

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: P575249

Luminaire Tested: **EPH-VN-03-735-U-T3R-HSS**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575249
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-03-735-U-T3R-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T3R distribution lens and House Side Shield
Light Source: (48) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

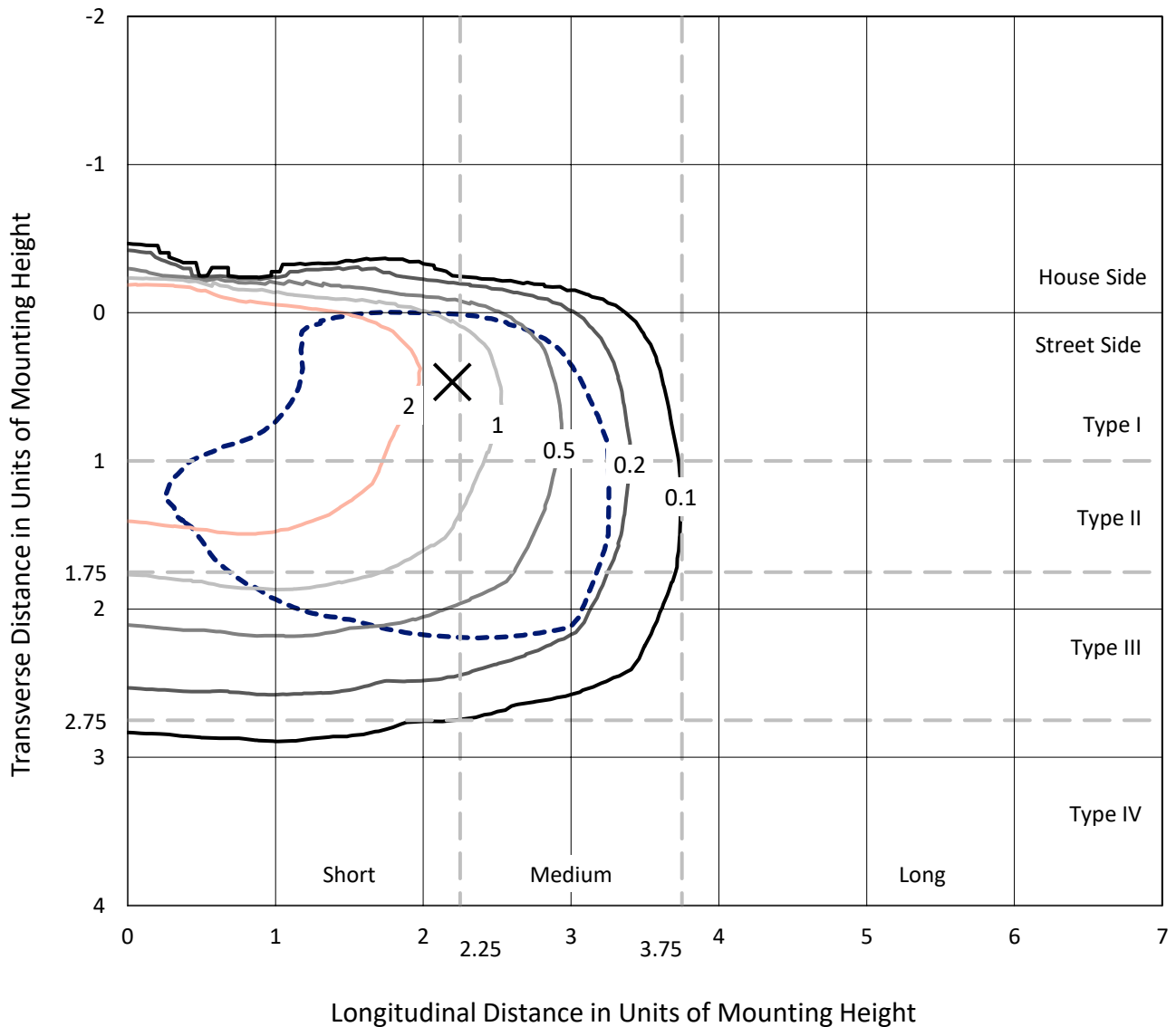
Lumens per Lamp: N/A
Luminaire Lumens: 16478.5 lumens
Efficiency: N/A
Efficacy: 89.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

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

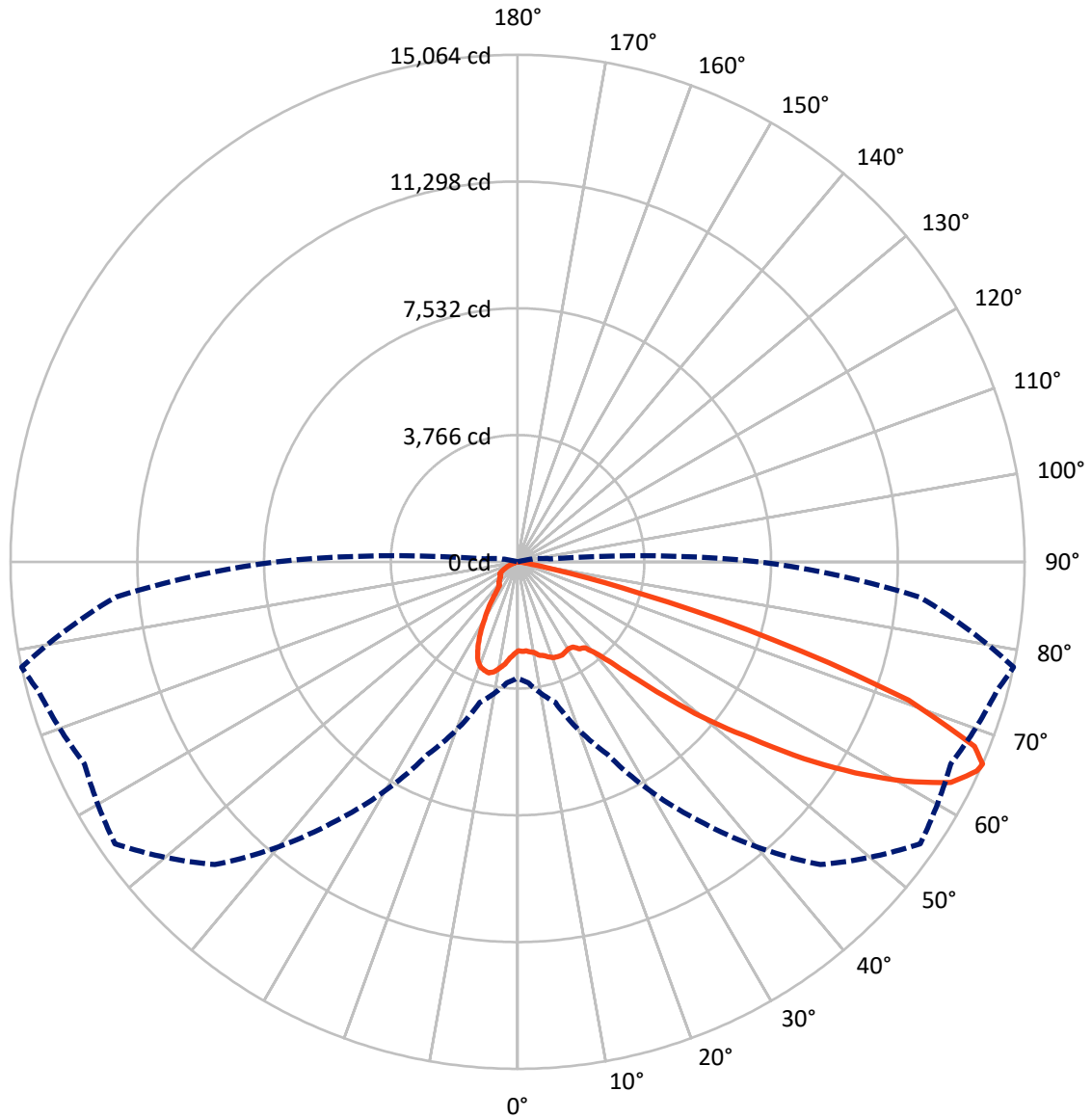
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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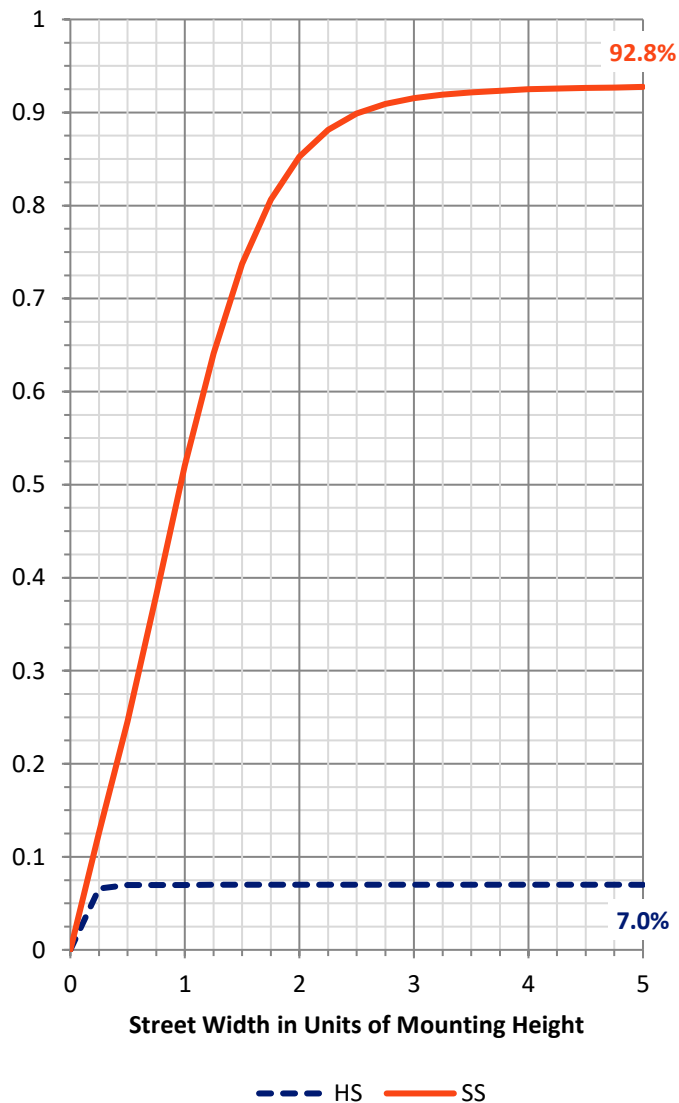
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1158.5	0.0	1158.5
	% Fixture	7.0	0.0	7.0
Street Side	Lumens	15320.0	0.0	15320.0
	% Fixture	93.0	0.0	93.0
Total	Lumens	16478.5	0.0	16478.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.5	1.5
10°-20°	545.1	3.3
20°-30°	779.1	4.7
30°-40°	1333.6	8.1
40°-50°	2406.9	14.6
50°-60°	4116.1	25.0
60°-70°	5066.2	30.7
70°-80°	1915.3	11.6
80°-90°	74.8	0.5
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°	16478.5	100.0
0°-180°	16478.5	100.0

Coefficient of Utilization



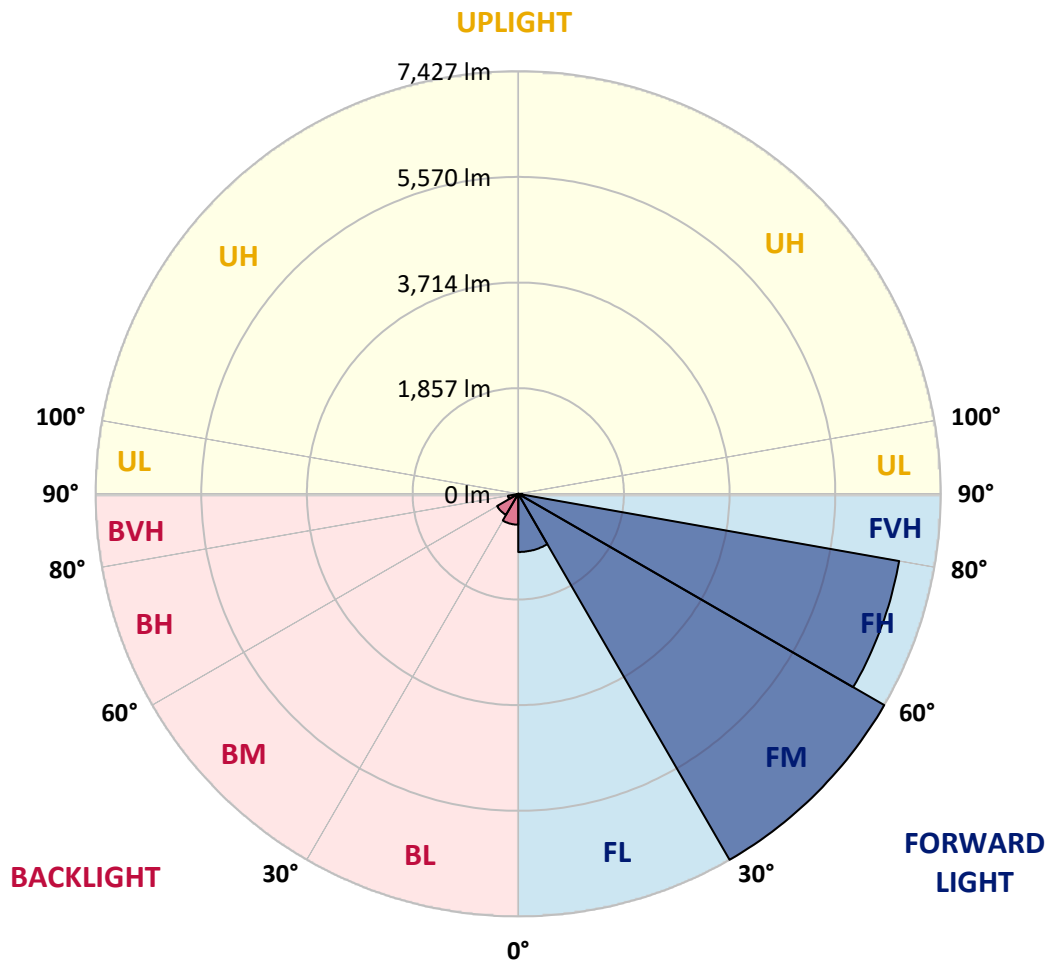
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1023.0	6.2			
FM (30°-60°)	7427.2	45.1			
FH (60°-80°)	6798.0	41.3			G3/7500
FVH (80°-90°)	71.8	0.4			G1/100
BL (0°-30°)	542.6	3.3	B2/1000		
BM (30°-60°)	429.4	2.6	B1/1000		
BH (60°-80°)	183.5	1.1	B1/500		G1/500
BVH (80°-90°)	3.0	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°
0°	2639.3	2639.3	2639.3	2639.3	2639.3	2639.3	2639.3	2639.3	2639.3	2639.3
2.5°	2427.7	2405.3	2427.7	2460.0	2477.5	2492.4	2544.7	2589.5	2636.8	2669.2
5°	2250.9	2293.2	2298.2	2308.2	2335.5	2425.2	2455.1	2532.3	2649.3	2659.2
7.5°	2111.5	2099.0	2131.4	2196.1	2265.8	2318.1	2405.3	2539.7	2661.7	2704.1
10°	1909.8	1934.7	1969.5	2034.3	2118.9	2248.4	2402.8	2552.2	2726.5	2741.4
12.5°	1800.2	1775.3	1830.1	1897.3	2041.7	2161.3	2350.5	2529.8	2766.3	2848.5
15°	1710.6	1723.0	1775.3	1820.1	1939.7	2091.5	2313.1	2584.5	2833.5	2890.8
17.5°	1673.2	1665.8	1705.6	1750.4	1897.3	2069.1	2298.2	2587.0	2893.3	2968.0
20°	1690.7	1705.6	1693.1	1735.5	1827.6	2001.9	2320.6	2634.3	2938.1	3040.2
22.5°	1964.6	1944.6	1845.0	1765.4	1770.3	1974.5	2303.2	2664.2	2977.9	3060.1
25°	2679.2	2572.1	2325.6	2019.3	1817.6	1899.8	2283.3	2654.3	2970.5	3072.6
27.5°	3398.7	3306.6	3065.1	2589.5	2009.4	1869.9	2213.5	2661.7	2933.1	3027.7
30°	4158.2	4208.0	3849.4	3284.2	2512.3	2034.3	2168.7	2621.9	2908.2	2987.9
32.5°	4937.5	4917.6	4701.0	4088.5	3231.9	2397.8	2240.9	2661.7	2940.6	3017.8
35°	5547.6	5477.8	5258.7	4706.0	3827.0	2945.6	2489.9	2851.0	3082.5	3174.7
37.5°	5848.8	5878.7	5751.7	5271.2	4479.4	3453.5	2801.2	2851.0	3127.3	3234.4
40°	6082.9	6172.5	6125.2	5970.8	5126.8	4026.2	3144.8	3027.7	3353.9	3555.6
42.5°	6364.2	6321.9	6600.8	6458.9	5973.3	4748.3	3747.3	3448.5	3889.3	4083.5
45°	6513.6	6675.5	6887.1	7068.9	6757.7	5649.6	4534.2	4193.0	4708.4	4954.9
47.5°	6897.1	6961.8	7305.4	7534.5	7395.1	6680.5	5729.3	5281.1	5739.3	6127.7
50°	7121.2	7034.0	7514.6	7863.2	7942.9	7534.5	6800.0	6451.4	6964.3	7459.8
52.5°	6924.5	7173.5	7654.0	8279.0	8500.6	8296.4	8057.4	7905.5	8266.5	8724.7
55°	6234.8	6404.1	7574.4	8734.7	9449.3	9354.6	9576.2	9476.7	9840.2	10325.7
57.5°	5679.5	5891.2	6919.5	8971.2	10333.2	10612.1	10890.9	10828.7	11266.9	11827.1
60°	5333.4	5455.4	6446.4	8911.4	10856.1	11911.8	12541.7	12103.5	12818.1	13246.4
62.5°	4733.3	4810.5	5756.7	8119.6	11012.9	12830.6	13898.8	13303.7	13923.7	14446.5
65°	3794.6	4003.8	4785.6	6934.4	9977.1	12999.9	14745.3	14045.7	14645.7	14989.3
66°	3453.5	3605.4	4322.5	6307.0	9387.0	12718.5	14603.4	14200.0	14750.3	15064.0
67.5°	2865.9	2997.9	3568.1	5413.1	8179.4	12098.5	14703.0	14095.5	14830.0	14638.3
70°	1897.3	1982.0	2440.1	3660.2	5696.9	9897.5	13637.3	13278.8	13037.2	12317.7
72.5°	886.4	1008.4	1523.8	2218.5	3341.5	6924.5	11120.0	10639.4	9143.0	7992.7
75°	400.9	455.7	836.6	1272.4	1498.9	3588.0	7173.5	6478.8	4551.6	3779.7
77.5°	216.6	246.5	408.3	605.1	545.3	1257.4	3550.6	2953.1	1434.2	1050.7
80°	166.8	196.7	341.1	346.1	201.7	326.2	1319.7	913.8	358.5	271.4
82.5°	87.1	124.5	268.9	224.1	102.1	132.0	408.3	254.0	112.0	89.6
85°	34.9	54.8	151.9	149.4	59.8	44.8	114.5	77.2	44.8	37.3
87.5°	2.5	2.5	82.2	57.3	37.3	12.4	17.4	17.4	22.4	19.9
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°
2639.3	0°	2639.3	2639.3	2639.3	2639.3	2639.3	2639.3	2639.3	2639.3	2639.3	2639.3
2659.2	2.5°	2704.1	2733.9	2738.9	2821.1	2838.5	2821.1	2865.9	2858.4	2878.4	2863.4
2704.1	5°	2766.3	2808.6	2890.8	2953.1	2953.1	2903.3	2863.4	2811.1	2733.9	2714.0
2791.2	7.5°	2873.4	3007.8	3082.5	3042.7	2963.0	2776.3	2517.3	2328.1	2168.7	2109.0
2903.3	10°	3062.6	3137.3	3224.5	3062.6	2731.4	2335.5	1899.8	1613.5	1389.4	1339.6
3035.2	12.5°	3184.6	3304.1	3353.9	2953.1	2303.2	1713.1	1240.0	916.3	759.4	639.9
3174.7	15°	3344.0	3480.9	3378.8	2656.7	1815.2	1123.0	642.4	400.9	326.2	306.3
3269.3	17.5°	3453.5	3602.9	3276.7	2288.2	1287.3	597.6	318.7	276.4	271.4	273.9
3371.4	20°	3645.2	3734.9	3122.4	1860.0	769.4	306.3	256.5	246.5	241.5	249.0
3441.1	22.5°	3717.5	3799.6	2870.9	1347.0	346.1	204.2	191.7	184.3	189.2	186.7
3483.4	25°	3712.5	3754.8	2457.6	771.9	102.1	79.7	72.2	72.2	67.2	69.7
3413.7	27.5°	3749.8	3645.2	1994.4	229.1	0.0	0.0	0.0	0.0	0.0	0.0
3428.6	30°	3769.7	3468.5	1419.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3515.8	32.5°	3779.7	3376.3	913.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3640.3	35°	3856.9	3192.1	390.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3842.0	37.5°	3909.2	2955.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4220.4	40°	4125.8	2880.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4788.1	42.5°	4407.2	2741.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5632.2	45°	4798.1	2534.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6598.3	47.5°	5316.0	2412.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7502.1	50°	5701.9	2221.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8520.5	52.5°	6192.4	2106.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9710.7	55°	6775.1	2111.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10719.1	57.5°	7305.4	2076.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11508.4	60°	7576.8	1775.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12076.1	62.5°	7519.6	1436.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12247.9	65°	7320.4	1127.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11984.0	66°	7183.4	998.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11630.4	67.5°	6767.6	799.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9093.2	70°	5385.7	547.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5736.8	72.5°	3426.1	336.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2512.3	75°	1578.6	154.4	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
729.5	77.5°	495.5	94.6	19.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
174.3	80°	129.5	59.8	19.9	2.5	0.0	0.0	0.0	0.0	0.0	0.0
74.7	82.5°	67.2	42.3	17.4	7.5	5.0	0.0	0.0	0.0	0.0	0.0
34.9	85°	42.3	17.4	7.5	5.0	5.0	0.0	0.0	0.0	0.0	0.0
24.9	87.5°	37.3	10.0	5.0	5.0	2.5	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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