

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: P575431

Luminaire Tested: **EPH-VN-07-760-U-SL3-HSS**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575431
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-07-760-U-SL3-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL3 distribution lens and House Side Shield
Light Source: (112) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

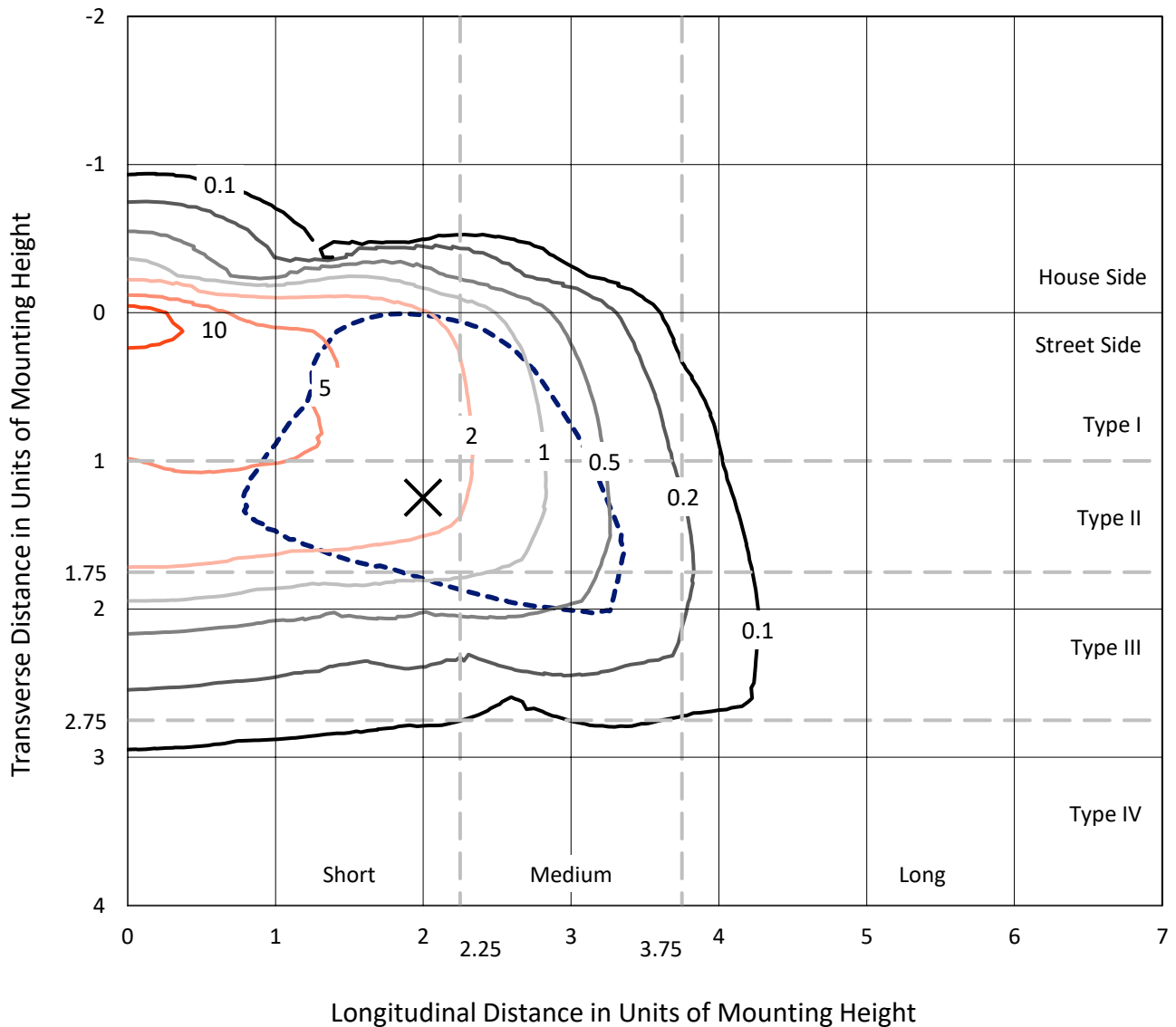
Lumens per Lamp: N/A
Luminaire Lumens: 41728.4 lumens
Efficiency: N/A
Efficacy: 98.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 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

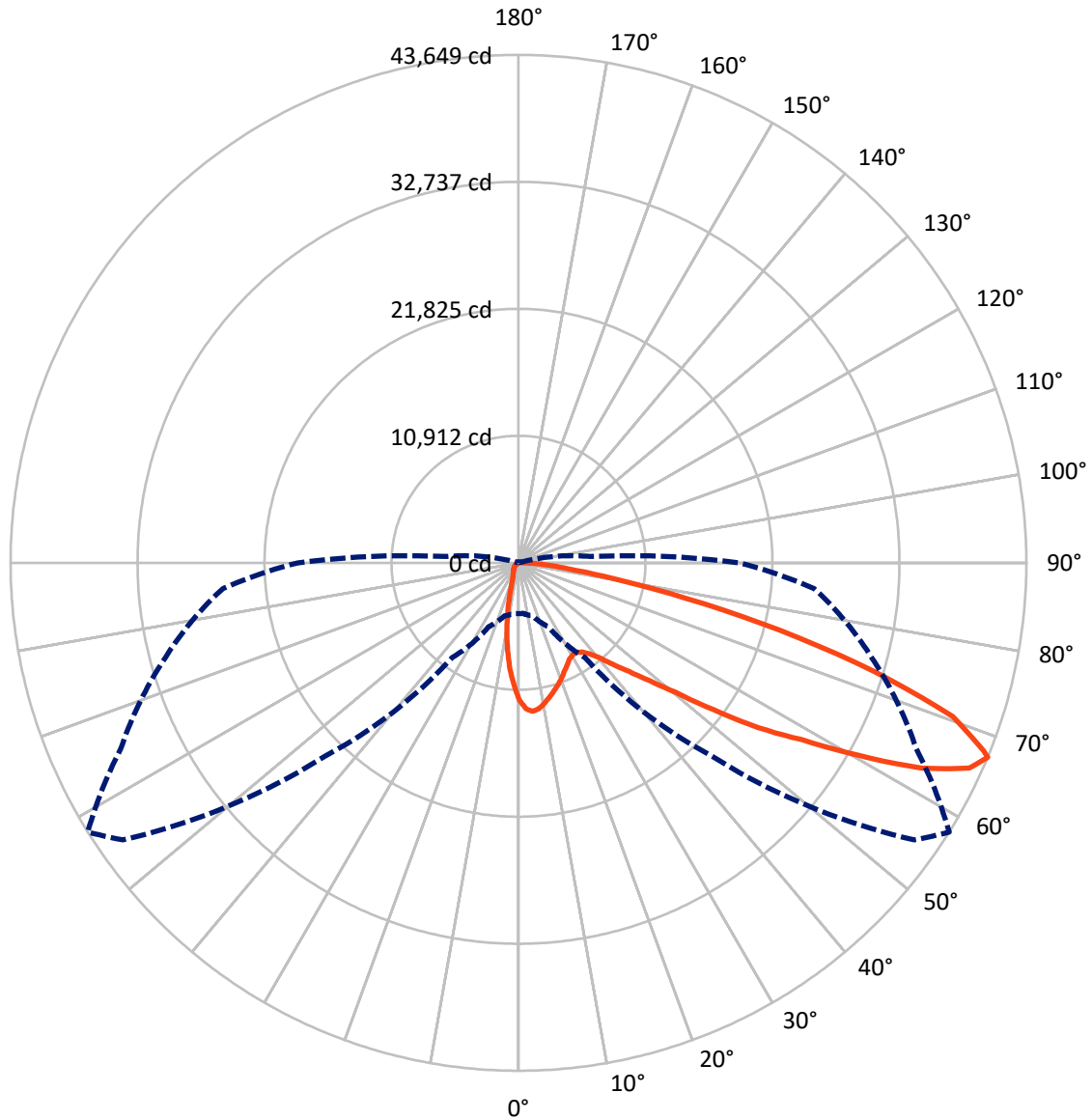
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13.2 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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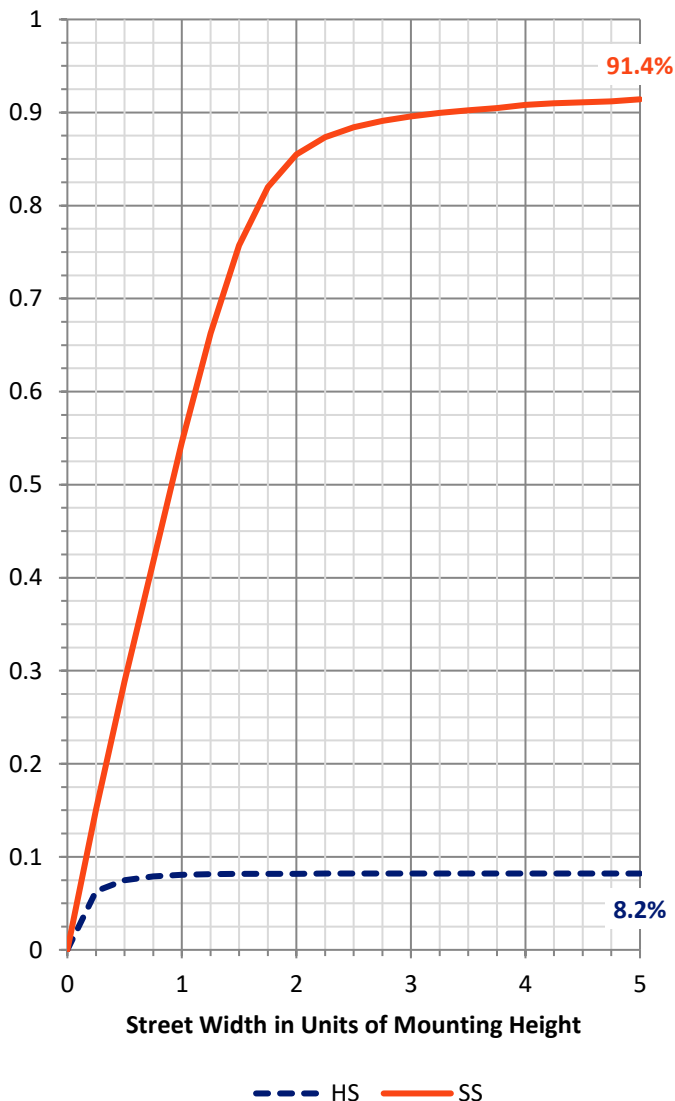
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3449.1	0.0	3449.1
	% Fixture	8.3	0.0	8.3
Street Side	Lumens	38279.3	0.0	38279.3
	% Fixture	91.7	0.0	91.7
Total	Lumens	41728.4	0.0	41728.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	938.0	2.2
10°-20°	1945.7	4.7
20°-30°	2581.5	6.2
30°-40°	3577.1	8.6
40°-50°	5836.8	14.0
50°-60°	10259.2	24.6
60°-70°	11362.9	27.2
70°-80°	4708.8	11.3
80°-90°	518.3	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°	41728.4	100.0
0°-180°	41728.4	100.0

Coefficient of Utilization



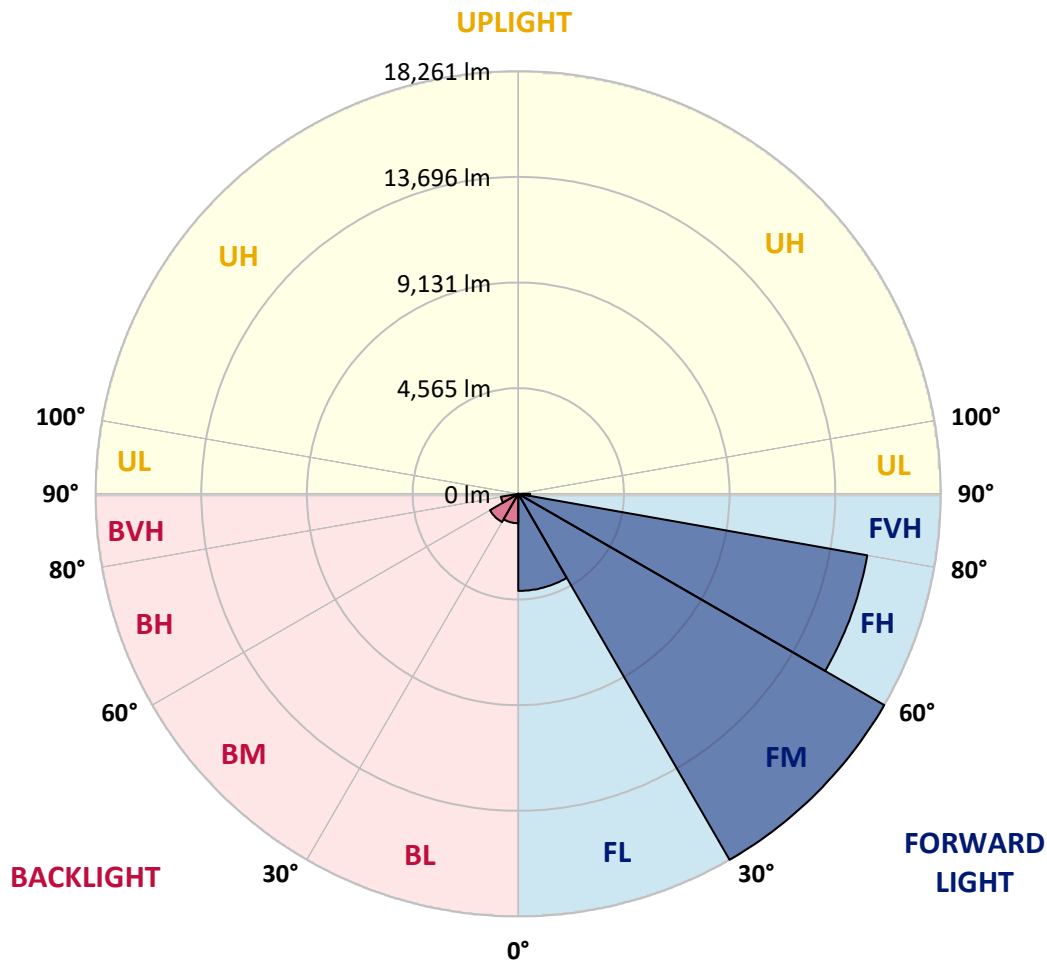
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4194.9	10.1			
FM (30°-60°)	18261.2	43.8			
FH (60°-80°)	15313.4	36.7			G5
FVH (80°-90°)	509.8	1.2			G4/750
BL (0°-30°)	1270.3	3.0	B3/2500		
BM (30°-60°)	1411.9	3.4	B2/2500		
BH (60°-80°)	758.3	1.8	B2/1000		G2/1000
BVH (80°-90°)	8.5	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°	11822.2	11822.2	11822.2	11822.2	11822.2	11822.2	11822.2	11822.2	11822.2	11822.2
2.5°	12863.7	12908.1	12946.8	12874.8	12935.8	12847.1	12620.0	12570.1	12531.3	12193.4
5°	12858.2	12808.3	12847.1	12880.4	12797.3	12863.7	12808.3	12813.9	12664.3	12359.6
7.5°	11999.5	11977.3	11999.5	12160.2	12343.0	12487.0	12570.1	12653.2	12553.5	12099.2
10°	10841.7	10952.5	11013.4	11301.5	11584.0	11849.9	12110.3	12265.4	12237.7	12054.9
12.5°	10032.8	9999.6	10221.2	10409.5	10692.1	11229.5	11683.7	11827.8	11994.0	11739.1
15°	9284.9	9196.3	9329.3	9656.1	10138.1	10564.7	11201.8	11417.8	11628.3	11694.8
17.5°	8570.3	8614.6	8753.1	9046.7	9501.0	10099.3	10697.6	11007.9	11512.0	11423.4
20°	8226.8	8321.0	8370.8	8520.4	8836.2	9434.5	10326.4	10575.7	11113.1	11417.8
22.5°	8243.4	8243.4	8127.1	8215.7	8503.8	8969.2	9822.3	10099.3	10952.5	11129.7
25°	8420.7	8309.9	8315.4	8210.2	8332.1	8586.9	9368.0	9706.0	10625.6	11157.4
27.5°	8553.7	8531.5	8498.3	8470.6	8315.4	8354.2	9068.9	9345.9	10498.2	11124.2
30°	9035.6	8935.9	8902.7	8841.7	8636.8	8448.4	8830.7	9179.7	10398.5	11201.8
32.5°	9440.1	9456.7	9484.4	9307.1	9129.8	8664.5	8897.1	9174.1	10326.4	11379.0
35°	9949.7	10021.7	10032.8	9977.4	9789.1	9329.3	9174.1	9412.4	10448.3	11694.8
37.5°	10725.3	10647.8	10858.3	10880.4	10747.5	10138.1	9816.8	9910.9	10808.4	12198.9
40°	11229.5	11323.6	11717.0	11960.7	11733.6	11179.6	10747.5	10730.9	11329.2	12991.2
42.5°	11789.0	11999.5	12431.6	12957.9	12930.2	12415.0	11977.3	11905.3	12254.3	14137.9
45°	12553.5	12741.9	13345.7	14137.9	14570.0	14132.4	13473.1	13329.1	13378.9	15700.2
47.5°	13822.1	13772.3	14642.1	15423.2	16132.3	15794.4	15511.8	15090.8	15052.0	17539.4
50°	15257.0	15245.9	16021.5	16907.9	17727.8	18387.1	17916.2	17456.3	17467.4	20038.0
52.5°	16619.8	16835.9	17672.4	18553.3	19960.4	20669.5	21123.8	20941.0	20060.1	22270.5
55°	17340.0	17528.4	18359.4	19877.3	22098.8	23921.5	25151.3	24996.2	23295.4	24785.7
57.5°	16658.6	16786.0	17910.6	19899.5	23594.6	27660.9	28840.9	28647.0	26641.6	26708.0
60°	13805.5	14005.0	15678.0	18010.3	23012.9	30541.7	33921.0	33627.4	29688.5	29140.1
62.5°	9561.9	9694.9	11068.8	13971.7	20254.0	31544.4	38718.6	38879.3	32901.7	31034.7
65°	6193.7	6182.6	6969.2	8935.9	14354.0	28508.5	41555.1	42552.3	36004.1	31322.8
67°	4376.6	4359.9	4731.1	6060.7	9938.6	23489.3	41505.2	43649.2	37688.2	31405.9
67.5°	4038.6	4022.0	4376.6	5573.2	8969.2	21844.0	40884.7	43084.1	38281.0	31289.6
70°	3135.6	3091.3	3224.2	3839.2	5224.2	14126.8	34990.2	39577.3	37051.1	28386.6
72.5°	2265.8	2315.7	2526.2	3152.2	4099.6	7600.8	26669.3	32004.2	30946.1	21395.2
75°	1578.9	1623.2	1961.1	2570.5	3761.6	4609.2	18032.5	23212.3	21555.9	11811.1
77.5°	825.5	880.9	1252.0	2055.3	3418.1	3567.7	10775.2	14719.6	11423.4	4204.8
80°	382.3	410.0	626.0	1457.0	2858.6	3135.6	6282.3	8188.0	4570.4	941.8
82.5°	166.2	182.8	288.1	836.5	2027.6	2742.3	3889.0	4293.5	1656.4	304.7
85°	33.2	38.8	110.8	443.2	980.6	1662.0	2731.2	2548.4	831.0	149.6
87.5°	0.0	0.0	27.7	127.4	265.9	493.1	1157.8	1157.8	254.8	77.6
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°
11822.2	0°	11822.2	11822.2	11822.2	11822.2	11822.2	11822.2	11822.2	11822.2	11822.2	11822.2
11999.5	2.5°	11827.8	11628.3	11190.7	10786.3	10498.2	10171.3	9739.2	9545.3	9473.3	9373.6
11816.7	5°	11517.5	11273.8	10525.9	9772.5	8947.0	8321.0	7656.2	7268.4	6974.8	6792.0
11572.9	7.5°	11079.9	10581.3	9573.0	8365.3	7296.1	6365.4	5357.1	4675.7	4238.1	4060.8
11307.0	10°	10730.9	10082.7	8548.1	7046.8	5623.0	4260.2	3124.5	2526.2	2071.9	1900.2
10958.0	12.5°	10276.6	9501.0	7589.7	5700.6	3911.2	2537.3	1728.5	1501.3	1373.9	1351.7
10769.6	15°	9899.9	8974.7	6681.2	4415.3	2531.8	1584.4	1346.2	1290.8	1257.6	1246.5
10487.1	17.5°	9645.0	8409.6	5750.5	3213.2	1667.5	1296.3	1240.9	1207.7	1191.1	1185.5
10210.1	20°	9140.9	7933.2	4830.8	2249.2	1301.9	1196.6	1152.3	1124.6	1108.0	1102.4
9960.8	22.5°	8852.8	7329.3	3911.2	1567.8	1157.8	1085.8	1052.6	1030.4	1002.7	986.1
9827.8	25°	8564.7	6886.1	3091.3	1218.8	1052.6	1002.7	952.9	925.2	880.9	858.7
9622.9	27.5°	8226.8	6448.5	2382.2	1058.1	947.3	897.5	847.6	803.3	747.9	725.7
9506.5	30°	8032.9	6021.9	1794.9	947.3	869.8	803.3	742.4	687.0	626.0	587.2
9622.9	32.5°	7933.2	5634.1	1346.2	864.2	786.7	714.7	637.1	570.6	515.2	482.0
9634.0	35°	7811.3	5257.4	1058.1	786.7	709.1	631.6	554.0	487.5	432.1	404.4
10055.0	37.5°	7938.7	5035.8	880.9	725.7	648.2	559.5	476.4	410.0	365.6	337.9
10575.7	40°	8287.7	4853.0	764.5	670.3	587.2	493.1	415.5	349.0	310.2	288.1
11401.2	42.5°	8825.1	4853.0	692.5	614.9	531.8	432.1	354.6	304.7	265.9	243.8
12808.3	45°	9800.1	5002.6	631.6	559.5	465.4	371.2	304.7	254.8	216.1	193.9
14752.9	47.5°	11168.5	5346.0	581.7	509.7	415.5	326.9	265.9	216.1	177.3	155.1
17040.8	50°	13007.8	6127.2	531.8	448.7	371.2	282.5	221.6	171.7	138.5	116.3
19489.5	52.5°	15301.3	7235.2	482.0	415.5	315.8	238.2	177.3	138.5	105.3	88.6
21904.9	55°	17727.8	8592.4	421.0	371.2	271.5	199.4	144.0	105.3	77.6	66.5
24824.5	57.5°	20170.9	9639.5	371.2	321.3	221.6	160.7	116.3	83.1	55.4	44.3
26702.5	60°	21467.3	9739.2	321.3	265.9	177.3	127.4	88.6	60.9	38.8	27.7
27262.0	62.5°	21666.7	8852.8	277.0	216.1	144.0	99.7	60.9	44.3	22.2	11.1
27090.3	65°	20641.8	7379.2	238.2	171.7	110.8	72.0	44.3	27.7	11.1	5.5
25500.3	67°	18979.8	6182.6	205.0	144.0	88.6	55.4	33.2	16.6	5.5	0.0
24802.3	67.5°	18337.2	5850.2	193.9	133.0	83.1	49.9	27.7	16.6	5.5	0.0
19805.3	70°	14232.1	4177.1	144.0	94.2	60.9	38.8	22.2	11.1	0.0	0.0
12586.7	72.5°	8719.9	2443.1	110.8	66.5	44.3	27.7	16.6	5.5	0.0	0.0
5362.7	75°	3656.4	842.1	94.2	49.9	33.2	16.6	11.1	5.5	0.0	0.0
1479.2	77.5°	952.9	315.8	66.5	33.2	22.2	16.6	11.1	5.5	0.0	0.0
509.7	80°	387.8	144.0	44.3	22.2	22.2	16.6	11.1	5.5	0.0	0.0
315.8	82.5°	254.8	66.5	27.7	22.2	16.6	11.1	5.5	0.0	0.0	0.0
249.3	85°	193.9	38.8	16.6	16.6	11.1	5.5	0.0	0.0	0.0	0.0
94.2	87.5°	83.1	22.2	16.6	11.1	11.1	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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