

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: P575290

Luminaire Tested: **EPH-VN-04-735-U-T4FT-HSS**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575290
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-04-735-U-T4FT-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T4FT distribution lens and House Side Shield
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

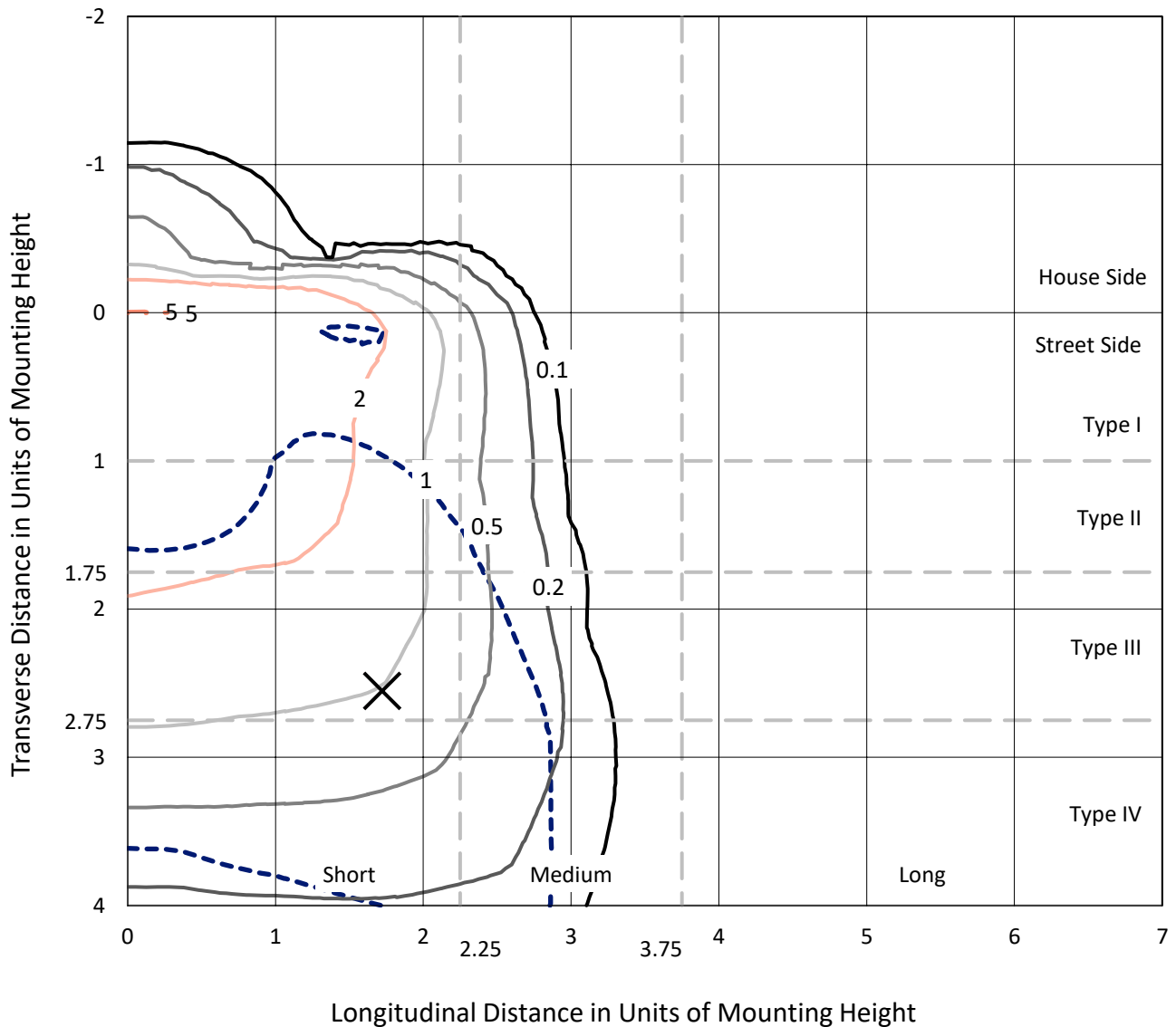
Lumens per Lamp: N/A
Luminaire Lumens: 21553.5 lumens
Efficiency: N/A
Efficacy: 89.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

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

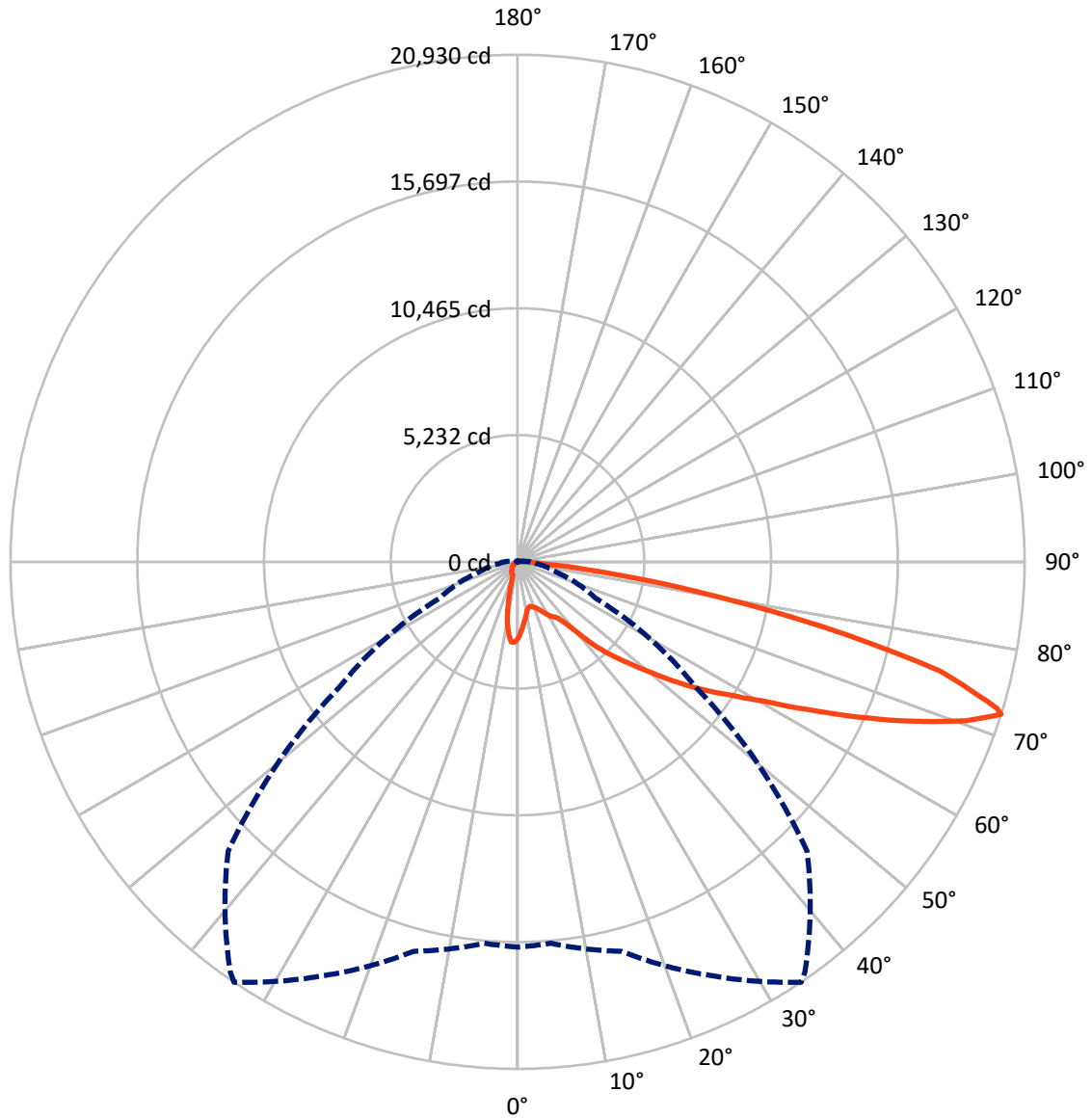
× Max cd
 - - - 1/2 Max cd



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 34-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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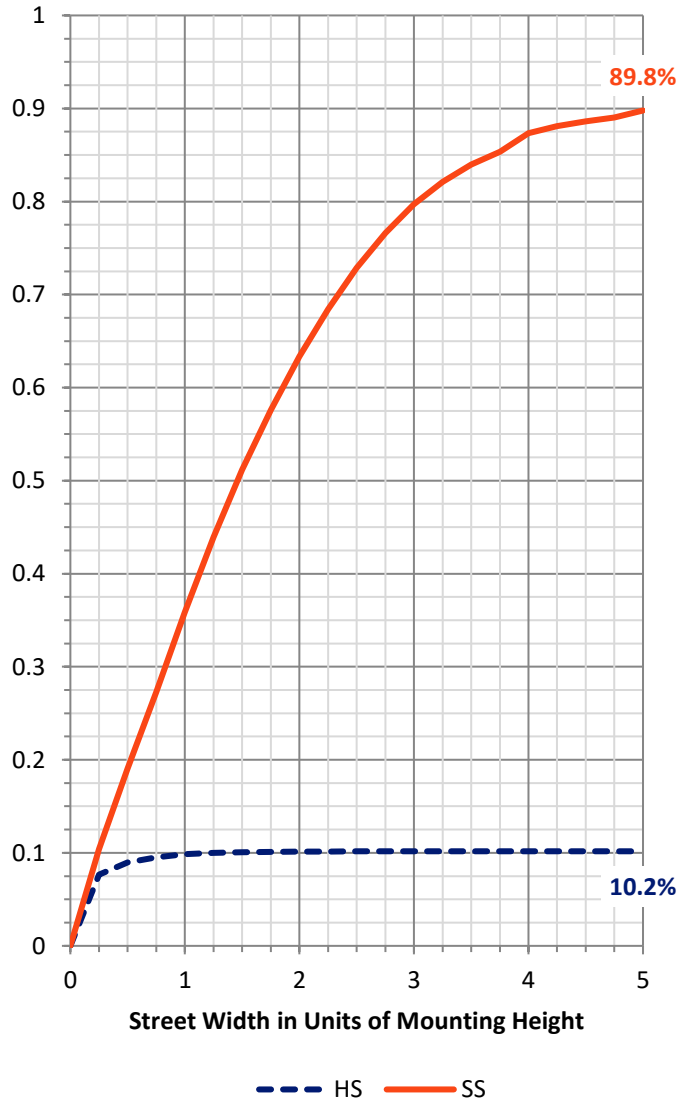
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2206.6	0.0	2206.6
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	19346.9	0.0	19346.9
	% Fixture	89.8	0.0	89.8
Total	Lumens	21553.5	0.0	21553.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	273.7	1.3
10°-20°	619.7	2.9
20°-30°	935.4	4.3
30°-40°	1518.0	7.0
40°-50°	2854.5	13.2
50°-60°	4667.2	21.7
60°-70°	6204.3	28.8
70°-80°	4155.0	19.3
80°-90°	325.6	1.5
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°	21553.5	100.0
0°-180°	21553.5	100.0

Coefficient of Utilization



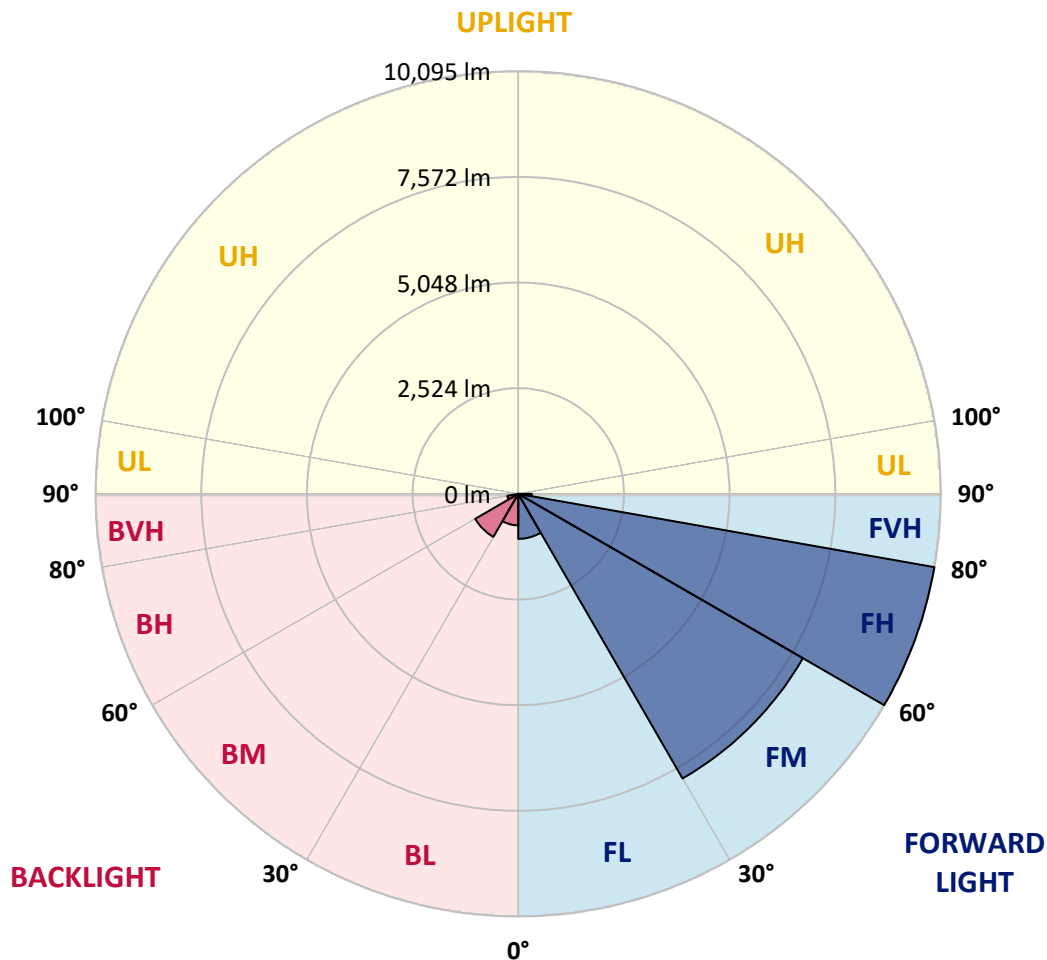
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1076.0	5.0			
FM (30°-60°)	7851.9	36.4			
FH (60°-80°)	10095.5	46.8			G4/12000
FVH (80°-90°)	323.5	1.5			G3/500
BL (0°-30°)	752.9	3.5	B2/1000		
BM (30°-60°)	1187.8	5.5	B2/2500		
BH (60°-80°)	263.9	1.2	B1/500		G1/500
BVH (80°-90°)	2.1	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°	34°	35°	45°	55°	65°	75°
0°	3153.3	3153.3	3153.3	3153.3	3153.3	3153.3	3153.3	3153.3	3153.3	3153.3
2.5°	2788.7	2782.5	2801.2	2832.4	2863.5	2851.0	2910.3	2972.6	3016.2	3075.4
5°	2436.6	2452.2	2470.9	2533.2	2573.7	2583.1	2692.1	2773.2	2907.1	3044.2
7.5°	2115.7	2134.4	2171.8	2240.3	2324.5	2346.3	2455.3	2617.4	2791.8	2972.6
10°	1882.0	1900.7	1941.2	1984.8	2097.0	2097.0	2246.6	2470.9	2698.4	2910.3
12.5°	1832.2	1841.5	1838.4	1872.7	1944.3	1959.9	2106.3	2352.5	2617.4	2888.4
15°	1891.4	1897.6	1866.4	1847.7	1910.0	1925.6	2062.7	2280.8	2564.4	2900.9
17.5°	2009.8	1987.9	1925.6	1897.6	1950.6	1959.9	2087.7	2277.7	2558.2	2935.2
20°	2078.3	2103.2	1994.2	1941.2	2016.0	2028.5	2165.6	2327.6	2589.3	2994.4
22.5°	2199.8	2212.3	2065.8	2031.6	2103.2	2103.2	2259.0	2427.3	2664.1	3091.0
25°	2371.2	2355.6	2184.2	2150.0	2218.5	2246.6	2402.4	2586.2	2779.4	3181.3
27.5°	2505.2	2514.5	2374.3	2284.0	2399.2	2417.9	2586.2	2757.6	2866.6	3256.1
30°	2704.6	2685.9	2536.3	2433.5	2576.9	2580.0	2742.0	2919.6	3034.9	3390.1
32.5°	2941.4	2904.0	2732.6	2586.2	2701.5	2729.5	2894.7	3153.3	3296.6	3642.5
35°	3443.1	3352.7	3072.3	2844.8	2854.2	2866.6	3122.1	3492.9	3658.1	3963.4
37.5°	4175.3	4137.9	3820.1	3387.0	3221.8	3184.5	3471.1	3941.6	4147.3	4387.2
40°	4901.3	4848.3	4552.3	4225.2	3926.0	3851.3	3994.6	4536.8	4723.7	4976.1
42.5°	5708.3	5614.9	5265.9	5001.0	4814.1	4733.1	4677.0	5284.6	5496.5	5667.8
45°	6524.7	6372.0	5867.2	5664.7	5565.0	5521.4	5515.1	6225.6	6353.3	6387.6
47.5°	7241.4	7076.2	6618.2	6390.7	6315.9	6303.5	6652.4	7309.9	7210.2	7119.8
50°	7792.9	7686.9	7356.6	7275.6	7219.5	7197.7	8014.1	8425.4	7964.2	7805.3
52.5°	8646.6	8409.8	8035.9	8064.0	8260.3	8263.4	9394.4	9484.8	8590.5	8275.8
55°	9329.0	9173.2	8867.9	8827.3	9344.6	9400.7	10631.5	10288.7	8939.5	8724.5
57.5°	10132.9	10061.2	9840.0	9846.2	10388.4	10506.8	11731.4	10968.0	9229.3	9014.3
60°	11295.1	11089.5	10974.2	11027.2	11665.9	11781.2	12797.0	11457.2	9369.5	9204.4
62.5°	12578.9	12339.0	12214.3	12485.4	13417.1	13435.8	13607.1	11890.3	9282.3	9254.2
65°	14124.4	13887.6	13787.9	14333.1	15439.3	15370.7	14744.4	12074.1	9005.0	8752.6
67.5°	15663.6	15520.3	15314.7	16184.0	17561.2	17561.2	15925.4	12005.6	8279.0	7026.4
70°	16392.8	16492.5	16819.6	18184.4	19645.8	19496.2	17090.7	11217.2	6163.3	3773.4
72°	15906.7	15803.9	16648.3	18838.7	20929.5	20683.4	16894.4	8917.7	3561.5	1654.5
72.5°	15071.6	15168.2	16330.4	18748.4	20689.6	20892.1	16414.6	8226.0	2928.9	1318.0
75°	9241.8	9406.9	12189.4	15919.1	18028.6	17801.1	12697.3	3919.8	1124.8	560.9
77.5°	3374.5	3511.6	5914.0	10017.6	12821.9	12678.6	7347.3	1392.8	610.7	417.5
80°	878.7	950.3	2009.8	4620.9	7540.5	7549.8	3075.4	557.7	414.4	342.7
82.5°	174.5	193.2	616.9	1797.9	3524.1	3477.3	972.2	299.1	311.6	280.4
85°	21.8	28.0	130.9	610.7	1140.4	1022.0	239.9	149.6	230.6	218.1
87.5°	3.1	3.1	31.2	140.2	239.9	233.7	49.9	46.7	102.8	134.0
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°
3153.3	0°	3153.3	3153.3	3153.3	3153.3	3153.3	3153.3	3153.3	3153.3	3153.3	3153.3
3147.1	2.5°	3187.6	3200.0	3243.7	3281.0	3324.7	3337.1	3318.4	3349.6	3306.0	3330.9
3172.0	5°	3193.8	3265.5	3346.5	3399.4	3387.0	3355.8	3330.9	3246.8	3187.6	3165.8
3181.3	7.5°	3237.4	3318.4	3405.7	3405.7	3337.1	3175.1	3019.3	2869.7	2745.1	2682.8
3184.5	10°	3293.5	3377.6	3468.0	3349.6	3094.1	2798.1	2576.9	2296.4	2106.3	2006.6
3234.3	12.5°	3368.3	3486.7	3517.9	3243.7	2819.9	2380.5	1978.6	1589.1	1408.4	1265.1
3315.3	15°	3464.9	3580.2	3486.7	3013.1	2470.9	1822.8	1339.8	969.0	825.7	750.9
3408.8	17.5°	3592.6	3679.9	3477.3	2801.2	2000.4	1246.4	822.6	654.3	623.2	610.7
3539.7	20°	3742.2	3807.6	3387.0	2470.9	1486.3	800.8	604.5	585.8	588.9	582.7
3695.5	22.5°	3910.5	3932.3	3284.2	2087.7	1006.4	592.0	564.0	567.1	570.2	564.0
3838.8	25°	4088.1	4028.9	3134.6	1639.0	669.9	539.1	545.3	551.5	554.6	557.7
4013.3	27.5°	4287.5	4169.1	2925.8	1199.6	523.5	507.9	526.6	545.3	548.4	548.4
4275.0	30°	4580.4	4384.1	2723.3	813.3	461.2	473.6	504.8	526.6	542.2	542.2
4680.1	32.5°	4951.2	4608.4	2439.8	554.6	426.9	433.1	458.0	501.7	535.9	539.1
5222.3	35°	5465.3	4879.5	2143.7	442.5	402.0	405.1	420.6	454.9	514.1	532.8
5926.4	37.5°	6007.5	5188.0	1776.1	398.8	383.3	380.1	389.5	417.5	470.5	517.2
6649.3	40°	6583.9	5512.0	1389.7	377.0	367.7	361.4	364.6	377.0	417.5	476.7
7356.6	42.5°	7126.1	5804.9	1043.8	355.2	352.1	345.9	345.9	349.0	370.8	411.3
8141.9	45°	7711.9	6044.8	794.6	339.6	330.3	333.4	320.9	314.7	330.3	333.4
9017.4	47.5°	8260.3	6284.8	635.6	320.9	311.6	311.6	296.0	283.5	283.5	255.5
9787.0	50°	8774.4	6415.6	507.9	296.0	292.9	289.8	268.0	246.2	227.5	193.2
10513.1	52.5°	9201.3	6409.4	392.6	264.9	274.2	264.9	230.6	199.4	171.4	140.2
10781.0	55°	9329.0	6110.3	296.0	218.1	233.7	221.2	183.8	155.8	124.6	99.7
10821.5	57.5°	9220.0	5655.4	224.3	168.3	180.7	168.3	140.2	115.3	87.2	68.5
10721.8	60°	8855.4	5122.5	174.5	130.9	137.1	127.8	105.9	87.2	62.3	43.6
10079.9	62.5°	8163.7	4455.7	134.0	102.8	99.7	99.7	81.0	65.4	43.6	24.9
8394.2	65°	6699.2	3474.2	102.8	71.7	71.7	71.7	62.3	46.7	28.0	12.5
5490.2	67.5°	4206.5	2022.2	84.1	56.1	53.0	53.0	43.6	31.2	15.6	3.1
2159.3	70°	1582.9	741.6	65.4	43.6	40.5	40.5	31.2	18.7	9.3	0.0
750.9	72°	545.3	283.5	53.0	31.2	31.2	28.0	21.8	15.6	6.2	0.0
567.1	72.5°	448.7	227.5	49.9	31.2	28.0	28.0	21.8	15.6	6.2	0.0
202.5	75°	162.0	93.5	34.3	21.8	18.7	18.7	15.6	9.3	3.1	0.0
102.8	77.5°	81.0	59.2	28.0	18.7	15.6	9.3	9.3	6.2	3.1	0.0
62.3	80°	49.9	37.4	15.6	12.5	9.3	6.2	3.1	3.1	0.0	0.0
43.6	82.5°	34.3	21.8	9.3	9.3	6.2	3.1	0.0	0.0	0.0	0.0
28.0	85°	21.8	9.3	6.2	6.2	3.1	0.0	0.0	0.0	0.0	0.0
15.6	87.5°	9.3	6.2	3.1	0.0	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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