

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: P575179

Luminaire Tested: **EPH-VN-07-740-U-T2R-HSS**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575179
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-T2R-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T2R distribution lens and House Side Shield
Light Source: (112) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

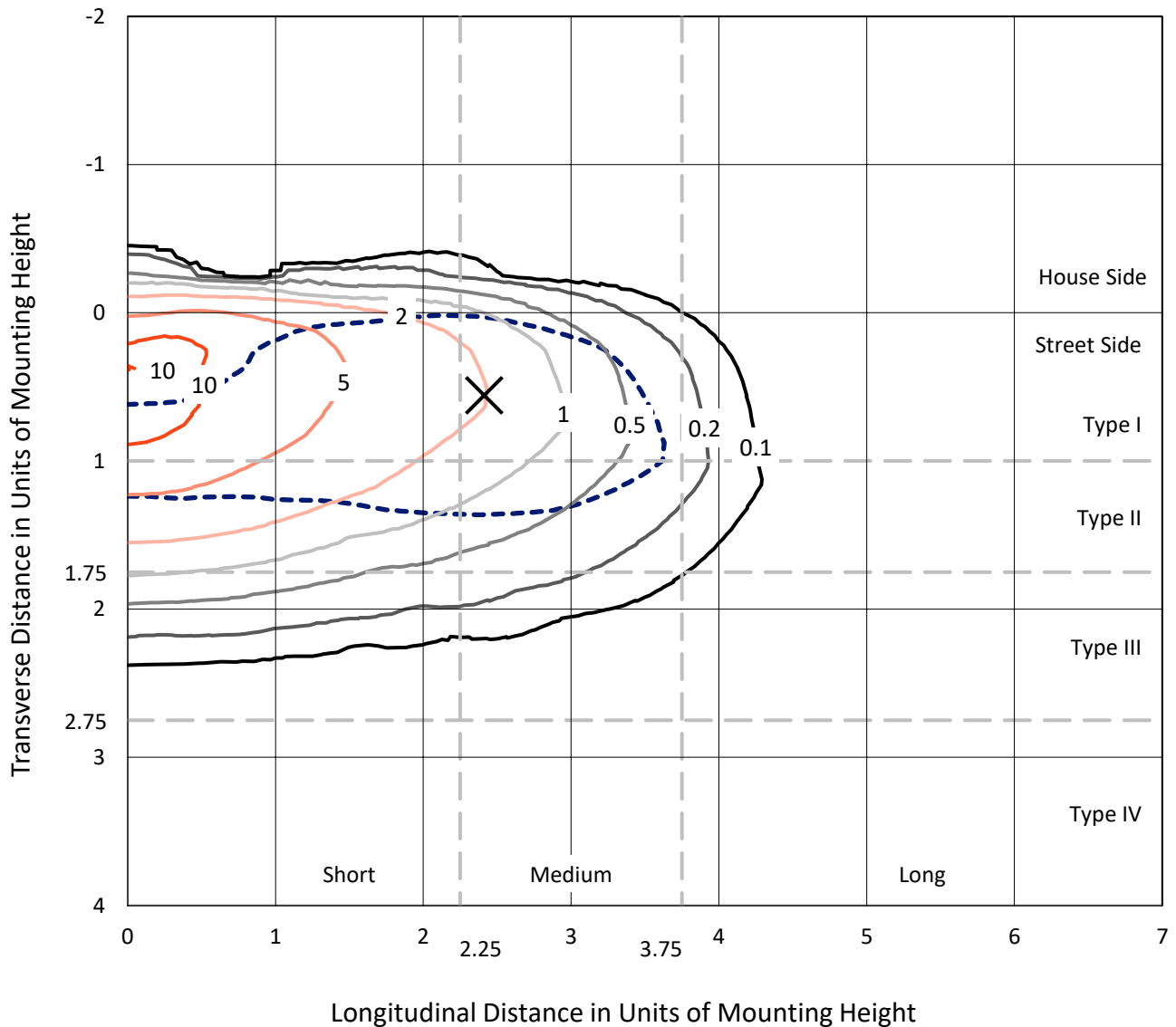
Lumens per Lamp: N/A
Luminaire Lumens: 38351 lumens
Efficiency: N/A
Efficacy: 90.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

Input Watts (W): 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

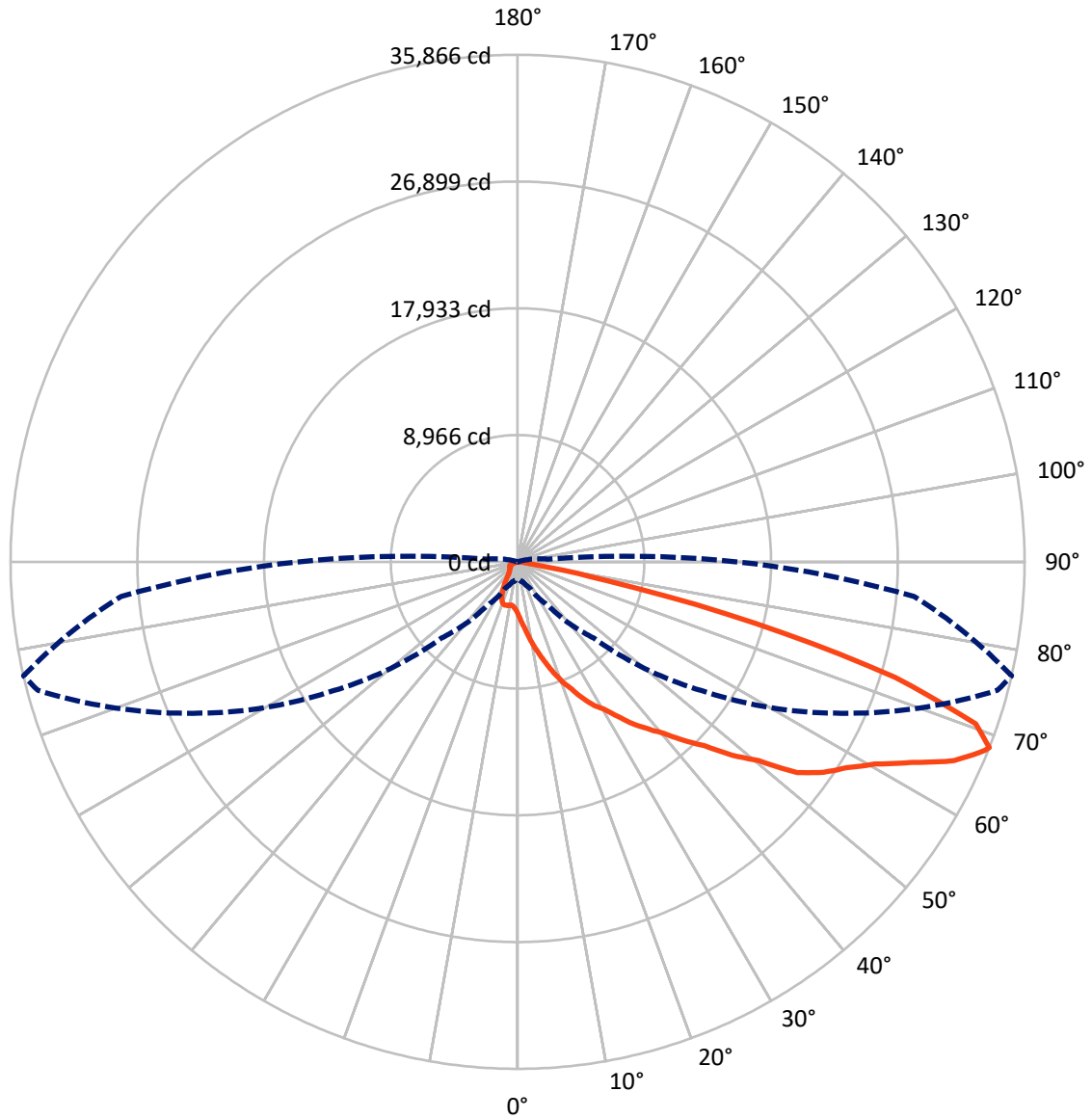
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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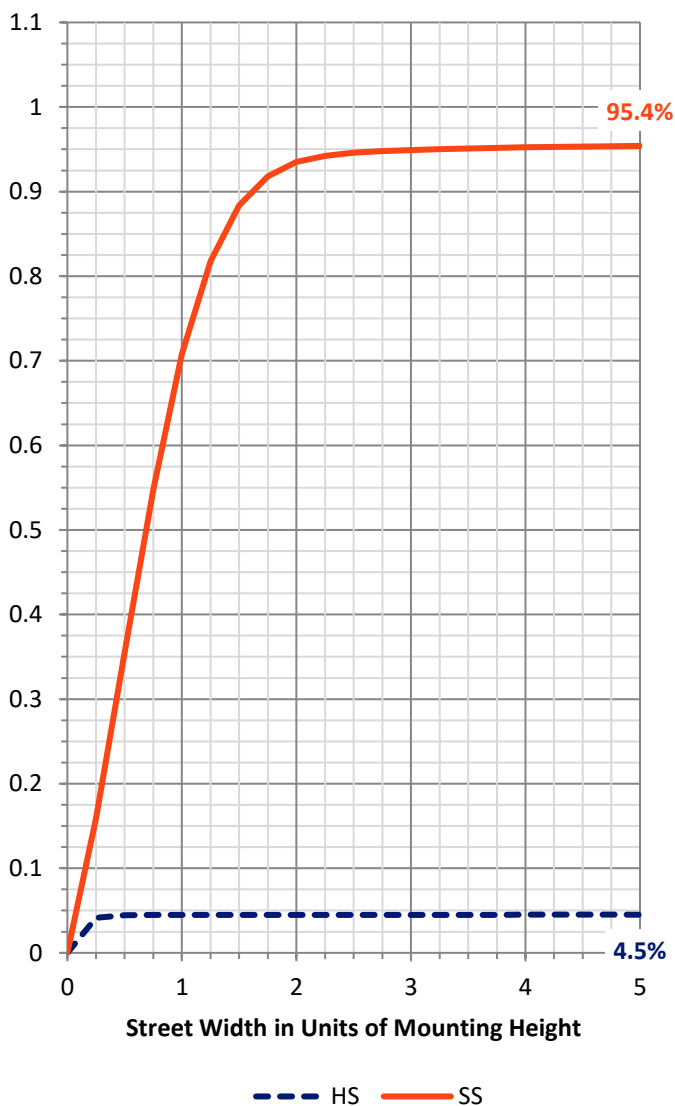
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1739.2	0.0	1739.2
	% Fixture	4.5	0.0	4.5
Street Side	Lumens	36611.8	0.0	36611.8
	% Fixture	95.5	0.0	95.5
Total	Lumens	38351.0	0.0	38351.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	429.0	1.1
10°-20°	1582.2	4.1
20°-30°	3066.4	8.0
30°-40°	5345.7	13.9
40°-50°	7829.3	20.4
50°-60°	9198.2	24.0
60°-70°	7767.1	20.3
70°-80°	3010.7	7.9
80°-90°	122.4	0.3
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°	38351.0	100.0
0°-180°	38351.0	100.0

Coefficient of Utilization

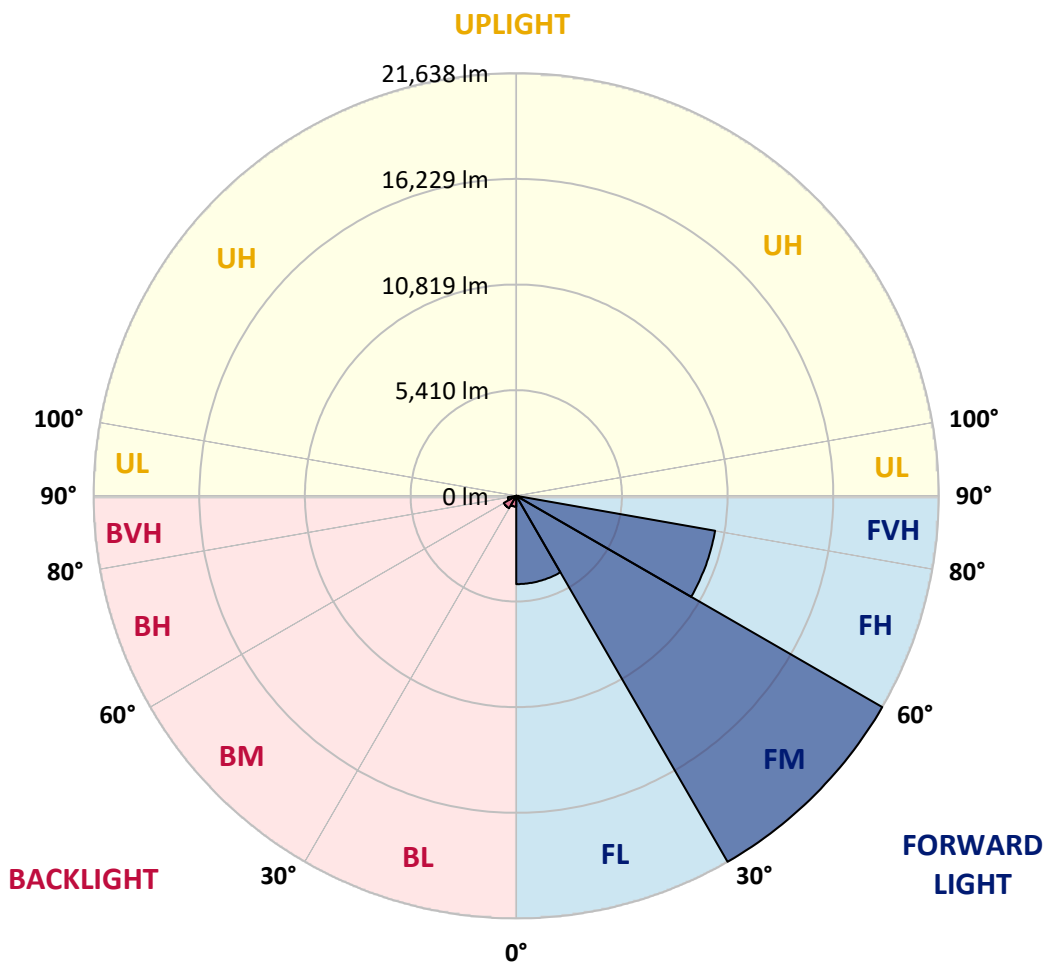


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4521.9	11.8			
FM (30°-60°)	21638.3	56.4			
FH (60°-80°)	10338.6	27.0			G4/12000
FVH (80°-90°)	112.9	0.3			G2/225
BL (0°-30°)	555.7	1.4	B2/1000		
BM (30°-60°)	734.9	1.9	B1/1000		
BH (60°-80°)	439.1	1.1	B1/500		G1/500
BVH (80°-90°)	9.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	3672.2	3672.2	3672.2	3672.2	3672.2	3672.2	3672.2	3672.2	3672.2	3672.2
2.5°	5579.6	5473.9	5362.9	5331.2	5125.2	4892.7	4676.1	4464.7	4110.7	4116.0
5°	7191.1	7059.0	6969.2	6948.0	6625.7	6224.2	5896.6	5299.5	4713.0	4581.0
7.5°	8517.3	8475.0	8342.9	8232.0	7994.2	7502.8	7117.1	6261.2	5368.2	5220.3
10°	9320.4	9383.8	9441.9	9299.3	9114.4	8760.4	8232.0	7307.3	6113.2	5928.3
12.5°	10176.4	10070.7	10107.7	10223.9	9980.9	9901.6	9246.5	8385.2	6985.0	6631.0
15°	10398.3	10440.6	10530.4	10868.5	11032.3	10805.1	10239.8	9257.0	7888.5	7397.2
17.5°	10546.2	10525.1	10636.1	11143.3	11391.6	11608.3	11254.3	10229.2	8675.8	8237.3
20°	10731.2	10614.9	10858.0	11180.3	11756.2	12210.6	12194.7	11206.7	9500.1	9035.1
22.5°	11418.0	11328.2	11523.7	11555.4	11957.0	12591.0	12744.3	12004.5	10345.5	9774.8
25°	12686.1	12849.9	12617.4	12416.7	12538.2	12955.6	13066.6	12712.5	11196.1	10673.0
27.5°	14540.7	14519.6	14059.9	13801.0	13510.4	13457.5	13536.8	13373.0	11867.2	11492.0
30°	16532.7	16358.3	15935.6	15312.1	14672.8	14276.5	14165.6	13996.5	12654.4	12110.2
32.5°	18117.8	18212.9	17742.6	16928.9	15866.9	15333.3	14799.6	14614.7	13521.0	13040.1
35°	19576.1	19449.3	19074.1	18387.2	17436.2	16574.9	15740.1	15343.8	14561.8	14086.3
37.5°	20653.9	20812.4	20099.1	19444.0	18498.2	17784.9	16965.9	16099.4	15634.4	15000.4
40°	21673.7	21425.3	20944.5	20342.2	19465.1	18920.9	18381.9	17029.3	16775.7	15956.7
42.5°	21494.0	21509.9	21245.7	20759.6	20125.6	19813.8	19628.9	18160.0	17811.3	17288.2
45°	20759.6	20823.0	20912.8	20675.1	20727.9	20416.2	20912.8	19459.8	19116.4	18561.6
47.5°	19951.2	20056.9	20035.7	20469.0	20960.4	21066.1	22307.7	20902.3	20754.3	20447.9
50°	18609.1	18651.4	19058.3	19845.5	20516.6	21620.8	23353.9	22476.8	22704.0	22101.7
52.5°	16316.0	16469.3	17515.4	18640.8	19993.5	21900.9	24061.9	24817.5	25393.4	24775.2
55°	13415.3	13626.6	14656.9	16765.1	18746.5	21478.2	24706.5	26053.9	27221.6	26286.3
57.5°	10794.6	10815.7	11740.4	13917.2	16976.5	20648.6	25034.1	26656.2	28225.5	27475.2
60°	8226.7	8142.2	8971.7	10858.0	13996.5	18609.1	24215.1	26962.7	29477.7	29044.4
62.5°	5294.3	5162.2	6065.7	7904.4	10931.9	15211.7	22577.2	26967.9	31432.7	31268.9
65°	2620.7	2530.9	3307.6	4845.1	7566.2	11634.7	20241.8	26867.5	33820.9	33926.6
67.5°	1384.3	1416.0	1664.4	2456.9	4364.3	8221.4	16722.9	25689.3	35041.4	35633.2
68°	1273.4	1283.9	1479.4	2044.8	3788.4	7624.4	15888.0	25345.8	35136.5	35865.7
70°	1035.6	1051.5	1120.1	1283.9	2050.1	4961.4	12258.2	22429.2	33704.6	34370.4
72.5°	824.3	871.8	914.1	982.8	1204.7	2604.9	7624.4	17478.4	27845.0	27919.0
75°	628.8	665.7	750.3	808.4	940.5	1431.9	3629.9	10657.2	18271.0	17372.8
77.5°	486.1	517.8	554.8	634.0	787.3	966.9	1109.6	4522.8	7761.7	6388.0
80°	290.6	311.7	433.3	496.7	686.9	655.2	438.5	1257.5	1574.5	1241.7
82.5°	169.1	184.9	248.3	380.4	480.8	354.0	258.9	391.0	385.7	338.2
85°	5.3	10.6	137.4	227.2	169.1	95.1	158.5	163.8	137.4	126.8
87.5°	0.0	5.3	37.0	31.7	37.0	21.1	31.7	42.3	52.8	47.6
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°
3672.2	0°	3672.2	3672.2	3672.2	3672.2	3672.2	3672.2	3672.2	3672.2	3672.2	3672.2
3872.9	2.5°	3709.1	3592.9	3334.0	3138.5	2927.2	2800.4	2673.5	2594.3	2552.0	2525.6
4137.1	5°	3804.3	3561.2	3143.8	2773.9	2530.9	2367.1	2203.3	2118.8	2039.5	1997.2
4459.4	7.5°	4015.6	3651.0	2958.9	2557.3	2272.0	2018.4	1812.3	1648.5	1553.4	1468.9
4876.8	10°	4274.5	3703.9	2964.1	2430.5	2018.4	1616.8	1326.2	1120.1	1003.9	929.9
5405.2	12.5°	4538.7	3909.9	2985.3	2303.7	1706.6	1215.2	871.8	718.6	649.9	612.9
5896.6	15°	4940.2	4094.9	2932.4	2071.2	1294.5	792.6	597.1	544.2	517.8	486.1
6509.5	17.5°	5289.0	4390.7	2906.0	1722.5	887.7	570.6	496.7	438.5	412.1	380.4
7117.1	20°	5759.2	4575.7	2763.4	1331.5	612.9	475.5	401.6	348.7	306.5	280.0
7772.3	22.5°	6187.2	4718.3	2509.8	908.8	470.2	375.1	295.9	243.0	206.1	174.4
8427.5	25°	6652.2	4861.0	2139.9	560.1	332.9	232.5	158.5	116.2	79.3	58.1
8966.4	27.5°	6985.0	4903.3	1659.1	332.9	200.8	105.7	37.0	5.3	0.0	0.0
9500.1	30°	7323.2	4919.1	1146.6	179.6	79.3	0.0	0.0	0.0	0.0	0.0
10113.0	32.5°	7708.9	4913.8	718.6	95.1	5.3	0.0	0.0	0.0	0.0	0.0
10789.3	35°	8004.8	4824.0	343.4	10.6	0.0	0.0	0.0	0.0	0.0	0.0
11613.5	37.5°	8453.9	4691.9	105.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12543.5	40°	8966.4	4454.1	21.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13452.3	42.5°	9426.1	4211.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14498.4	45°	9949.2	3909.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15946.2	47.5°	10868.5	3783.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17668.6	50°	12067.9	3682.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19322.4	52.5°	12807.7	3386.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20326.3	55°	13193.4	3080.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21552.2	57.5°	13764.0	2932.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23026.3	60°	14609.4	2943.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25493.8	62.5°	15930.3	3091.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27897.9	65°	16659.5	2943.0	21.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28479.1	67.5°	16041.3	2356.5	100.4	26.4	5.3	0.0	0.0	0.0	0.0	0.0
28156.8	68°	15507.6	2166.3	100.4	26.4	5.3	0.0	0.0	0.0	0.0	0.0
25488.5	70°	12818.2	1410.7	95.1	26.4	10.6	0.0	0.0	0.0	0.0	0.0
19840.2	72.5°	9336.3	782.0	79.3	21.1	10.6	0.0	0.0	0.0	0.0	0.0
11687.5	75°	5431.6	391.0	58.1	21.1	10.6	0.0	0.0	0.0	0.0	0.0
3302.3	77.5°	1416.0	195.5	47.6	26.4	15.9	5.3	0.0	0.0	0.0	0.0
602.3	80°	280.0	126.8	42.3	31.7	21.1	10.6	0.0	0.0	0.0	0.0
200.8	82.5°	132.1	89.8	42.3	31.7	26.4	15.9	5.3	0.0	0.0	0.0
89.8	85°	68.7	42.3	42.3	31.7	31.7	21.1	10.6	0.0	0.0	0.0
37.0	87.5°	31.7	15.9	15.9	15.9	15.9	10.6	5.3	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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