

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: P575403

Luminaire Tested: **EPH-VN-03-730-U-SL3-HSS**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575403
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-03-730-U-SL3-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL3 distribution lens and House Side Shield
Light Source: (48) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

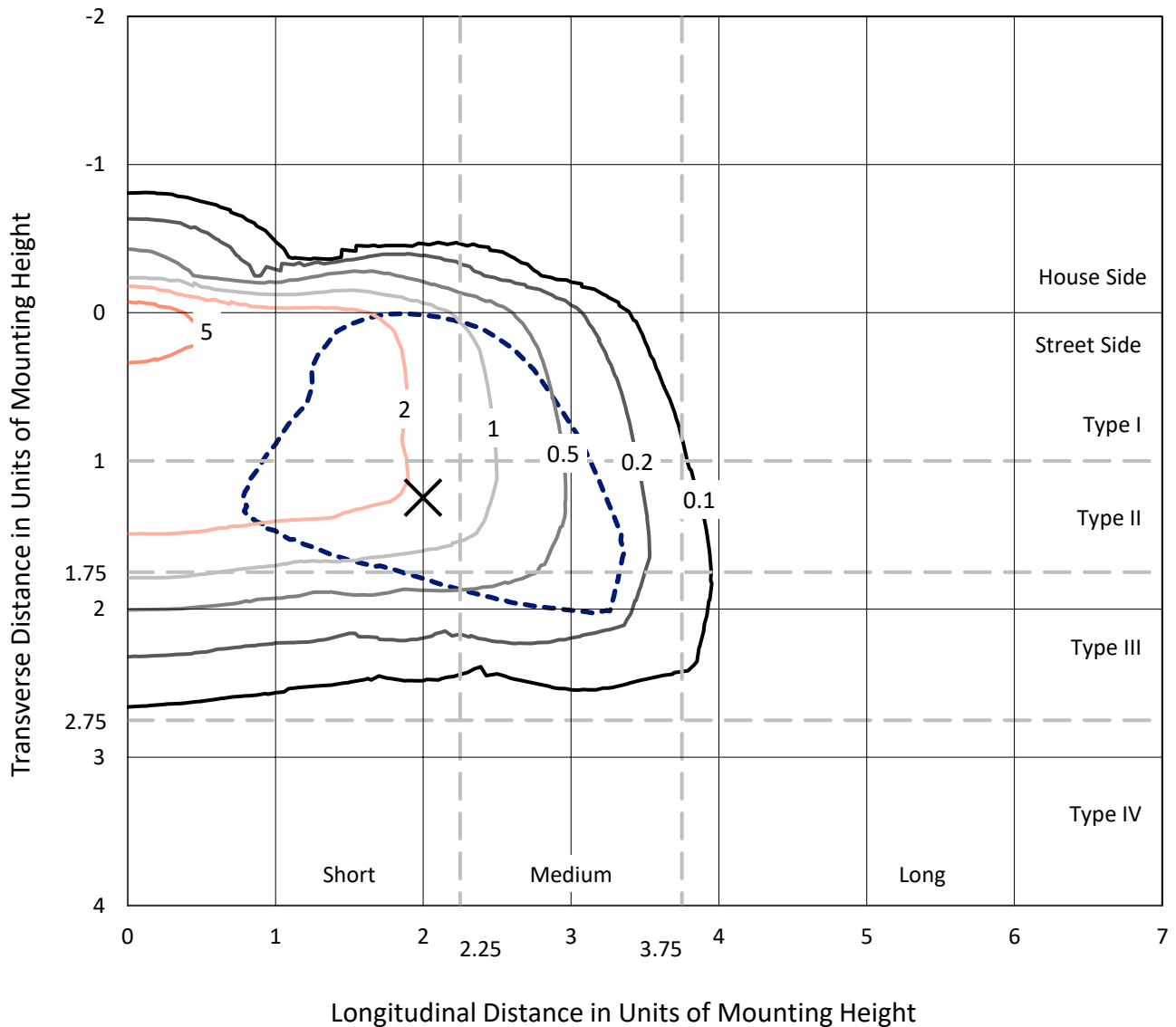
Lumens per Lamp: N/A
Luminaire Lumens: 17749.5 lumens
Efficiency: N/A
Efficacy: 96.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

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

REPORT NUMBER: P575403
 CATALOG NUMBER: EPH-VN-03-730-U-SL3-HSS

Iso-Footcandle Lines of Horizontal Illumination

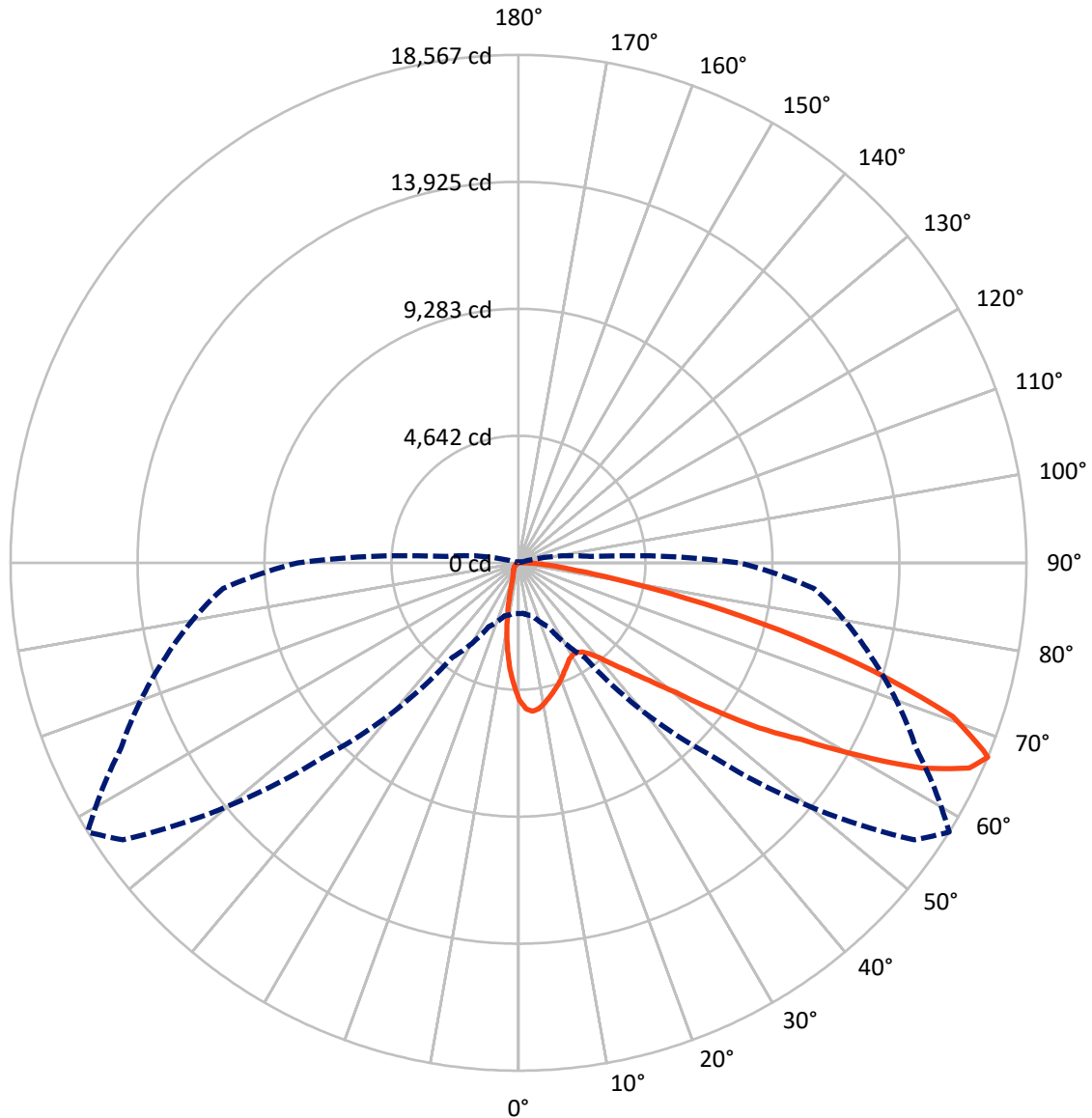
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc
 Type III - Short - N/A

REPORT NUMBER: P575403
CATALOG NUMBER: EPH-VN-03-730-U-SL3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

REPORT NUMBER: P575403
 CATALOG NUMBER: EPH-VN-03-730-U-SL3-HSS

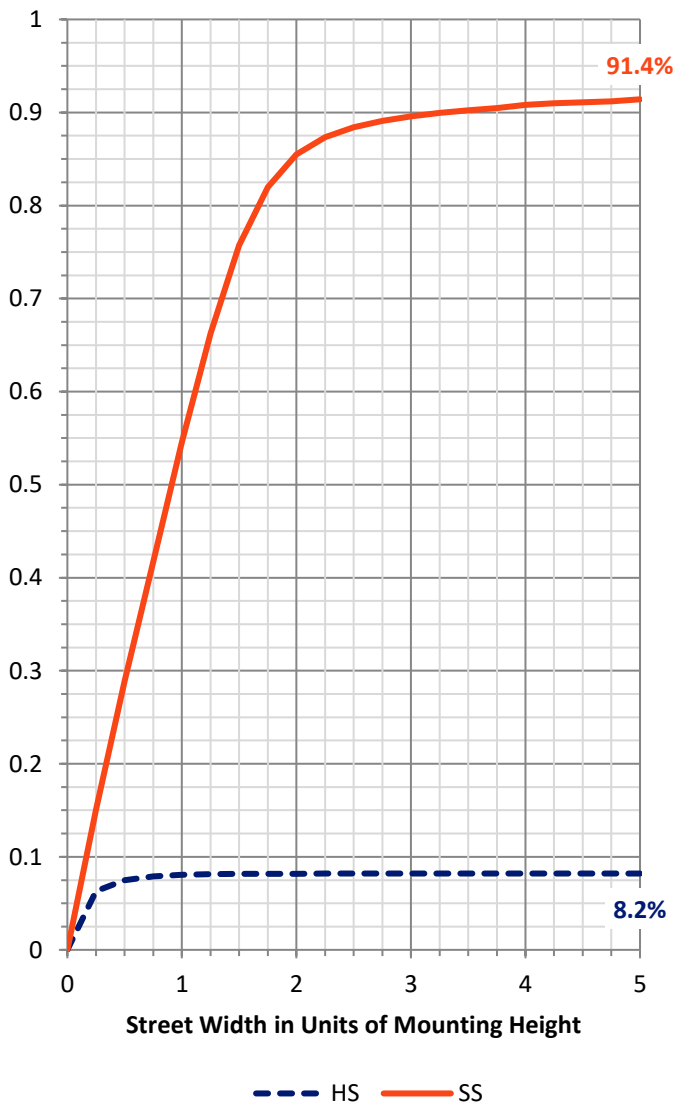
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1467.1	0.0	1467.1
	% Fixture	8.3	0.0	8.3
Street Side	Lumens	16282.4	0.0	16282.4
	% Fixture	91.7	0.0	91.7
Total	Lumens	17749.5	0.0	17749.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	399.0	2.2
10°-20°	827.6	4.7
20°-30°	1098.1	6.2
30°-40°	1521.6	8.6
40°-50°	2482.7	14.0
50°-60°	4363.8	24.6
60°-70°	4833.3	27.2
70°-80°	2002.9	11.3
80°-90°	220.5	1.2
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°	17749.5	100.0
0°-180°	17749.5	100.0

Coefficient of Utilization



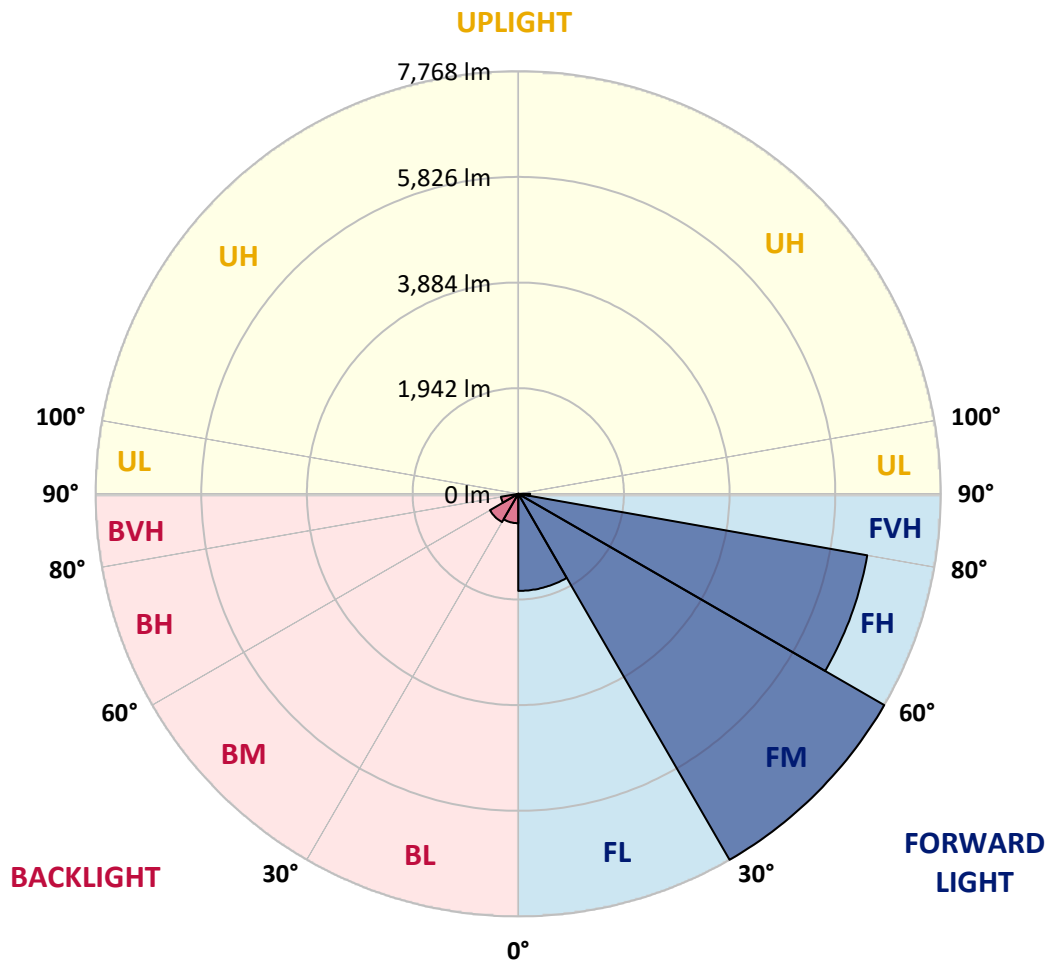
REPORT NUMBER: P575403
 CATALOG NUMBER: EPH-VN-03-730-U-SL3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1784.3	10.1			
FM (30°-60°)	7767.5	43.8			
FH (60°-80°)	6513.7	36.7			G3/7500
FVH (80°-90°)	216.9	1.2			G2/225
BL (0°-30°)	540.3	3.0	B2/1000		
BM (30°-60°)	600.6	3.4	B1/1000		
BH (60°-80°)	322.6	1.8	B1/500		G1/500
BVH (80°-90°)	3.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short





REPORT NUMBER: P575403
 CATALOG NUMBER: EPH-VN-03-730-U-SL3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°
0°	5028.7	5028.7	5028.7	5028.7	5028.7	5028.7	5028.7	5028.7	5028.7	5028.7
2.5°	5471.7	5490.5	5507.0	5476.4	5502.3	5464.6	5368.0	5346.8	5330.3	5186.6
5°	5469.3	5448.1	5464.6	5478.8	5443.4	5471.7	5448.1	5450.5	5386.9	5257.3
7.5°	5104.1	5094.7	5104.1	5172.4	5250.2	5311.4	5346.8	5382.1	5339.7	5146.5
10°	4611.6	4658.7	4684.6	4807.2	4927.3	5040.5	5151.2	5217.2	5205.4	5127.6
12.5°	4267.5	4253.4	4347.7	4427.8	4548.0	4776.5	4969.8	5031.0	5101.7	4993.3
15°	3949.4	3911.7	3968.3	4107.3	4312.3	4493.8	4764.8	4856.7	4946.2	4974.5
17.5°	3645.4	3664.3	3723.2	3848.1	4041.3	4295.8	4550.3	4682.3	4896.7	4859.0
20°	3499.3	3539.4	3560.6	3624.2	3758.5	4013.0	4392.4	4498.5	4727.0	4856.7
22.5°	3506.4	3506.4	3456.9	3494.6	3617.2	3815.1	4178.0	4295.8	4658.7	4734.1
25°	3581.8	3534.7	3537.0	3492.3	3544.1	3652.5	3984.8	4128.5	4519.7	4745.9
27.5°	3638.4	3628.9	3614.8	3603.0	3537.0	3553.5	3857.5	3975.3	4465.5	4731.8
30°	3843.4	3801.0	3786.8	3760.9	3673.7	3593.6	3756.2	3904.6	4423.1	4764.8
32.5°	4015.4	4022.5	4034.3	3958.8	3883.4	3685.5	3784.5	3902.3	4392.4	4840.2
35°	4232.2	4262.8	4267.5	4244.0	4163.9	3968.3	3902.3	4003.6	4444.3	4974.5
37.5°	4562.1	4529.1	4618.7	4628.1	4571.5	4312.3	4175.6	4215.7	4597.4	5188.9
40°	4776.5	4816.6	4983.9	5087.6	4991.0	4755.3	4571.5	4564.5	4819.0	5525.9
42.5°	5014.5	5104.1	5287.9	5511.7	5500.0	5280.8	5094.7	5064.0	5212.5	6013.7
45°	5339.7	5419.8	5676.7	6013.7	6197.5	6011.3	5730.9	5669.6	5690.8	6678.2
47.5°	5879.4	5858.1	6228.1	6560.4	6862.0	6718.3	6598.1	6419.0	6402.5	7460.5
50°	6489.7	6485.0	6814.9	7191.9	7540.7	7821.1	7620.8	7425.2	7429.9	8523.3
52.5°	7069.4	7161.3	7517.1	7891.8	8490.3	8791.9	8985.2	8907.4	8532.7	9472.9
55°	7375.7	7455.8	7809.3	8455.0	9399.9	10175.2	10698.3	10632.3	9908.9	10542.8
57.5°	7085.9	7140.1	7618.4	8464.4	10036.1	11765.8	12267.7	12185.2	11332.2	11360.5
60°	5872.3	5957.1	6668.8	7660.8	9788.7	12991.1	14428.6	14303.7	12628.2	12395.0
62.5°	4067.2	4123.8	4708.2	5943.0	8615.2	13417.7	16469.3	16537.6	13995.0	13200.9
65°	2634.5	2629.8	2964.4	3801.0	6105.6	12126.3	17675.8	18099.9	15314.6	13323.4
67°	1861.6	1854.5	2012.4	2578.0	4227.5	9991.4	17654.6	18566.5	16031.0	13358.7
67.5°	1717.9	1710.8	1861.6	2370.6	3815.1	9291.5	17390.6	18326.2	16283.1	13309.3
70°	1333.8	1314.9	1371.5	1633.0	2222.1	6009.0	14883.4	16834.5	15760.0	12074.5
72.5°	963.8	985.0	1074.5	1340.8	1743.8	3233.1	11344.0	13613.2	13163.2	9100.6
75°	671.6	690.4	834.2	1093.4	1600.0	1960.6	7670.3	9873.5	9169.0	5024.0
77.5°	351.1	374.7	532.6	874.2	1453.9	1517.6	4583.3	6261.1	4859.0	1788.5
80°	162.6	174.4	266.3	619.7	1215.9	1333.8	2672.2	3482.8	1944.1	400.6
82.5°	70.7	77.8	122.5	355.8	862.5	1166.4	1654.2	1826.3	704.6	129.6
85°	14.1	16.5	47.1	188.5	417.1	706.9	1161.7	1084.0	353.5	63.6
87.5°	0.0	0.0	11.8	54.2	113.1	209.7	492.5	492.5	108.4	33.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P575403

CATALOG NUMBER: EPH-VN-03-730-U-SL3-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
5028.7	0°	5028.7	5028.7	5028.7	5028.7	5028.7	5028.7	5028.7	5028.7	5028.7	5028.7
5104.1	2.5°	5031.0	4946.2	4760.0	4588.0	4465.5	4326.5	4142.6	4060.2	4029.5	3987.1
5026.3	5°	4899.1	4795.4	4477.3	4156.8	3805.7	3539.4	3256.6	3091.7	2966.8	2889.0
4922.6	7.5°	4712.9	4500.8	4072.0	3558.2	3103.5	2707.6	2278.7	1988.8	1802.7	1727.3
4809.5	10°	4564.5	4288.7	3636.0	2997.4	2391.8	1812.1	1329.0	1074.5	881.3	808.3
4661.1	12.5°	4371.2	4041.3	3228.3	2424.8	1663.7	1079.3	735.2	638.6	584.4	575.0
4580.9	15°	4211.0	3817.5	2841.9	1878.1	1076.9	673.9	572.6	549.1	534.9	530.2
4460.8	17.5°	4102.6	3577.1	2446.0	1366.7	709.3	551.4	527.8	513.7	506.6	504.3
4342.9	20°	3888.2	3374.4	2054.8	956.7	553.8	509.0	490.1	478.4	471.3	468.9
4236.9	22.5°	3765.6	3117.6	1663.7	666.9	492.5	461.9	447.7	438.3	426.5	419.4
4180.4	25°	3643.1	2929.1	1314.9	518.4	447.7	426.5	405.3	393.5	374.7	365.3
4093.2	27.5°	3499.3	2742.9	1013.3	450.1	403.0	381.7	360.5	341.7	318.1	308.7
4043.7	30°	3416.9	2561.5	763.5	403.0	370.0	341.7	315.8	292.2	266.3	249.8
4093.2	32.5°	3374.4	2396.5	572.6	367.6	334.6	304.0	271.0	242.7	219.2	205.0
4097.9	35°	3322.6	2236.3	450.1	334.6	301.6	268.6	235.6	207.4	183.8	172.0
4277.0	37.5°	3376.8	2142.0	374.7	308.7	275.7	238.0	202.7	174.4	155.5	143.7
4498.5	40°	3525.3	2064.3	325.2	285.1	249.8	209.7	176.7	148.5	132.0	122.5
4849.6	42.5°	3753.8	2064.3	294.6	261.6	226.2	183.8	150.8	129.6	113.1	103.7
5448.1	45°	4168.6	2127.9	268.6	238.0	197.9	157.9	129.6	108.4	91.9	82.5
6275.2	47.5°	4750.6	2274.0	247.4	216.8	176.7	139.0	113.1	91.9	75.4	66.0
7248.5	50°	5533.0	2606.2	226.2	190.9	157.9	120.2	94.3	73.1	58.9	49.5
8290.0	52.5°	6508.5	3077.5	205.0	176.7	134.3	101.3	75.4	58.9	44.8	37.7
9317.4	55°	7540.7	3654.9	179.1	157.9	115.5	84.8	61.3	44.8	33.0	28.3
10559.3	57.5°	8579.9	4100.2	157.9	136.7	94.3	68.3	49.5	35.3	23.6	18.9
11358.1	60°	9131.3	4142.6	136.7	113.1	75.4	54.2	37.7	25.9	16.5	11.8
11596.1	62.5°	9216.1	3765.6	117.8	91.9	61.3	42.4	25.9	18.9	9.4	4.7
11523.1	65°	8780.2	3138.8	101.3	73.1	47.1	30.6	18.9	11.8	4.7	2.4
10846.8	67°	8073.2	2629.8	87.2	61.3	37.7	23.6	14.1	7.1	2.4	0.0
10549.8	67.5°	7799.9	2488.4	82.5	56.6	35.3	21.2	11.8	7.1	2.4	0.0
8424.3	70°	6053.7	1776.8	61.3	40.1	25.9	16.5	9.4	4.7	0.0	0.0
5353.9	72.5°	3709.1	1039.2	47.1	28.3	18.9	11.8	7.1	2.4	0.0	0.0
2281.0	75°	1555.3	358.2	40.1	21.2	14.1	7.1	4.7	2.4	0.0	0.0
629.2	77.5°	405.3	134.3	28.3	14.1	9.4	7.1	4.7	2.4	0.0	0.0
216.8	80°	165.0	61.3	18.9	9.4	9.4	7.1	4.7	2.4	0.0	0.0
134.3	82.5°	108.4	28.3	11.8	9.4	7.1	4.7	2.4	0.0	0.0	0.0
106.0	85°	82.5	16.5	7.1	7.1	4.7	2.4	0.0	0.0	0.0	0.0
40.1	87.5°	35.3	9.4	7.1	4.7	4.7	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

(END O



180°
5028.7
3923.5
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