

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: P575446

Luminaire Tested: **EPH-VN-06-730-U-SL4-HSS**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575446
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-06-730-U-SL4-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL4 distribution lens and House Side Shield
Light Source: (96) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

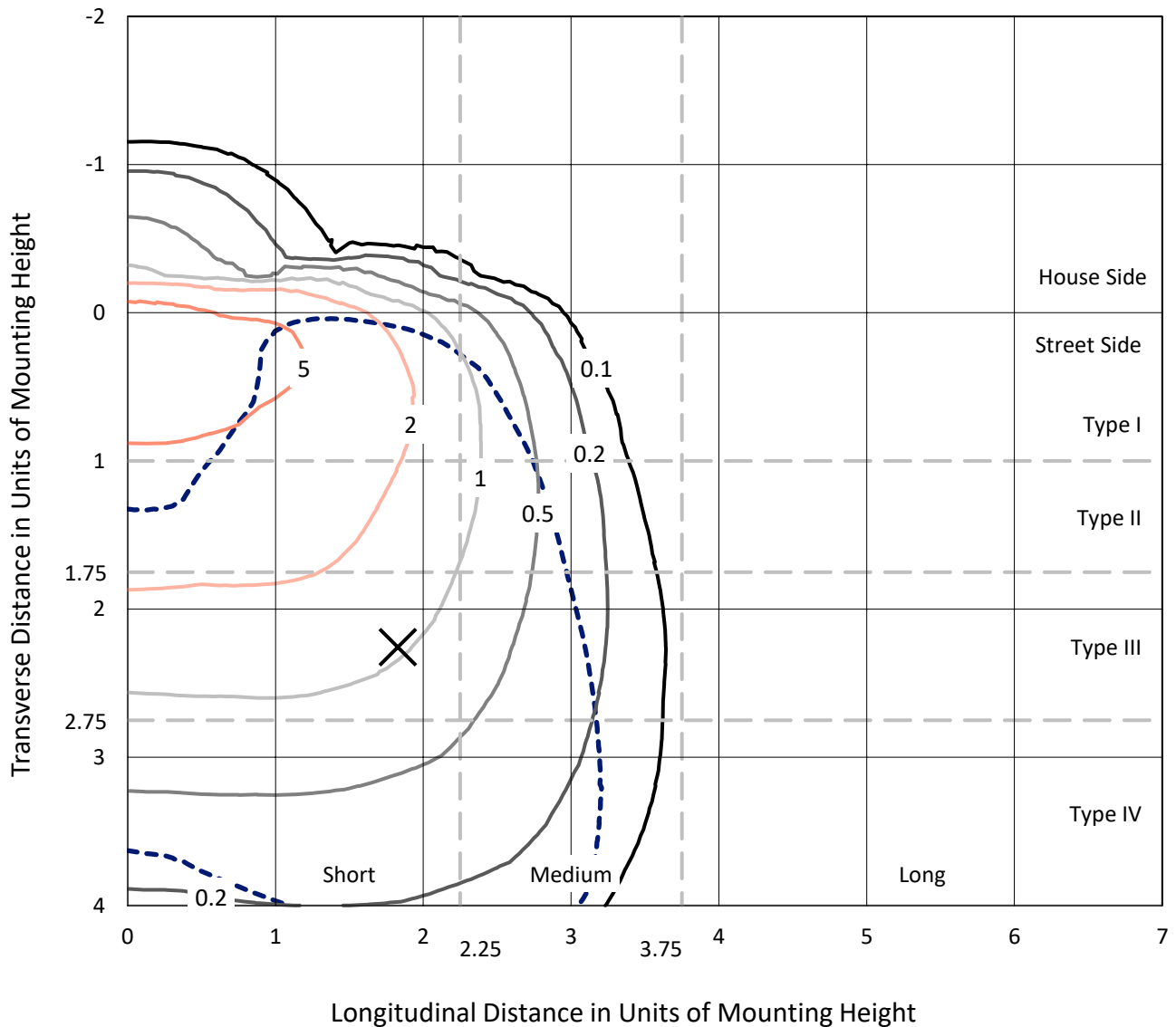
Lumens per Lamp: N/A
Luminaire Lumens: 39804.5 lumens
Efficiency: N/A
Efficacy: 108.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

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

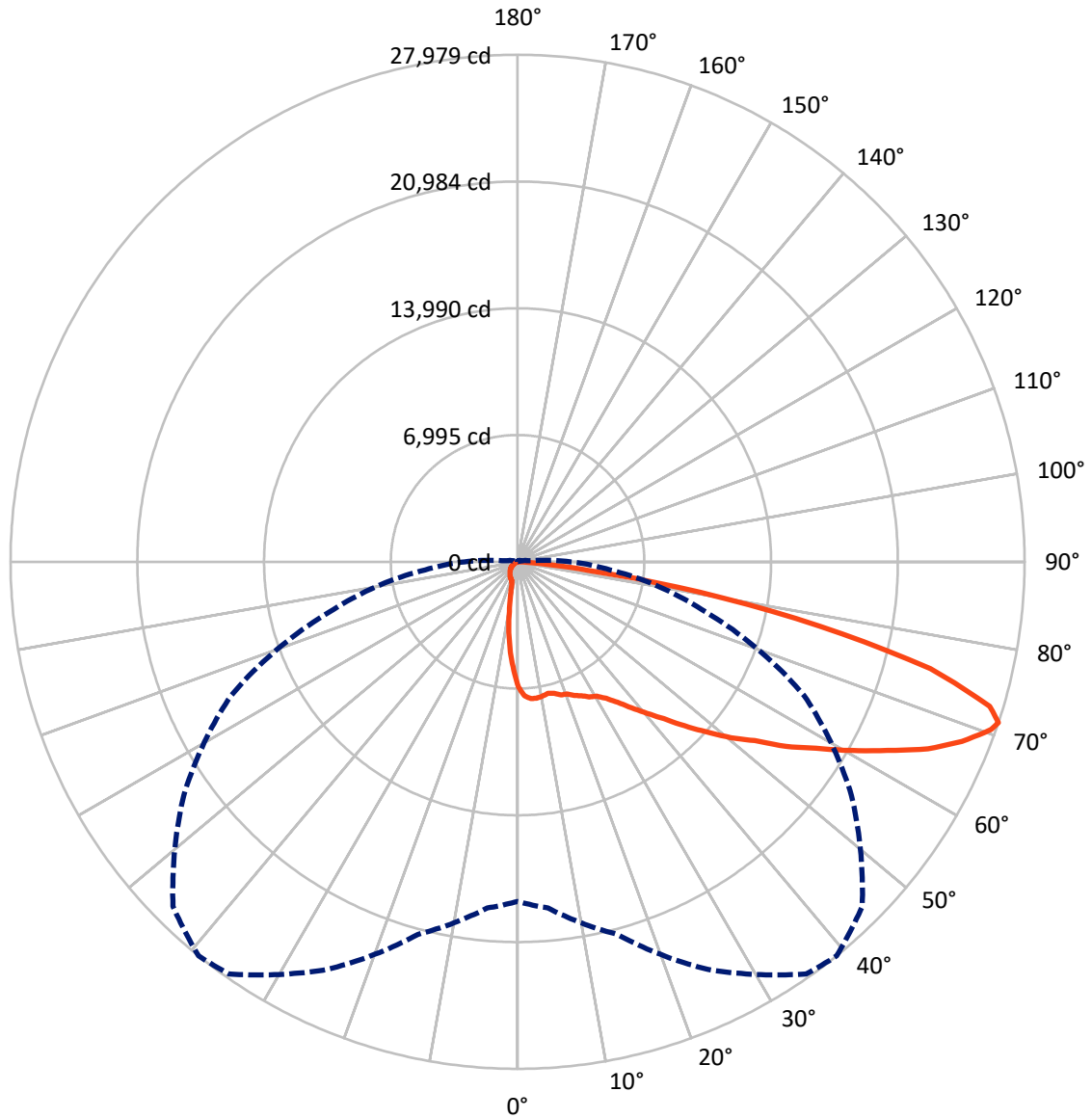
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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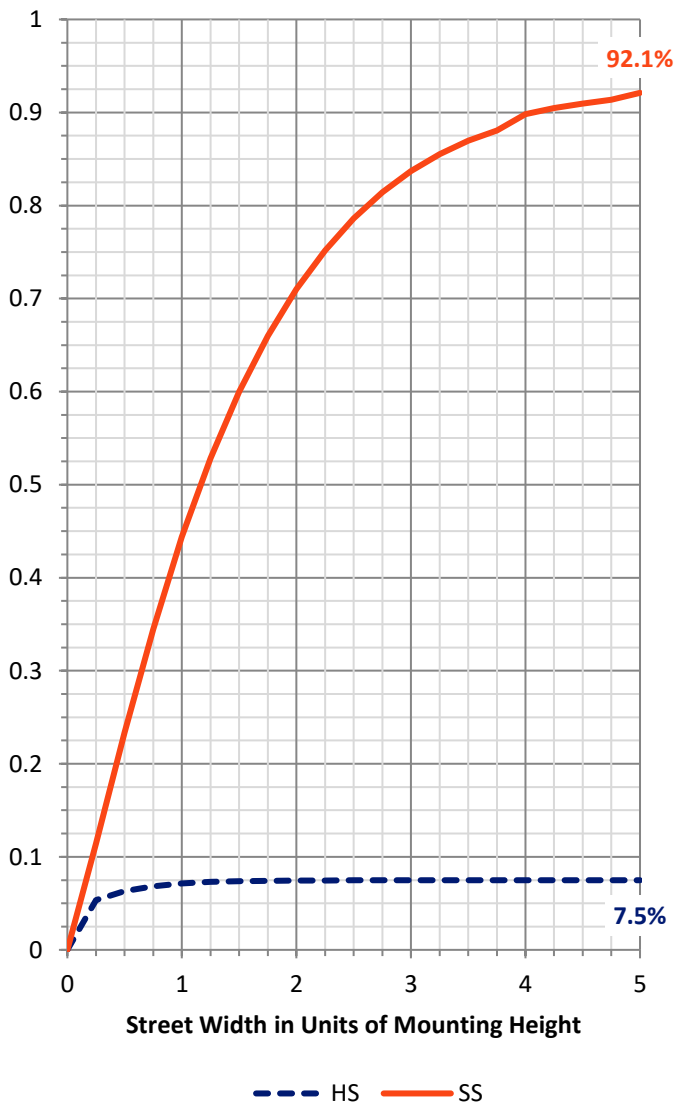
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2996.6	0.0	2996.6
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	36807.8	0.0	36807.8
	% Fixture	92.5	0.0	92.5
Total	Lumens	39804.5	0.0	39804.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	579.3	1.5
10°-20°	1425.7	3.6
20°-30°	2288.8	5.8
30°-40°	3503.6	8.8
40°-50°	5623.8	14.1
50°-60°	8260.5	20.8
60°-70°	10403.7	26.1
70°-80°	6943.2	17.4
80°-90°	775.9	1.9
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°	39804.5	100.0
0°-180°	39804.5	100.0

Coefficient of Utilization

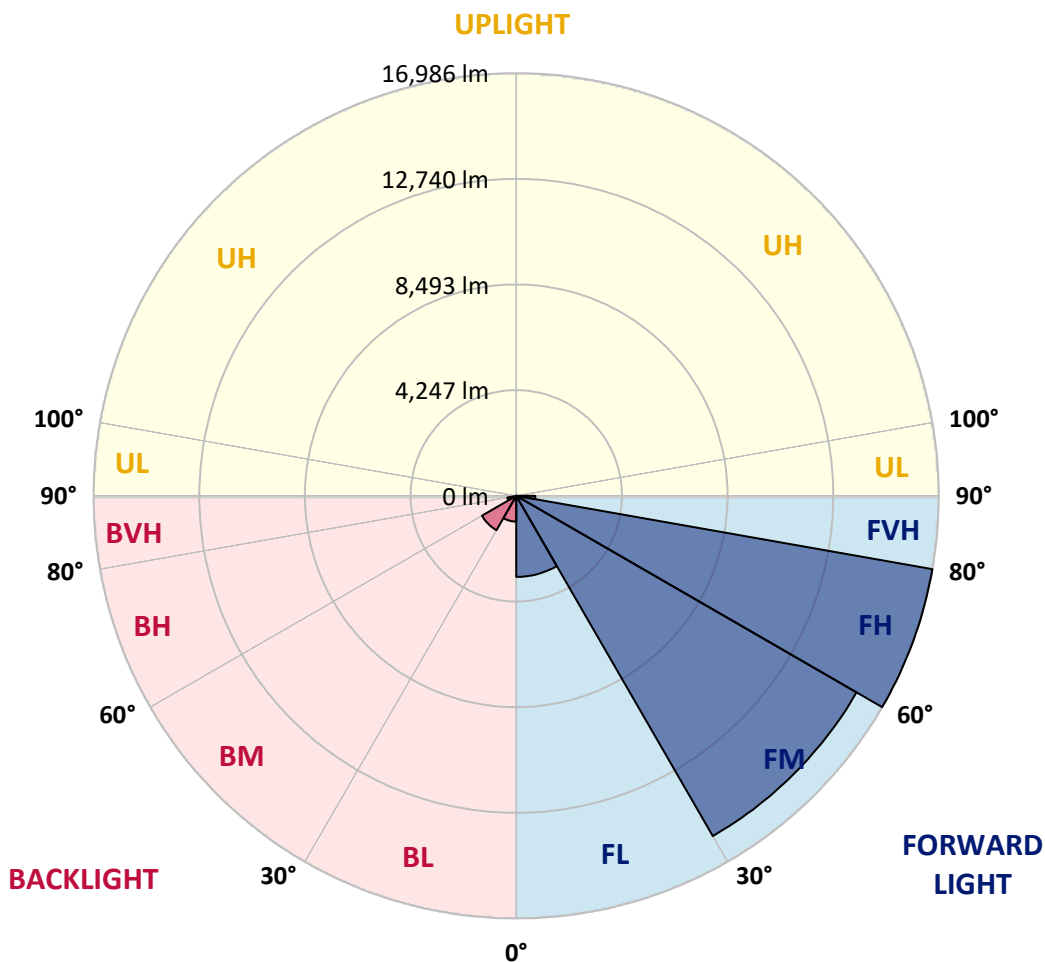


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3259.1	8.2			
FM (30°-60°)	15795.0	39.7			
FH (60°-80°)	16986.3	42.7			G5
FVH (80°-90°)	767.4	1.9			G5
BL (0°-30°)	1034.6	2.6	B3/2500		
BM (30°-60°)	1592.8	4.0	B2/2500		
BH (60°-80°)	360.7	0.9	B1/500		G1/500
BVH (80°-90°)	8.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°
0°	6928.2	6928.2	6928.2	6928.2	6928.2	6928.2	6928.2	6928.2	6928.2	6928.2
2.5°	7466.0	7539.1	7466.0	7434.7	7403.3	7408.5	7325.0	7340.7	7241.5	7111.0
5°	7700.9	7800.1	7721.8	7685.3	7680.0	7580.8	7539.1	7439.9	7319.8	7116.2
7.5°	7680.0	7659.2	7695.7	7664.4	7596.5	7596.5	7549.5	7408.5	7288.5	7058.7
10°	7523.4	7586.1	7554.7	7518.2	7533.9	7539.1	7450.3	7351.1	7314.6	7084.8
12.5°	7507.7	7403.3	7518.2	7523.4	7455.5	7450.3	7439.9	7413.8	7298.9	7090.1
15°	7455.5	7413.8	7528.6	7533.9	7549.5	7533.9	7549.5	7528.6	7413.8	7293.7
17.5°	7497.3	7450.3	7612.2	7690.5	7653.9	7727.0	7700.9	7606.9	7507.7	7366.8
20°	7507.7	7575.6	7753.1	7784.5	7899.3	7779.2	7774.0	7674.8	7612.2	7460.8
22.5°	7700.9	7732.2	7951.5	8019.4	8024.6	8009.0	7878.4	7763.6	7737.5	7549.5
25°	7993.3	8102.9	8202.1	8243.9	8259.6	8186.5	8050.7	7904.5	7841.9	7721.8
27.5°	8510.2	8442.3	8531.1	8593.7	8416.2	8442.3	8270.0	8144.7	8055.9	7951.5
30°	8969.6	8907.0	8912.2	8901.7	8750.3	8609.4	8562.4	8343.1	8233.5	8275.2
32.5°	9382.1	9246.3	9361.2	9309.0	9027.0	8985.3	8948.7	8672.0	8692.9	8886.1
35°	9763.2	9716.2	9810.2	9716.2	9528.3	9517.8	9481.3	9241.1	9356.0	9632.7
37.5°	10113.0	10128.7	10243.5	10196.5	10212.2	10222.6	10201.8	9945.9	10274.9	10896.2
40°	10436.7	10415.8	10697.8	10843.9	10875.3	10990.1	10990.1	10927.5	11433.9	12133.5
42.5°	10781.3	10833.5	11199.0	11444.4	11741.9	11841.1	11976.9	12008.2	12791.4	13590.2
45°	11345.2	11256.4	11721.1	12300.6	12561.6	12911.4	13120.3	13297.8	14242.8	15339.2
47.5°	12060.4	11882.9	12290.1	13130.7	13736.4	14023.5	14399.4	14634.4	15558.5	16691.4
50°	12854.0	12671.3	12869.7	14028.7	14733.6	15255.7	15736.0	16033.6	17150.9	18205.5
52.5°	13752.0	13584.9	13616.3	14963.3	16002.3	16383.4	17015.1	17458.9	18571.0	19119.2
55°	14707.5	14665.7	14566.5	15876.9	17114.3	17970.6	18351.7	18884.2	20027.6	19615.2
57.5°	15668.1	15537.6	15678.6	17088.2	18899.9	19411.5	19938.9	20257.3	20836.9	20048.5
60°	16571.3	16581.8	16780.2	18403.9	20419.2	21144.9	21620.0	21426.8	21667.0	20236.5
62.5°	17333.6	17312.7	17813.9	19881.4	22429.3	22920.0	23275.1	22413.6	22053.3	20419.2
65°	18017.5	18252.5	19040.9	21640.9	24319.2	24883.1	24669.1	23348.1	22429.3	19881.4
67.5°	18534.4	18884.2	20252.1	23295.9	26052.6	26449.4	26151.8	24058.2	21985.5	17772.2
70°	18837.2	19192.3	21118.8	24674.3	27436.2	27723.3	27023.7	23510.0	19395.9	12869.7
71°	18743.3	19176.6	21285.9	24820.5	27765.1	27979.1	26893.2	22497.1	17443.2	10776.1
72.5°	17892.2	18299.5	20591.5	24716.0	27368.3	27237.8	25875.1	20064.2	13731.1	6870.8
75°	13146.4	13584.9	17673.0	21379.8	24428.9	23530.9	20941.3	14080.9	7163.2	2104.0
77.5°	6547.1	6620.2	10969.2	15521.9	17918.3	17025.6	14033.9	7852.3	2678.4	621.3
80°	3017.7	3038.6	4114.1	8040.3	10833.5	10196.5	7862.8	3874.0	1211.3	328.9
82.5°	2057.1	2088.4	2480.0	3331.0	4704.1	3967.9	3184.8	2480.0	694.4	198.4
85°	375.9	344.6	1388.8	1764.7	1816.9	1232.1	1101.6	2145.8	261.0	114.9
87.5°	0.0	5.2	193.2	720.5	647.4	287.2	375.9	522.1	26.1	36.5
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°
6928.2	0°	6928.2	6928.2	6928.2	6928.2	6928.2	6928.2	6928.2	6928.2	6928.2	6928.2
7006.5	2.5°	6917.8	6860.3	6667.2	6453.1	6259.9	6108.5	5915.4	5826.6	5685.6	5607.3
6990.9	5°	6818.6	6661.9	6327.8	5967.6	5565.5	5231.4	4860.7	4651.9	4411.7	4338.6
6844.7	7.5°	6651.5	6427.0	5936.2	5429.8	4813.7	4223.8	3769.5	3284.0	2986.4	2861.1
6735.0	10°	6547.1	6275.6	5607.3	4850.3	3988.8	3158.7	2521.7	2004.8	1733.4	1602.8
6761.1	12.5°	6547.1	6254.7	5341.0	4296.9	3153.5	2161.5	1561.1	1263.5	1174.7	1143.4
6876.0	15°	6531.4	6212.9	5085.2	3727.8	2333.8	1451.4	1164.3	1101.6	1091.2	1086.0
6985.6	17.5°	6609.7	6139.9	4824.2	3116.9	1649.8	1143.4	1070.3	1059.9	1049.4	1049.4
7053.5	20°	6667.2	6098.1	4510.9	2469.5	1232.1	1059.9	1028.5	1012.9	1007.6	1002.4
7069.2	22.5°	6620.2	6035.4	4124.6	1848.2	1075.5	1007.6	986.8	971.1	960.7	960.7
7231.0	25°	6708.9	5978.0	3738.2	1394.0	1007.6	960.7	939.8	929.3	924.1	918.9
7419.0	27.5°	6829.0	6004.1	3278.8	1122.5	950.2	913.7	892.8	882.3	877.1	866.7
7711.4	30°	6975.2	5998.9	2772.3	981.5	898.0	861.5	840.6	835.4	824.9	819.7
8149.9	32.5°	7225.8	6134.6	2250.2	908.4	840.6	809.2	788.4	783.1	777.9	772.7
8901.7	35°	7763.6	6301.7	1759.5	851.0	788.4	751.8	736.2	725.7	720.5	715.3
9778.9	37.5°	8426.6	6672.4	1341.8	798.8	736.2	699.6	683.9	678.7	657.8	652.6
10995.3	40°	9256.8	7069.2	1033.8	741.4	689.2	652.6	637.0	621.3	595.2	584.7
12237.9	42.5°	10290.5	7455.5	851.0	689.2	637.0	610.9	584.7	558.6	537.8	516.9
13480.5	45°	11324.3	7904.5	746.6	642.2	595.2	563.9	543.0	506.4	469.9	438.6
14655.2	47.5°	12185.7	8066.4	683.9	590.0	553.4	527.3	496.0	449.0	396.8	365.5
15511.5	50°	12827.9	7972.4	621.3	537.8	506.4	480.3	438.6	381.1	328.9	297.6
15814.3	52.5°	12953.2	7560.0	563.9	496.0	459.4	428.1	381.1	318.5	261.0	229.7
16143.2	55°	12864.5	6876.0	516.9	459.4	417.7	370.7	318.5	255.8	203.6	172.3
16017.9	57.5°	12681.7	6066.8	464.7	412.5	365.5	318.5	261.0	208.8	151.4	120.1
15730.8	60°	12060.4	4965.1	412.5	360.2	313.3	271.5	214.1	151.4	104.4	78.3
15229.6	62.5°	11193.7	3816.5	360.2	308.0	271.5	224.5	167.1	109.6	62.7	41.8
13819.9	65°	9611.8	2673.1	302.8	255.8	224.5	182.7	125.3	67.9	36.5	15.7
11256.4	67.5°	7304.1	1655.0	250.6	214.1	193.2	146.2	88.8	41.8	15.7	5.2
7022.2	70°	4192.4	861.5	198.4	172.3	151.4	109.6	62.7	20.9	10.4	0.0
5121.8	71°	2929.0	637.0	177.5	151.4	135.7	99.2	52.2	15.7	5.2	0.0
2647.0	72.5°	1467.1	422.9	151.4	125.3	109.6	78.3	41.8	15.7	5.2	0.0
772.7	75°	522.1	271.5	104.4	83.5	78.3	57.4	26.1	10.4	5.2	0.0
386.4	77.5°	360.2	219.3	73.1	52.2	52.2	36.5	15.7	5.2	5.2	0.0
302.8	80°	328.9	120.1	47.0	31.3	26.1	20.9	10.4	5.2	0.0	0.0
297.6	82.5°	328.9	88.8	26.1	20.9	15.7	10.4	5.2	0.0	0.0	0.0
261.0	85°	229.7	47.0	15.7	15.7	10.4	5.2	0.0	0.0	0.0	0.0
47.0	87.5°	36.5	15.7	10.4	5.2	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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180°
6928.2
5602.1
4323.0
2814.1
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1080.7
1039.0
1012.9
965.9
908.4
877.1
824.9
767.5
710.1
647.4
574.3
506.4
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360.2
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