

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: P575260

Luminaire Tested: **EPH-VN-08-740-U-T3R-HSS**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575260
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-08-740-U-T3R-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T3R distribution lens and House Side Shield
Light Source: (128) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

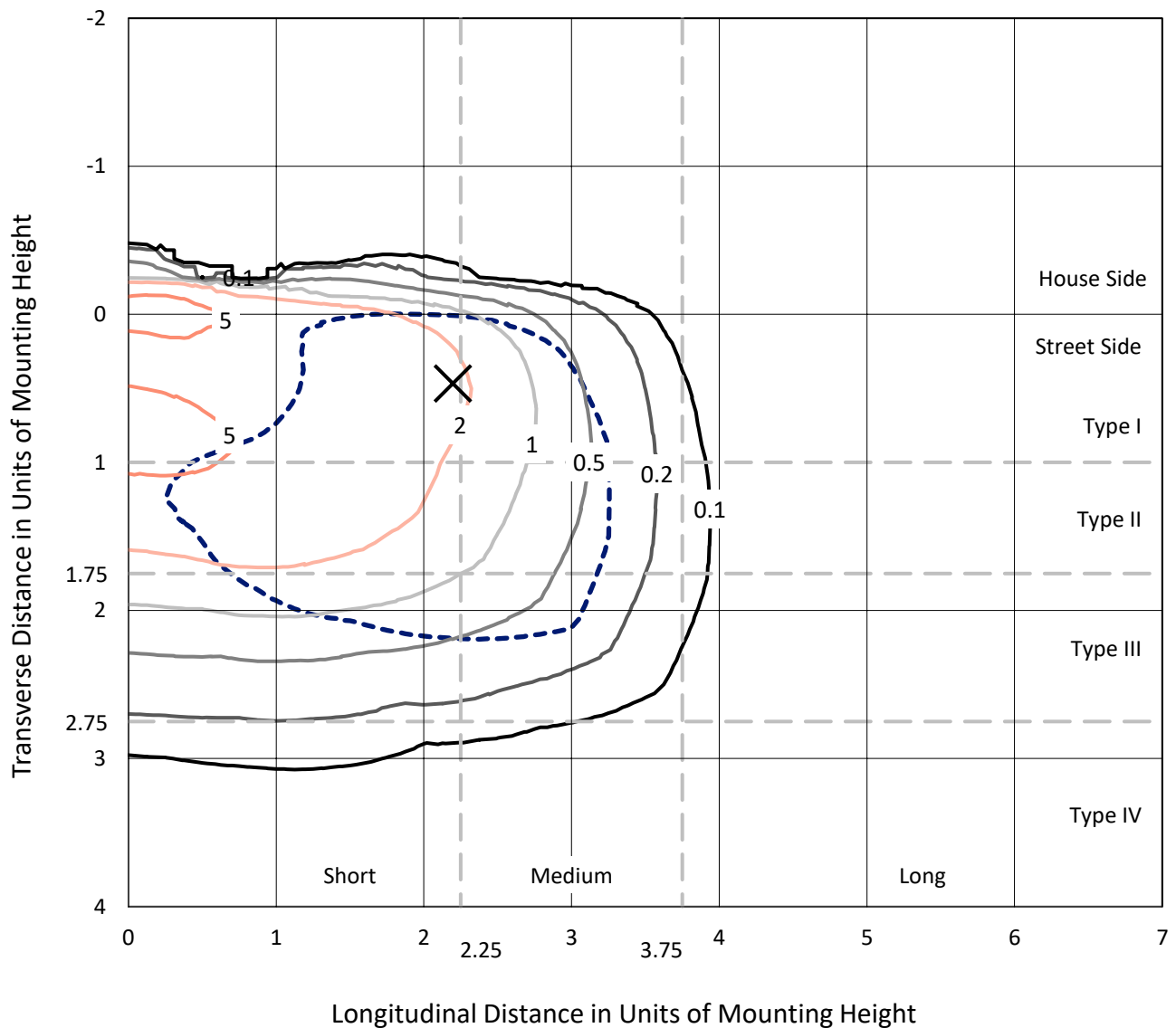
Lumens per Lamp: N/A
Luminaire Lumens: 34530.3 lumens
Efficiency: N/A
Efficacy: 70.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 488.3
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

REPORT NUMBER: P575260
 CATALOG NUMBER: EPH-VN-08-740-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination

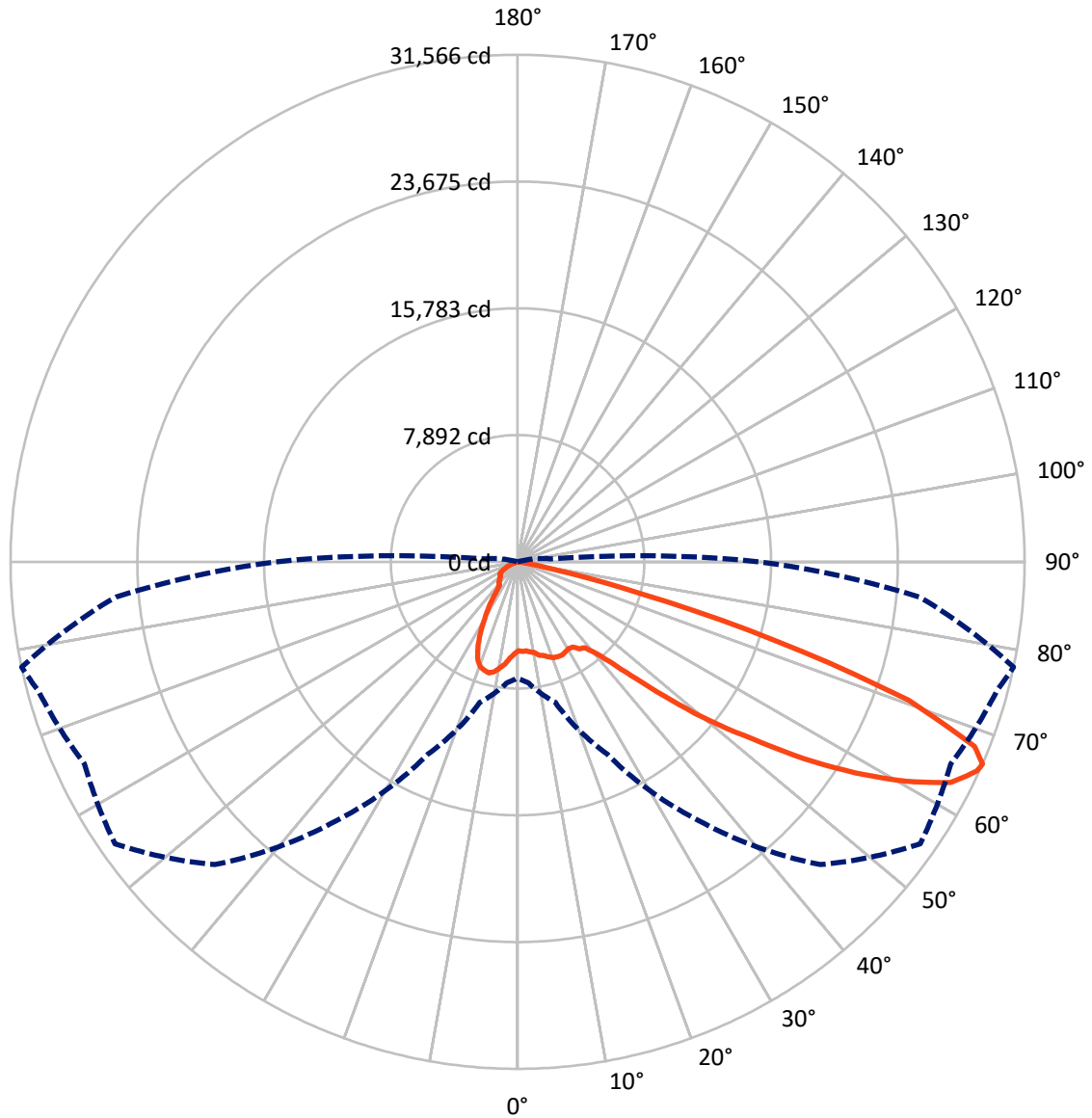
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7 fc
 Type III - Short - N/A

REPORT NUMBER: P575260
CATALOG NUMBER: EPH-VN-08-740-U-T3R-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P575260
 CATALOG NUMBER: EPH-VN-08-740-U-T3R-HSS

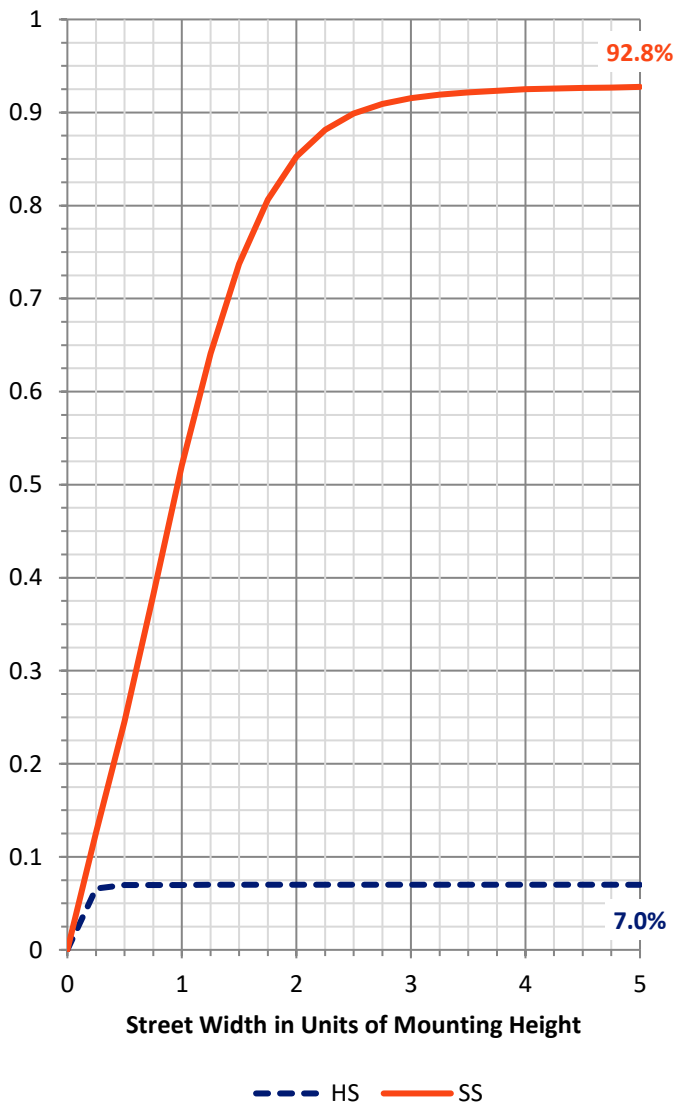
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2427.6	0.0	2427.6
	% Fixture	7.0	0.0	7.0
Street Side	Lumens	32102.7	0.0	32102.7
	% Fixture	93.0	0.0	93.0
Total	Lumens	34530.3	0.0	34530.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	506.0	1.5
10°-20°	1142.2	3.3
20°-30°	1632.5	4.7
30°-40°	2794.4	8.1
40°-50°	5043.6	14.6
50°-60°	8625.2	25.0
60°-70°	10616.1	30.7
70°-80°	4013.5	11.6
80°-90°	156.8	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°	34530.3	100.0
0°-180°	34530.3	100.0

Coefficient of Utilization



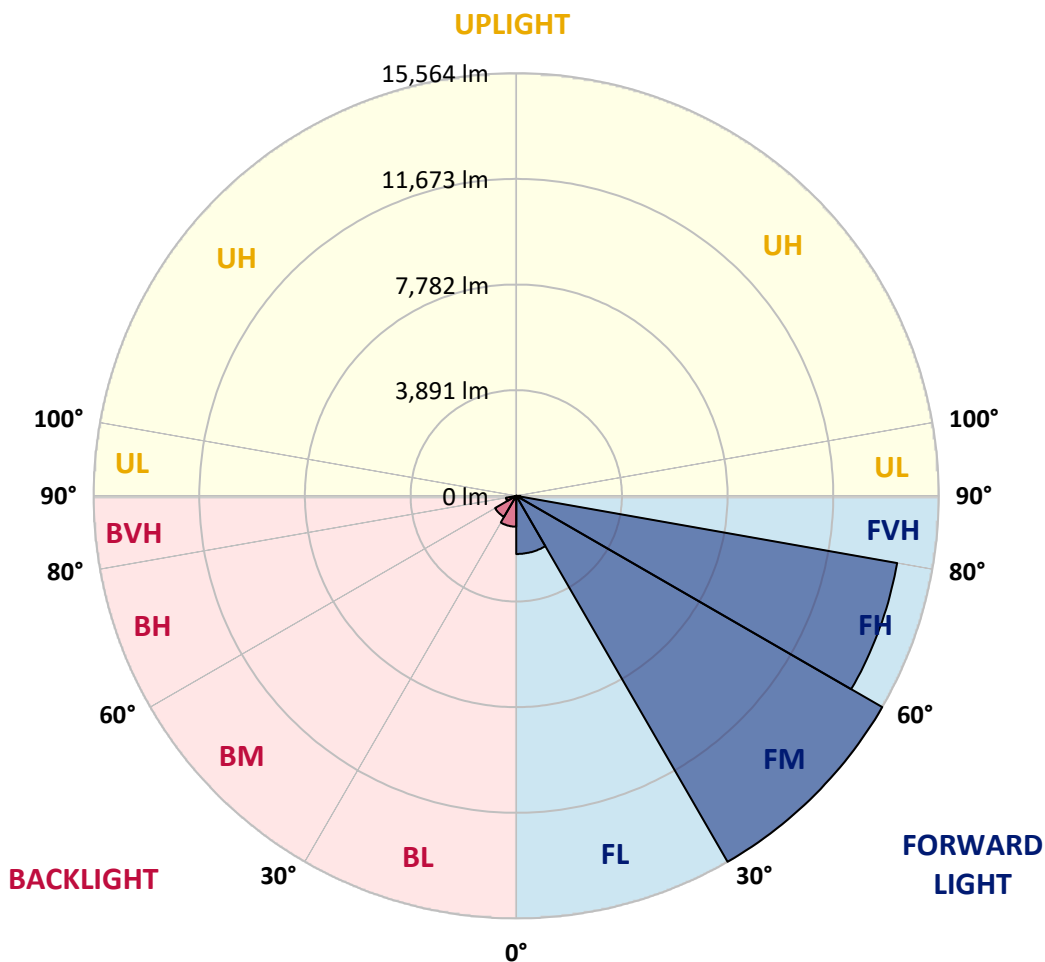
REPORT NUMBER: P575260
 CATALOG NUMBER: EPH-VN-08-740-U-T3R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2143.7	6.2			
FM (30°-60°)	15563.5	45.1			
FH (60°-80°)	14245.0	41.3			G5
FVH (80°-90°)	150.5	0.4			G2/225
BL (0°-30°)	1137.0	3.3	B3/2500		
BM (30°-60°)	899.8	2.6	B1/1000		
BH (60°-80°)	384.6	1.1	B1/500		G1/500
BVH (80°-90°)	6.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short





REPORT NUMBER: P575260
 CATALOG NUMBER: EPH-VN-08-740-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°
0°	5530.6	5530.6	5530.6	5530.6	5530.6	5530.6	5530.6	5530.6	5530.6	5530.6
2.5°	5087.1	5040.2	5087.1	5155.0	5191.5	5222.8	5332.4	5426.3	5525.4	5593.2
5°	4716.7	4805.4	4815.8	4836.7	4894.1	5081.9	5144.5	5306.3	5551.5	5572.4
7.5°	4424.5	4398.4	4466.2	4601.9	4748.0	4857.6	5040.2	5321.9	5577.6	5666.3
10°	4001.9	4054.1	4127.1	4262.8	4440.2	4711.5	5035.0	5348.0	5713.2	5744.6
12.5°	3772.3	3720.1	3834.9	3975.8	4278.4	4528.9	4925.4	5301.1	5796.7	5968.9
15°	3584.5	3610.6	3720.1	3814.0	4064.5	4382.8	4847.1	5415.8	5937.6	6057.6
17.5°	3506.2	3490.6	3574.0	3668.0	3975.8	4335.8	4815.8	5421.1	6062.8	6219.4
20°	3542.7	3574.0	3548.0	3636.7	3829.7	4194.9	4862.8	5520.2	6156.7	6370.7
22.5°	4116.7	4074.9	3866.2	3699.3	3709.7	4137.5	4826.3	5582.8	6240.2	6412.4
25°	5614.1	5389.8	4873.2	4231.5	3808.8	3981.0	4784.5	5561.9	6224.6	6438.5
27.5°	7122.0	6928.9	6422.8	5426.3	4210.6	3918.4	4638.4	5577.6	6146.3	6344.6
30°	8713.4	8817.7	8066.4	6882.0	5264.5	4262.8	4544.5	5494.1	6094.1	6261.1
32.5°	10346.5	10304.7	9850.8	8567.3	6772.4	5024.5	4695.8	5577.6	6162.0	6323.7
35°	11624.8	11478.7	11019.5	9861.2	8019.4	6172.4	5217.6	5974.1	6459.4	6652.4
37.5°	12256.1	12318.7	12052.6	11045.6	9386.4	7236.8	5869.8	5974.1	6553.3	6777.6
40°	12746.5	12934.4	12835.2	12511.8	10743.0	8436.8	6589.8	6344.6	7028.1	7450.7
42.5°	13336.1	13247.4	13831.8	13534.4	12517.0	9949.9	7852.5	7226.3	8149.9	8556.8
45°	13649.2	13988.3	14431.8	14812.7	14160.5	11838.7	9501.2	8786.4	9866.4	10383.0
47.5°	14452.7	14588.3	15308.4	15788.4	15496.2	13998.8	12005.6	11066.5	12026.5	12840.5
50°	14922.3	14739.7	15746.6	16477.1	16644.1	15788.4	14249.2	13518.7	14593.6	15631.9
52.5°	14510.1	15031.8	16038.8	17348.4	17812.8	17385.0	16884.1	16565.8	17322.4	18282.4
55°	13064.8	13419.6	15871.9	18303.3	19800.7	19602.4	20066.8	19858.1	20619.9	21637.3
57.5°	11901.3	12344.8	14499.6	18798.9	21652.9	22237.3	22821.7	22691.2	23609.5	24783.5
60°	11176.1	11431.7	13508.3	18673.7	22748.6	24960.9	26280.9	25362.6	26860.1	27757.5
62.5°	9918.6	10080.4	12063.0	17014.5	23077.3	26886.2	29124.5	27877.5	29176.7	30272.4
65°	7951.6	8389.9	10028.2	14531.0	20906.8	27241.0	30898.5	29432.4	30689.8	31409.8
66°	7236.8	7555.1	9057.7	13216.1	19670.3	26651.4	30601.1	29755.8	30908.9	31566.3
67.5°	6005.4	6282.0	7476.8	11343.0	17139.7	25352.2	30809.8	29536.7	31075.9	30674.1
70°	3975.8	4153.2	5113.2	7669.8	11937.8	20739.9	28576.7	27825.3	27319.2	25811.4
72.5°	1857.5	2113.1	3193.2	4648.9	7002.0	14510.1	23301.7	22294.7	19158.9	16748.4
75°	840.0	954.8	1753.1	2666.2	3141.0	7518.5	15031.8	13576.1	9537.7	7920.3
77.5°	453.9	516.5	855.7	1267.9	1142.6	2634.9	7440.3	6188.0	3005.3	2201.8
80°	349.6	412.2	714.8	725.2	422.6	683.5	2765.3	1914.9	751.3	568.7
82.5°	182.6	260.9	563.5	469.6	213.9	276.5	855.7	532.2	234.8	187.8
85°	73.0	114.8	318.3	313.1	125.2	93.9	240.0	161.7	93.9	78.3
87.5°	5.2	5.2	172.2	120.0	78.3	26.1	36.5	36.5	47.0	41.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P575260

CATALOG NUMBER: EPH-VN-08-740-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
5530.6	0°	5530.6	5530.6	5530.6	5530.6	5530.6	5530.6	5530.6	5530.6	5530.6	5530.6
5572.4	2.5°	5666.3	5728.9	5739.3	5911.5	5948.0	5911.5	6005.4	5989.8	6031.5	6000.2
5666.3	5°	5796.7	5885.4	6057.6	6188.0	6188.0	6083.7	6000.2	5890.6	5728.9	5687.2
5848.9	7.5°	6021.1	6302.8	6459.4	6375.9	6208.9	5817.6	5275.0	4878.4	4544.5	4419.3
6083.7	10°	6417.6	6574.1	6756.8	6417.6	5723.7	4894.1	3981.0	3381.0	2911.4	2807.1
6360.2	12.5°	6673.3	6923.7	7028.1	6188.0	4826.3	3589.7	2598.4	1920.1	1591.4	1340.9
6652.4	15°	7007.2	7294.2	7080.3	5567.2	3803.6	2353.1	1346.1	840.0	683.5	641.8
6850.7	17.5°	7236.8	7549.8	6866.3	4795.0	2697.5	1252.2	667.8	579.2	568.7	573.9
7064.6	20°	7638.5	7826.4	6542.8	3897.5	1612.2	641.8	537.4	516.5	506.1	521.8
7210.7	22.5°	7789.8	7962.0	6015.9	2822.7	725.2	427.8	401.8	386.1	396.5	391.3
7299.4	25°	7779.4	7868.1	5149.7	1617.4	213.9	167.0	151.3	151.3	140.9	146.1
7153.3	27.5°	7857.7	7638.5	4179.3	480.0	0.0	0.0	0.0	0.0	0.0	0.0
7184.6	30°	7899.4	7268.1	2974.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7367.2	32.5°	7920.3	7075.0	1914.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7628.1	35°	8082.0	6688.9	819.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8050.7	37.5°	8191.6	6193.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8843.8	40°	8645.5	6036.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10033.4	42.5°	9235.1	5744.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11802.2	45°	10054.3	5311.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13826.6	47.5°	11139.5	5055.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15720.6	50°	11948.3	4654.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17854.5	52.5°	12976.1	4414.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20348.6	55°	14197.0	4424.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22461.7	57.5°	15308.4	4351.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24115.6	60°	15877.1	3720.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25305.2	62.5°	15757.1	3010.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25665.3	65°	15339.7	2363.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25112.2	66°	15052.7	2092.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24371.3	67.5°	14181.4	1674.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19054.6	70°	11285.6	1147.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12021.3	72.5°	7179.4	704.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5264.5	75°	3307.9	323.5	10.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1528.8	77.5°	1038.3	198.3	41.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
365.2	80°	271.3	125.2	41.7	5.2	0.0	0.0	0.0	0.0	0.0	0.0
156.5	82.5°	140.9	88.7	36.5	15.7	10.4	0.0	0.0	0.0	0.0	0.0
73.0	85°	88.7	36.5	15.7	10.4	10.4	0.0	0.0	0.0	0.0	0.0
52.2	87.5°	78.3	20.9	10.4	10.4	5.2	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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