0	0.0	0.0
170.5	87.5°	146.1	19.5	14.6	9.7	9.7	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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