

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: P575376

Luminaire Tested: **EPH-VN-04-740-U-SL2-HSS**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575376
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-04-740-U-SL2-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL2 distribution lens and House Side Shield
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24874 lumens
Efficiency: N/A
Efficacy: 103.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

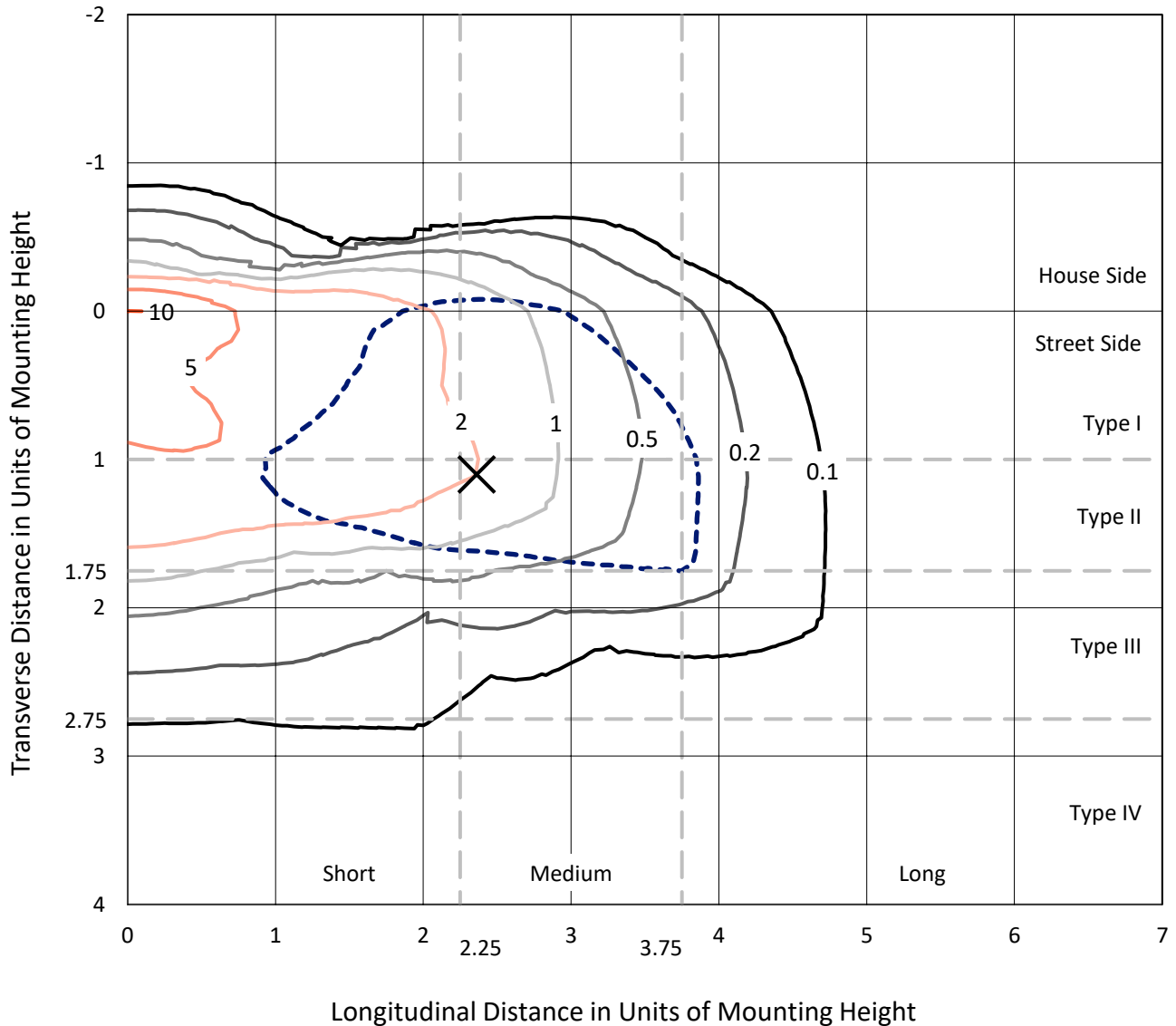
Input Watts (W): 241
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

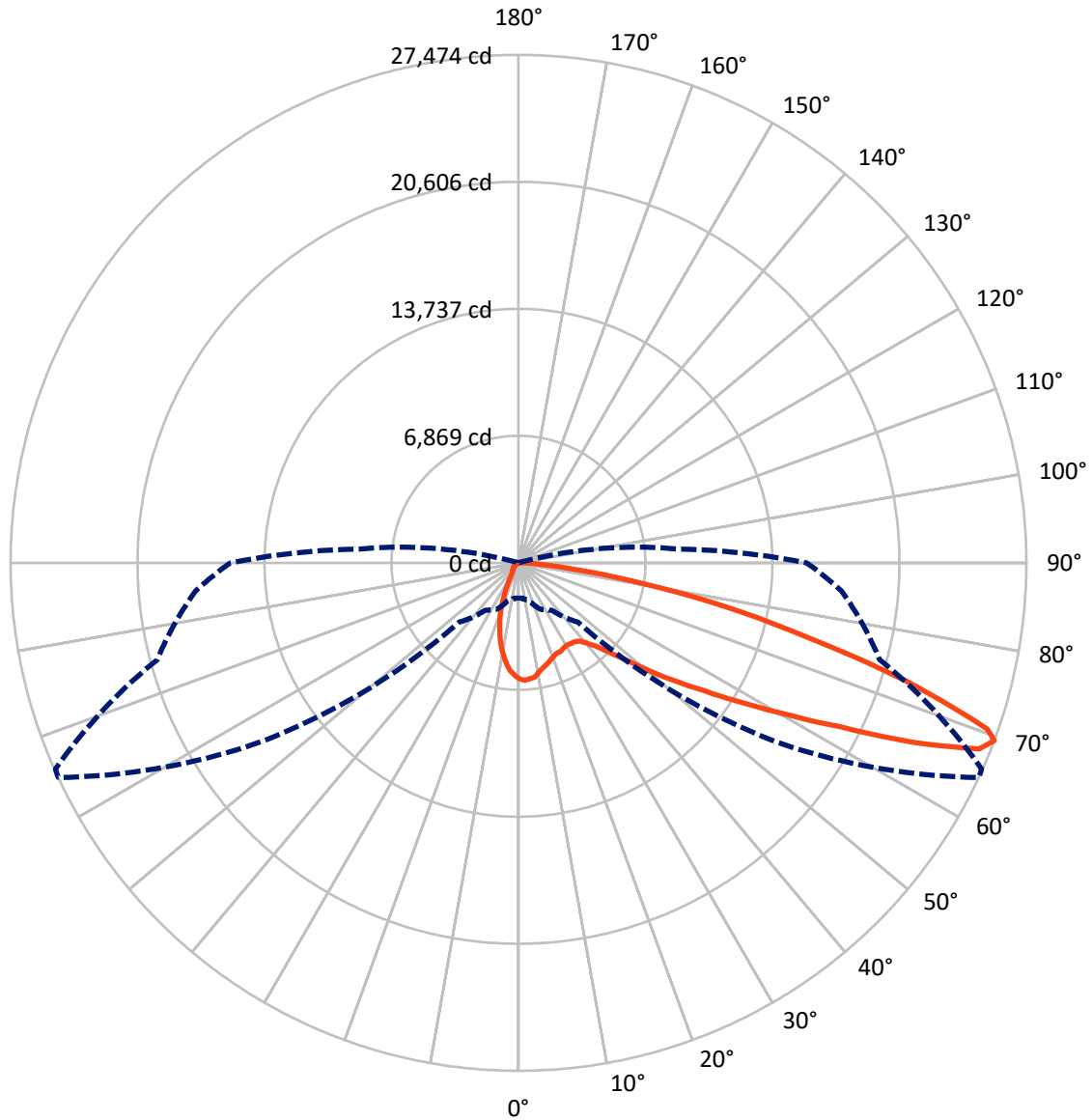
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 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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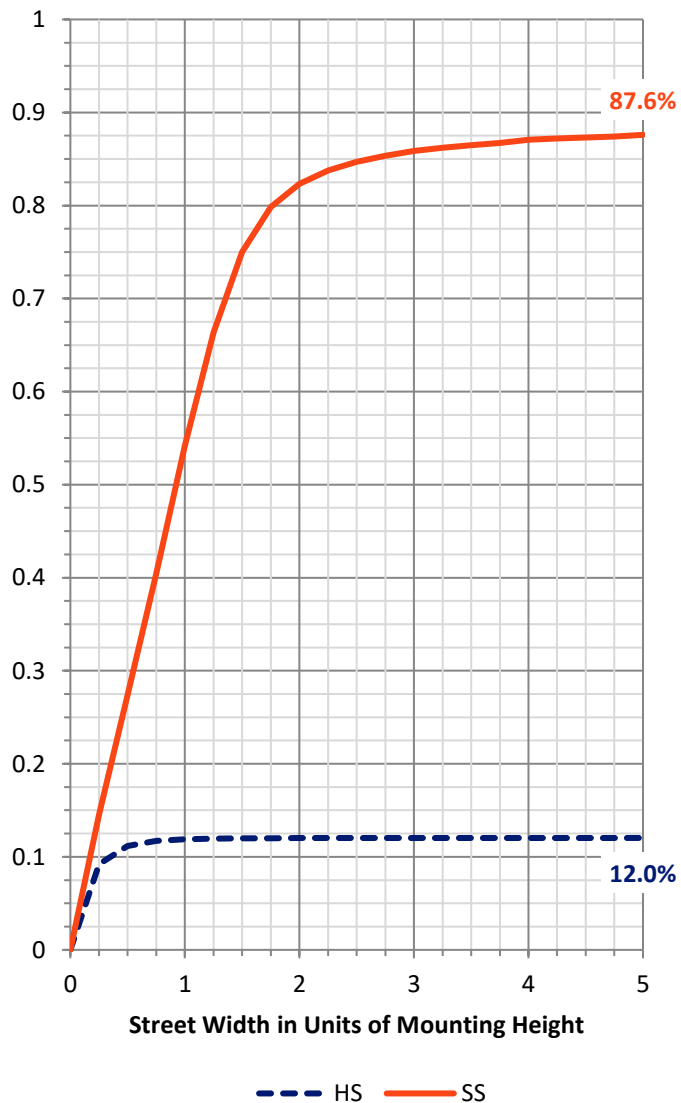
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3017.4	0.0	3017.4
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	21856.6	0.0	21856.6
	% Fixture	87.9	0.0	87.9
Total	Lumens	24874.0	0.0	24874.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	513.2	2.1
10°-20°	1122.9	4.5
20°-30°	1563.3	6.3
30°-40°	2215.3	8.9
40°-50°	3491.3	14.0
50°-60°	5665.1	22.8
60°-70°	6326.8	25.4
70°-80°	3562.7	14.3
80°-90°	413.4	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°	24874.0	100.0
0°-180°	24874.0	100.0

Coefficient of Utilization

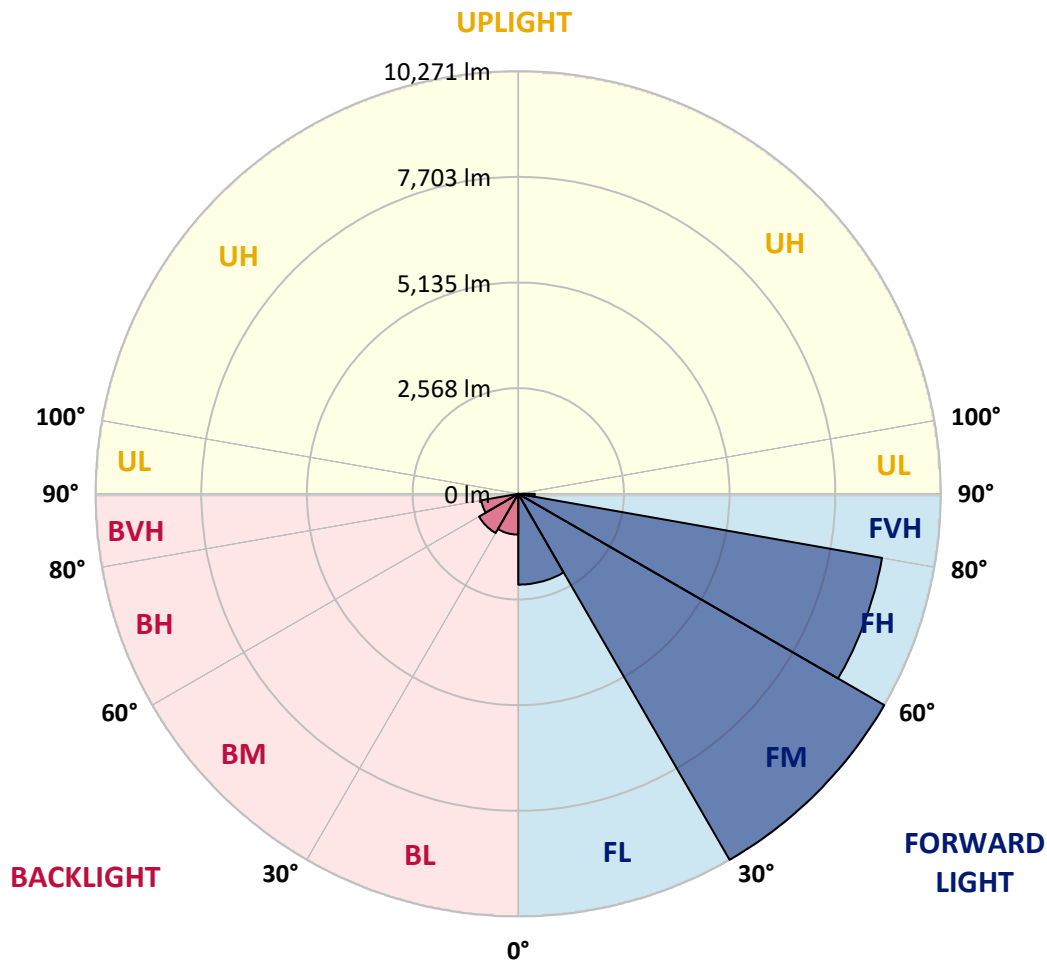


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2207.3	8.9			
FM (30°-60°)	10270.7	41.3			
FH (60°-80°)	8976.6	36.1			G4/12000
FVH (80°-90°)	402.0	1.6			G3/500
BL (0°-30°)	992.0	4.0	B2/1000		
BM (30°-60°)	1101.0	4.4	B2/2500		
BH (60°-80°)	912.9	3.7	B2/1000		G2/1000
BVH (80°-90°)	11.4	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	6271.3	6271.3	6271.3	6271.3	6271.3	6271.3	6271.3	6271.3	6271.3	6271.3
2.5°	6039.8	6086.8	6100.2	6147.2	6170.6	6271.3	6328.3	6361.9	6345.1	6382.0
5°	5610.3	5583.4	5653.9	5704.2	5811.6	5986.1	6163.9	6301.5	6365.3	6425.7
7.5°	5150.6	5137.2	5207.6	5321.7	5419.0	5630.4	5915.6	6254.5	6241.1	6388.7
10°	4835.2	4848.6	4872.1	4986.2	5130.5	5345.2	5700.9	6016.3	6086.8	6398.8
12.5°	4546.6	4570.1	4613.7	4731.2	4898.9	5120.4	5466.0	5835.1	5942.5	6341.8
15°	4452.7	4399.0	4486.2	4573.5	4747.9	4945.9	5237.8	5697.5	5744.5	6274.7
17.5°	4375.5	4341.9	4382.2	4452.7	4637.2	4798.3	5073.4	5549.9	5637.1	6247.8
20°	4399.0	4368.8	4385.6	4439.2	4523.1	4674.1	4929.1	5409.0	5502.9	6123.7
22.5°	4466.1	4489.6	4459.4	4472.8	4499.6	4576.8	4852.0	5308.3	5388.8	6100.2
25°	4768.1	4727.8	4687.5	4670.8	4513.1	4546.6	4828.5	5301.6	5358.6	6016.3
27.5°	5083.5	5049.9	5033.2	4935.8	4721.1	4620.4	4831.8	5207.6	5284.8	5982.7
30°	5466.0	5509.6	5442.5	5325.1	5026.4	4778.1	4868.7	5160.7	5268.0	5855.2
32.5°	5868.7	5892.1	5925.7	5838.5	5452.6	5016.4	4979.5	5204.3	5211.0	5855.2
35°	6325.0	6291.4	6378.7	6385.4	6046.5	5439.2	5190.9	5234.5	5304.9	5828.4
37.5°	6717.6	6774.6	6875.3	7036.3	6687.4	6036.4	5519.7	5375.4	5405.6	5952.5
40°	7147.1	7204.1	7432.3	7593.3	7395.4	6707.5	6019.6	5704.2	5727.7	6137.1
42.5°	7620.2	7730.9	8002.7	8284.6	8230.9	7559.8	6663.9	6187.4	6177.4	6596.8
45°	8261.1	8408.7	8704.0	9029.5	9076.4	8536.2	7522.9	6908.8	6942.4	7197.4
47.5°	9153.6	9146.9	9435.5	9797.9	10069.7	9549.6	8549.6	7878.6	7875.2	8147.0
50°	10016.0	10019.3	10096.5	10515.9	11220.6	10955.5	9821.4	9167.0	9130.1	9264.4
52.5°	10415.3	10368.3	10311.2	10817.9	12106.4	12727.2	11432.0	10626.7	10596.5	10515.9
55°	9995.8	10012.6	10009.3	10536.1	12572.8	14596.1	13498.9	12233.9	12183.6	11931.9
57.5°	8650.3	8596.6	8714.1	9536.1	12039.3	15871.2	16455.0	14260.6	14129.7	13294.2
60°	6439.1	6455.9	6553.2	7522.9	10713.9	16139.6	19283.7	16639.6	16075.9	14253.9
62.5°	4496.3	4462.7	4499.6	5043.2	7660.5	15065.9	21196.3	19532.0	18988.4	15344.4
65°	3217.9	3174.2	3321.9	3654.1	4600.3	11519.2	21468.1	23384.0	22897.5	17085.9
67.5°	2315.2	2308.5	2479.7	3083.6	3268.2	6633.7	19454.8	26873.7	26578.4	19152.8
69°	1916.0	1919.3	2083.7	2761.5	3120.6	4529.8	16740.3	27474.3	27420.6	20219.8
70°	1671.0	1684.4	1875.7	2570.3	3060.2	3724.5	14431.7	26883.7	26830.0	20427.9
72.5°	1030.1	1040.2	1291.8	2060.2	2909.2	3040.0	8630.2	21994.9	22179.4	19474.9
75°	493.2	496.6	677.8	1489.8	2805.1	2882.3	4623.8	16230.2	16619.5	15723.6
77.5°	261.7	261.7	325.5	791.9	2271.6	2711.2	2744.7	11448.7	11770.9	9942.1
80°	130.9	134.2	198.0	412.7	1409.3	2657.5	2144.1	6828.3	7002.8	4056.7
82.5°	50.3	53.7	94.0	248.3	731.5	2244.8	1882.4	3358.8	3315.2	949.6
85°	6.7	6.7	33.6	147.6	312.1	989.9	1553.6	1402.6	1355.6	208.0
87.5°	0.0	0.0	6.7	43.6	94.0	288.6	600.6	385.9	429.5	57.0
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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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
6271.3	0°	6271.3	6271.3	6271.3	6271.3	6271.3	6271.3	6271.3	6271.3	6271.3	6271.3
6385.4	2.5°	6368.6	6298.1	6190.8	6086.8	5976.0	5841.8	5694.2	5640.5	5546.5	5539.8
6415.6	5°	6361.9	6247.8	6059.9	5838.5	5523.0	5284.8	5026.4	4838.5	4694.3	4600.3
6432.4	7.5°	6395.5	6257.9	5932.4	5455.9	5049.9	4576.8	4177.5	3902.4	3650.7	3526.6
6486.1	10°	6341.8	6157.2	5680.7	5013.0	4415.8	3754.7	3170.9	2801.8	2426.0	2288.4
6516.3	12.5°	6372.0	6113.6	5409.0	4556.7	3734.6	2875.6	2177.7	1674.4	1322.0	1208.0
6566.6	15°	6392.1	6019.6	5147.2	4009.7	2979.6	1959.6	1261.6	949.6	838.9	818.7
6559.9	17.5°	6314.9	5905.6	4778.1	3469.5	2207.9	1191.2	838.9	775.1	755.0	741.6
6549.8	20°	6311.6	5838.5	4459.4	2915.9	1473.0	812.0	724.8	701.3	671.1	661.0
6606.8	22.5°	6254.5	5697.5	4076.9	2308.5	939.5	697.9	651.0	614.0	580.5	567.1
6559.9	25°	6237.8	5533.1	3717.8	1734.8	714.7	624.1	577.1	523.4	483.2	463.0
6502.8	27.5°	6190.8	5392.2	3355.4	1221.4	624.1	557.0	496.6	439.6	392.6	362.4
6465.9	30°	6023.0	5244.5	2952.8	845.6	567.1	493.2	426.1	359.0	312.1	291.9
6382.0	32.5°	5952.5	5107.0	2513.2	651.0	516.7	436.2	359.0	298.6	261.7	241.6
6351.8	35°	5868.7	4905.6	2087.1	567.1	469.8	379.2	302.0	251.7	221.5	204.7
6375.3	37.5°	5878.7	4744.6	1687.8	513.4	419.4	325.5	258.4	214.7	187.9	171.1
6496.1	40°	5848.5	4617.1	1312.0	466.4	372.5	278.5	218.1	181.2	157.7	140.9
6744.4	42.5°	5986.1	4583.5	989.9	426.1	325.5	238.2	187.9	154.3	130.9	110.7
7257.8	45°	6217.6	4637.2	771.7	389.2	278.5	204.7	161.1	127.5	104.0	90.6
8019.5	47.5°	6835.0	4848.6	604.0	359.0	238.2	177.8	134.2	104.0	83.9	70.5
9059.7	50°	7730.9	5321.7	513.4	315.4	201.3	151.0	110.7	80.5	67.1	53.7
10462.2	52.5°	9006.0	6117.0	466.4	278.5	167.8	124.2	87.2	63.8	50.3	40.3
12005.7	55°	10395.1	7110.2	422.8	234.9	140.9	100.7	70.5	50.3	36.9	26.8
13126.5	57.5°	11478.9	7969.2	385.9	194.6	114.1	80.5	53.7	36.9	26.8	16.8
14022.4	60°	12663.4	8573.1	338.9	154.3	94.0	60.4	40.3	26.8	20.1	10.1
15210.2	62.5°	13884.8	9281.1	278.5	120.8	73.8	47.0	30.2	20.1	13.4	3.4
16763.7	65°	15582.6	9834.8	214.7	94.0	57.0	33.6	23.5	16.8	6.7	0.0
17710.0	67.5°	16062.5	9563.0	157.7	73.8	40.3	23.5	16.8	10.1	3.4	0.0
17532.1	69°	15582.6	8613.4	137.6	63.8	33.6	20.1	13.4	6.7	3.4	0.0
16944.9	70°	14706.9	7875.2	120.8	53.7	30.2	20.1	10.1	6.7	3.4	0.0
14599.5	72.5°	12301.0	6039.8	94.0	40.3	23.5	16.8	10.1	6.7	0.0	0.0
11408.5	75°	9022.8	3731.2	70.5	30.2	20.1	13.4	10.1	6.7	0.0	0.0
6486.1	77.5°	4835.2	1362.3	50.3	20.1	13.4	10.1	10.1	6.7	0.0	0.0
2020.0	80°	1325.4	402.7	36.9	13.4	10.1	6.7	6.7	3.4	0.0	0.0
493.2	82.5°	362.4	104.0	23.5	13.4	10.1	6.7	3.4	0.0	0.0	0.0
238.2	85°	194.6	40.3	13.4	10.1	6.7	3.4	0.0	0.0	0.0	0.0
117.4	87.5°	100.7	13.4	10.1	6.7	6.7	3.4	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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