

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: EPHEBUS

Report Number: P575373

Luminaire Tested: **EPH-VN-07-735-U-SL2-HSS**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575373
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-07-735-U-SL2-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL2 distribution lens and House Side Shield
Light Source: (112) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

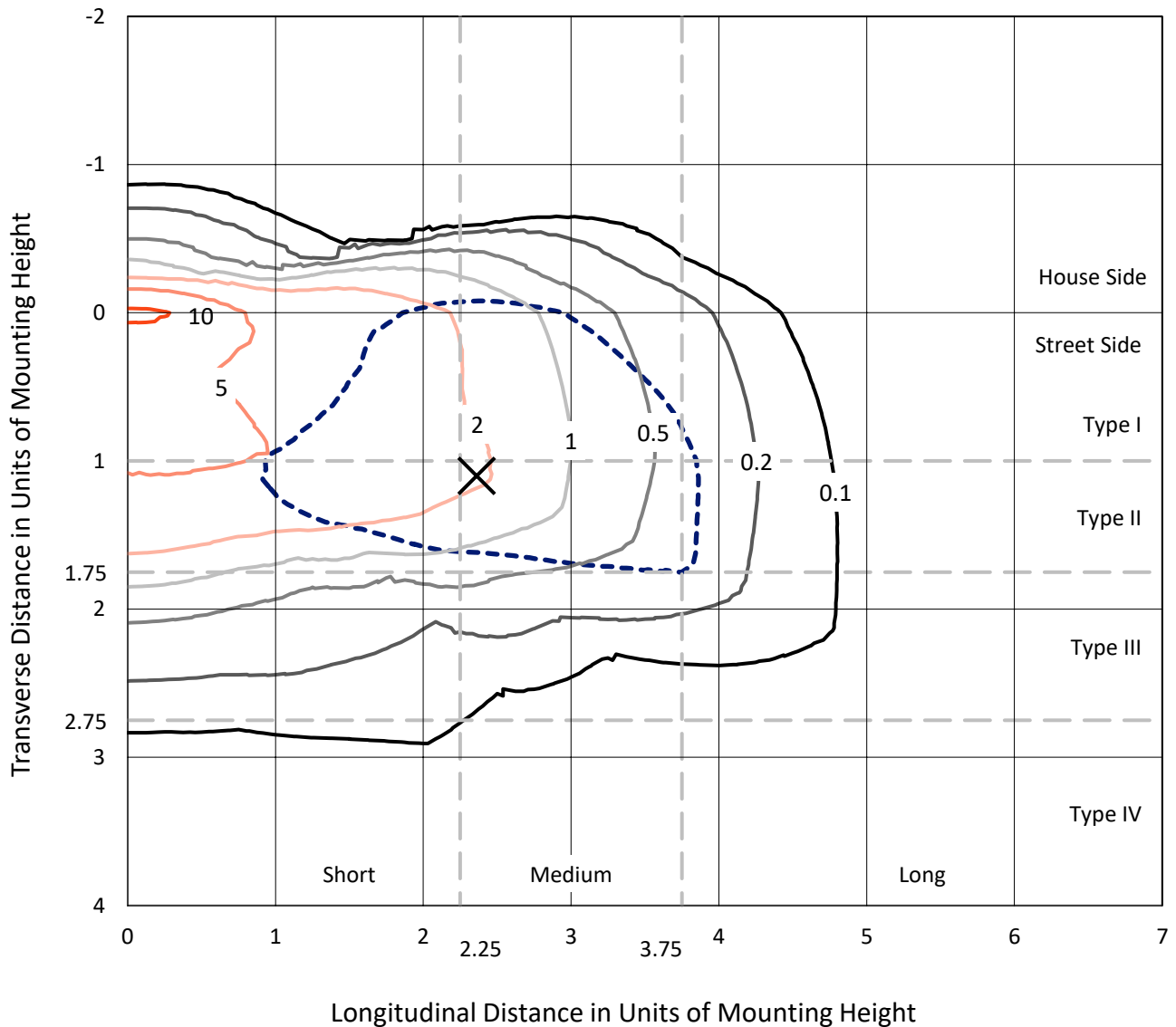
Lumens per Lamp: N/A
Luminaire Lumens: 39598.2 lumens
Efficiency: N/A
Efficacy: 93.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G5

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

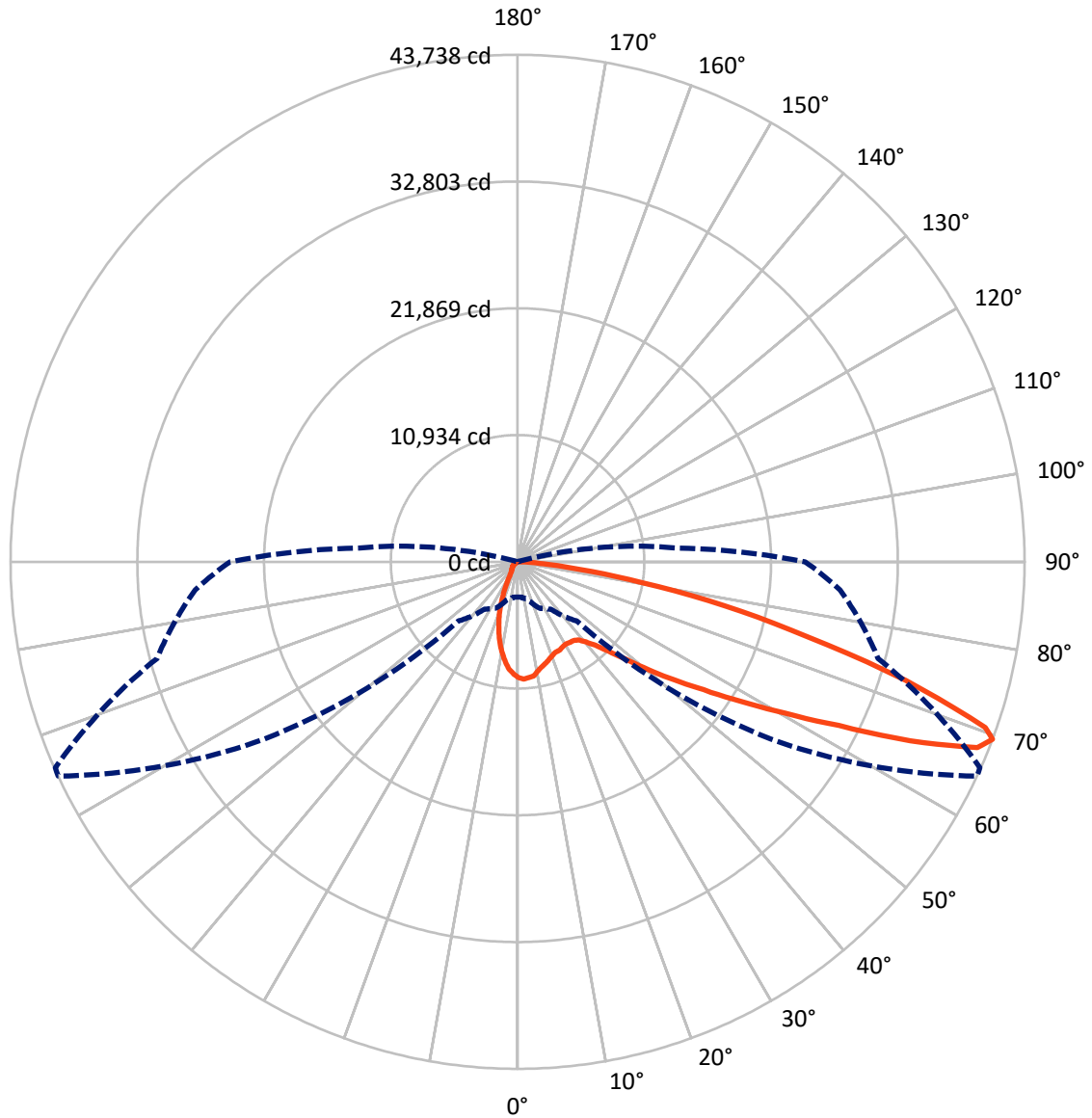
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.1 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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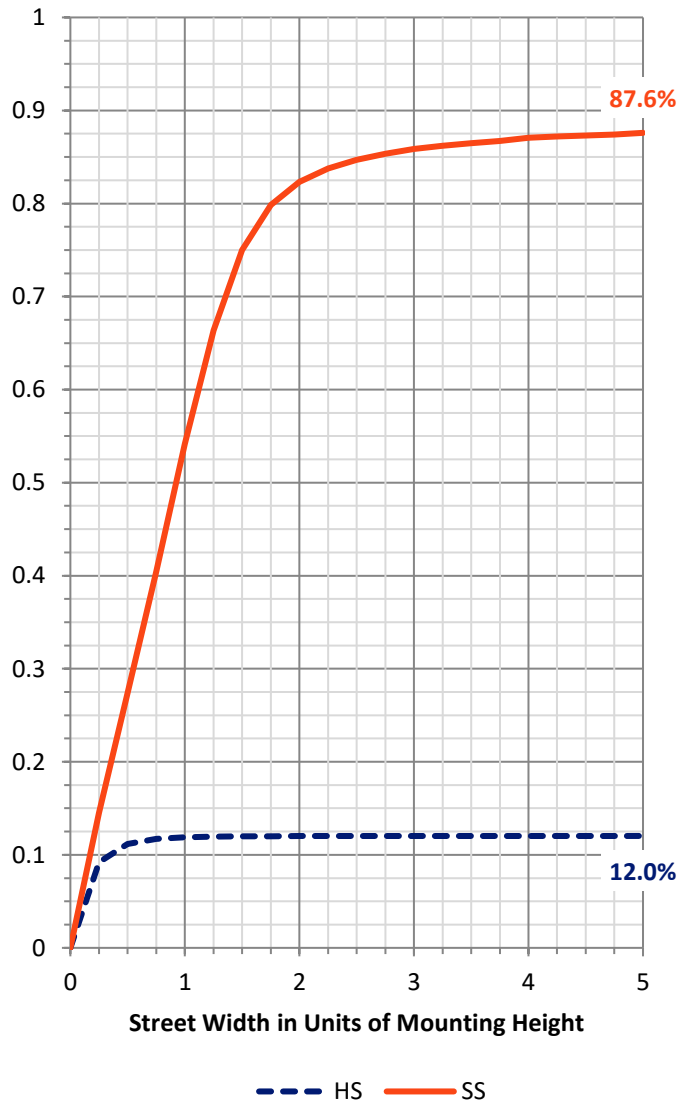
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4803.5	0.0	4803.5
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	34794.7	0.0	34794.7
	% Fixture	87.9	0.0	87.9
Total	Lumens	39598.2	0.0	39598.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	817.0	2.1
10°-20°	1787.5	4.5
20°-30°	2488.7	6.3
30°-40°	3526.7	8.9
40°-50°	5557.9	14.0
50°-60°	9018.6	22.8
60°-70°	10072.0	25.4
70°-80°	5671.7	14.3
80°-90°	658.1	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°	39598.2	100.0
0°-180°	39598.2	100.0

Coefficient of Utilization

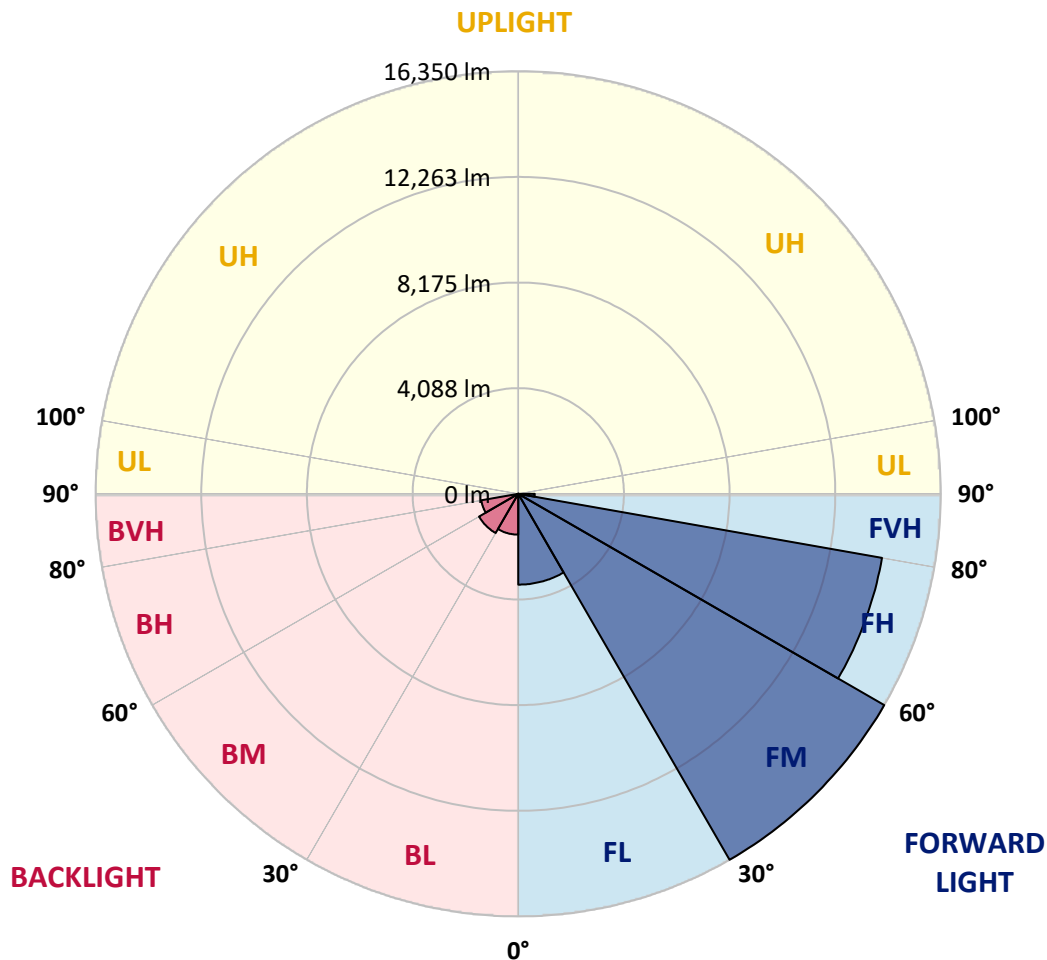


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3514.0	8.9			
FM (30°-60°)	16350.5	41.3			
FH (60°-80°)	14290.3	36.1			G5
FVH (80°-90°)	640.0	1.6			G4/750
BL (0°-30°)	1579.3	4.0	B3/2500		
BM (30°-60°)	1752.8	4.4	B2/2500		
BH (60°-80°)	1453.3	3.7	B3/2500		G3/2500
BVH (80°-90°)	18.2	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°	9983.6	9983.6	9983.6	9983.6	9983.6	9983.6	9983.6	9983.6	9983.6	9983.6
2.5°	9615.1	9689.8	9711.2	9786.0	9823.4	9983.6	10074.4	10127.9	10101.1	10159.9
5°	8931.3	8888.6	9000.8	9080.9	9251.8	9529.6	9812.7	10031.7	10133.2	10229.3
7.5°	8199.5	8178.1	8290.3	8471.9	8626.8	8963.4	9417.4	9956.9	9935.6	10170.6
10°	7697.4	7718.7	7756.1	7937.8	8167.5	8509.3	9075.5	9577.7	9689.8	10186.6
12.5°	7238.0	7275.4	7344.8	7531.8	7798.9	8151.4	8701.6	9289.2	9460.1	10095.8
15°	7088.4	7003.0	7141.8	7280.7	7558.5	7873.7	8338.4	9070.2	9145.0	9989.0
17.5°	6965.6	6912.2	6976.3	7088.4	7382.2	7638.6	8076.6	8835.2	8974.0	9946.2
20°	7003.0	6954.9	6981.6	7067.1	7200.6	7441.0	7846.9	8610.8	8760.4	9748.6
22.5°	7109.8	7147.2	7099.1	7120.5	7163.2	7286.1	7724.1	8450.6	8578.8	9711.2
25°	7590.5	7526.4	7462.3	7435.6	7184.6	7238.0	7686.7	8439.9	8530.7	9577.7
27.5°	8092.7	8039.3	8012.5	7857.6	7515.8	7355.5	7692.0	8290.3	8413.2	9524.2
30°	8701.6	8771.1	8664.2	8477.3	8001.9	7606.6	7750.8	8215.5	8386.5	9321.3
32.5°	9342.6	9380.0	9433.4	9294.5	8680.3	7985.8	7927.1	8285.0	8295.7	9321.3
35°	10069.1	10015.7	10154.6	10165.2	9625.7	8658.9	8263.6	8333.0	8445.2	9278.5
37.5°	10694.1	10784.9	10945.1	11201.5	10646.0	9609.7	8787.1	8557.4	8605.5	9476.2
40°	11377.8	11468.6	11831.9	12088.3	11773.1	10678.0	9583.0	9080.9	9118.3	9770.0
42.5°	12131.0	12307.3	12739.9	13188.6	13103.2	12034.8	10608.6	9850.1	9834.1	10501.8
45°	13151.3	13386.3	13856.4	14374.5	14449.3	13589.3	11976.1	10998.5	11052.0	11457.9
47.5°	14572.1	14561.5	15020.8	15597.7	16030.4	15202.5	13610.6	12542.3	12537.0	12969.6
50°	15945.0	15950.3	16073.2	16740.9	17862.6	17440.6	15635.1	14593.5	14534.8	14748.4
52.5°	16580.6	16505.8	16415.0	17221.6	19272.8	20261.0	18199.2	16917.1	16869.1	16740.9
55°	15912.9	15939.6	15934.3	16772.9	20015.3	23236.4	21489.6	19475.8	19395.7	18995.1
57.5°	13770.9	13685.4	13872.4	15181.1	19166.0	25266.2	26195.7	22702.2	22493.9	21163.8
60°	10250.7	10277.4	10432.3	11976.1	17056.0	25693.6	30698.7	26489.5	25592.1	22691.5
62.5°	7157.9	7104.5	7163.2	8028.6	12195.1	23984.2	33743.5	31094.0	30228.7	24427.6
65°	5122.7	5053.2	5288.3	5817.1	7323.5	18338.0	34176.2	37226.3	36451.7	27199.9
67.5°	3685.8	3675.1	3947.5	4909.0	5202.8	10560.5	30971.1	42781.6	42311.6	30490.4
69°	3050.1	3055.4	3317.2	4396.2	4967.8	7211.3	26649.7	43737.8	43652.3	32189.1
70°	2660.2	2681.5	2986.0	4091.7	4871.6	5929.3	22974.6	42797.7	42712.2	32520.2
72.5°	1639.9	1655.9	2056.6	3279.8	4631.2	4839.6	13738.8	35014.8	35308.6	31003.2
75°	785.2	790.6	1079.0	2371.7	4465.7	4588.5	7360.9	25837.8	26457.4	25031.2
77.5°	416.7	416.7	518.1	1260.6	3616.3	4316.1	4369.5	18225.9	18738.7	15827.4
80°	208.3	213.7	315.2	657.0	2243.5	4230.6	3413.3	10870.3	11148.1	6458.1
82.5°	80.1	85.5	149.6	395.3	1164.5	3573.6	2996.7	5347.0	5277.6	1511.7
85°	10.7	10.7	53.4	235.0	496.8	1575.8	2473.2	2232.8	2158.0	331.2
87.5°	0.0	0.0	10.7	69.4	149.6	459.4	956.2	614.3	683.7	90.8
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°
9983.6	0°	9983.6	9983.6	9983.6	9983.6	9983.6	9983.6	9983.6	9983.6	9983.6	9983.6
10165.2	2.5°	10138.5	10026.4	9855.4	9689.8	9513.6	9299.9	9064.9	8979.4	8829.8	8819.1
10213.3	5°	10127.9	9946.2	9647.1	9294.5	8792.4	8413.2	8001.9	7702.7	7473.0	7323.5
10240.0	7.5°	10181.3	9962.3	9444.1	8685.6	8039.3	7286.1	6650.4	6212.4	5811.8	5614.1
10325.5	10°	10095.8	9802.0	9043.5	7980.5	7029.7	5977.4	5047.9	4460.3	3862.0	3643.0
10373.6	12.5°	10143.9	9732.6	8610.8	7254.0	5945.3	4577.8	3466.8	2665.5	2104.6	1923.0
10453.7	15°	10175.9	9583.0	8194.2	6383.3	4743.4	3119.5	2008.5	1511.7	1335.4	1303.4
10443.0	17.5°	10053.1	9401.4	7606.6	5523.3	3514.8	1896.3	1335.4	1233.9	1201.9	1180.5
10427.0	20°	10047.7	9294.5	7099.1	4641.9	2345.0	1292.7	1153.8	1116.4	1068.3	1052.3
10517.8	22.5°	9956.9	9070.2	6490.2	3675.1	1495.7	1111.1	1036.3	977.5	924.1	902.7
10443.0	25°	9930.2	8808.5	5918.6	2761.7	1137.8	993.6	918.8	833.3	769.2	737.2
10352.2	27.5°	9855.4	8584.1	5341.7	1944.4	993.6	886.7	790.6	699.8	625.0	576.9
10293.4	30°	9588.3	8349.1	4700.7	1346.1	902.7	785.2	678.4	571.6	496.8	464.7
10159.9	32.5°	9476.2	8130.1	4000.9	1036.3	822.6	694.4	571.6	475.4	416.7	384.6
10111.8	35°	9342.6	7809.6	3322.5	902.7	747.8	603.6	480.8	400.6	352.6	325.8
10149.2	37.5°	9358.6	7553.2	2686.9	817.3	667.7	518.1	411.3	341.9	299.1	272.4
10341.5	40°	9310.6	7350.2	2088.6	742.5	592.9	443.4	347.2	288.5	251.1	224.4
10736.8	42.5°	9529.6	7296.8	1575.8	678.4	518.1	379.3	299.1	245.7	208.3	176.3
11554.1	45°	9898.2	7382.2	1228.6	619.6	443.4	325.8	256.4	203.0	165.6	144.2
12766.7	47.5°	10881.0	7718.7	961.5	571.6	379.3	283.1	213.7	165.6	133.5	112.2
14422.6	50°	12307.3	8471.9	817.3	502.1	320.5	240.4	176.3	128.2	106.8	85.5
16655.4	52.5°	14337.1	9737.9	742.5	443.4	267.1	197.6	138.9	101.5	80.1	64.1
19112.6	55°	16548.6	11319.1	673.1	373.9	224.4	160.3	112.2	80.1	58.8	42.7
20896.7	57.5°	18273.9	12686.5	614.3	309.8	181.6	128.2	85.5	58.8	42.7	26.7
22322.9	60°	20159.6	13648.0	539.5	245.7	149.6	96.2	64.1	42.7	32.1	16.0
24213.9	62.5°	22103.9	14775.1	443.4	192.3	117.5	74.8	48.1	32.1	21.4	5.3
26687.1	65°	24806.8	15656.5	341.9	149.6	90.8	53.4	37.4	26.7	10.7	0.0
28193.5	67.5°	25570.7	15223.8	251.1	117.5	64.1	37.4	26.7	16.0	5.3	0.0
27910.4	69°	24806.8	13712.1	219.0	101.5	53.4	32.1	21.4	10.7	5.3	0.0
26975.6	70°	23412.6	12537.0	192.3	85.5	48.1	32.1	16.0	10.7	5.3	0.0
23241.7	72.5°	19582.7	9615.1	149.6	64.1	37.4	26.7	16.0	10.7	0.0	0.0
18161.8	75°	14363.8	5940.0	112.2	48.1	32.1	21.4	16.0	10.7	0.0	0.0
10325.5	77.5°	7697.4	2168.7	80.1	32.1	21.4	16.0	16.0	10.7	0.0	0.0
3215.7	80°	2110.0	641.0	58.8	21.4	16.0	10.7	10.7	5.3	0.0	0.0
785.2	82.5°	576.9	165.6	37.4	21.4	16.0	10.7	5.3	0.0	0.0	0.0
379.3	85°	309.8	64.1	21.4	16.0	10.7	5.3	0.0	0.0	0.0	0.0
187.0	87.5°	160.3	21.4	16.0	10.7	10.7	5.3	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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