

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: P575459

Luminaire Tested: **EPH-VN-07-740-U-SL4-HSS**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575459
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-07-740-U-SL4-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL4 distribution lens and House Side Shield
Light Source: (112) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

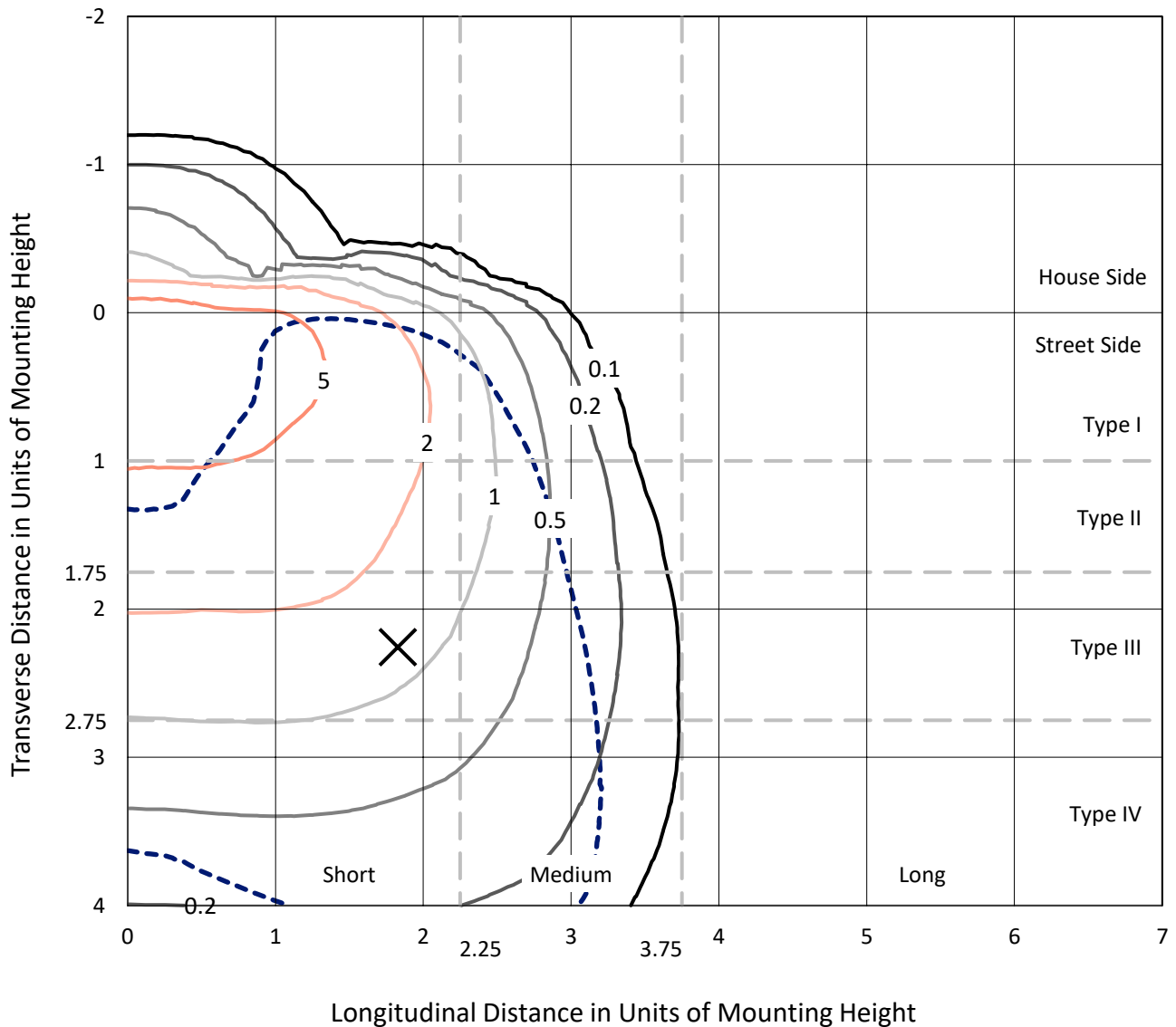
Lumens per Lamp: N/A
Luminaire Lumens: 46635.5 lumens
Efficiency: N/A
Efficacy: 110.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

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

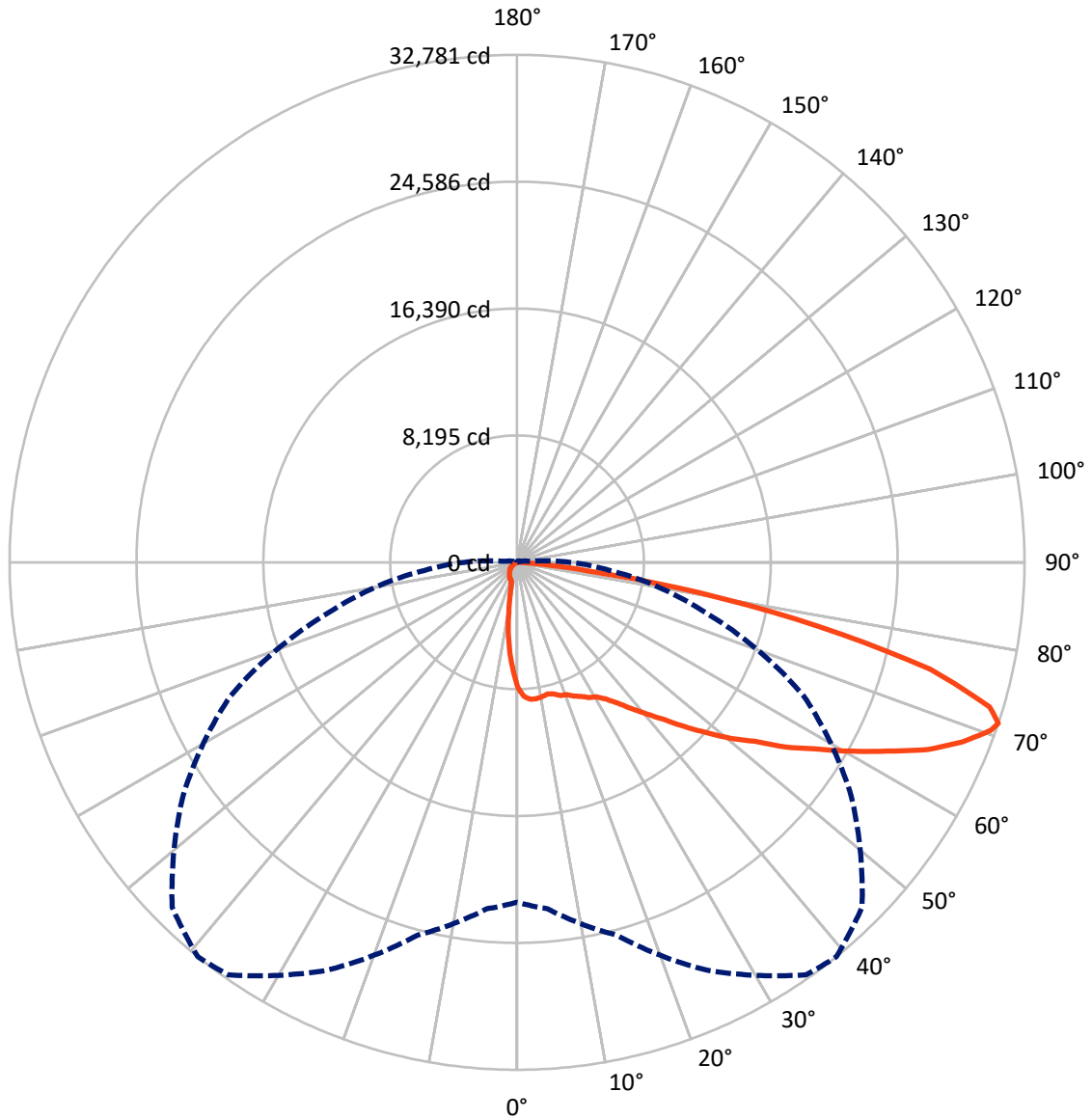
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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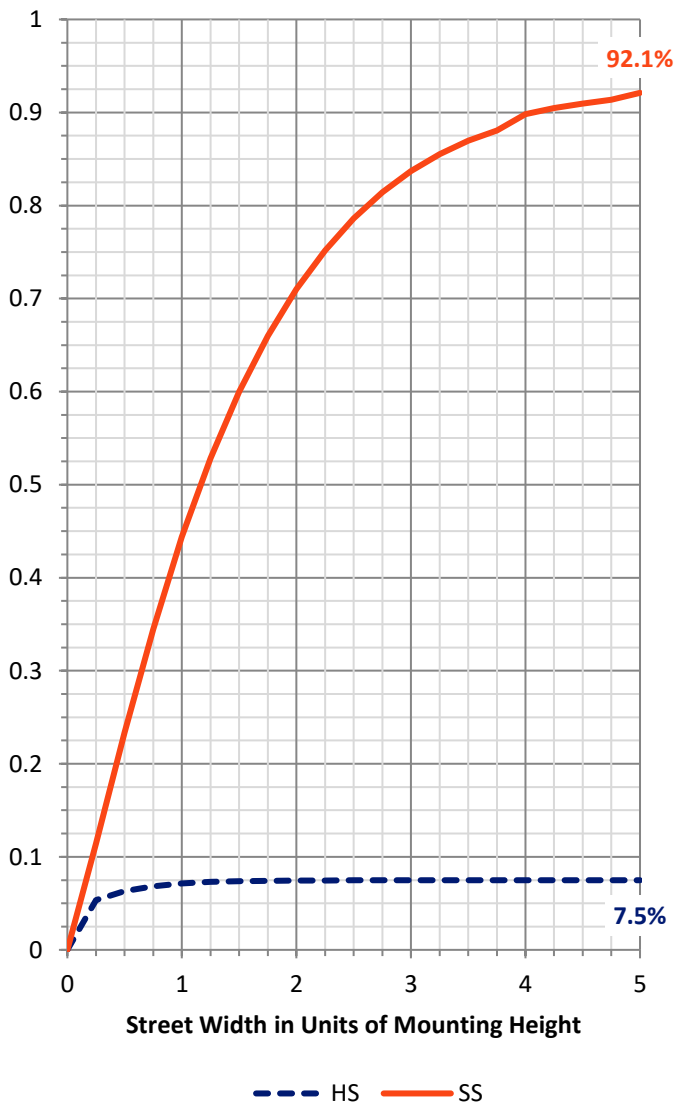
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3510.9	0.0	3510.9
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	43124.6	0.0	43124.6
	% Fixture	92.5	0.0	92.5
Total	Lumens	46635.5	0.0	46635.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	678.7	1.5
10°-20°	1670.4	3.6
20°-30°	2681.5	5.8
30°-40°	4104.8	8.8
40°-50°	6588.9	14.1
50°-60°	9678.1	20.8
60°-70°	12189.2	26.1
70°-80°	8134.8	17.4
80°-90°	909.1	1.9
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°	46635.5	100.0
0°-180°	46635.5	100.0

Coefficient of Utilization



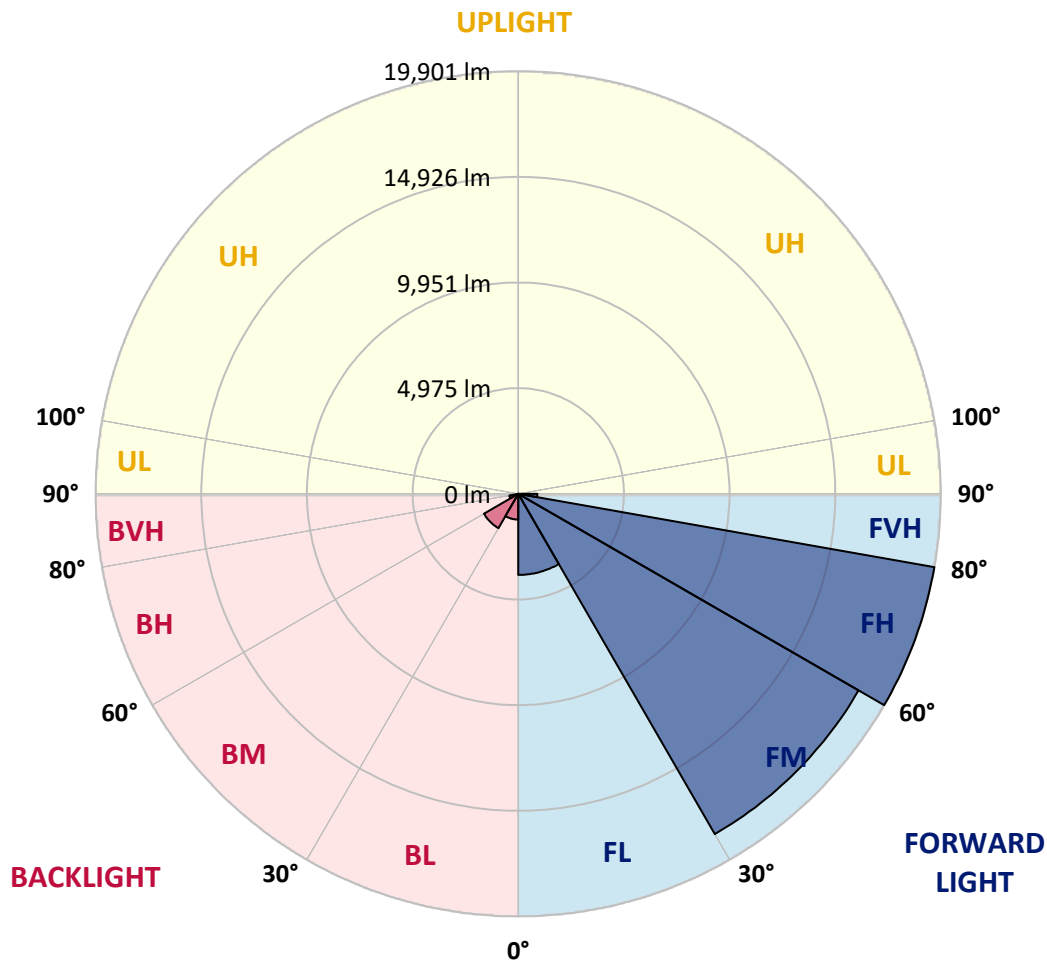
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3818.5	8.2			
FM (30°-60°)	18505.7	39.7			
FH (60°-80°)	19901.4	42.7			G5
FVH (80°-90°)	899.1	1.9			G5
BL (0°-30°)	1212.1	2.6	B3/2500		
BM (30°-60°)	1866.2	4.0	B2/2500		
BH (60°-80°)	422.6	0.9	B1/500		G1/500
BVH (80°-90°)	10.0	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°
0°	8117.2	8117.2	8117.2	8117.2	8117.2	8117.2	8117.2	8117.2	8117.2	8117.2
2.5°	8747.3	8832.9	8747.3	8710.6	8673.9	8680.0	8582.1	8600.4	8484.2	8331.3
5°	9022.5	9138.7	9047.0	9004.2	8998.1	8881.8	8832.9	8716.7	8576.0	8337.4
7.5°	8998.1	8973.6	9016.4	8979.7	8900.2	8900.2	8845.1	8680.0	8539.3	8270.1
10°	8814.5	8887.9	8851.2	8808.4	8826.8	8832.9	8728.9	8612.7	8569.9	8300.7
12.5°	8796.2	8673.9	8808.4	8814.5	8735.0	8728.9	8716.7	8686.1	8551.5	8306.8
15°	8735.0	8686.1	8820.7	8826.8	8845.1	8826.8	8845.1	8820.7	8686.1	8545.4
17.5°	8784.0	8728.9	8918.5	9010.3	8967.5	9053.1	9022.5	8912.4	8796.2	8631.0
20°	8796.2	8875.7	9083.7	9120.4	9255.0	9114.3	9108.2	8991.9	8918.5	8741.1
22.5°	9022.5	9059.2	9316.1	9395.7	9401.8	9383.4	9230.5	9095.9	9065.3	8845.1
25°	9365.1	9493.5	9609.7	9658.7	9677.0	9591.4	9432.4	9261.1	9187.7	9047.0
27.5°	9970.6	9891.1	9995.1	10068.5	9860.5	9891.1	9689.3	9542.5	9438.5	9316.1
30°	10508.9	10435.5	10441.7	10429.4	10252.0	10086.9	10031.8	9774.9	9646.5	9695.4
32.5°	10992.2	10833.1	10967.7	10906.5	10576.2	10527.3	10484.5	10160.3	10184.7	10411.1
35°	11438.7	11383.7	11493.8	11383.7	11163.5	11151.2	11108.4	10827.0	10961.6	11285.8
37.5°	11848.6	11866.9	12001.5	11946.4	11964.8	11977.0	11952.5	11652.8	12038.2	12766.1
40°	12227.8	12203.3	12533.7	12704.9	12741.6	12876.2	12876.2	12802.8	13396.1	14215.8
42.5°	12631.5	12692.7	13120.9	13408.4	13757.0	13873.3	14032.3	14069.0	14986.6	15922.5
45°	13292.2	13188.2	13732.6	14411.6	14717.4	15127.2	15371.9	15579.9	16687.1	17971.6
47.5°	14130.2	13922.2	14399.3	15384.2	16093.7	16430.2	16870.6	17145.8	18228.5	19555.9
50°	15060.0	14845.9	15078.3	16436.3	17262.1	17873.8	18436.5	18785.2	20094.2	21329.8
52.5°	16112.1	15916.3	15953.0	17531.2	18748.5	19195.0	19935.2	20455.1	21758.0	22400.3
55°	17231.5	17182.5	17066.3	18601.7	20051.4	21054.6	21501.1	22125.1	23464.7	22981.4
57.5°	18357.0	18204.1	18369.2	20020.8	22143.4	22742.9	23360.7	23733.8	24412.8	23489.1
60°	19415.2	19427.5	19659.9	21562.3	23923.4	24773.7	25330.3	25104.0	25385.4	23709.3
62.5°	20308.3	20283.8	20871.1	23293.4	26278.5	26853.5	27269.4	26260.1	25838.1	23923.4
65°	21109.6	21384.9	22308.6	25354.8	28492.8	29153.4	28902.6	27355.1	26278.5	23293.4
67.5°	21715.2	22125.1	23727.7	27293.9	30523.6	30988.5	30639.9	28187.0	25758.5	20822.1
70°	22070.0	22486.0	24743.1	28908.8	32144.6	32481.1	31661.4	27544.7	22724.5	15078.3
71°	21959.9	22467.6	24938.9	29080.0	32530.0	32780.8	31508.5	26358.0	20436.8	12625.4
72.5°	20962.8	21440.0	24125.3	28957.7	32065.1	31912.2	30315.7	23507.5	16087.6	8049.9
75°	15402.5	15916.3	20705.9	25049.0	28621.3	27569.2	24535.1	16497.4	8392.5	2465.1
77.5°	7670.7	7756.3	12851.7	18185.7	20993.4	19947.4	16442.4	9199.9	3138.0	727.9
80°	3535.6	3560.1	4820.2	9420.1	12692.7	11946.4	9212.1	4538.8	1419.1	385.4
82.5°	2410.1	2446.8	2905.6	3902.6	5511.4	4648.9	3731.3	2905.6	813.6	232.4
85°	440.4	403.7	1627.1	2067.5	2128.7	1443.6	1290.7	2514.1	305.8	134.6
87.5°	0.0	6.1	226.3	844.1	758.5	336.4	440.4	611.7	30.6	42.8
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°
8117.2	0°	8117.2	8117.2	8117.2	8117.2	8117.2	8117.2	8117.2	8117.2	8117.2	8117.2
8209.0	2.5°	8105.0	8037.7	7811.4	7560.6	7334.2	7156.8	6930.5	6826.5	6661.4	6569.6
8190.6	5°	7988.8	7805.2	7413.8	6991.7	6520.7	6129.2	5694.9	5450.2	5168.8	5083.2
8019.3	7.5°	7793.0	7530.0	6955.0	6361.6	5639.8	4948.6	4416.4	3847.6	3498.9	3352.1
7890.9	10°	7670.7	7352.6	6569.6	5682.7	4673.4	3700.8	2954.5	2348.9	2030.8	1877.9
7921.5	12.5°	7670.7	7328.1	6257.7	5034.3	3694.6	2532.4	1829.0	1480.3	1376.3	1339.6
8056.0	15°	7652.3	7279.2	5957.9	4367.5	2734.3	1700.5	1364.1	1290.7	1278.4	1272.3
8184.5	17.5°	7744.1	7193.5	5652.1	3651.8	1933.0	1339.6	1254.0	1241.7	1229.5	1229.5
8264.0	20°	7811.4	7144.6	5285.1	2893.3	1443.6	1241.7	1205.0	1186.7	1180.6	1174.5
8282.4	22.5°	7756.3	7071.2	4832.4	2165.4	1260.1	1180.6	1156.1	1137.8	1125.5	1125.5
8472.0	25°	7860.3	7003.9	4379.7	1633.2	1180.6	1125.5	1101.1	1088.8	1082.7	1076.6
8692.2	27.5°	8001.0	7034.5	3841.5	1315.1	1113.3	1070.5	1046.0	1033.8	1027.6	1015.4
9034.8	30°	8172.3	7028.4	3248.1	1150.0	1052.1	1009.3	984.8	978.7	966.5	960.4
9548.6	32.5°	8465.9	7187.4	2636.4	1064.4	984.8	948.1	923.7	917.5	911.4	905.3
10429.4	35°	9095.9	7383.2	2061.4	997.1	923.7	880.8	862.5	850.3	844.1	838.0
11457.1	37.5°	9872.8	7817.5	1572.1	935.9	862.5	819.7	801.3	795.2	770.7	764.6
12882.3	40°	10845.4	8282.4	1211.2	868.6	807.4	764.6	746.3	727.9	697.3	685.1
14338.2	42.5°	12056.5	8735.0	997.1	807.4	746.3	715.7	685.1	654.5	630.0	605.6
15794.0	45°	13267.7	9261.1	874.7	752.4	697.3	660.6	636.2	593.3	550.5	513.8
17170.3	47.5°	14277.0	9450.7	801.3	691.2	648.4	617.8	581.1	526.1	464.9	428.2
18173.5	50°	15029.4	9340.6	727.9	630.0	593.3	562.8	513.8	446.5	385.4	348.7
18528.3	52.5°	15176.2	8857.4	660.6	581.1	538.3	501.6	446.5	373.1	305.8	269.1
18913.6	55°	15072.2	8056.0	605.6	538.3	489.4	434.3	373.1	299.7	238.6	201.9
18766.8	57.5°	14858.1	7107.9	544.4	483.2	428.2	373.1	305.8	244.7	177.4	140.7
18430.4	60°	14130.2	5817.2	483.2	422.1	367.0	318.1	250.8	177.4	122.3	91.8
17843.2	62.5°	13114.8	4471.5	422.1	360.9	318.1	263.0	195.7	128.5	73.4	48.9
16191.6	65°	11261.3	3131.9	354.8	299.7	263.0	214.1	146.8	79.5	42.8	18.4
13188.2	67.5°	8557.6	1939.1	293.6	250.8	226.3	171.3	104.0	48.9	18.4	6.1
8227.3	70°	4911.9	1009.3	232.4	201.9	177.4	128.5	73.4	24.5	12.2	0.0
6000.7	71°	3431.6	746.3	208.0	177.4	159.0	116.2	61.2	18.4	6.1	0.0
3101.3	72.5°	1718.9	495.5	177.4	146.8	128.5	91.8	48.9	18.4	6.1	0.0
905.3	75°	611.7	318.1	122.3	97.9	91.8	67.3	30.6	12.2	6.1	0.0
452.7	77.5°	422.1	256.9	85.6	61.2	61.2	42.8	18.4	6.1	6.1	0.0
354.8	80°	385.4	140.7	55.1	36.7	30.6	24.5	12.2	6.1	0.0	0.0
348.7	82.5°	385.4	104.0	30.6	24.5	18.4	12.2	6.1	0.0	0.0	0.0
305.8	85°	269.1	55.1	18.4	18.4	12.2	6.1	0.0	0.0	0.0	0.0
55.1	87.5°	42.8	18.4	12.2	6.1	6.1	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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