

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: P575147

Luminaire Tested: **EPH-VN-03-760-U-T2-HSS**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575147
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-T2-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T2 distribution lens and House Side Shield
Light Source: (48) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

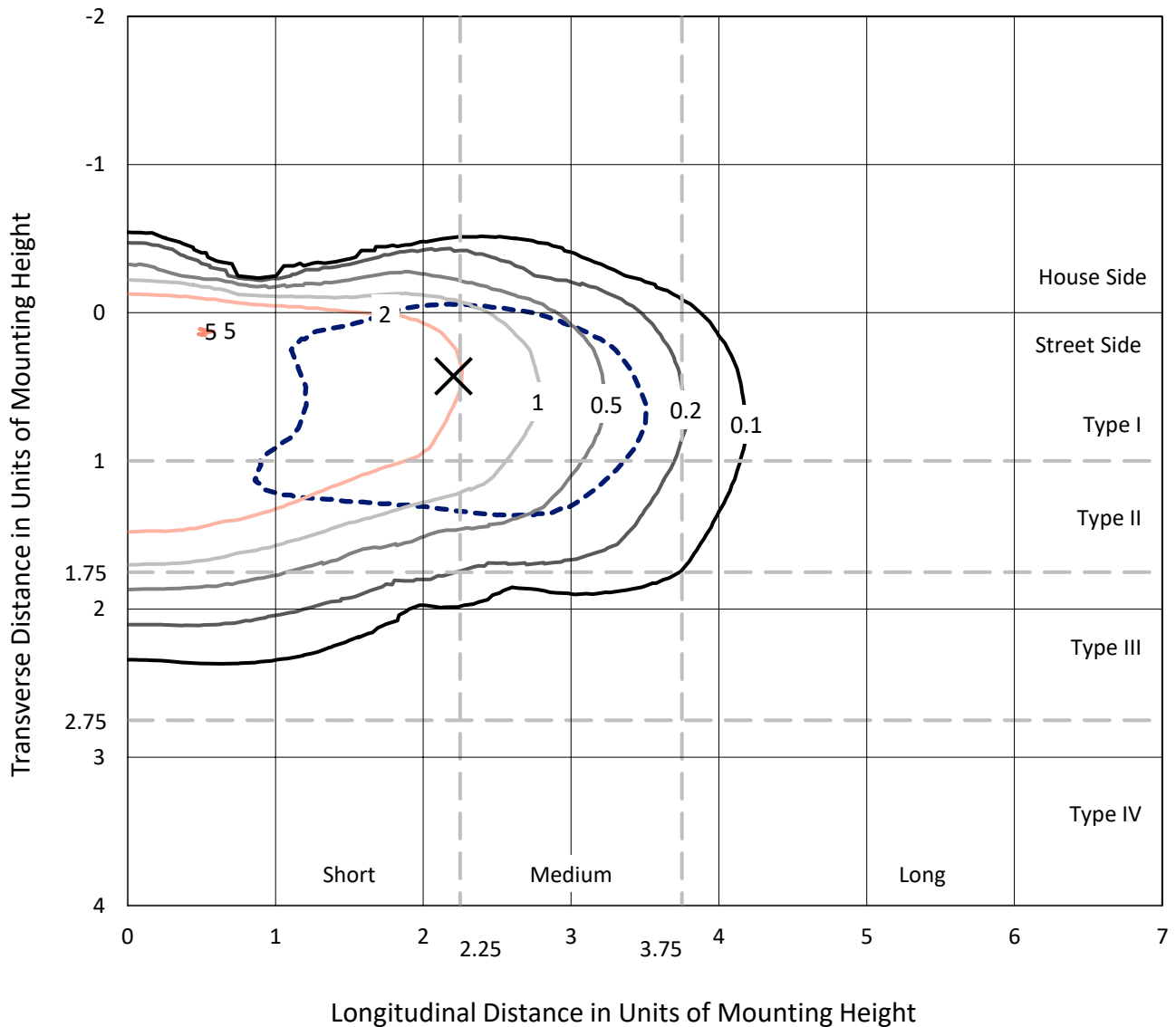
Lumens per Lamp: N/A
Luminaire Lumens: 17169.1 lumens
Efficiency: N/A
Efficacy: 93.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

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

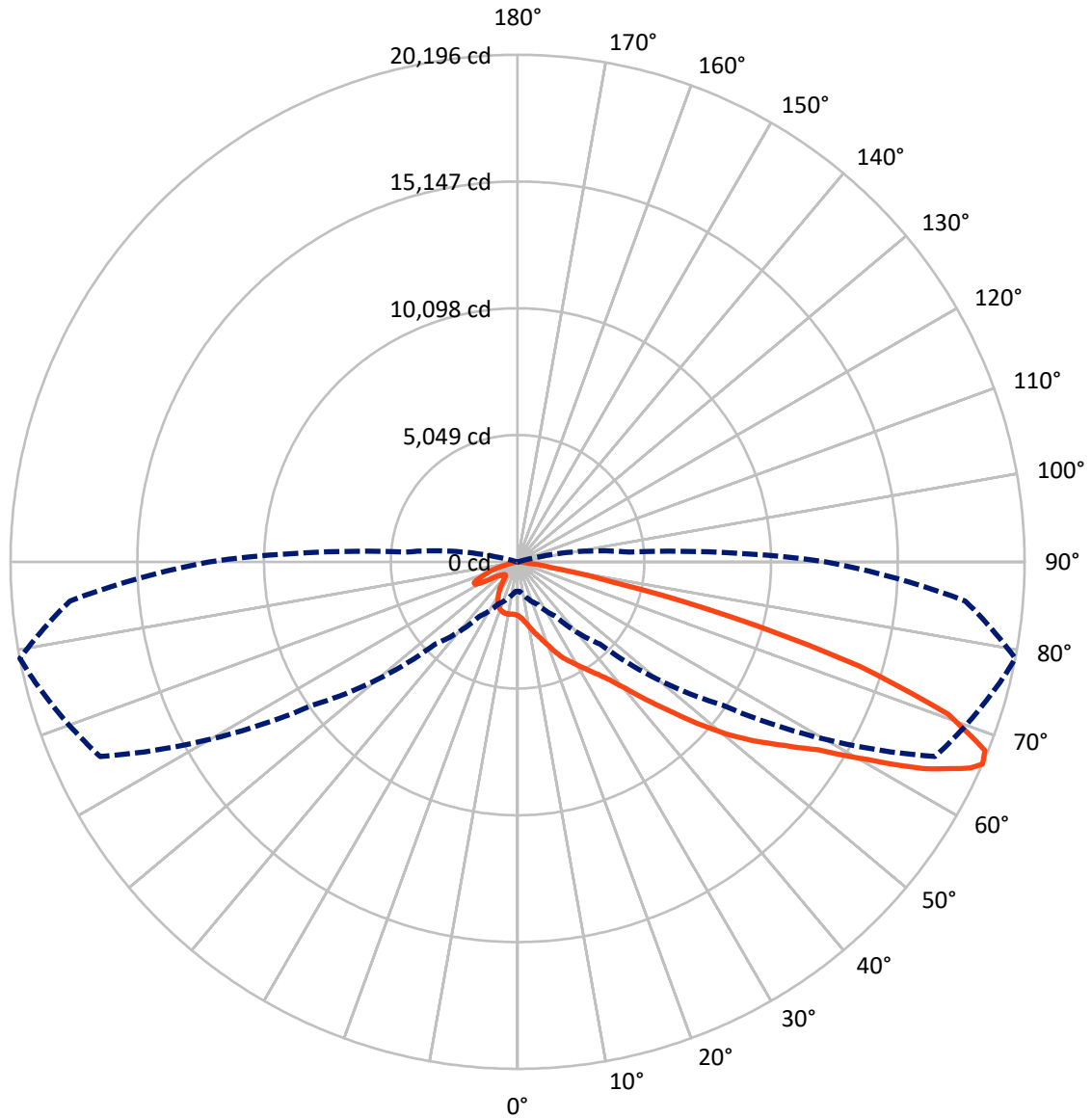
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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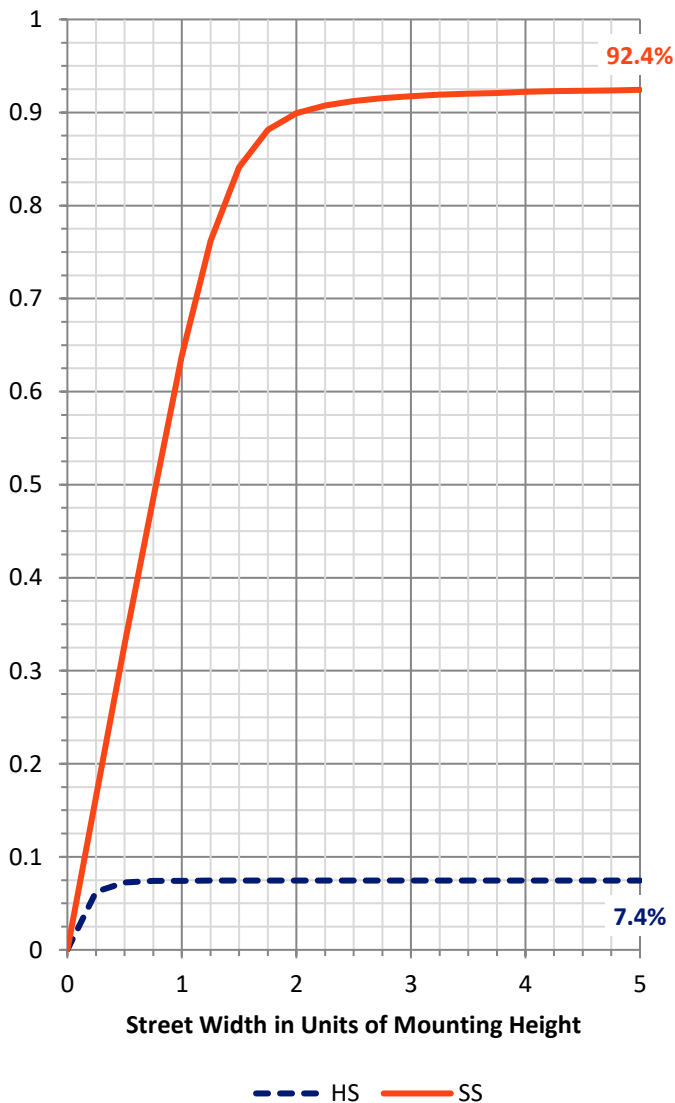
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1289.1	0.0	1289.1
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	15880.0	0.0	15880.0
	% Fixture	92.5	0.0	92.5
Total	Lumens	17169.1	0.0	17169.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.0	1.2
10°-20°	556.0	3.2
20°-30°	923.6	5.4
30°-40°	1586.4	9.2
40°-50°	2873.9	16.7
50°-60°	4542.8	26.5
60°-70°	4622.7	26.9
70°-80°	1762.9	10.3
80°-90°	98.8	0.6
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°	17169.1	100.0
0°-180°	17169.1	100.0



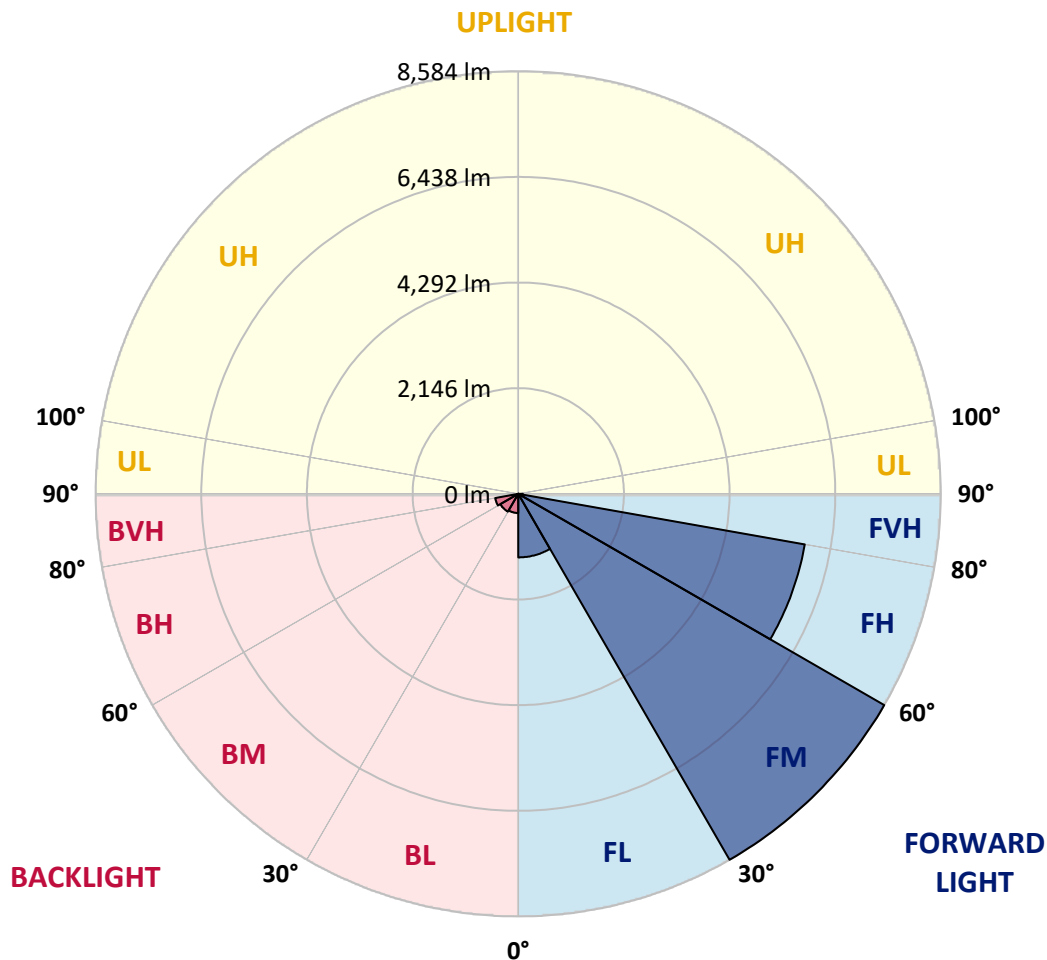
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1291.7	7.5			
FM (30°-60°)	8584.2	50.0			
FH (60°-80°)	5910.3	34.4			G3/7500
FVH (80°-90°)	93.8	0.5			G1/100
BL (0°-30°)	389.9	2.3	B1/500		
BM (30°-60°)	419.0	2.4	B1/1000		
BH (60°-80°)	475.2	2.8	B1/500		G1/500
BVH (80°-90°)	5.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	2136.0	2136.0	2136.0	2136.0	2136.0	2136.0	2136.0	2136.0	2136.0	2136.0
2.5°	2419.3	2416.6	2406.0	2387.5	2363.7	2355.7	2321.3	2273.7	2247.2	2218.1
5°	2586.0	2572.8	2604.5	2591.3	2596.6	2533.1	2490.7	2456.3	2355.7	2316.0
7.5°	2623.1	2636.3	2633.7	2654.8	2676.0	2699.8	2670.7	2620.4	2519.8	2461.6
10°	2623.1	2617.8	2639.0	2668.1	2728.9	2781.9	2861.3	2795.1	2718.4	2649.5
12.5°	2575.4	2567.5	2588.7	2649.5	2758.1	2866.6	2953.9	3017.5	2908.9	2853.4
15°	2429.8	2421.9	2509.3	2617.8	2760.7	2938.1	3120.7	3223.9	3149.8	3062.5
17.5°	2249.9	2260.4	2353.1	2533.1	2760.7	2972.5	3205.4	3430.4	3419.8	3308.6
20°	2189.0	2196.9	2289.6	2419.3	2678.7	2996.3	3337.7	3655.4	3718.9	3586.5
22.5°	2305.4	2297.5	2305.4	2384.9	2623.1	2975.1	3425.1	3912.1	4025.9	3922.7
25°	2702.5	2697.2	2631.0	2509.3	2591.3	2927.5	3470.1	4081.5	4343.6	4248.3
27.5°	3284.8	3263.6	3160.4	2906.3	2739.5	2956.6	3544.2	4245.6	4621.5	4513.0
30°	3909.5	3859.2	3724.2	3406.6	3123.3	3065.1	3586.5	4367.4	4931.2	4793.5
32.5°	4340.9	4407.1	4364.7	4041.8	3607.7	3316.6	3655.4	4520.9	5217.0	5127.0
35°	5007.9	5084.7	4907.3	4621.5	4184.7	3716.2	3800.9	4645.3	5656.4	5505.5
37.5°	5849.6	5907.9	5780.8	5238.2	4777.6	4208.6	4100.0	4904.7	6034.9	5963.5
40°	6273.1	6553.7	6373.7	5884.0	5389.1	4896.8	4595.0	5209.1	6694.0	6635.8
42.5°	6858.1	6998.4	6905.7	6543.1	6027.0	5632.6	5206.4	5802.0	7493.4	7493.4
45°	7477.5	7482.8	7477.5	7181.0	6723.1	6519.3	6032.3	6545.8	8353.6	8448.9
47.5°	7985.7	8144.5	8131.3	7953.9	7599.2	7522.5	6858.1	7392.8	9433.5	9600.3
50°	8247.7	8425.1	8478.0	8570.6	8554.8	8716.2	7760.7	8374.8	10365.2	10775.5
52.5°	8176.3	8189.5	8515.1	8880.3	9462.6	9915.3	8848.6	9489.1	11455.8	11860.7
55°	7591.3	7541.0	8210.7	8628.9	9833.2	10648.5	10354.7	10878.7	12305.4	12922.1
57.5°	6307.5	6320.8	6940.2	7789.8	9557.9	10939.6	11964.0	12694.5	13496.5	14118.5
60°	4354.1	4338.3	5031.7	6013.7	7940.7	10397.0	12890.4	15047.6	15089.9	15971.4
62.5°	2448.4	2453.7	2980.4	3819.5	5555.8	8496.5	12845.4	17546.3	17366.3	18139.2
65°	1387.0	1421.4	1784.0	2263.1	3327.1	5704.1	11048.1	18541.5	19121.2	19809.4
66°	1172.6	1196.4	1506.1	1868.7	2654.8	4626.8	9944.4	18348.3	19671.7	20195.8
67.5°	907.9	939.6	1199.0	1482.3	1948.1	3202.7	8004.2	17387.5	19772.3	20079.3
70°	622.0	643.2	841.7	1124.9	1331.4	1638.4	4785.6	14375.3	17940.7	18200.0
72.5°	436.7	447.3	590.3	852.3	1024.3	937.0	2374.3	10227.6	13729.4	14235.0
75°	315.0	325.6	405.0	611.4	799.4	614.1	1087.9	6532.5	8419.8	8816.8
77.5°	227.6	240.9	275.3	394.4	579.7	431.4	534.7	3411.8	3970.3	3901.5
80°	137.6	150.9	203.8	254.1	423.5	304.4	293.8	1424.0	1408.1	1336.7
82.5°	63.5	74.1	108.5	172.0	296.5	211.8	140.3	508.2	444.7	407.6
85°	18.5	23.8	63.5	129.7	150.9	103.2	84.7	174.7	182.6	156.2
87.5°	0.0	2.6	29.1	31.8	45.0	34.4	31.8	45.0	84.7	68.8
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°
2136.0	0°	2136.0	2136.0	2136.0	2136.0	2136.0	2136.0	2136.0	2136.0	2136.0	2136.0
2204.9	2.5°	2157.2	2138.7	2093.7	2024.9	1964.0	1932.2	1887.2	1847.5	1826.4	1823.7
2252.5	5°	2210.2	2159.9	2051.3	1926.9	1834.3	1733.7	1664.9	1614.6	1567.0	1522.0
2392.8	7.5°	2281.6	2202.2	2024.9	1863.4	1662.2	1532.6	1410.8	1339.3	1297.0	1257.3
2525.1	10°	2392.8	2292.2	2006.3	1715.2	1484.9	1294.3	1169.9	1066.7	1008.5	939.6
2691.9	12.5°	2543.7	2363.7	1937.5	1580.2	1283.7	1082.6	905.2	738.5	645.8	574.4
2882.5	15°	2694.5	2459.0	1874.0	1416.1	1101.1	836.4	577.0	463.2	436.7	420.9
3120.7	17.5°	2842.8	2535.7	1776.1	1249.3	892.0	532.0	420.9	397.0	383.8	367.9
3340.4	20°	3022.8	2586.0	1654.3	1095.8	614.1	394.4	360.0	344.1	322.9	301.7
3628.9	22.5°	3197.4	2628.4	1514.0	899.9	412.9	341.4	301.7	280.6	262.0	240.9
3861.8	25°	3372.1	2641.6	1331.4	645.8	333.5	272.6	235.6	206.5	187.9	169.4
4070.9	27.5°	3491.3	2559.5	1159.3	412.9	267.3	206.5	164.1	140.3	124.4	105.9
4253.6	30°	3560.1	2408.7	974.1	291.2	201.2	140.3	97.9	74.1	58.2	45.0
4565.9	32.5°	3628.9	2286.9	765.0	222.3	132.3	74.1	37.1	13.2	0.0	0.0
4857.1	35°	3766.5	2149.3	513.5	124.4	45.0	2.6	0.0	0.0	0.0	0.0
5230.3	37.5°	3853.9	1958.7	235.6	18.5	0.0	0.0	0.0	0.0	0.0	0.0
5746.4	40°	4073.6	1863.4	58.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6445.2	42.5°	4430.9	1797.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7281.6	45°	4822.6	1770.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8096.9	47.5°	5344.1	1842.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9145.0	50°	5894.6	2035.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9955.0	52.5°	6498.1	2218.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10791.4	55°	7024.9	2437.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11966.6	57.5°	7993.6	2956.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14076.2	60°	9732.6	3975.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16474.3	62.5°	11691.3	4732.6	29.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17930.1	65°	12408.6	4714.1	50.3	2.6	0.0	0.0	0.0	0.0	0.0	0.0
17900.9	66°	12281.6	4454.7	50.3	2.6	0.0	0.0	0.0	0.0	0.0	0.0
17395.4	67.5°	11622.5	3957.1	45.0	5.3	0.0	0.0	0.0	0.0	0.0	0.0
15119.1	70°	9981.4	3268.9	45.0	7.9	0.0	0.0	0.0	0.0	0.0	0.0
11760.2	72.5°	7609.8	2546.3	42.4	10.6	2.6	0.0	0.0	0.0	0.0	0.0
7083.1	75°	4592.4	1355.2	34.4	13.2	5.3	0.0	0.0	0.0	0.0	0.0
3046.6	77.5°	1829.0	476.4	26.5	10.6	5.3	0.0	0.0	0.0	0.0	0.0
958.2	80°	495.0	142.9	15.9	10.6	7.9	2.6	0.0	0.0	0.0	0.0
270.0	82.5°	129.7	52.9	13.2	10.6	5.3	2.6	0.0	0.0	0.0	0.0
90.0	85°	50.3	21.2	10.6	7.9	7.9	5.3	2.6	0.0	0.0	0.0
29.1	87.5°	15.9	7.9	7.9	5.3	5.3	2.6	2.6	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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