

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: P575340

Luminaire Tested: **EPH-VN-08-740-U-T4W-HSS**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575340
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-08-740-U-T4W-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T4W distribution lens and House Side Shield
Light Source: (128) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35542.7 lumens
Efficiency: N/A
Efficacy: 72.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

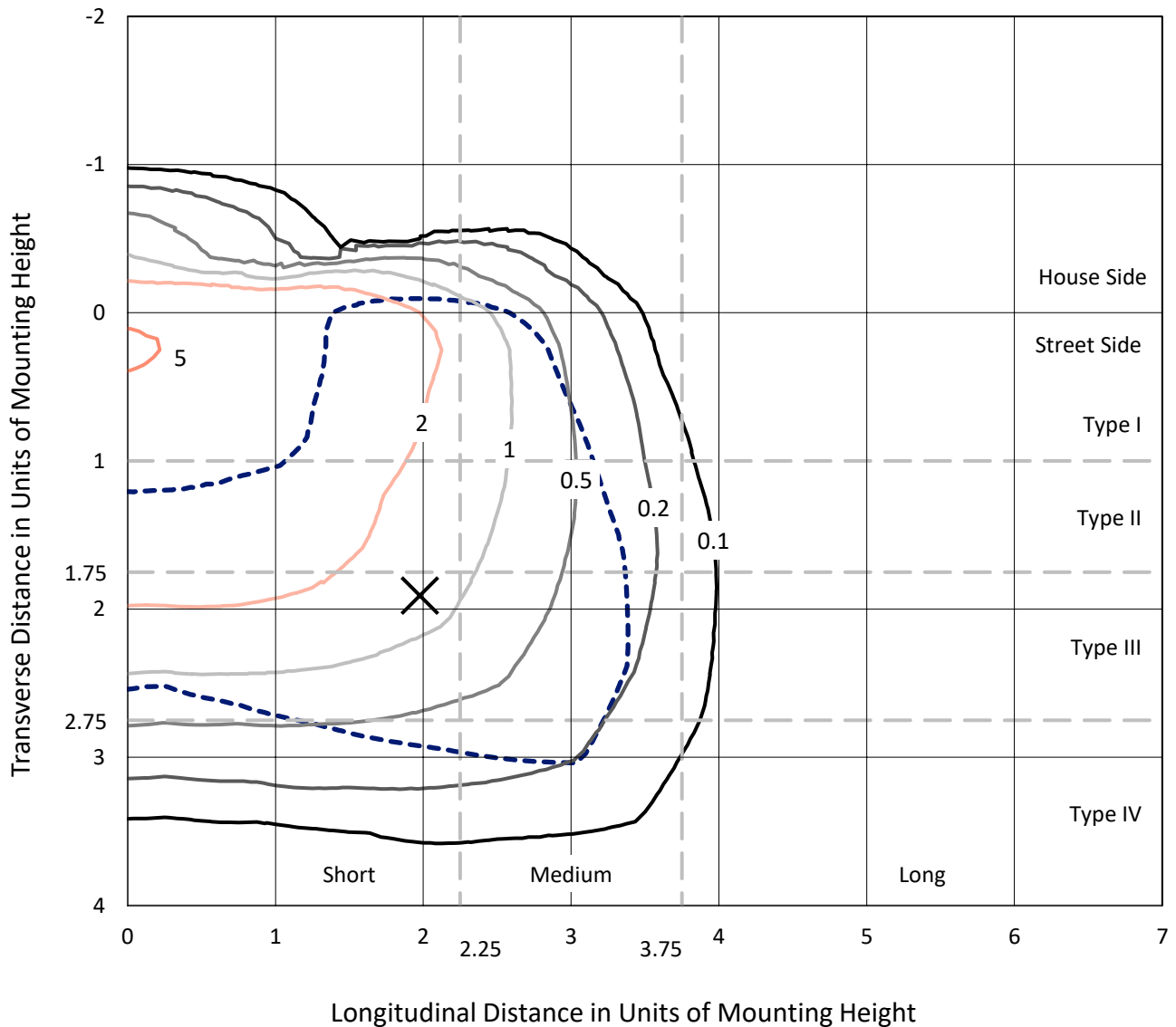
Input Watts (W): 488.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

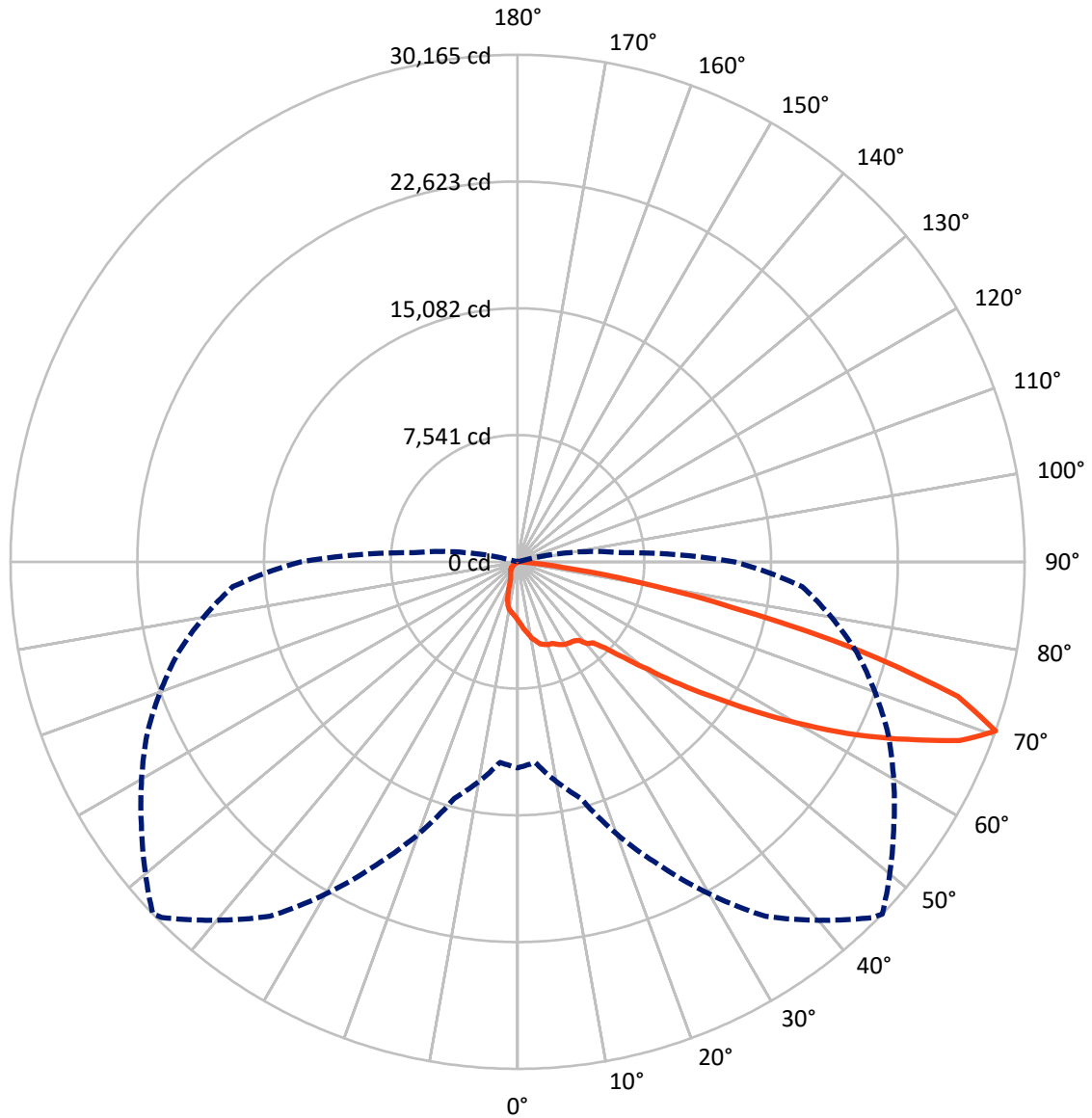
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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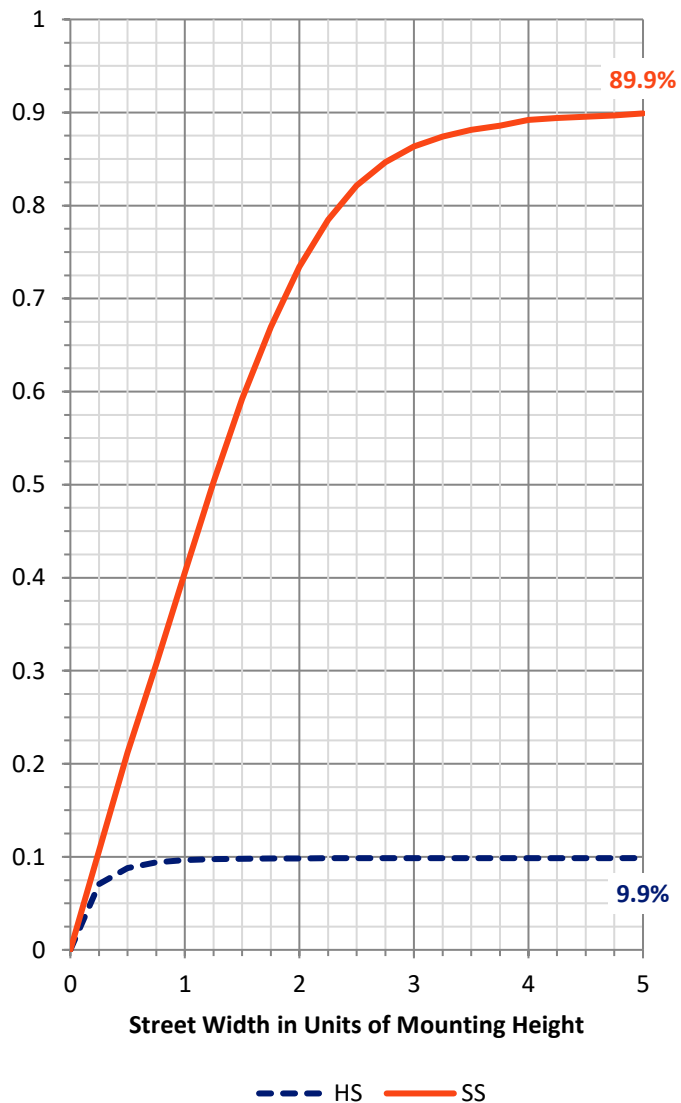
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3536.6	0.0	3536.6
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	32006.1	0.0	32006.1
	% Fixture	90.0	0.0	90.0
Total	Lumens	35542.7	0.0	35542.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	347.9	1.0
10°-20°	1050.7	3.0
20°-30°	1682.9	4.7
30°-40°	2402.2	6.8
40°-50°	4147.9	11.7
50°-60°	7941.5	22.3
60°-70°	11760.1	33.1
70°-80°	5824.7	16.4
80°-90°	384.9	1.1
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°	35542.7	100.0
0°-180°	35542.7	100.0

Coefficient of Utilization

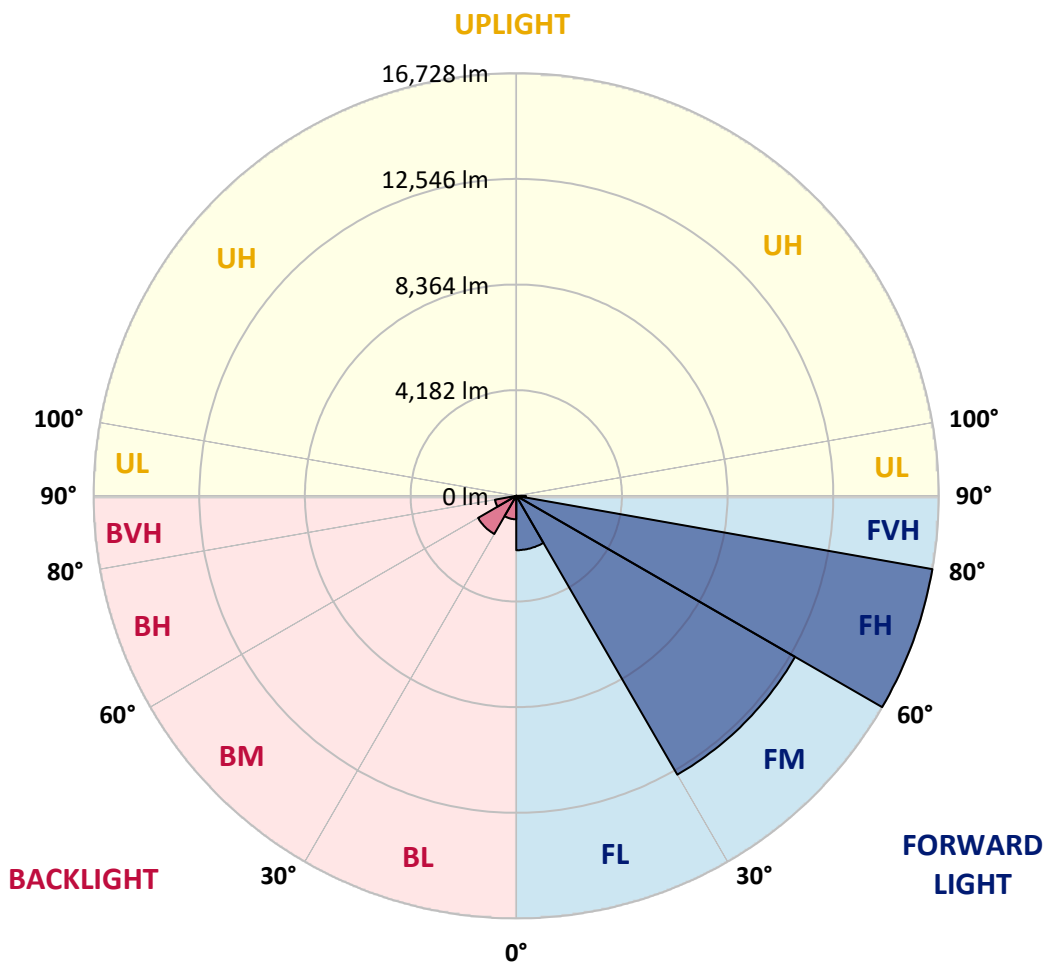


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2152.4	6.1			
FM (30°-60°)	12745.5	35.9			
FH (60°-80°)	16728.2	47.1			G5
FVH (80°-90°)	380.0	1.1			G3/500
BL (0°-30°)	929.1	2.6	B2/1000		
BM (30°-60°)	1746.0	4.9	B2/2500		
BH (60°-80°)	856.5	2.4	B2/1000		G2/1000
BVH (80°-90°)	4.9	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-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	3489.2	3489.2	3489.2	3489.2	3489.2	3489.2	3489.2	3489.2	3489.2	3489.2
2.5°	3893.4	3867.8	3826.8	3811.5	3770.6	3750.1	3719.4	3704.1	3647.8	3591.5
5°	4369.2	4307.8	4328.2	4266.8	4133.8	4026.4	4021.3	3903.6	3775.7	3673.4
7.5°	4850.1	4798.9	4722.2	4635.2	4486.8	4328.2	4282.2	4169.6	3990.6	3811.5
10°	5213.3	5177.5	5111.0	4988.2	4783.6	4604.5	4609.6	4420.3	4231.0	4026.4
12.5°	5438.4	5453.8	5356.6	5233.8	5054.7	4829.6	4824.5	4696.6	4481.7	4266.8
15°	5663.5	5719.8	5571.4	5428.2	5198.0	5034.2	5064.9	4911.5	4701.7	4456.1
17.5°	5699.3	5714.7	5684.0	5474.2	5305.4	5167.3	5172.4	5070.1	4911.5	4645.4
20°	5637.9	5627.7	5591.9	5438.4	5325.9	5244.0	5249.1	5223.5	5136.6	4921.7
22.5°	5458.9	5458.9	5412.8	5310.5	5259.4	5336.1	5274.7	5371.9	5279.8	5151.9
25°	5315.6	5371.9	5346.3	5279.8	5300.3	5402.6	5433.3	5525.4	5510.0	5351.4
27.5°	5469.1	5402.6	5418.0	5341.2	5418.0	5571.4	5586.8	5653.3	5648.2	5520.3
30°	5571.4	5632.8	5515.2	5346.3	5428.2	5689.1	5678.9	5765.9	5806.8	5653.3
32.5°	5898.9	5847.7	5750.5	5525.4	5535.6	5684.0	5730.0	5842.6	5868.2	5776.1
35°	6569.1	6492.3	6067.7	5730.0	5678.9	5750.5	5781.2	6001.2	6047.2	5944.9
37.5°	7602.5	7428.6	6917.0	6170.0	5939.8	5924.5	5924.5	6216.1	6390.0	6154.7
40°	9081.1	8835.5	8283.0	6983.5	6282.6	6344.0	6405.4	6564.0	6543.5	6390.0
42.5°	10963.8	10774.5	10175.9	8349.5	6937.4	6630.5	6579.3	6794.2	7116.5	7055.1
45°	12534.5	12544.7	12161.0	10222.0	8068.1	7290.5	7326.3	7490.0	8032.3	7986.2
47.5°	13680.5	13537.2	13480.9	12028.0	9715.5	8543.9	8492.7	8605.3	9311.3	9602.9
50°	14724.2	14626.9	14493.9	13782.8	11695.4	10114.5	10063.4	10073.6	11153.1	11562.4
52.5°	16018.5	16141.3	15701.3	15266.5	14258.6	12155.9	12099.6	11900.1	13240.5	13803.3
55°	17614.8	17384.5	16888.3	17113.4	16709.2	14360.9	14258.6	14023.2	15619.5	15854.8
57.5°	17967.8	17793.8	18305.4	19103.5	19492.4	16949.7	16908.7	16484.1	17619.9	17405.0
60°	18847.7	18893.8	19604.9	21190.9	21866.2	19937.5	19737.9	18991.0	19558.9	19599.8
62.5°	19753.3	19645.8	21237.0	22761.6	23800.1	22766.7	22700.2	21216.5	21861.1	21339.3
65°	19088.2	19251.9	21528.6	24081.5	26307.0	25534.5	25478.2	23360.1	23713.2	23063.4
67.5°	16724.6	16392.0	19579.3	23477.8	27596.3	28435.3	28373.9	25698.2	24756.8	23053.2
70°	12258.2	11971.7	14570.7	19881.2	25749.4	29919.0	30164.6	27325.1	24332.2	20904.4
72.5°	6006.3	6011.4	8165.3	13480.9	20372.3	27268.8	27391.6	25053.6	20904.4	15409.7
75°	1775.3	1795.8	3023.6	6610.0	13168.9	20710.0	20848.1	19016.6	14488.8	7960.7
77.5°	649.7	649.7	1002.8	2481.3	6569.1	13071.7	13061.4	11675.0	7336.5	2696.2
80°	337.7	353.0	521.8	1013.0	2844.6	6809.5	7065.3	5714.7	2788.3	1135.8
82.5°	138.1	153.5	286.5	521.8	1366.0	2389.2	2614.3	2240.9	1212.5	793.0
85°	40.9	46.0	138.1	291.6	537.2	598.6	665.1	752.1	762.3	613.9
87.5°	5.1	5.1	56.3	97.2	117.7	127.9	148.4	148.4	388.8	429.8
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°
3489.2	0°	3489.2	3489.2	3489.2	3489.2	3489.2	3489.2	3489.2	3489.2	3489.2	3489.2
3555.7	2.5°	3514.8	3489.2	3448.3	3356.2	3335.7	3269.2	3264.1	3202.7	3223.1	3182.2
3535.2	5°	3489.2	3432.9	3320.4	3248.7	3177.1	3131.1	3100.4	3074.8	3069.7	3049.2
3627.3	7.5°	3535.2	3458.5	3284.5	3172.0	3049.2	3008.3	2941.8	2936.6	2900.8	2865.0
3775.7	10°	3688.7	3550.6	3361.3	3172.0	3013.4	2880.4	2726.9	2614.3	2573.4	2481.3
3970.1	12.5°	3811.5	3688.7	3412.4	3218.0	2977.6	2675.7	2338.1	2077.1	1954.4	1836.7
4128.7	15°	3985.4	3806.4	3509.6	3228.3	2839.4	2317.6	1765.1	1473.4	1360.9	1335.3
4364.0	17.5°	4174.7	3985.4	3632.4	3202.7	2558.1	1790.6	1299.5	1130.7	1151.1	1181.8
4538.0	20°	4384.5	4154.3	3724.5	3115.7	2113.0	1299.5	1064.2	1059.0	1089.7	1135.8
4834.7	22.5°	4604.5	4405.0	3837.1	2854.8	1575.8	1043.7	1023.2	1023.2	1043.7	1100.0
5039.4	25°	4850.1	4584.0	3893.4	2450.6	1130.7	961.8	972.1	992.5	1002.8	1048.8
5223.5	27.5°	5039.4	4783.6	3908.7	1964.6	920.9	890.2	915.8	941.4	956.7	992.5
5397.5	30°	5213.3	5034.2	3826.8	1463.2	844.2	828.8	839.0	874.9	905.6	936.2
5566.3	32.5°	5433.3	5177.5	3637.6	1038.6	798.1	772.5	767.4	782.8	818.6	854.4
5745.4	35°	5658.4	5418.0	3335.7	833.9	757.2	721.4	700.9	685.6	700.9	726.5
6011.4	37.5°	5985.8	5781.2	2957.1	767.4	726.5	675.3	634.4	598.6	573.0	567.9
6359.3	40°	6451.4	6190.5	2471.1	721.4	690.7	629.3	567.9	506.5	450.2	414.4
7034.6	42.5°	7157.4	6794.2	1944.1	695.8	665.1	578.1	491.1	404.2	332.5	296.7
7981.1	45°	8165.3	7592.3	1427.4	670.2	634.4	516.7	404.2	301.9	230.2	209.8
9736.0	47.5°	9684.8	8554.1	1023.2	629.3	593.5	450.2	317.2	214.9	168.8	158.6
11889.8	50°	11669.8	9695.0	798.1	583.2	542.3	378.6	235.3	158.6	133.0	127.9
14192.1	52.5°	13752.1	10846.1	700.9	542.3	465.6	301.9	173.9	127.9	112.6	107.4
16264.1	55°	15532.5	11588.0	608.8	480.9	373.5	225.1	138.1	112.6	97.2	81.9
18561.2	57.5°	17333.4	11961.5	480.9	399.1	276.3	168.8	117.7	97.2	81.9	66.5
20832.8	60°	18796.6	12227.5	342.8	296.7	194.4	133.0	102.3	87.0	66.5	51.2
22971.3	62.5°	19758.4	11465.2	250.7	225.1	143.3	112.6	87.0	71.6	51.2	35.8
23841.1	65°	19282.6	10411.3	194.4	158.6	107.4	87.0	71.6	51.2	35.8	20.5
22035.1	67.5°	17302.7	8482.5	158.6	117.7	81.9	66.5	56.3	40.9	20.5	5.1
17000.8	70°	12907.9	6216.1	127.9	87.0	66.5	51.2	40.9	25.6	10.2	5.1
9628.5	72.5°	7060.2	3402.2	102.3	71.6	51.2	40.9	30.7	20.5	10.2	0.0
3284.5	75°	2332.9	905.6	76.7	51.2	30.7	25.6	20.5	15.3	5.1	0.0
767.4	77.5°	562.8	235.3	61.4	46.0	25.6	15.3	10.2	5.1	5.1	0.0
225.1	80°	173.9	97.2	46.0	30.7	20.5	15.3	5.1	0.0	0.0	0.0
102.3	82.5°	71.6	46.0	20.5	20.5	15.3	5.1	0.0	0.0	0.0	0.0
46.0	85°	35.8	25.6	15.3	10.2	10.2	5.1	0.0	0.0	0.0	0.0
25.6	87.5°	25.6	10.2	5.1	5.1	0.0	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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180°
3489.2
3166.9
3039.0
2865.0
2491.5
1882.7
1330.2
1176.7
1146.0
1089.7
1053.9
1007.9
936.2
854.4
747.0
583.2
419.5
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