

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: P575387

Luminaire Tested: **EPH-VN-03-760-U-SL2-HSS**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575387
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-03-760-U-SL2-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL2 distribution lens and House Side Shield
Light Source: (48) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19622.7 lumens
Efficiency: N/A
Efficacy: 106.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G3

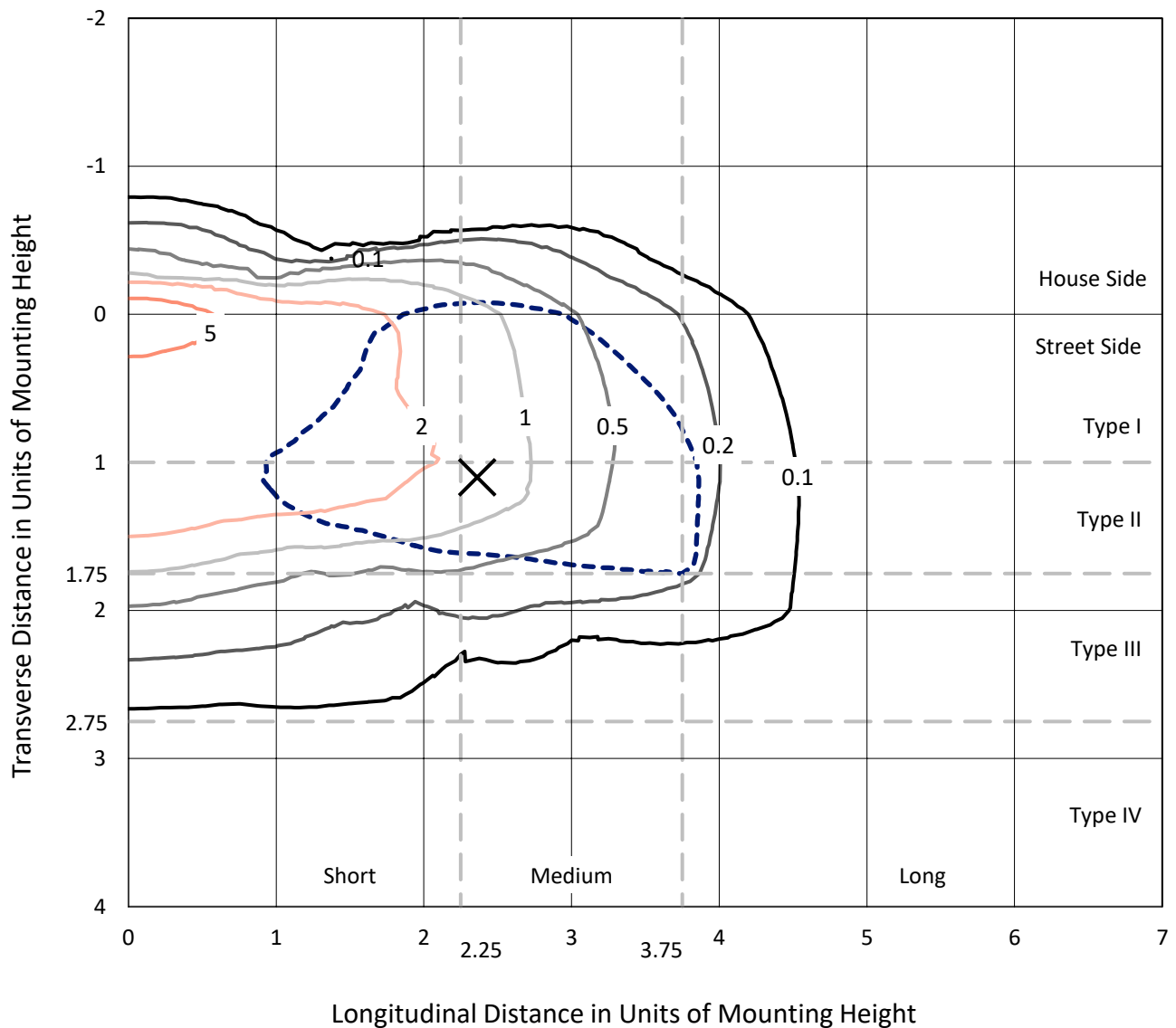
Input Watts (W): 184.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

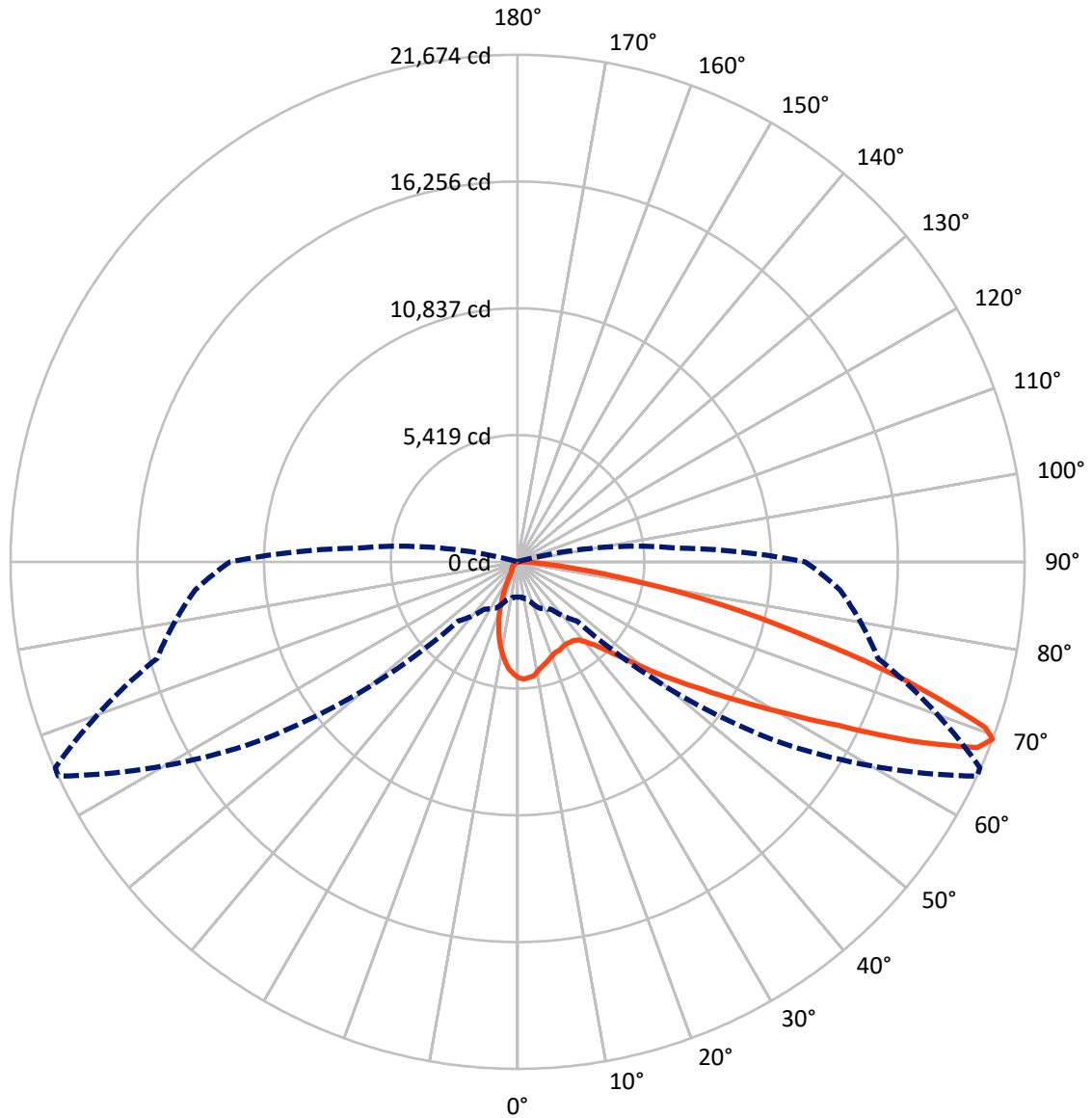
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 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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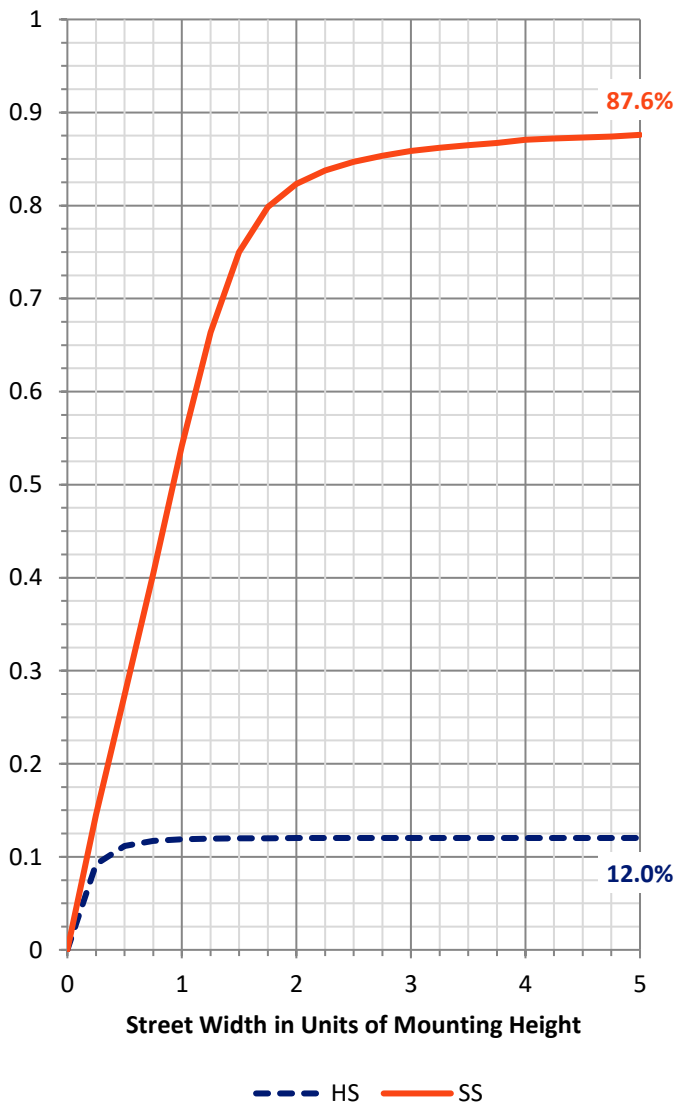
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2380.3	0.0	2380.3
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	17242.4	0.0	17242.4
	% Fixture	87.9	0.0	87.9
Total	Lumens	19622.7	0.0	19622.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	404.9	2.1
10°-20°	885.8	4.5
20°-30°	1233.3	6.3
30°-40°	1747.6	8.9
40°-50°	2754.2	14.0
50°-60°	4469.1	22.8
60°-70°	4991.1	25.4
70°-80°	2810.6	14.3
80°-90°	326.1	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°	19622.7	100.0
0°-180°	19622.7	100.0

Coefficient of Utilization



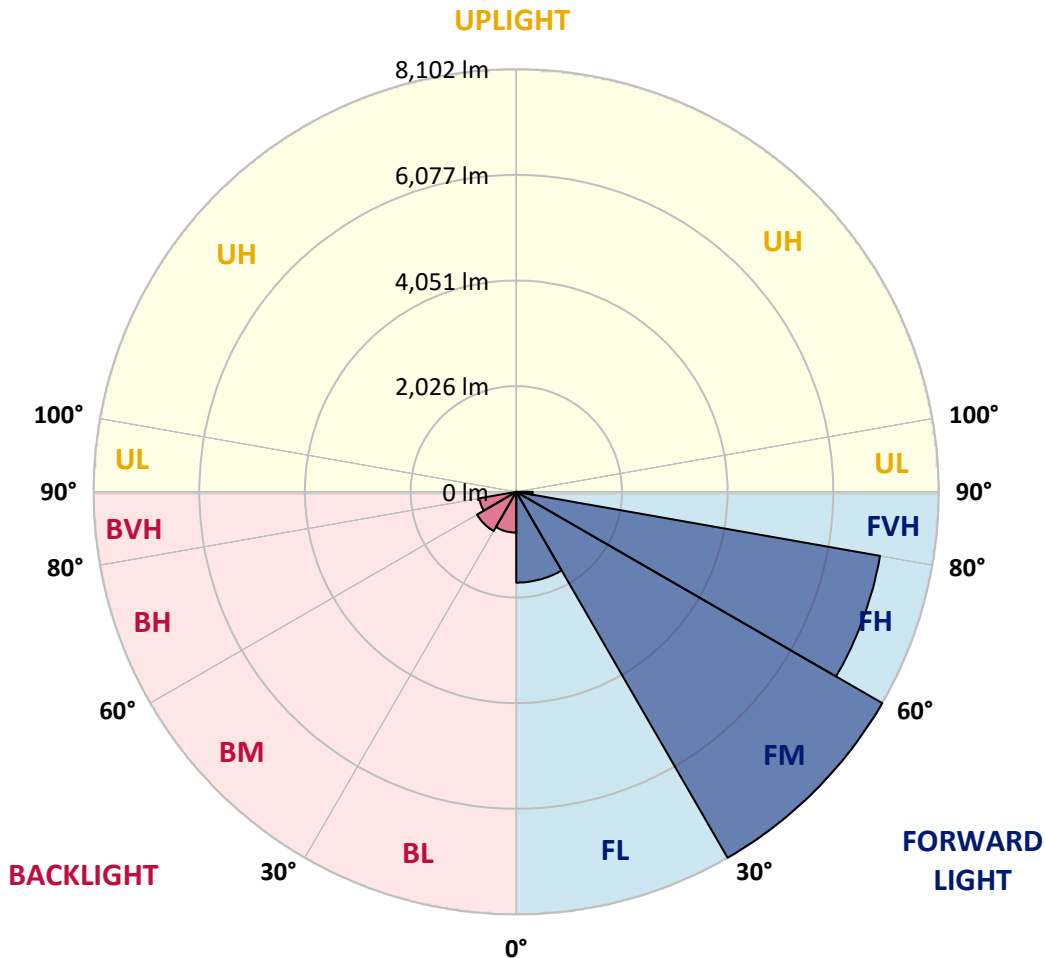
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1741.3	8.9			
FM (30°-60°)	8102.4	41.3			
FH (60°-80°)	7081.5	36.1			G3/7500
FVH (80°-90°)	317.1	1.6			G3/500
BL (0°-30°)	782.6	4.0	B2/1000		
BM (30°-60°)	868.6	4.4	B1/1000		
BH (60°-80°)	720.2	3.7	B2/1000		G2/1000
BVH (80°-90°)	9.0	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-G3

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	4947.3	4947.3	4947.3	4947.3	4947.3	4947.3	4947.3	4947.3	4947.3	4947.3
2.5°	4764.7	4801.8	4812.3	4849.4	4867.9	4947.3	4992.3	5018.8	5005.6	5034.7
5°	4425.9	4404.7	4460.3	4500.0	4584.7	4722.3	4862.6	4971.2	5021.5	5069.1
7.5°	4063.2	4052.6	4108.2	4198.2	4275.0	4441.8	4666.8	4934.1	4923.5	5040.0
10°	3814.4	3825.0	3843.5	3933.5	4047.3	4216.8	4497.3	4746.2	4801.8	5047.9
12.5°	3586.8	3605.3	3639.7	3732.3	3864.7	4039.4	4312.1	4603.2	4687.9	5002.9
15°	3512.6	3470.3	3539.1	3607.9	3745.6	3901.8	4132.1	4494.7	4531.8	4950.0
17.5°	3451.8	3425.3	3457.1	3512.6	3658.2	3785.3	4002.3	4378.2	4447.1	4928.8
20°	3470.3	3446.5	3459.7	3502.1	3568.2	3687.3	3888.5	4267.1	4341.2	4830.9
22.5°	3523.2	3541.8	3517.9	3528.5	3549.7	3610.6	3827.6	4187.6	4251.2	4812.3
25°	3761.5	3729.7	3697.9	3684.7	3560.3	3586.8	3809.1	4182.3	4227.3	4746.2
27.5°	4010.3	3983.8	3970.6	3893.8	3724.4	3645.0	3811.8	4108.2	4169.1	4719.7
30°	4312.1	4346.5	4293.5	4200.9	3965.3	3769.4	3840.9	4071.2	4155.9	4619.1
32.5°	4629.7	4648.2	4674.7	4605.9	4301.5	3957.3	3928.2	4105.6	4110.9	4619.1
35°	4989.7	4963.2	5032.1	5037.3	4770.0	4290.9	4095.0	4129.4	4185.0	4597.9
37.5°	5299.4	5344.4	5423.8	5550.9	5275.6	4762.1	4354.4	4240.6	4264.4	4695.9
40°	5638.2	5683.2	5863.2	5990.3	5834.1	5291.5	4748.8	4500.0	4518.5	4841.5
42.5°	6011.5	6098.8	6313.2	6535.6	6493.2	5963.8	5257.1	4881.2	4873.2	5204.1
45°	6517.1	6633.5	6866.5	7123.2	7160.3	6734.1	5934.7	5450.3	5476.8	5677.9
47.5°	7221.2	7215.9	7443.5	7729.4	7943.8	7533.5	6744.7	6215.3	6212.6	6427.1
50°	7901.5	7904.1	7965.0	8295.9	8851.8	8642.6	7747.9	7231.8	7202.6	7308.5
52.5°	8216.5	8179.4	8134.4	8534.1	9550.6	10040.3	9018.5	8383.2	8359.4	8295.9
55°	7885.6	7898.8	7896.2	8311.8	9918.5	11514.7	10649.1	9651.2	9611.5	9412.9
57.5°	6824.1	6781.8	6874.4	7522.9	9497.6	12520.6	12981.2	11250.0	11146.8	10487.6
60°	5079.7	5092.9	5169.7	5934.7	8452.0	12732.3	15212.6	13126.7	12682.0	11244.7
62.5°	3547.1	3520.6	3549.7	3978.5	6043.2	11885.3	16721.4	15408.5	14979.7	12105.0
65°	2538.5	2504.1	2620.6	2882.6	3629.1	9087.3	16935.9	18447.3	18063.5	13478.8
67.5°	1826.5	1821.2	1956.2	2432.6	2578.2	5233.2	15347.6	21200.3	20967.3	15109.4
69°	1511.5	1514.1	1643.8	2178.5	2461.8	3573.5	13206.2	21674.1	21631.7	15951.2
70°	1318.2	1328.8	1479.7	2027.6	2414.1	2938.2	11385.0	21208.2	21165.9	16115.3
72.5°	812.6	820.6	1019.1	1625.3	2295.0	2398.2	6808.2	17351.4	17497.0	15363.5
75°	389.1	391.8	534.7	1175.3	2212.9	2273.8	3647.6	12803.8	13110.9	12404.1
77.5°	206.5	206.5	256.8	624.7	1792.1	2138.8	2165.3	9031.8	9285.9	7843.2
80°	103.2	105.9	156.2	325.6	1111.8	2096.5	1691.5	5386.8	5524.4	3200.3
82.5°	39.7	42.4	74.1	195.9	577.1	1770.9	1485.0	2649.7	2615.3	749.1
85°	5.3	5.3	26.5	116.5	246.2	780.9	1225.6	1106.5	1069.4	164.1
87.5°	0.0	0.0	5.3	34.4	74.1	227.6	473.8	304.4	338.8	45.0
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°
4947.3	0°	4947.3	4947.3	4947.3	4947.3	4947.3	4947.3	4947.3	4947.3	4947.3	4947.3
5037.3	2.5°	5024.1	4968.5	4883.8	4801.8	4714.4	4608.5	4492.1	4449.7	4375.6	4370.3
5061.2	5°	5018.8	4928.8	4780.6	4605.9	4357.1	4169.1	3965.3	3817.1	3703.2	3629.1
5074.4	7.5°	5045.3	4936.8	4680.0	4304.1	3983.8	3610.6	3295.6	3078.5	2880.0	2782.1
5116.8	10°	5002.9	4857.3	4481.5	3954.7	3483.5	2962.1	2501.5	2210.3	1913.8	1805.3
5140.6	12.5°	5026.8	4822.9	4267.1	3594.7	2946.2	2268.5	1717.9	1320.9	1042.9	952.9
5180.3	15°	5042.6	4748.8	4060.6	3163.2	2350.6	1545.9	995.3	749.1	661.8	645.9
5175.0	17.5°	4981.8	4658.8	3769.4	2737.1	1741.8	939.7	661.8	611.5	595.6	585.0
5167.1	20°	4979.1	4605.9	3517.9	2300.3	1162.1	640.6	571.8	553.2	529.4	521.5
5212.1	22.5°	4934.1	4494.7	3216.2	1821.2	741.2	550.6	513.5	484.4	457.9	447.4
5175.0	25°	4920.9	4365.0	2932.9	1368.5	563.8	492.4	455.3	412.9	381.2	365.3
5130.0	27.5°	4883.8	4253.8	2647.1	963.5	492.4	439.4	391.8	346.8	309.7	285.9
5100.9	30°	4751.5	4137.3	2329.4	667.1	447.4	389.1	336.2	283.2	246.2	230.3
5034.7	32.5°	4695.9	4028.8	1982.6	513.5	407.6	344.1	283.2	235.6	206.5	190.6
5010.9	35°	4629.7	3870.0	1646.5	447.4	370.6	299.1	238.2	198.5	174.7	161.5
5029.4	37.5°	4637.6	3742.9	1331.5	405.0	330.9	256.8	203.8	169.4	148.2	135.0
5124.7	40°	4613.8	3642.3	1035.0	367.9	293.8	219.7	172.1	142.9	124.4	111.2
5320.6	42.5°	4722.3	3615.9	780.9	336.2	256.8	187.9	148.2	121.8	103.2	87.4
5725.6	45°	4905.0	3658.2	608.8	307.1	219.7	161.5	127.1	100.6	82.1	71.5
6326.5	47.5°	5392.1	3825.0	476.5	283.2	187.9	140.3	105.9	82.1	66.2	55.6
7147.0	50°	6098.8	4198.2	405.0	248.8	158.8	119.1	87.4	63.5	52.9	42.4
8253.5	52.5°	7104.7	4825.6	367.9	219.7	132.4	97.9	68.8	50.3	39.7	31.8
9471.2	55°	8200.6	5609.1	333.5	185.3	111.2	79.4	55.6	39.7	29.1	21.2
10355.3	57.5°	9055.6	6286.8	304.4	153.5	90.0	63.5	42.4	29.1	21.2	13.2
11062.0	60°	9990.0	6763.2	267.4	121.8	74.1	47.6	31.8	21.2	15.9	7.9
11999.1	62.5°	10953.5	7321.8	219.7	95.3	58.2	37.1	23.8	15.9	10.6	2.6
13224.7	65°	12292.9	7758.5	169.4	74.1	45.0	26.5	18.5	13.2	5.3	0.0
13971.2	67.5°	12671.5	7544.1	124.4	58.2	31.8	18.5	13.2	7.9	2.6	0.0
13830.9	69°	12292.9	6795.0	108.5	50.3	26.5	15.9	10.6	5.3	2.6	0.0
13367.6	70°	11602.0	6212.6	95.3	42.4	23.8	15.9	7.9	5.3	2.6	0.0
11517.3	72.5°	9704.1	4764.7	74.1	31.8	18.5	13.2	7.9	5.3	0.0	0.0
9000.0	75°	7117.9	2943.5	55.6	23.8	15.9	10.6	7.9	5.3	0.0	0.0
5116.8	77.5°	3814.4	1074.7	39.7	15.9	10.6	7.9	7.9	5.3	0.0	0.0
1593.5	80°	1045.6	317.6	29.1	10.6	7.9	5.3	5.3	2.6	0.0	0.0
389.1	82.5°	285.9	82.1	18.5	10.6	7.9	5.3	2.6	0.0	0.0	0.0
187.9	85°	153.5	31.8	10.6	7.9	5.3	2.6	0.0	0.0	0.0	0.0
92.6	87.5°	79.4	10.6	7.9	5.3	5.3	2.6	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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