

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: P575336

Luminaire Tested: **EPH-VN-04-740-U-T4W-HSS**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575336
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-T4W-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T4W distribution lens and House Side Shield
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

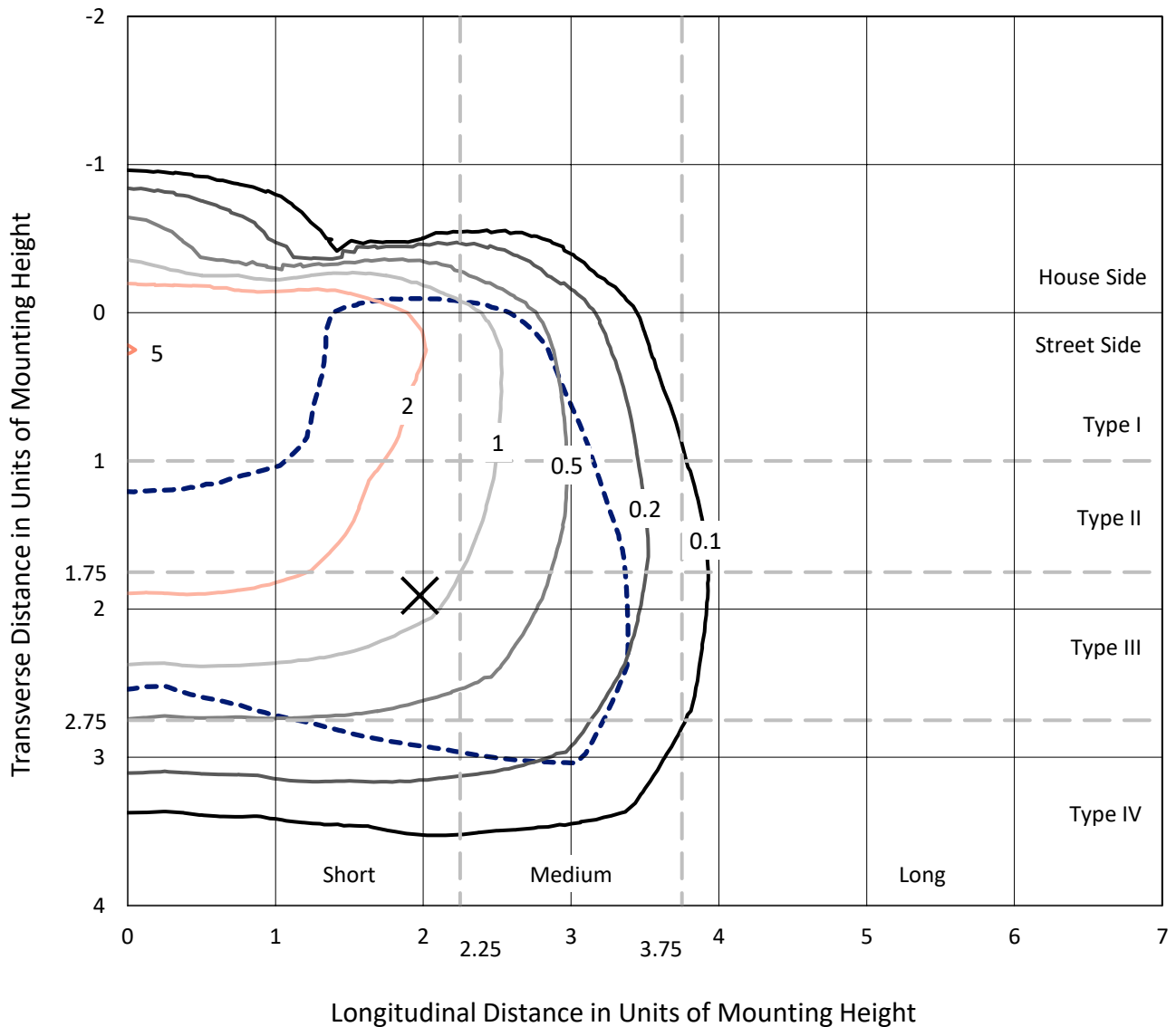
Lumens per Lamp: N/A
Luminaire Lumens: 22298.6 lumens
Efficiency: N/A
Efficacy: 92.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

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

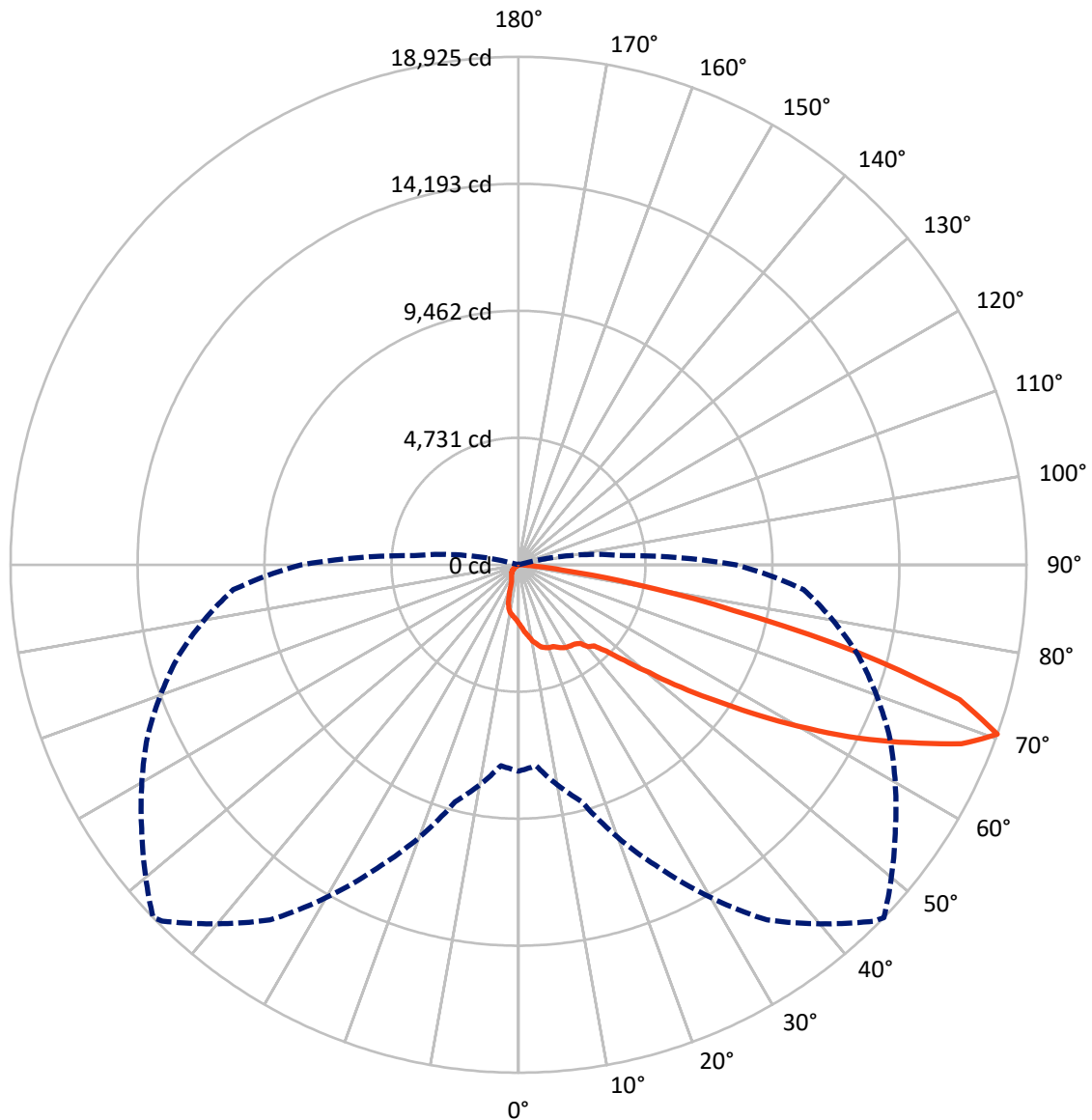
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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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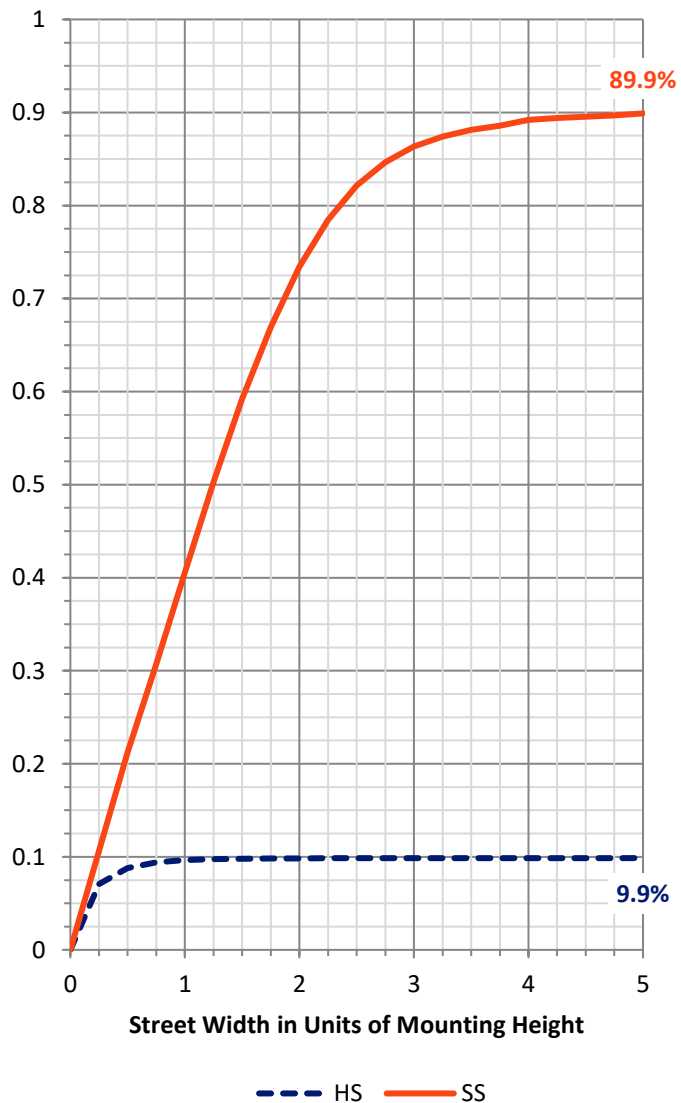
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2218.8	0.0	2218.8
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	20079.8	0.0	20079.8
	% Fixture	90.0	0.0	90.0
Total	Lumens	22298.6	0.0	22298.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.3	1.0
10°-20°	659.2	3.0
20°-30°	1055.8	4.7
30°-40°	1507.1	6.8
40°-50°	2602.3	11.7
50°-60°	4982.3	22.3
60°-70°	7378.0	33.1
70°-80°	3654.2	16.4
80°-90°	241.5	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°	22298.6	100.0
0°-180°	22298.6	100.0

Coefficient of Utilization

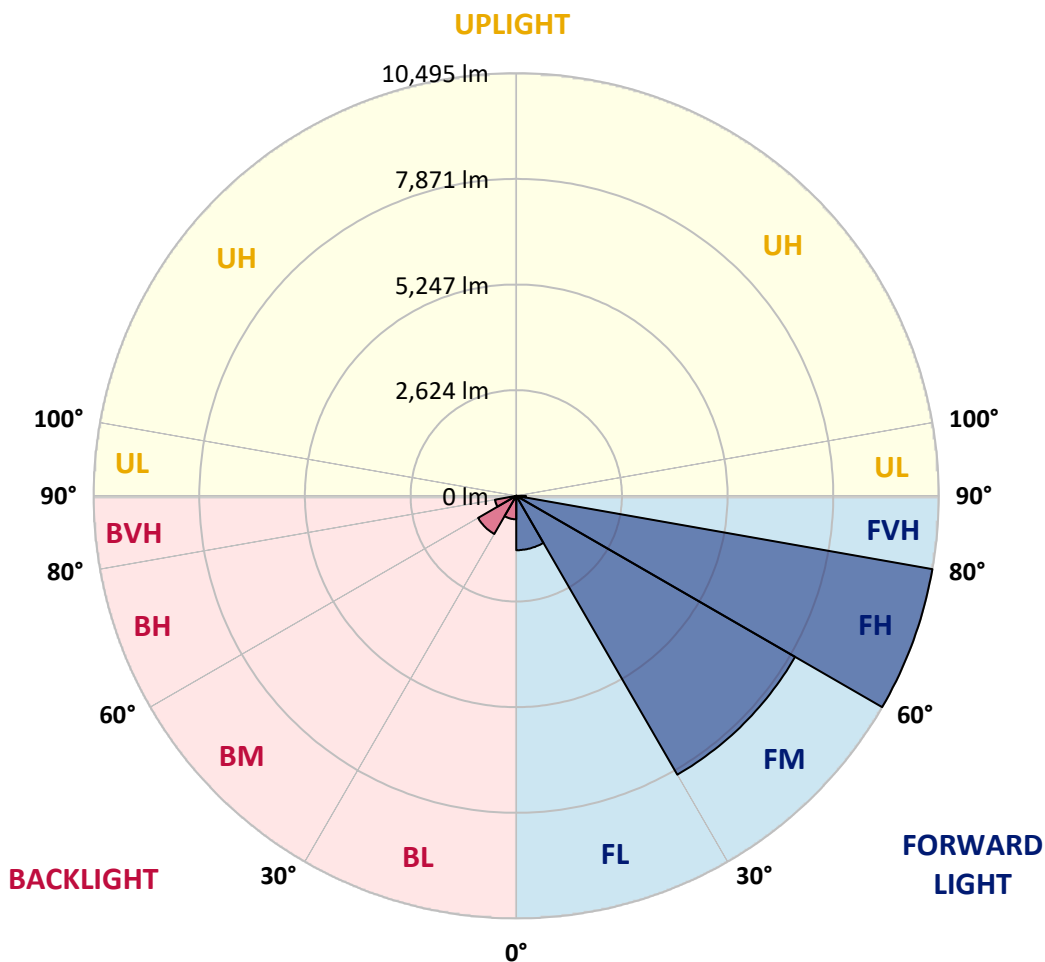


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1350.3	6.1			
FM (30°-60°)	7996.2	35.9			
FH (60°-80°)	10494.9	47.1			G4/12000
FVH (80°-90°)	238.4	1.1			G3/500
BL (0°-30°)	582.9	2.6	B2/1000		
BM (30°-60°)	1095.4	4.9	B2/2500		
BH (60°-80°)	537.4	2.4	B2/1000		G2/1000
BVH (80°-90°)	3.1	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	2189.0	2189.0	2189.0	2189.0	2189.0	2189.0	2189.0	2189.0	2189.0	2189.0
2.5°	2442.6	2426.5	2400.9	2391.2	2365.6	2352.7	2333.5	2323.8	2288.5	2253.2
5°	2741.1	2702.6	2715.4	2676.9	2593.5	2526.0	2522.8	2449.0	2368.8	2304.6
7.5°	3042.8	3010.7	2962.6	2908.0	2814.9	2715.4	2686.5	2615.9	2503.6	2391.2
10°	3270.7	3248.2	3206.5	3129.5	3001.1	2888.7	2892.0	2773.2	2654.4	2526.0
12.5°	3411.9	3421.6	3360.6	3283.5	3171.2	3030.0	3026.8	2946.5	2811.7	2676.9
15°	3553.2	3588.5	3495.4	3405.5	3261.1	3158.4	3177.6	3081.3	2949.7	2795.7
17.5°	3575.6	3585.3	3566.0	3434.4	3328.5	3241.8	3245.0	3180.8	3081.3	2914.4
20°	3537.1	3530.7	3508.2	3411.9	3341.3	3290.0	3293.2	3277.1	3222.6	3087.7
22.5°	3424.8	3424.8	3395.9	3331.7	3299.6	3347.7	3309.2	3370.2	3312.4	3232.2
25°	3334.9	3370.2	3354.2	3312.4	3325.3	3389.5	3408.7	3466.5	3456.9	3357.4
27.5°	3431.2	3389.5	3399.1	3350.9	3399.1	3495.4	3505.0	3546.7	3543.5	3463.3
30°	3495.4	3533.9	3460.1	3354.2	3405.5	3569.2	3562.8	3617.4	3643.0	3546.7
32.5°	3700.8	3668.7	3607.7	3466.5	3472.9	3566.0	3594.9	3665.5	3681.5	3623.8
35°	4121.3	4073.1	3806.7	3594.9	3562.8	3607.7	3627.0	3765.0	3793.9	3729.7
37.5°	4769.6	4660.5	4339.5	3870.9	3726.5	3716.9	3716.9	3899.8	4008.9	3861.3
40°	5697.2	5543.2	5196.5	4381.3	3941.5	3980.0	4018.6	4118.1	4105.2	4008.9
42.5°	6878.4	6759.7	6384.1	5238.3	4352.4	4159.8	4127.7	4262.5	4464.7	4426.2
45°	7863.8	7870.2	7629.5	6413.0	5061.7	4573.8	4596.3	4699.0	5039.3	5010.4
47.5°	8582.8	8492.9	8457.6	7546.0	6095.3	5360.2	5328.1	5398.7	5841.7	6024.6
50°	9237.6	9176.6	9093.1	8647.0	7337.4	6345.6	6313.5	6319.9	6997.2	7254.0
52.5°	10049.6	10126.7	9850.6	9577.8	8945.5	7626.3	7591.0	7465.8	8306.7	8659.8
55°	11051.1	10906.6	10595.3	10736.5	10482.9	9009.7	8945.5	8797.8	9799.3	9946.9
57.5°	11272.5	11163.4	11484.4	11985.1	12229.0	10633.8	10608.1	10341.7	11054.3	10919.5
60°	11824.6	11853.5	12299.6	13294.6	13718.3	12508.3	12383.1	11914.5	12270.7	12296.4
62.5°	12392.7	12325.3	13323.5	14280.0	14931.6	14283.2	14241.5	13310.7	13715.1	13387.7
65°	11975.5	12078.2	13506.5	15108.1	16504.4	16019.7	15984.4	14655.6	14877.0	14469.4
67.5°	10492.6	10283.9	12283.6	14729.4	17313.2	17839.6	17801.1	16122.4	15531.8	14463.0
70°	7690.5	7510.7	9141.3	12473.0	16154.5	18770.4	18924.5	17143.1	15265.4	13114.9
72.5°	3768.2	3771.4	5122.7	8457.6	12781.1	17107.8	17184.8	15718.0	13114.9	9667.7
75°	1113.8	1126.6	1896.9	4147.0	8261.8	12992.9	13079.6	11930.5	9089.9	4994.3
77.5°	407.6	407.6	629.1	1556.7	4121.3	8200.8	8194.4	7324.6	4602.7	1691.5
80°	211.8	221.5	327.4	635.5	1784.6	4272.1	4432.6	3585.3	1749.3	712.6
82.5°	86.7	96.3	179.7	327.4	857.0	1498.9	1640.2	1405.9	760.7	497.5
85°	25.7	28.9	86.7	183.0	337.0	375.5	417.3	471.8	478.2	385.2
87.5°	3.2	3.2	35.3	61.0	73.8	80.2	93.1	93.1	243.9	269.6
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°
2189.0	0°	2189.0	2189.0	2189.0	2189.0	2189.0	2189.0	2189.0	2189.0	2189.0	2189.0
2230.8	2.5°	2205.1	2189.0	2163.3	2105.6	2092.7	2051.0	2047.8	2009.3	2022.1	1996.4
2217.9	5°	2189.0	2153.7	2083.1	2038.2	1993.2	1964.3	1945.1	1929.0	1925.8	1913.0
2275.7	7.5°	2217.9	2169.8	2060.6	1990.0	1913.0	1887.3	1845.6	1842.4	1819.9	1797.4
2368.8	10°	2314.2	2227.5	2108.8	1990.0	1890.5	1807.1	1710.8	1640.2	1614.5	1556.7
2490.7	12.5°	2391.2	2314.2	2140.9	2018.9	1868.1	1678.7	1466.8	1303.1	1226.1	1152.3
2590.2	15°	2500.4	2388.0	2201.9	2025.3	1781.4	1454.0	1107.4	924.4	853.8	837.7
2737.9	17.5°	2619.1	2500.4	2278.9	2009.3	1604.9	1123.4	815.3	709.3	722.2	741.4
2847.0	20°	2750.7	2606.3	2336.7	1954.7	1325.6	815.3	667.6	664.4	683.7	712.6
3033.2	22.5°	2888.7	2763.6	2407.3	1791.0	988.6	654.8	641.9	641.9	654.8	690.1
3161.6	25°	3042.8	2875.9	2442.6	1537.5	709.3	603.4	609.8	622.7	629.1	658.0
3277.1	27.5°	3161.6	3001.1	2452.2	1232.5	577.7	558.5	574.5	590.6	600.2	622.7
3386.3	30°	3270.7	3158.4	2400.9	918.0	529.6	520.0	526.4	548.9	568.1	587.4
3492.2	32.5°	3408.7	3248.2	2282.1	651.6	500.7	484.7	481.5	491.1	513.6	536.0
3604.5	35°	3549.9	3399.1	2092.7	523.2	475.0	452.6	439.7	430.1	439.7	455.8
3771.4	37.5°	3755.4	3627.0	1855.2	481.5	455.8	423.7	398.0	375.5	359.5	356.3
3989.7	40°	4047.5	3883.8	1550.3	452.6	433.3	394.8	356.3	317.8	282.5	260.0
4413.4	42.5°	4490.4	4262.5	1219.7	436.5	417.3	362.7	308.1	253.6	208.6	186.2
5007.2	45°	5122.7	4763.2	895.5	420.5	398.0	324.2	253.6	189.4	144.4	131.6
6108.1	47.5°	6076.0	5366.6	641.9	394.8	372.3	282.5	199.0	134.8	105.9	99.5
7459.4	50°	7321.4	6082.4	500.7	365.9	340.2	237.5	147.6	99.5	83.5	80.2
8903.8	52.5°	8627.7	6804.6	439.7	340.2	292.1	189.4	109.1	80.2	70.6	67.4
10203.7	55°	9744.7	7270.0	382.0	301.7	234.3	141.2	86.7	70.6	61.0	51.4
11644.9	57.5°	10874.5	7504.3	301.7	250.4	173.3	105.9	73.8	61.0	51.4	41.7
13070.0	60°	11792.5	7671.2	215.1	186.2	122.0	83.5	64.2	54.6	41.7	32.1
14411.6	62.5°	12395.9	7193.0	157.3	141.2	89.9	70.6	54.6	44.9	32.1	22.5
14957.3	65°	12097.4	6531.8	122.0	99.5	67.4	54.6	44.9	32.1	22.5	12.8
13824.2	67.5°	10855.3	5321.7	99.5	73.8	51.4	41.7	35.3	25.7	12.8	3.2
10665.9	70°	8098.1	3899.8	80.2	54.6	41.7	32.1	25.7	16.0	6.4	3.2
6040.7	72.5°	4429.4	2134.5	64.2	44.9	32.1	25.7	19.3	12.8	6.4	0.0
2060.6	75°	1463.6	568.1	48.1	32.1	19.3	16.0	12.8	9.6	3.2	0.0
481.5	77.5°	353.1	147.6	38.5	28.9	16.0	9.6	6.4	3.2	3.2	0.0
141.2	80°	109.1	61.0	28.9	19.3	12.8	9.6	3.2	0.0	0.0	0.0
64.2	82.5°	44.9	28.9	12.8	12.8	9.6	3.2	0.0	0.0	0.0	0.0
28.9	85°	22.5	16.0	9.6	6.4	6.4	3.2	0.0	0.0	0.0	0.0
16.0	87.5°	16.0	6.4	3.2	3.2	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°
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