

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: P575175

Luminaire Tested: **EPH-VN-03-740-U-T2R-HSS**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575175
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-03-740-U-T2R-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T2R distribution lens and House Side Shield
Light Source: (48) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

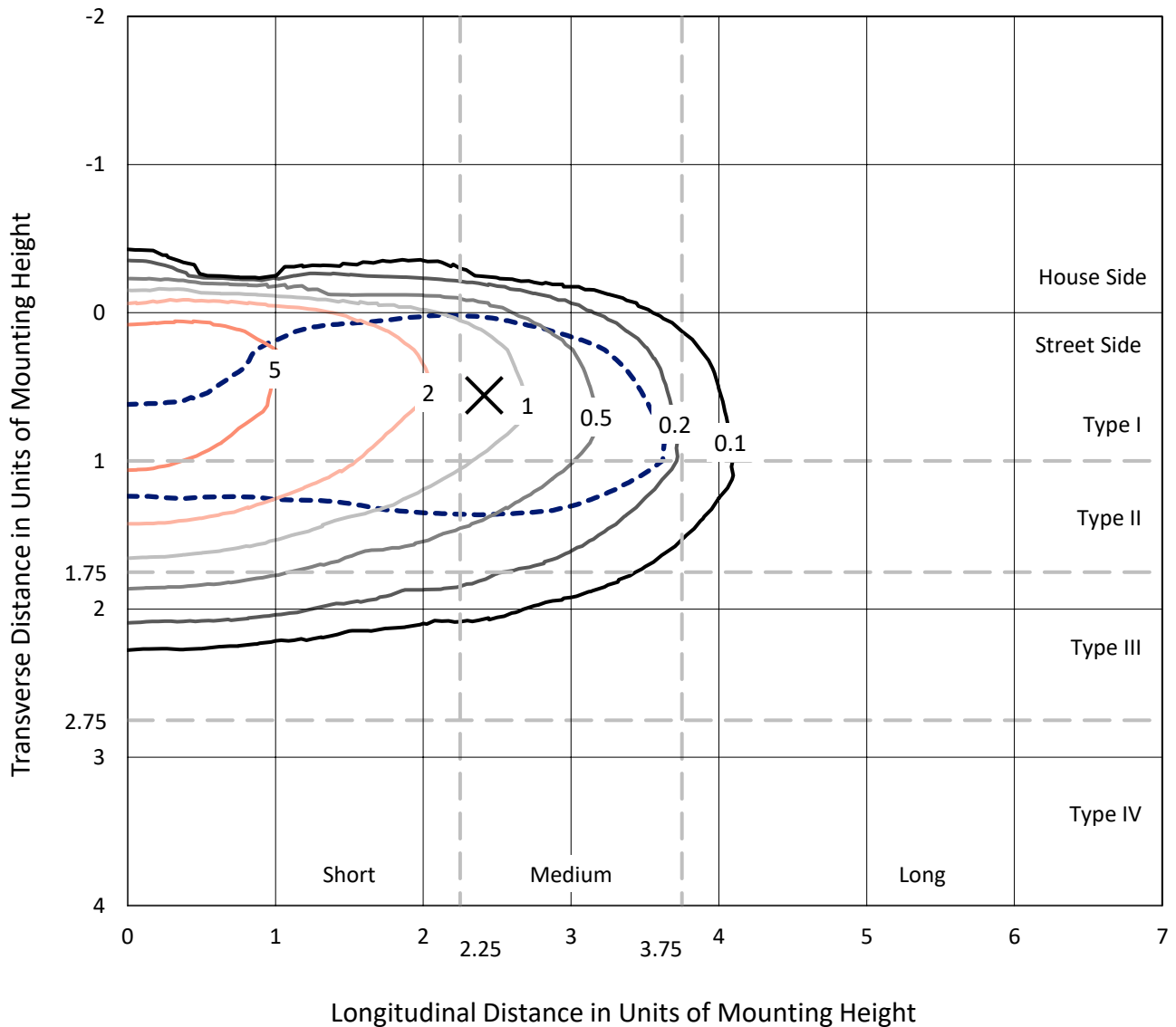
Lumens per Lamp: N/A
Luminaire Lumens: 18324.7 lumens
Efficiency: N/A
Efficacy: 99.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

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

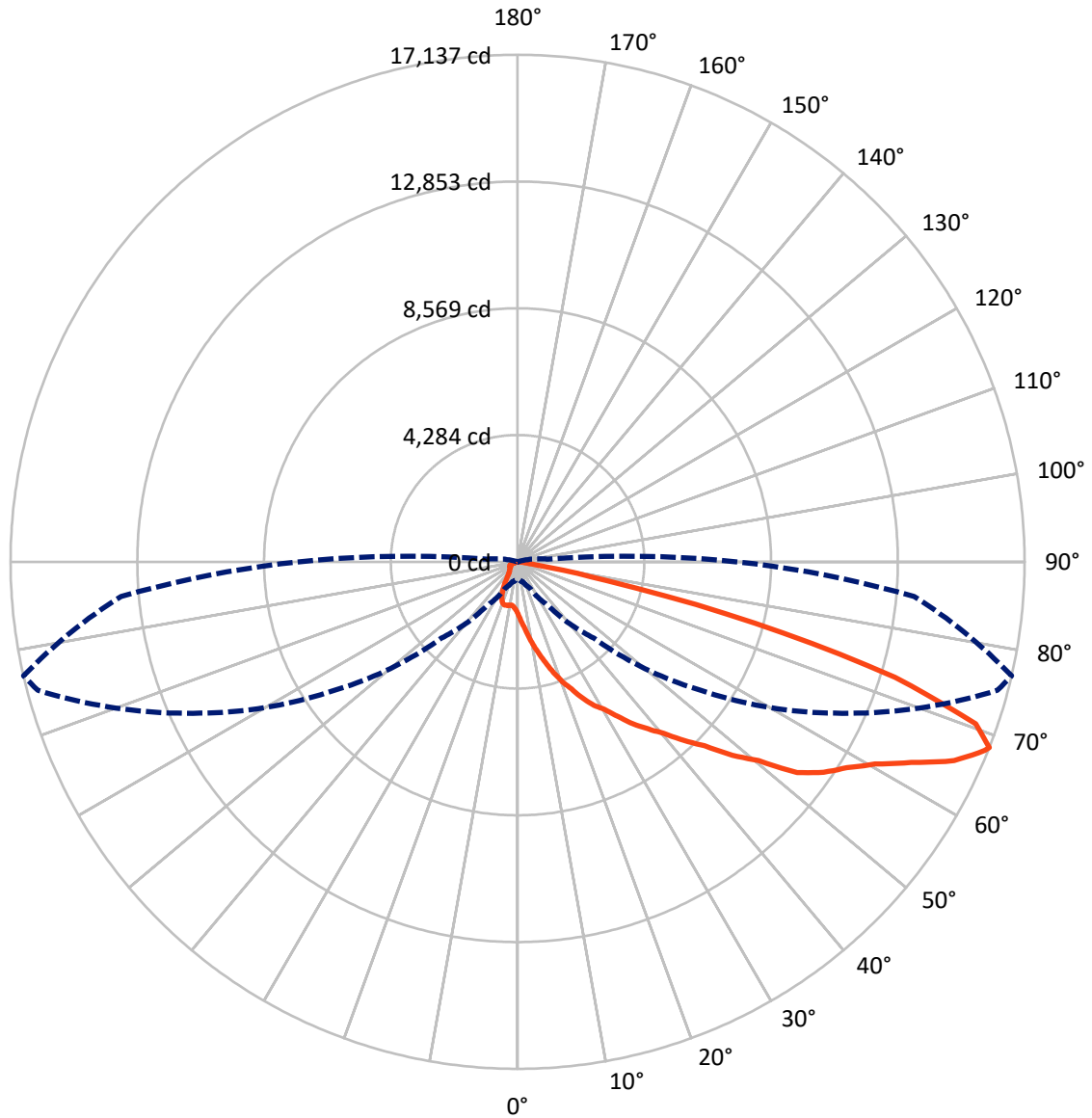
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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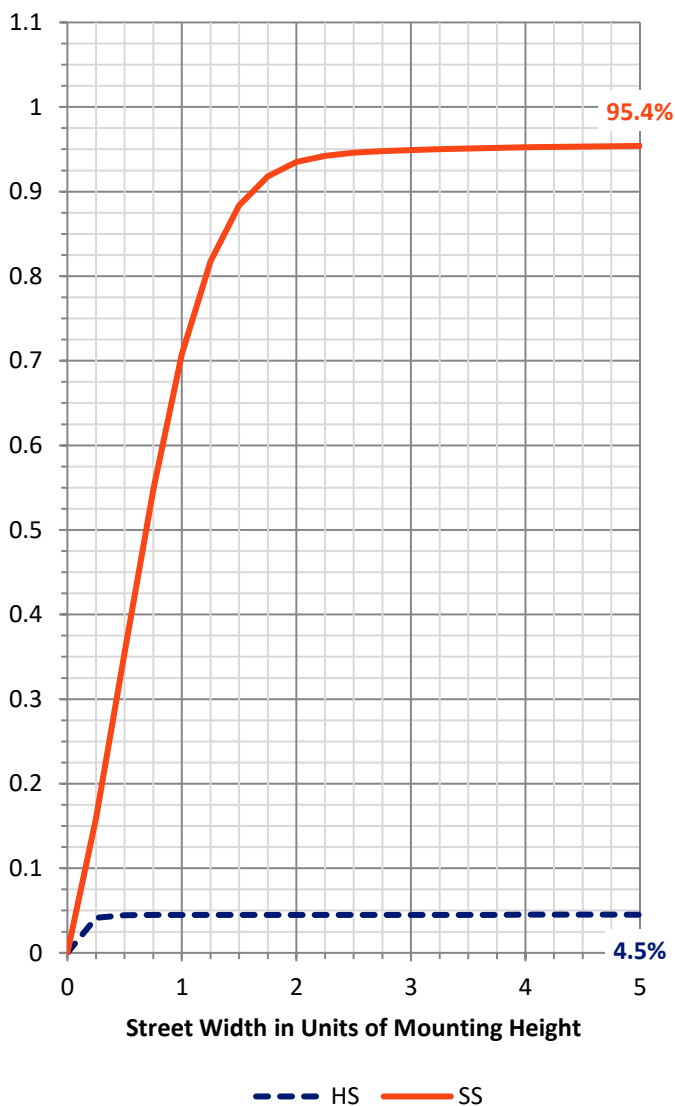
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	831.0	0.0	831.0
	% Fixture	4.5	0.0	4.5
Street Side	Lumens	17493.7	0.0	17493.7
	% Fixture	95.5	0.0	95.5
Total	Lumens	18324.7	0.0	18324.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.0	1.1
10°-20°	756.0	4.1
20°-30°	1465.2	8.0
30°-40°	2554.3	13.9
40°-50°	3741.0	20.4
50°-60°	4395.0	24.0
60°-70°	3711.2	20.3
70°-80°	1438.6	7.9
80°-90°	58.5	0.3
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°	18324.7	100.0
0°-180°	18324.7	100.0

Coefficient of Utilization

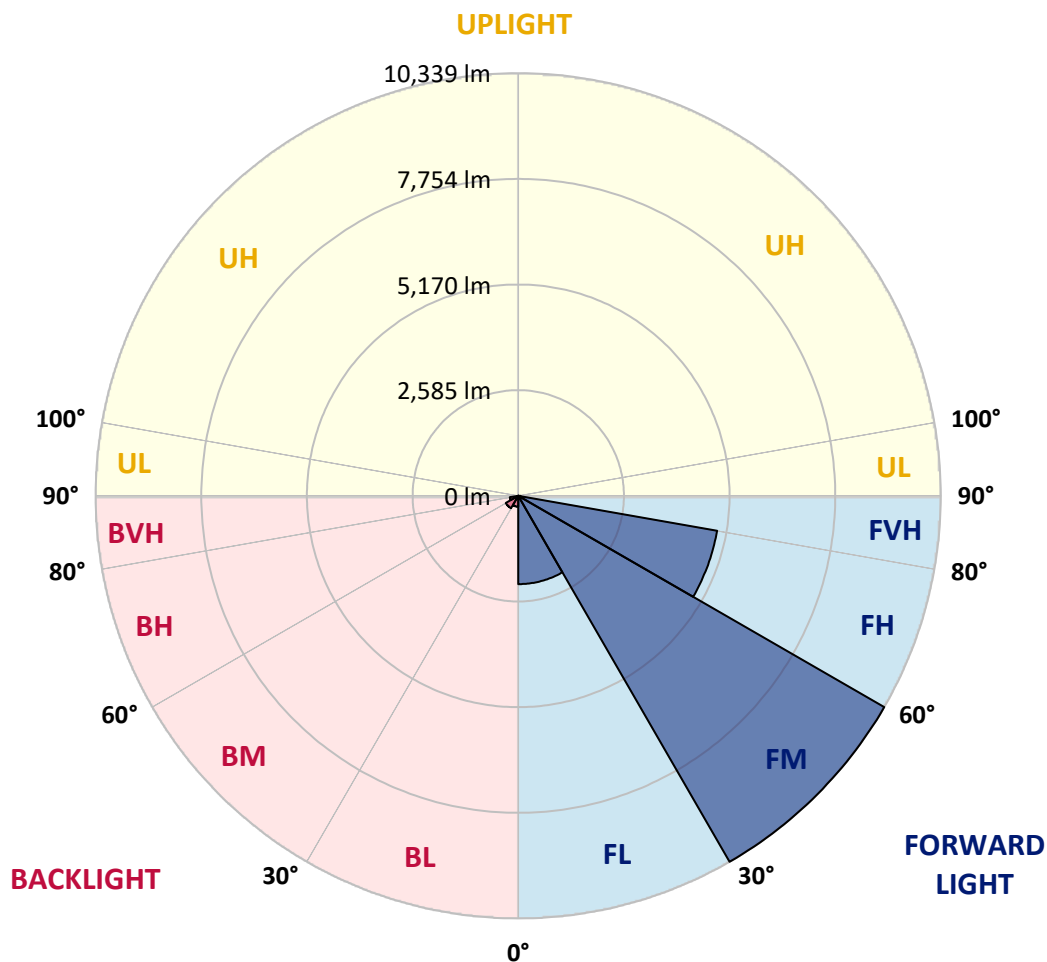


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2160.6	11.8			
FM (30°-60°)	10339.1	56.4			
FH (60°-80°)	4940.0	27.0			G2/5000
FVH (80°-90°)	54.0	0.3			G1/100
BL (0°-30°)	265.5	1.4	B1/500		
BM (30°-60°)	351.1	1.9	B1/1000		
BH (60°-80°)	209.8	1.1	B1/500		G1/500
BVH (80°-90°)	4.5	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-G2
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	1754.6	1754.6	1754.6	1754.6	1754.6	1754.6	1754.6	1754.6	1754.6	1754.6
2.5°	2666.0	2615.5	2562.5	2547.3	2448.9	2337.8	2234.3	2133.3	1964.2	1966.7
5°	3436.0	3372.9	3330.0	3319.9	3165.9	2974.0	2817.5	2532.2	2252.0	2188.8
7.5°	4069.7	4049.5	3986.4	3933.4	3819.8	3585.0	3400.7	2991.7	2565.0	2494.3
10°	4453.4	4483.7	4511.5	4443.3	4355.0	4185.8	3933.4	3491.6	2921.0	2832.6
12.5°	4862.4	4811.9	4829.6	4885.1	4769.0	4731.1	4418.1	4006.6	3337.6	3168.4
15°	4968.5	4988.7	5031.6	5193.2	5271.4	5162.9	4892.7	4423.1	3769.3	3534.5
17.5°	5039.2	5029.1	5082.1	5324.4	5443.1	5546.6	5377.5	4887.7	4145.4	3935.9
20°	5127.5	5072.0	5188.1	5342.1	5617.3	5834.4	5826.8	5354.7	4539.3	4317.1
22.5°	5455.7	5412.8	5506.2	5521.4	5713.2	6016.2	6089.4	5735.9	4943.2	4670.6
25°	6061.6	6139.9	6028.8	5932.9	5990.9	6190.4	6243.4	6074.2	5349.7	5099.7
27.5°	6947.8	6937.7	6718.0	6594.3	6455.5	6430.2	6468.1	6389.8	5670.3	5491.1
30°	7899.6	7816.2	7614.3	7316.4	7010.9	6821.5	6768.5	6687.7	6046.5	5786.4
32.5°	8656.9	8702.4	8477.7	8088.9	7581.4	7326.5	7071.5	6983.1	6460.5	6230.8
35°	9353.7	9293.1	9113.9	8785.7	8331.3	7919.7	7520.9	7331.5	6957.9	6730.7
37.5°	9868.8	9944.5	9603.7	9290.6	8838.7	8497.9	8106.6	7692.5	7470.4	7167.4
40°	10356.0	10237.4	10007.6	9719.8	9300.7	9040.7	8783.2	8136.9	8015.7	7624.4
42.5°	10270.2	10277.7	10151.5	9919.3	9616.3	9467.3	9379.0	8677.1	8510.5	8260.6
45°	9919.3	9949.5	9992.5	9878.9	9904.1	9755.2	9992.5	9298.2	9134.1	8869.0
47.5°	9533.0	9583.5	9573.4	9780.4	10015.2	10065.7	10659.0	9987.4	9916.7	9770.3
50°	8891.7	8911.9	9106.3	9482.5	9803.1	10330.8	11158.8	10739.8	10848.3	10560.5
52.5°	7796.0	7869.3	8369.1	8906.9	9553.2	10464.6	11497.1	11858.2	12133.3	11838.0
55°	6410.0	6511.0	7003.3	8010.6	8957.4	10262.6	11805.1	12448.9	13006.9	12560.0
57.5°	5157.8	5167.9	5609.7	6649.9	8111.6	9866.2	11961.7	12736.7	13486.5	13128.0
60°	3930.8	3890.4	4286.8	5188.1	6687.7	8891.7	11570.4	12883.2	14084.9	13877.9
62.5°	2529.7	2466.6	2898.3	3776.8	5223.4	7268.4	10787.7	12885.7	15019.0	14940.7
65°	1252.2	1209.3	1580.4	2315.1	3615.3	5559.2	9671.8	12837.7	16160.1	16210.6
67.5°	661.5	676.6	795.3	1174.0	2085.3	3928.3	7990.4	12274.7	16743.3	17026.1
68°	608.4	613.5	706.9	977.0	1810.2	3643.0	7591.5	12110.6	16788.8	17137.2
70°	494.8	502.4	535.2	613.5	979.6	2370.6	5857.1	10717.0	16104.6	16422.7
72.5°	393.8	416.6	436.8	469.6	575.6	1244.6	3643.0	8351.5	13304.8	13340.1
75°	300.4	318.1	358.5	386.3	449.4	684.2	1734.4	5092.2	8730.2	8301.0
77.5°	232.3	247.4	265.1	303.0	376.2	462.0	530.2	2161.1	3708.7	3052.3
80°	138.9	149.0	207.0	237.3	328.2	313.1	209.5	600.9	752.3	593.3
82.5°	80.8	88.4	118.7	181.8	229.7	169.1	123.7	186.8	184.3	161.6
85°	2.5	5.0	65.6	108.6	80.8	45.4	75.7	78.3	65.6	60.6
87.5°	0.0	2.5	17.7	15.1	17.7	10.1	15.1	20.2	25.2	22.7
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°
1754.6	0°	1754.6	1754.6	1754.6	1754.6	1754.6	1754.6	1754.6	1754.6	1754.6	1754.6
1850.6	2.5°	1772.3	1716.7	1593.0	1499.6	1398.6	1338.1	1277.5	1239.6	1219.4	1206.8
1976.8	5°	1817.7	1701.6	1502.2	1325.4	1209.3	1131.0	1052.8	1012.4	974.5	954.3
2130.8	7.5°	1918.7	1744.5	1413.8	1221.9	1085.6	964.4	865.9	787.7	742.2	701.8
2330.2	10°	2042.4	1769.8	1416.3	1161.3	964.4	772.5	633.7	535.2	479.7	444.3
2582.7	12.5°	2168.7	1868.2	1426.4	1100.7	815.5	580.7	416.6	343.3	310.5	292.9
2817.5	15°	2360.5	1956.6	1401.2	989.7	618.5	378.7	285.3	260.0	247.4	232.3
3110.3	17.5°	2527.1	2098.0	1388.5	823.0	424.1	272.7	237.3	209.5	196.9	181.8
3400.7	20°	2751.8	2186.3	1320.4	636.2	292.9	227.2	191.9	166.6	146.4	133.8
3713.7	22.5°	2956.3	2254.5	1199.2	434.2	224.7	179.2	141.4	116.1	98.5	83.3
4026.8	25°	3178.5	2322.7	1022.5	267.6	159.1	111.1	75.7	55.5	37.9	27.8
4284.3	27.5°	3337.6	2342.9	792.7	159.1	95.9	50.5	17.7	2.5	0.0	0.0
4539.3	30°	3499.1	2350.4	547.8	85.8	37.9	0.0	0.0	0.0	0.0	0.0
4832.1	32.5°	3683.4	2347.9	343.3	45.4	2.5	0.0	0.0	0.0	0.0	0.0
5155.3	35°	3824.8	2305.0	164.1	5.0	0.0	0.0	0.0	0.0	0.0	0.0
5549.1	37.5°	4039.4	2241.9	50.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5993.5	40°	4284.3	2128.3	10.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6427.7	42.5°	4503.9	2012.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6927.6	45°	4753.9	1868.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7619.3	47.5°	5193.2	1807.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8442.3	50°	5766.2	1759.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9232.6	52.5°	6119.7	1618.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9712.2	55°	6304.0	1471.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10297.9	57.5°	6576.6	1401.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11002.3	60°	6980.6	1406.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12181.3	62.5°	7611.7	1476.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13330.0	65°	7960.1	1406.2	10.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13607.7	67.5°	7664.8	1126.0	48.0	12.6	2.5	0.0	0.0	0.0	0.0	0.0
13453.7	68°	7409.8	1035.1	48.0	12.6	2.5	0.0	0.0	0.0	0.0	0.0
12178.8	70°	6124.7	674.1	45.4	12.6	5.0	0.0	0.0	0.0	0.0	0.0
9480.0	72.5°	4461.0	373.6	37.9	10.1	5.0	0.0	0.0	0.0	0.0	0.0
5584.5	75°	2595.3	186.8	27.8	10.1	5.0	0.0	0.0	0.0	0.0	0.0
1577.9	77.5°	676.6	93.4	22.7	12.6	7.6	2.5	0.0	0.0	0.0	0.0
287.8	80°	133.8	60.6	20.2	15.1	10.1	5.0	0.0	0.0	0.0	0.0
95.9	82.5°	63.1	42.9	20.2	15.1	12.6	7.6	2.5	0.0	0.0	0.0
42.9	85°	32.8	20.2	20.2	15.1	15.1	10.1	5.0	0.0	0.0	0.0
17.7	87.5°	15.1	7.6	7.6	7.6	7.6	5.0	2.5	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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