

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: P575258

Luminaire Tested: **EPH-VN-06-740-U-T3R-HSS**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575258
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-06-740-U-T3R-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T3R distribution lens and House Side Shield
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

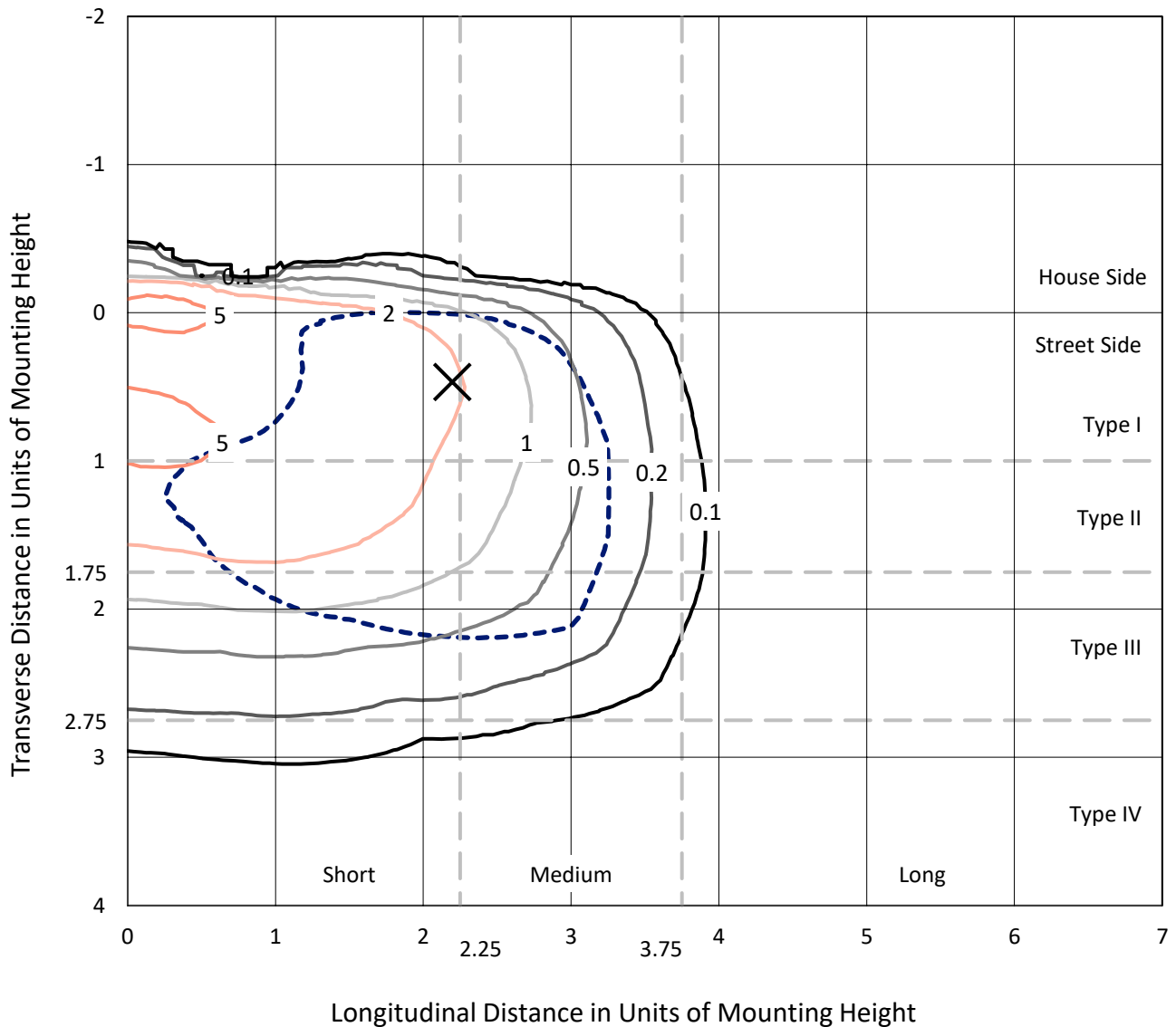
Lumens per Lamp: N/A
Luminaire Lumens: 32774.5 lumens
Efficiency: N/A
Efficacy: 89.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 368.2
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

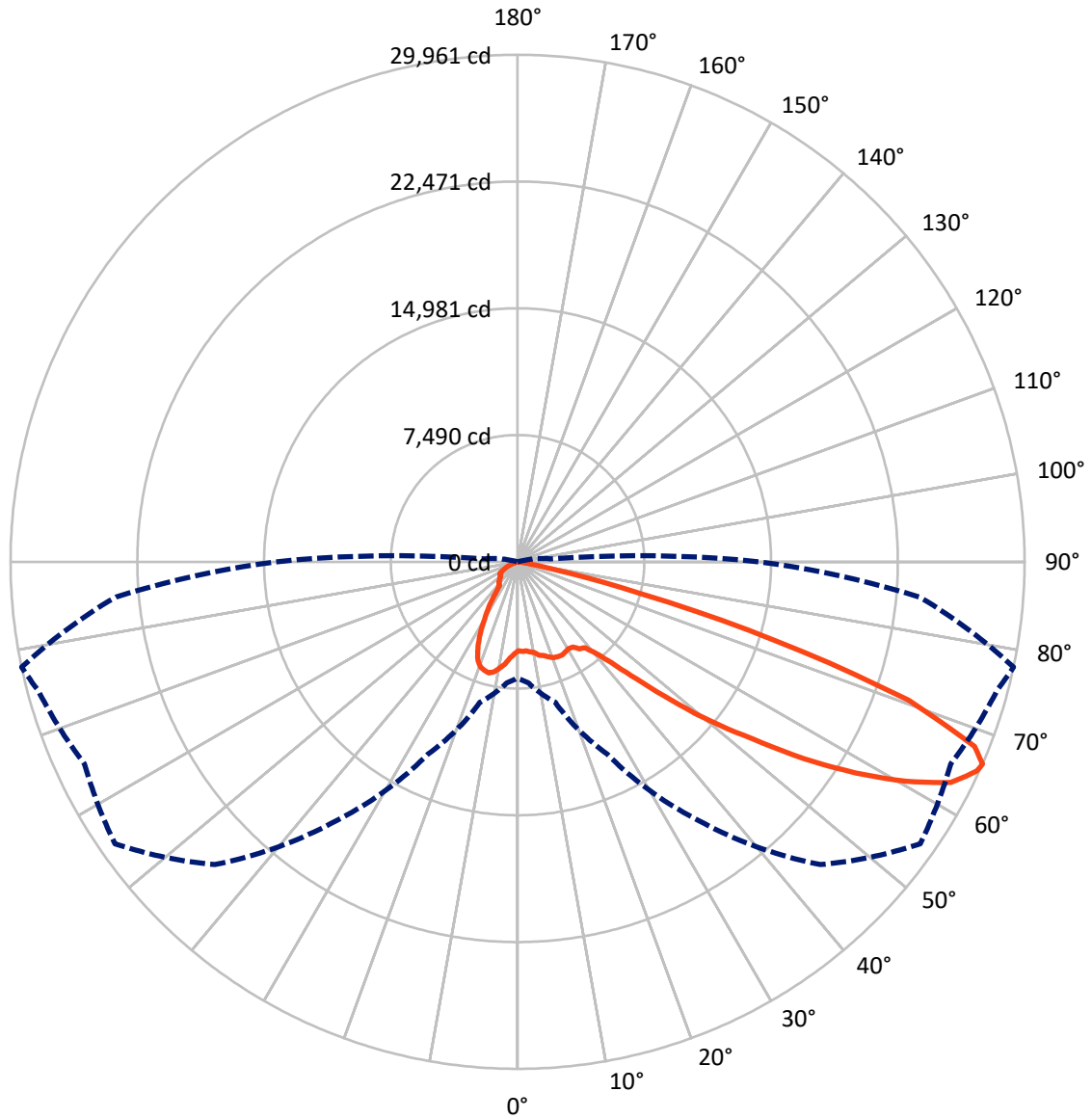
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.6 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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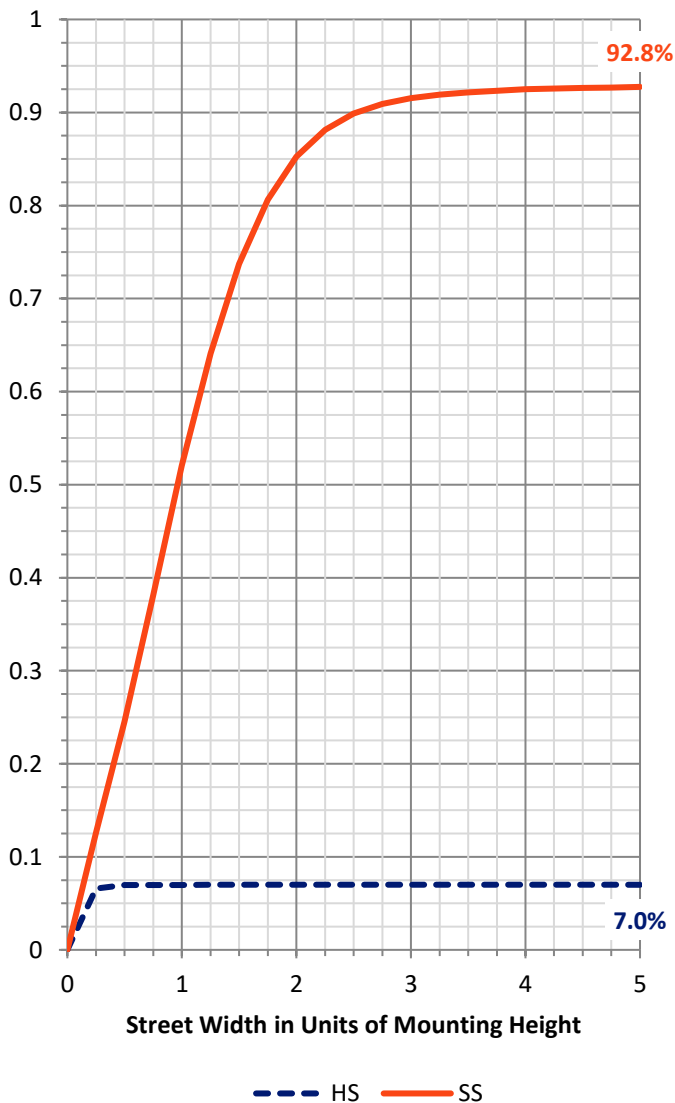
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2304.2	0.0	2304.2
	% Fixture	7.0	0.0	7.0
Street Side	Lumens	30470.3	0.0	30470.3
	% Fixture	93.0	0.0	93.0
Total	Lumens	32774.5	0.0	32774.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	480.2	1.5
10°-20°	1084.1	3.3
20°-30°	1549.5	4.7
30°-40°	2652.3	8.1
40°-50°	4787.1	14.6
50°-60°	8186.7	25.0
60°-70°	10076.3	30.7
70°-80°	3809.4	11.6
80°-90°	148.8	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°	32774.5	100.0
0°-180°	32774.5	100.0

Coefficient of Utilization

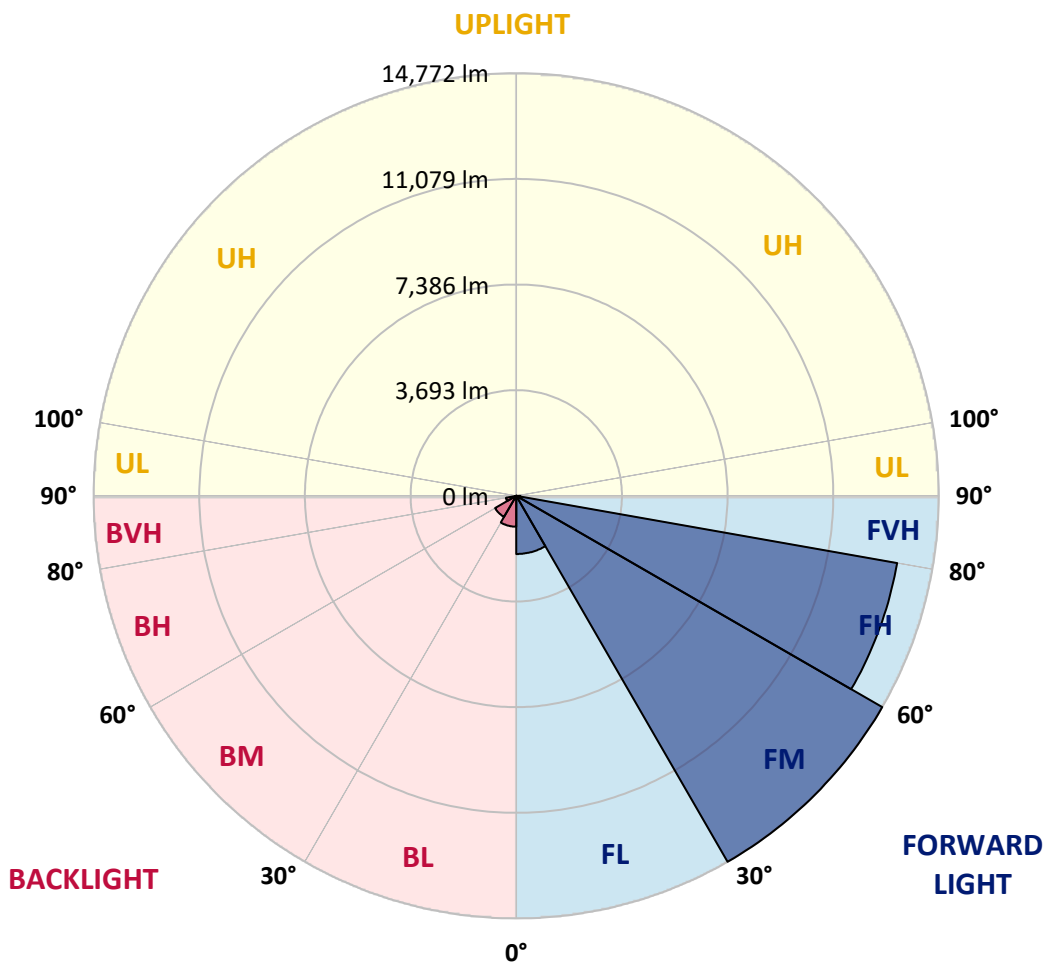


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2034.7	6.2			
FM (30°-60°)	14772.1	45.1			
FH (60°-80°)	13520.7	41.3			G5
FVH (80°-90°)	142.8	0.4			G2/225
BL (0°-30°)	1079.1	3.3	B3/2500		
BM (30°-60°)	854.0	2.6	B1/1000		
BH (60°-80°)	365.1	1.1	B1/500		G1/500
BVH (80°-90°)	6.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°
0°	5249.4	5249.4	5249.4	5249.4	5249.4	5249.4	5249.4	5249.4	5249.4	5249.4
2.5°	4828.5	4783.9	4828.5	4892.8	4927.5	4957.2	5061.2	5150.4	5244.5	5308.8
5°	4476.9	4561.0	4570.9	4590.8	4645.2	4823.5	4882.9	5036.5	5269.2	5289.0
7.5°	4199.5	4174.8	4239.1	4367.9	4506.6	4610.6	4783.9	5051.3	5294.0	5378.2
10°	3798.4	3847.9	3917.2	4046.0	4214.4	4471.9	4778.9	5076.1	5422.7	5452.5
12.5°	3580.5	3531.0	3639.9	3773.6	4060.9	4298.6	4674.9	5031.5	5502.0	5665.4
15°	3402.2	3427.0	3531.0	3620.1	3857.8	4159.9	4600.7	5140.5	5635.7	5749.6
17.5°	3327.9	3313.1	3392.3	3481.4	3773.6	4115.3	4570.9	5145.4	5754.5	5903.1
20°	3362.6	3392.3	3367.5	3451.7	3635.0	3981.6	4615.5	5239.5	5843.7	6046.7
22.5°	3907.3	3867.7	3669.6	3511.2	3521.1	3927.2	4580.9	5298.9	5922.9	6086.3
25°	5328.6	5115.7	4625.4	4016.3	3615.2	3778.6	4541.2	5279.1	5908.1	6111.1
27.5°	6759.9	6576.6	6096.2	5150.4	3996.5	3719.2	4402.6	5294.0	5833.8	6022.0
30°	8270.3	8369.3	7656.2	6532.0	4996.8	4046.0	4313.4	5214.7	5784.3	5942.7
32.5°	9820.4	9780.7	9349.9	8131.6	6428.0	4769.0	4457.0	5294.0	5848.6	6002.2
35°	11033.7	10895.0	10459.2	9359.8	7611.6	5858.5	4952.3	5670.4	6130.9	6314.1
37.5°	11632.9	11692.3	11439.7	10484.0	8909.1	6868.8	5571.3	5670.4	6220.1	6433.0
40°	12098.4	12276.7	12182.6	11875.5	10196.7	8007.8	6254.7	6022.0	6670.7	7071.8
42.5°	12658.0	12573.8	13128.5	12846.2	11880.5	9444.0	7453.2	6858.9	7735.4	8121.7
45°	12955.1	13277.0	13698.0	14059.5	13440.5	11236.7	9018.1	8339.6	9364.7	9855.0
47.5°	13717.8	13846.6	14530.0	14985.6	14708.2	13286.9	11395.2	10503.8	11415.0	12187.5
50°	14163.5	13990.2	14946.0	15639.3	15797.7	14985.6	13524.7	12831.3	13851.5	14837.0
52.5°	13772.3	14267.5	15223.3	16466.3	16907.1	16501.0	16025.6	15723.5	16441.5	17352.8
55°	12400.5	12737.2	15064.8	17372.6	18793.9	18605.7	19046.4	18848.3	19571.4	20537.1
57.5°	11296.1	11717.1	13762.4	17843.0	20551.9	21106.6	21661.2	21537.4	22409.0	23523.3
60°	10607.8	10850.4	12821.4	17724.2	21591.9	23691.7	24944.6	24073.0	25494.3	26346.1
62.5°	9414.3	9567.8	11449.7	16149.4	21903.9	25519.1	27643.6	26460.0	27693.1	28733.1
65°	7547.3	7963.3	9518.3	13792.1	19843.8	25855.8	29327.4	27935.8	29129.3	29812.7
66°	6868.8	7170.9	8597.1	12544.1	18670.1	25296.2	29045.1	28242.8	29337.3	29961.2
67.5°	5700.1	5962.5	7096.6	10766.2	16268.2	24063.1	29243.2	28034.8	29495.7	29114.4
70°	3773.6	3942.0	4853.2	7279.8	11330.8	19685.3	27123.6	26410.5	25930.1	24498.9
72.5°	1763.0	2005.7	3030.8	4412.5	6645.9	13772.3	22116.8	21161.1	18184.7	15896.8
75°	797.3	906.3	1664.0	2530.6	2981.3	7136.2	14267.5	12885.8	9052.8	7517.5
77.5°	430.8	490.3	812.2	1203.4	1084.5	2500.9	7061.9	5873.4	2852.5	2089.9
80°	331.8	391.2	678.5	688.4	401.1	648.7	2624.7	1817.5	713.1	539.8
82.5°	173.3	247.6	534.8	445.7	203.0	262.5	812.2	505.1	222.9	178.3
85°	69.3	108.9	302.1	297.1	118.9	89.1	227.8	153.5	89.1	74.3
87.5°	5.0	5.0	163.4	113.9	74.3	24.8	34.7	34.7	44.6	39.6
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°
5249.4	0°	5249.4	5249.4	5249.4	5249.4	5249.4	5249.4	5249.4	5249.4	5249.4	5249.4
5289.0	2.5°	5378.2	5437.6	5447.5	5610.9	5645.6	5610.9	5700.1	5685.2	5724.8	5695.1
5378.2	5°	5502.0	5586.2	5749.6	5873.4	5873.4	5774.3	5695.1	5591.1	5437.6	5398.0
5551.5	7.5°	5714.9	5982.3	6130.9	6051.7	5893.2	5521.8	5006.7	4630.4	4313.4	4194.6
5774.3	10°	6091.3	6239.9	6413.2	6091.3	5432.6	4645.2	3778.6	3209.1	2763.4	2664.3
6036.8	12.5°	6334.0	6571.7	6670.7	5873.4	4580.9	3407.2	2466.2	1822.4	1510.4	1272.7
6314.1	15°	6650.9	6923.3	6720.2	5284.1	3610.2	2233.5	1277.7	797.3	648.7	609.1
6502.3	17.5°	6868.8	7165.9	6517.2	4551.1	2560.3	1188.5	633.9	549.7	539.8	544.7
6705.4	20°	7250.1	7428.4	6210.1	3699.3	1530.3	609.1	510.1	490.3	480.4	495.2
6844.0	22.5°	7393.7	7557.2	5710.0	2679.2	688.4	406.1	381.3	366.5	376.4	371.4
6928.2	25°	7383.8	7468.0	4887.9	1535.2	203.0	158.5	143.6	143.6	133.7	138.7
6789.6	27.5°	7458.1	7250.1	3966.8	455.6	0.0	0.0	0.0	0.0	0.0	0.0
6819.3	30°	7497.7	6898.5	2822.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6992.6	32.5°	7517.5	6715.3	1817.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7240.2	35°	7671.1	6348.8	777.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7641.4	37.5°	7775.1	5878.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8394.1	40°	8205.9	5729.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9523.2	42.5°	8765.5	5452.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11202.0	45°	9543.0	5041.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13123.5	47.5°	10573.1	4798.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14921.2	50°	11340.7	4417.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16946.7	52.5°	12316.3	4189.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19313.9	55°	13475.1	4199.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21319.5	57.5°	14530.0	4130.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22889.4	60°	15069.8	3531.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24018.5	62.5°	14955.9	2857.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24360.2	65°	14559.7	2243.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23835.3	66°	14287.3	1985.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23132.1	67.5°	13460.3	1589.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18085.7	70°	10711.8	1089.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11410.0	72.5°	6814.3	668.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4996.8	75°	3139.7	307.0	9.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1451.0	77.5°	985.5	188.2	39.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
346.7	80°	257.5	118.9	39.6	5.0	0.0	0.0	0.0	0.0	0.0	0.0
148.6	82.5°	133.7	84.2	34.7	14.9	9.9	0.0	0.0	0.0	0.0	0.0
69.3	85°	84.2	34.7	14.9	9.9	9.9	0.0	0.0	0.0	0.0	0.0
49.5	87.5°	74.3	19.8	9.9	9.9	5.0	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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