

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: P575253

Luminaire Tested: **EPH-VN-07-735-U-T3R-HSS**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575253
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-07-735-U-T3R-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T3R distribution lens and House Side Shield
Light Source: (112) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

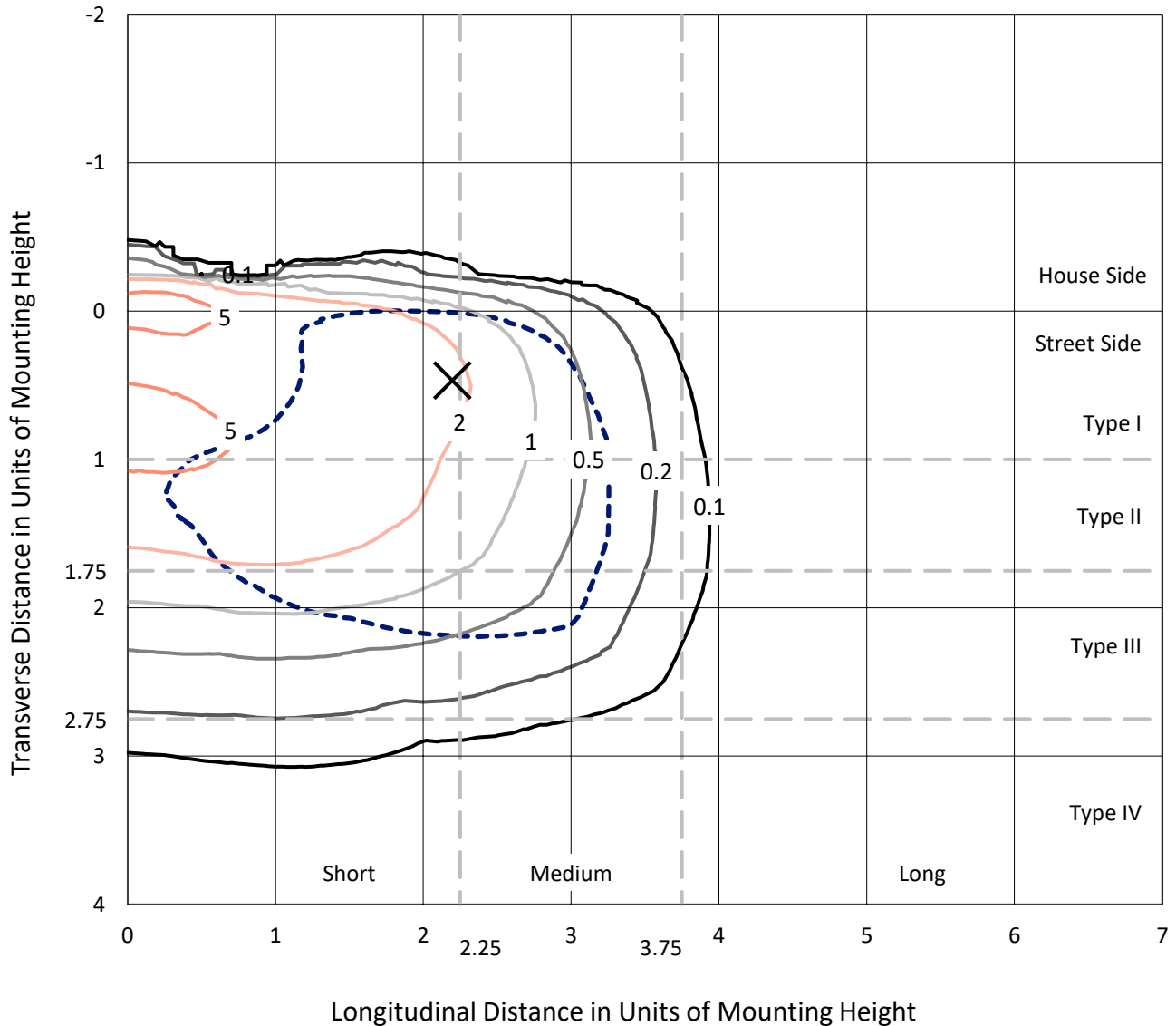
Lumens per Lamp: N/A
Luminaire Lumens: 34487.2 lumens
Efficiency: N/A
Efficacy: 81.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 422.5
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

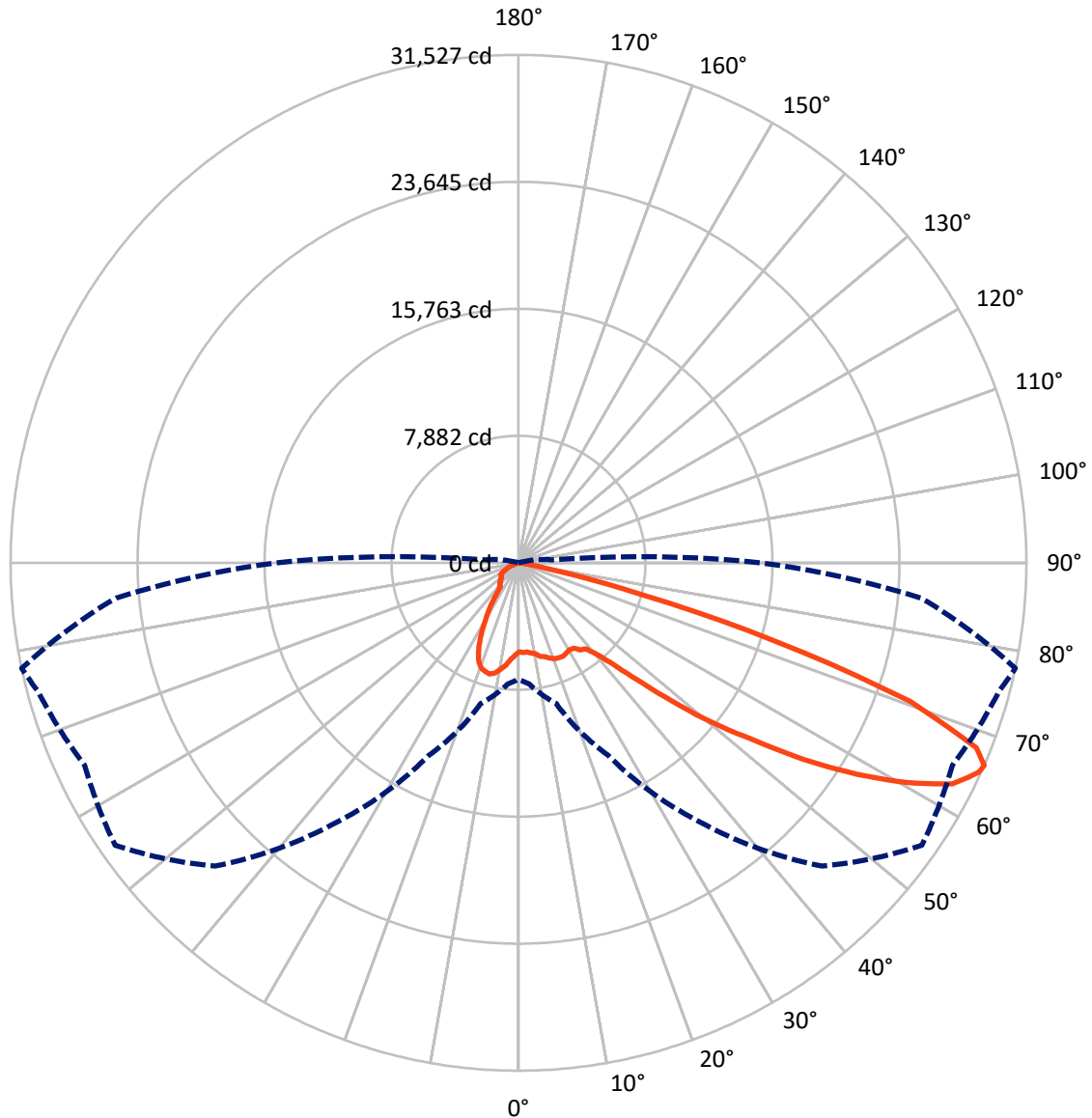
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7 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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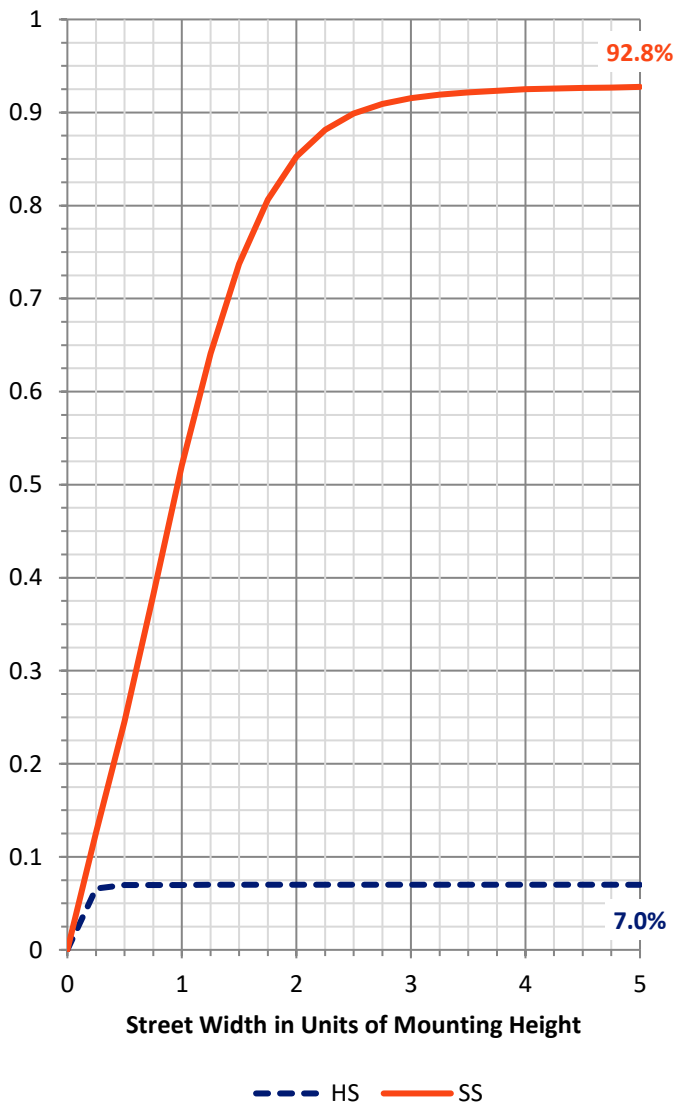
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2424.6	0.0	2424.6
	% Fixture	7.0	0.0	7.0
Street Side	Lumens	32062.6	0.0	32062.6
	% Fixture	93.0	0.0	93.0
Total	Lumens	34487.2	0.0	34487.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	505.3	1.5
10°-20°	1140.7	3.3
20°-30°	1630.5	4.7
30°-40°	2790.9	8.1
40°-50°	5037.3	14.6
50°-60°	8614.5	25.0
60°-70°	10602.9	30.7
70°-80°	4008.5	11.6
80°-90°	156.6	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°	34487.2	100.0
0°-180°	34487.2	100.0

Coefficient of Utilization



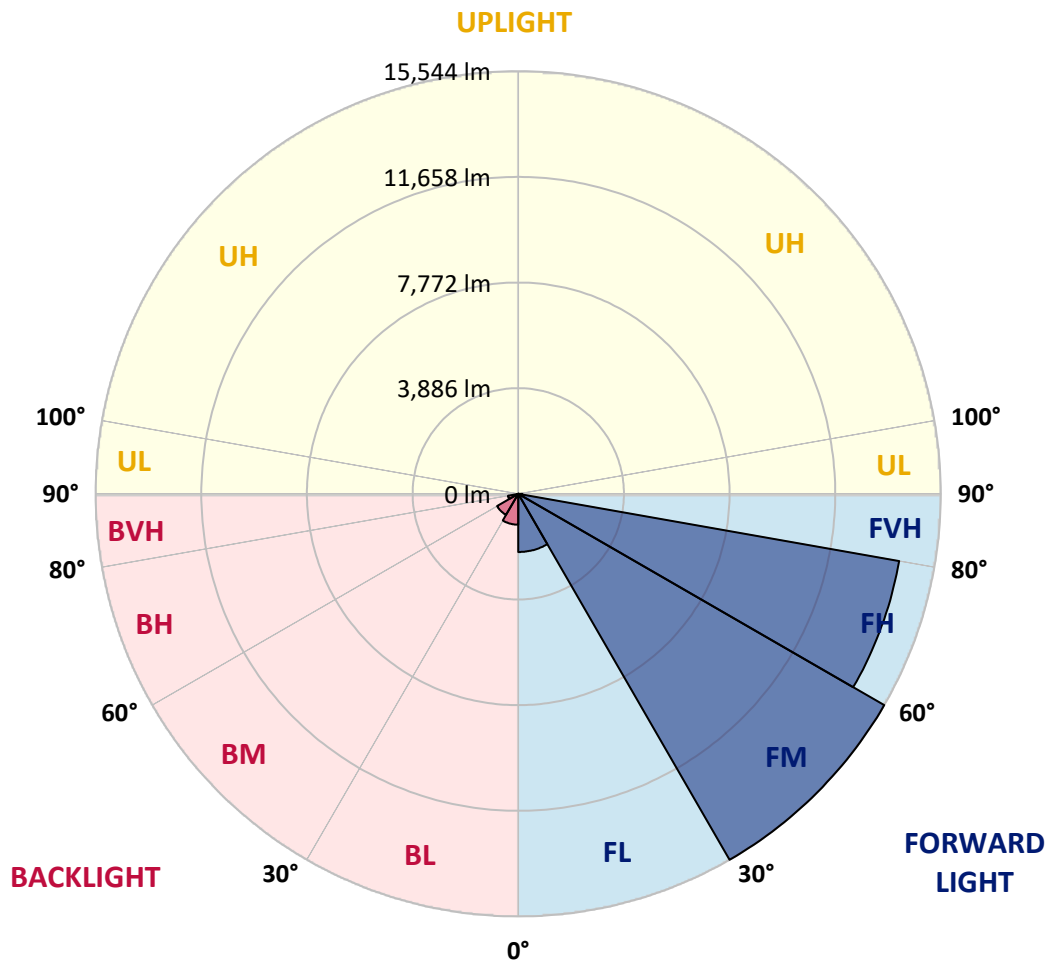
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2141.0	6.2			
FM (30°-60°)	15544.1	45.1			
FH (60°-80°)	14227.2	41.3			G5
FVH (80°-90°)	150.3	0.4			G2/225
BL (0°-30°)	1135.5	3.3	B3/2500		
BM (30°-60°)	898.6	2.6	B1/1000		
BH (60°-80°)	384.1	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°
0°	5523.7	5523.7	5523.7	5523.7	5523.7	5523.7	5523.7	5523.7	5523.7	5523.7
2.5°	5080.8	5033.9	5080.8	5148.5	5185.0	5216.3	5325.7	5419.5	5518.5	5586.3
5°	4710.8	4799.4	4809.8	4830.7	4888.0	5075.6	5138.1	5299.7	5544.6	5565.4
7.5°	4419.0	4392.9	4460.7	4596.2	4742.1	4851.5	5033.9	5315.3	5570.6	5659.2
10°	3996.9	4049.0	4122.0	4257.4	4434.6	4705.6	5028.7	5341.3	5706.1	5737.4
12.5°	3767.6	3715.5	3830.1	3970.8	4273.1	4523.2	4919.2	5294.4	5789.5	5961.5
15°	3580.0	3606.1	3715.5	3809.3	4059.4	4377.3	4841.1	5409.1	5930.2	6050.0
17.5°	3501.8	3486.2	3569.6	3663.4	3970.8	4330.4	4809.8	5414.3	6055.3	6211.6
20°	3538.3	3569.6	3543.5	3632.1	3824.9	4189.7	4856.7	5513.3	6149.1	6362.7
22.5°	4111.5	4069.8	3861.4	3694.6	3705.1	4132.4	4820.2	5575.8	6232.4	6404.4
25°	5607.1	5383.0	4867.1	4226.2	3804.1	3976.0	4778.5	5555.0	6216.8	6430.5
27.5°	7113.1	6920.3	6414.8	5419.5	4205.3	3913.5	4632.6	5570.6	6138.6	6336.7
30°	8702.5	8806.7	8056.3	6873.4	5258.0	4257.4	4538.8	5487.2	6086.5	6253.3
32.5°	10333.5	10291.9	9838.5	8556.6	6764.0	5018.3	4690.0	5570.6	6154.3	6315.8
35°	11610.2	11464.3	11005.8	9848.9	8009.4	6164.7	5211.1	5966.7	6451.3	6644.1
37.5°	12240.8	12303.3	12037.6	11031.8	9374.7	7227.7	5862.4	5966.7	6545.1	6769.2
40°	12730.6	12918.2	12819.2	12496.1	10729.6	8426.3	6581.6	6336.7	7019.3	7441.4
42.5°	13319.5	13230.9	13814.5	13517.5	12501.3	9937.5	7842.7	7217.3	8139.7	8546.1
45°	13632.1	13970.9	14413.8	14794.2	14142.8	11823.9	9489.3	8775.4	9854.1	10370.0
47.5°	14434.6	14570.1	15289.3	15768.7	15476.9	13981.3	11990.7	11052.7	12011.5	12824.4
50°	14903.6	14721.3	15727.0	16456.5	16623.3	15768.7	14231.4	13501.9	14575.3	15612.3
52.5°	14492.0	15013.1	16018.8	17326.8	17790.6	17363.3	16863.0	16545.1	17300.7	18259.6
55°	13048.5	13402.9	15852.1	18280.4	19776.0	19578.0	20041.8	19833.3	20594.1	21610.3
57.5°	11886.4	12329.4	14481.5	18775.5	21625.9	22209.6	22793.2	22662.9	23580.1	24752.6
60°	11162.1	11417.4	13491.4	18650.4	22720.2	24929.7	26248.1	25331.0	26826.6	27722.9
62.5°	9906.2	10067.8	12048.0	16993.3	23048.5	26852.6	29088.2	27842.7	29140.3	30234.6
65°	7941.7	8379.4	10015.7	14512.8	20880.7	27207.0	30859.9	29395.6	30651.5	31370.6
66°	7227.7	7545.6	9046.4	13199.6	19645.7	26618.1	30562.9	29718.7	30870.3	31526.9
67.5°	5997.9	6274.1	7467.5	11328.9	17118.3	25320.6	30771.3	29499.8	31037.1	30635.8
70°	3970.8	4148.0	5106.8	7660.3	11922.9	20714.0	28541.0	27790.6	27285.1	25779.1
72.5°	1855.1	2110.5	3189.2	4643.1	6993.2	14492.0	23272.6	22266.9	19135.0	16727.5
75°	839.0	953.6	1750.9	2662.9	3137.1	7509.1	15013.1	13559.2	9525.8	7910.4
77.5°	453.4	515.9	854.6	1266.3	1141.2	2631.6	7431.0	6180.3	3001.6	2199.1
80°	349.1	411.7	713.9	724.3	422.1	682.6	2761.9	1912.5	750.4	568.0
82.5°	182.4	260.6	562.8	469.0	213.7	276.2	854.6	531.5	234.5	187.6
85°	73.0	114.6	317.9	312.7	125.1	93.8	239.7	161.5	93.8	78.2
87.5°	5.2	5.2	172.0	119.9	78.2	26.1	36.5	36.5	46.9	41.7
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°
5523.7	0°	5523.7	5523.7	5523.7	5523.7	5523.7	5523.7	5523.7	5523.7	5523.7	5523.7
5565.4	2.5°	5659.2	5721.7	5732.2	5904.1	5940.6	5904.1	5997.9	5982.3	6024.0	5992.7
5659.2	5°	5789.5	5878.1	6050.0	6180.3	6180.3	6076.1	5992.7	5883.3	5721.7	5680.1
5841.6	7.5°	6013.6	6295.0	6451.3	6367.9	6201.2	5810.3	5268.4	4872.3	4538.8	4413.8
6076.1	10°	6409.6	6565.9	6748.3	6409.6	5716.5	4888.0	3976.0	3376.8	2907.8	2803.6
6352.3	12.5°	6665.0	6915.1	7019.3	6180.3	4820.2	3585.2	2595.1	1917.7	1589.4	1339.2
6644.1	15°	6998.5	7285.1	7071.4	5560.2	3798.9	2350.2	1344.5	839.0	682.6	641.0
6842.1	17.5°	7227.7	7540.4	6857.8	4789.0	2694.1	1250.7	667.0	578.4	568.0	573.2
7055.8	20°	7629.0	7816.6	6534.7	3892.7	1610.2	641.0	536.7	515.9	505.5	521.1
7201.7	22.5°	7780.1	7952.1	6008.4	2819.2	724.3	427.3	401.3	385.6	396.0	390.8
7290.3	25°	7769.7	7858.3	5143.3	1615.4	213.7	166.8	151.1	151.1	140.7	145.9
7144.4	27.5°	7847.9	7629.0	4174.1	479.4	0.0	0.0	0.0	0.0	0.0	0.0
7175.6	30°	7889.6	7259.0	2970.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7358.0	32.5°	7910.4	7066.2	1912.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7618.6	35°	8071.9	6680.6	818.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8040.7	37.5°	8181.4	6185.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8832.8	40°	8634.7	6029.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10020.9	42.5°	9223.6	5737.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11787.4	45°	10041.7	5304.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13809.3	47.5°	11125.6	5049.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15700.9	50°	11933.3	4648.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17832.3	52.5°	12959.9	4408.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20323.1	55°	14179.3	4419.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22433.6	57.5°	15289.3	4346.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24085.5	60°	15857.3	3715.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25273.7	62.5°	15737.4	3006.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25633.2	65°	15320.5	2360.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25080.8	66°	15033.9	2089.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24340.9	67.5°	14163.7	1672.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19030.8	70°	11271.5	1146.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12006.3	72.5°	7170.4	703.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5258.0	75°	3303.8	323.1	10.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1526.8	77.5°	1037.0	198.0	41.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
364.8	80°	271.0	125.1	41.7	5.2	0.0	0.0	0.0	0.0	0.0	0.0
156.3	82.5°	140.7	88.6	36.5	15.6	10.4	0.0	0.0	0.0	0.0	0.0
73.0	85°	88.6	36.5	15.6	10.4	10.4	0.0	0.0	0.0	0.0	0.0
52.1	87.5°	78.2	20.8	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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