

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: P574853

Luminaire Tested: **EPH-VN-07-735-U-5NQ**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P574853
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-5NQ
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (112) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

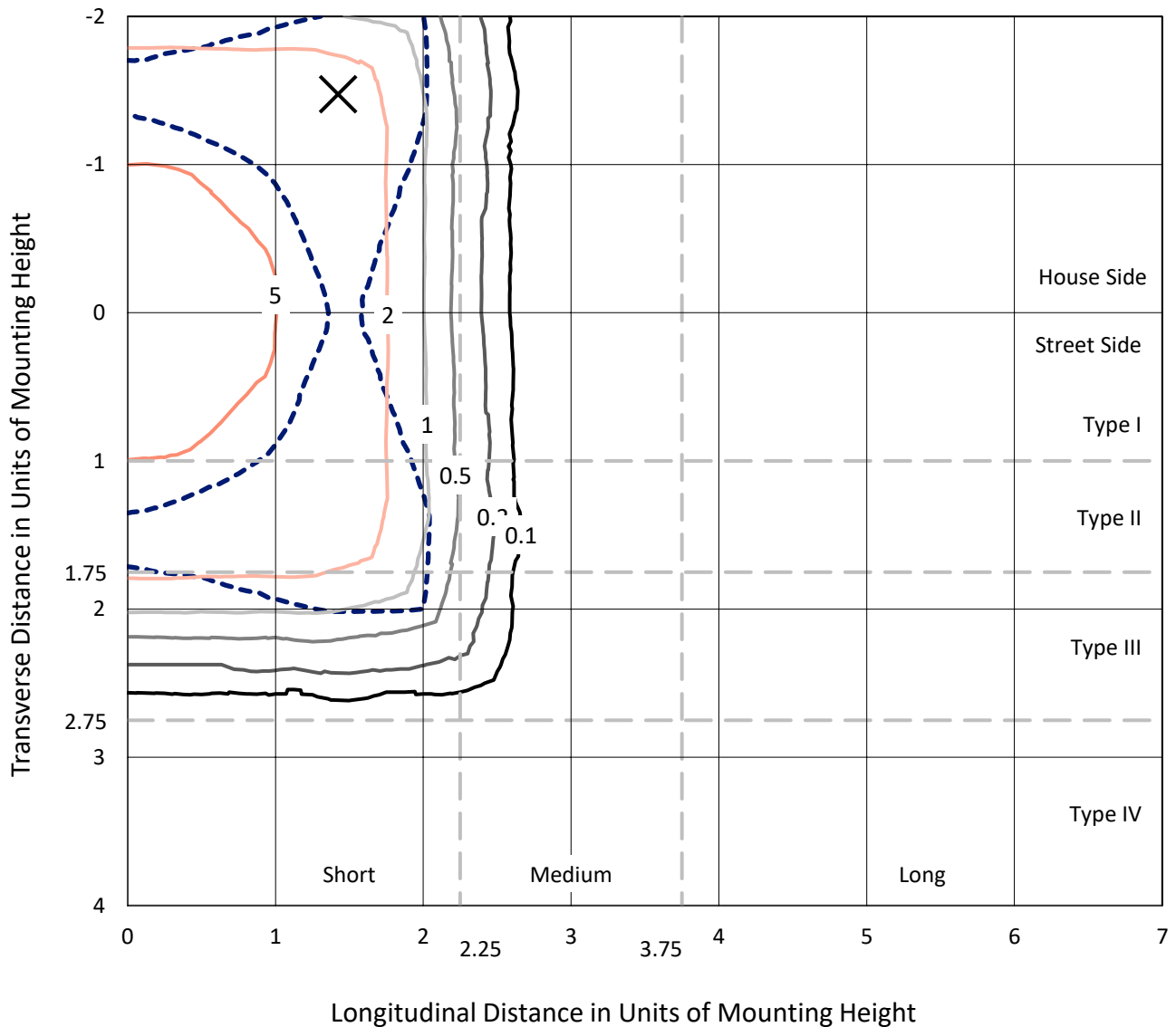
Lumens per Lamp: N/A
Luminaire Lumens: 55531.8 lumens
Efficiency: N/A
Efficacy: 104.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

Input Watts (W): 532.7
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

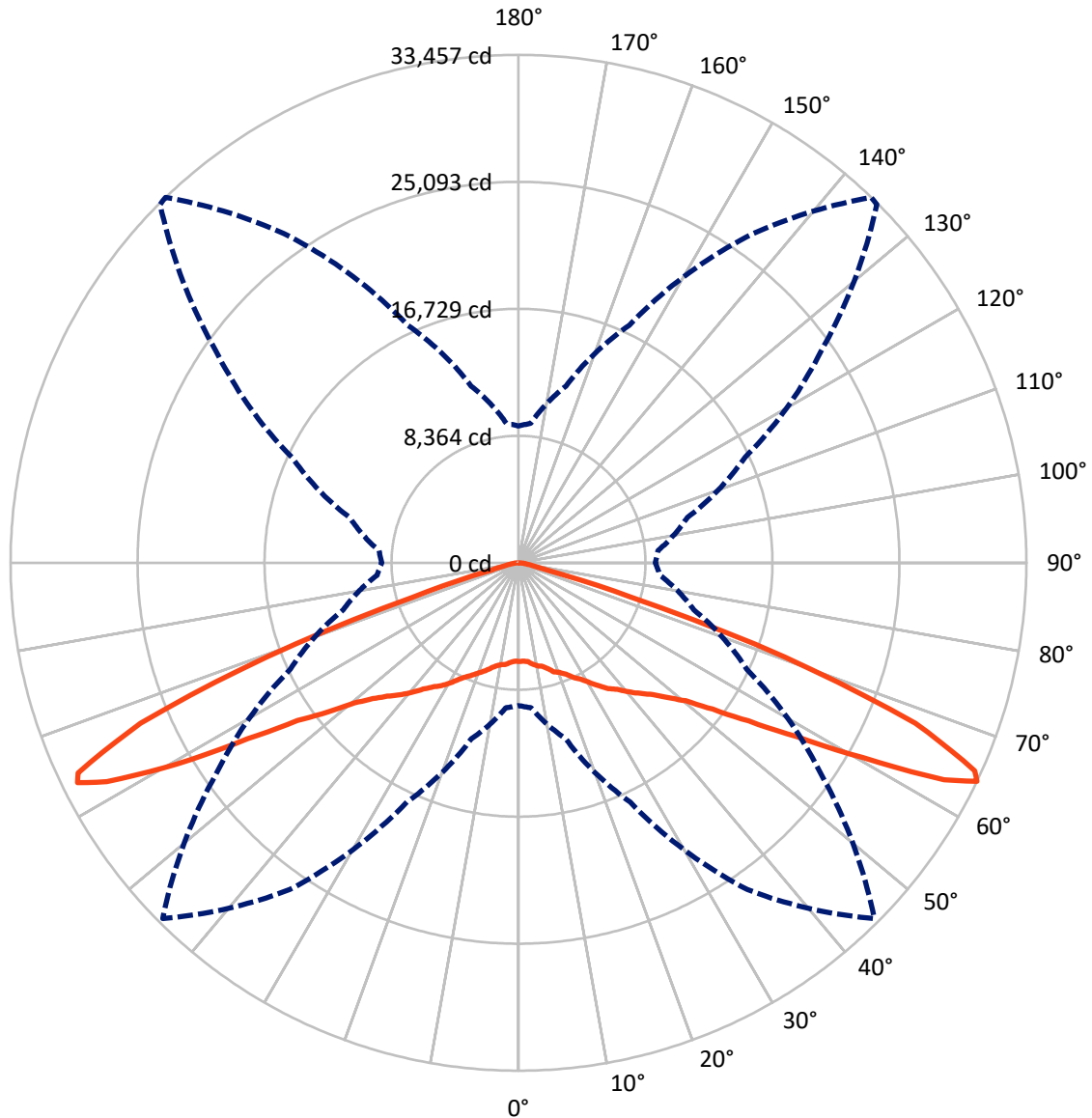
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 136-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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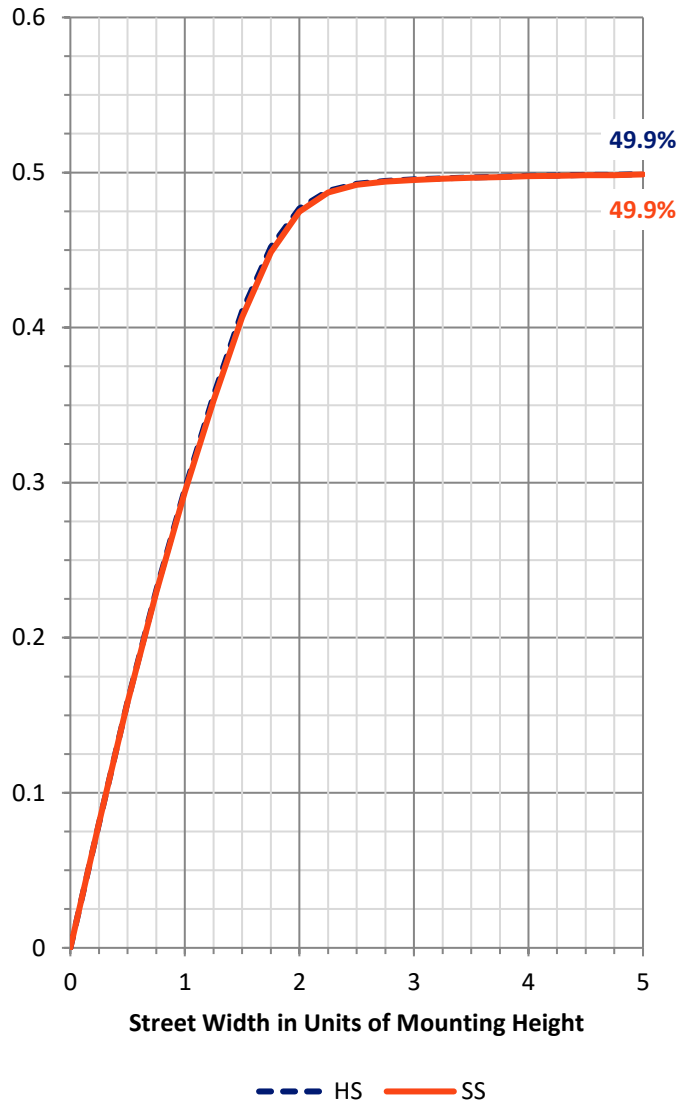
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	27792.4	0.0	27792.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	27739.4	0.0	27739.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	55531.8	0.0	55531.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	638.8	1.2
10°-20°	2059.0	3.7
20°-30°	3869.6	7.0
30°-40°	6381.7	11.5
40°-50°	9980.5	18.0
50°-60°	16126.1	29.0
60°-70°	14520.5	26.1
70°-80°	1720.0	3.1
80°-90°	235.4	0.4
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°	55531.8	100.0
0°-180°	55531.8	100.0

Coefficient of Utilization



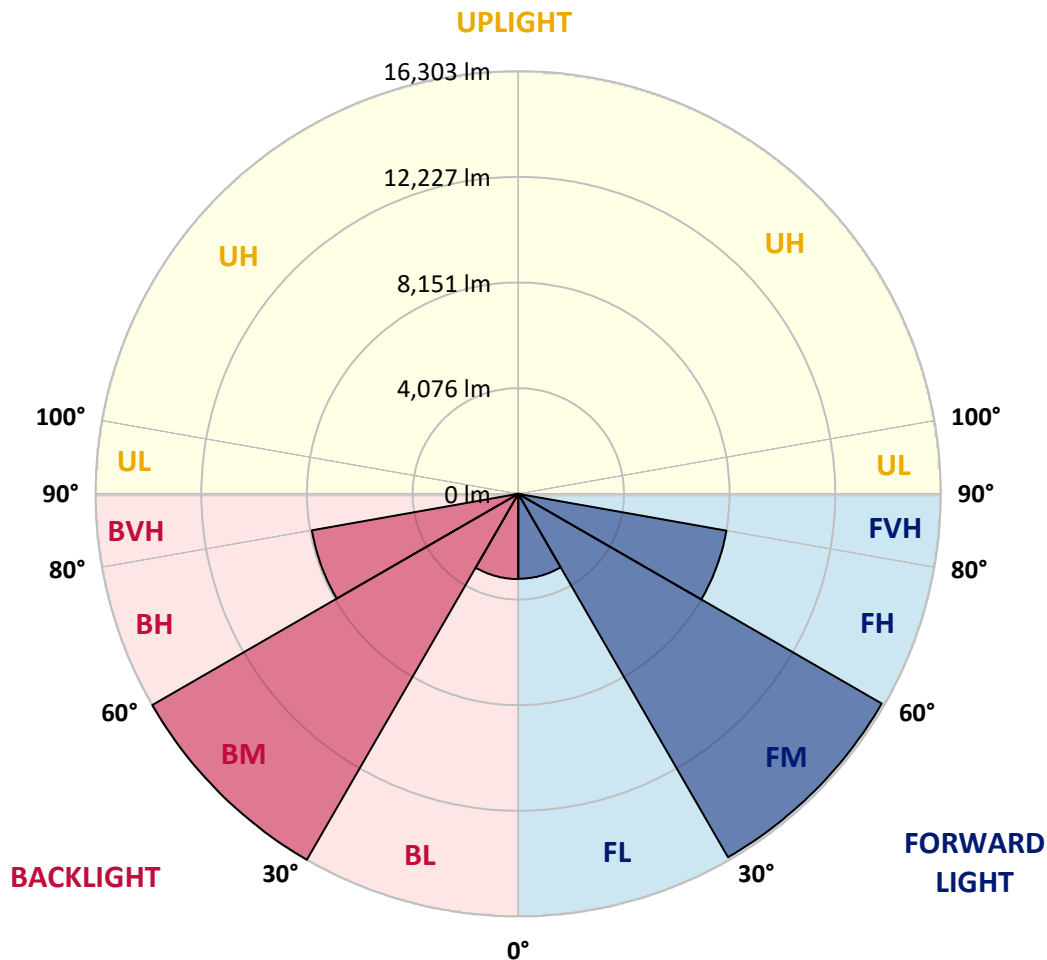
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3277.4	5.9			
FM (30°-60°)	16185.8	29.1			
FH (60°-80°)	8155.5	14.7			G4/12000
FVH (80°-90°)	120.8	0.2			G2/225
BL (0°-30°)	3290.0	5.9	B4/5000		
BM (30°-60°)	16302.6	29.4	B5		
BH (60°-80°)	8085.1	14.6	B5		G4/12000
BVH (80°-90°)	114.7	0.2			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6501.6	6501.6	6501.6	6501.6	6501.6	6501.6	6501.6	6501.6	6501.6	6501.6
2.5°	6425.2	6438.0	6552.6	6508.0	6546.2	6476.2	6527.1	6635.4	6508.0	6603.5
5°	6495.3	6514.4	6514.4	6558.9	6584.4	6571.7	6603.5	6558.9	6679.9	6629.0
7.5°	6750.0	6718.1	6667.2	6705.4	6711.8	6743.6	6775.5	6832.8	6813.7	6769.1
10°	6794.6	6769.1	6845.5	6851.9	6820.0	6794.6	6826.4	6826.4	6883.7	6896.4
12.5°	6871.0	6896.4	6890.1	6941.0	6947.4	6928.3	6979.2	7074.7	7049.3	7068.4
15°	7163.9	7132.1	7125.7	7176.6	7259.4	7138.4	7227.6	7221.2	7195.7	7233.9
17.5°	7418.6	7316.7	7361.3	7444.1	7412.2	7437.7	7552.3	7450.5	7475.9	7431.3
20°	7641.5	7558.7	7565.1	7596.9	7596.9	7673.3	7717.9	7679.7	7654.2	7647.9
22.5°	7889.8	7794.3	7800.7	7934.4	7979.0	7953.5	7921.7	7985.4	7998.1	7947.1
25°	8074.5	8176.4	8208.2	8271.9	8176.4	8246.4	8221.0	8342.0	8418.4	8316.5
27.5°	8558.5	8513.9	8596.7	8590.3	8666.7	8596.7	8641.2	8679.5	8711.3	8717.7
30°	8991.5	9010.6	8927.8	9150.7	8972.4	9087.0	9163.4	9182.5	9220.7	9220.7
32.5°	9450.0	9411.8	9545.5	9494.5	9462.7	9551.9	9469.1	9730.2	9577.3	9666.5
35°	9965.8	9965.8	10016.7	10156.8	9965.8	9908.5	10061.3	10169.5	10169.5	10010.3
37.5°	10545.3	10494.3	10558.0	10736.3	10589.8	10398.8	10679.0	10723.6	10691.7	10647.1
40°	10952.8	10940.1	11067.4	11303.0	11092.9	11054.7	11105.6	11226.6	11264.8	11309.4
42.5°	11640.5	11697.8	12067.2	12009.9	11837.9	11704.2	11691.5	12143.6	12035.3	11920.7
45°	12659.4	12608.5	12799.5	12805.9	12583.0	12290.1	12353.7	12767.7	12952.3	12697.6
47.5°	13468.1	13493.6	13627.3	13901.1	13385.3	13079.7	13315.3	13983.9	13926.6	13831.1
50°	14550.7	14665.3	15085.6	14990.1	14531.6	14155.9	14671.7	15302.1	15372.1	15021.9
52.5°	16047.1	16225.4	16454.7	16531.1	16091.7	15958.0	15989.8	16773.1	16601.1	16263.6
55°	17358.9	17441.7	17862.0	18492.4	18460.6	17817.4	18186.7	18479.7	17779.2	17085.1
57.5°	17919.3	17957.5	19129.2	20390.0	21141.5	21287.9	20867.6	19880.6	18212.2	16875.0
60°	16524.7	16887.7	18301.4	21147.8	24580.1	26274.0	23478.5	20039.8	17199.7	15575.9
62.5°	13207.0	13226.1	15327.6	19645.0	26719.7	31158.2	24478.2	18543.3	14499.7	12659.4
64°	9405.4	9583.7	11997.1	17390.8	26274.0	33145.0	24357.2	16588.4	11952.6	9341.7
65°	6750.0	6998.3	9329.0	15098.3	25229.6	32909.3	23994.3	14907.3	9666.5	7132.1
67.5°	2483.5	2585.4	3661.5	7552.3	18116.7	28044.3	19014.6	8195.5	4247.4	3024.8
70°	1152.6	1159.0	1356.4	2496.2	7921.7	18753.5	9074.3	3075.7	1598.3	1267.2
72.5°	846.9	866.0	948.8	1152.6	2330.7	7940.8	2980.2	1260.8	936.1	827.8
75°	687.7	700.5	725.9	834.2	1076.2	2126.9	1209.9	872.4	745.0	668.6
77.5°	528.5	528.5	585.8	636.8	713.2	993.4	802.4	694.1	605.0	528.5
80°	382.1	388.4	458.5	496.7	484.0	655.9	579.5	573.1	496.7	413.9
82.5°	222.9	242.0	331.1	356.6	343.9	388.4	420.3	445.8	388.4	286.6
85°	127.4	133.7	191.0	197.4	197.4	184.7	242.0	267.5	261.1	178.3
87.5°	38.2	38.2	50.9	50.9	57.3	63.7	95.5	114.6	127.4	89.2
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):

90°		95°	105°	115°	125°	135°	136°	145°	155°	165°	175°
6501.6	0°	6501.6	6501.6	6501.6	6501.6	6501.6	6501.6	6501.6	6501.6	6501.6	6501.6
6635.4	2.5°	6603.5	6508.0	6514.4	6539.8	6457.1	6488.9	6584.4	6514.4	6495.3	6457.1
6705.4	5°	6571.7	6673.6	6635.4	6648.1	6629.0	6539.8	6527.1	6584.4	6616.3	6558.9
6845.5	7.5°	6794.6	6750.0	6699.0	6718.1	6673.6	6750.0	6800.9	6686.3	6743.6	6711.8
6896.4	10°	6921.9	6839.1	6877.3	6864.6	6832.8	6909.2	6858.2	6845.5	6794.6	6724.5
7023.8	12.5°	6966.5	7062.0	7125.7	7017.4	7036.5	6998.3	6966.5	6966.5	6909.2	6890.1
7132.1	15°	7163.9	7246.7	7221.2	7304.0	7195.7	7233.9	7272.1	7176.6	7227.6	7087.5
7399.5	17.5°	7526.9	7456.8	7546.0	7437.7	7475.9	7552.3	7431.3	7431.3	7469.6	7393.1
7660.6	20°	7756.1	7724.3	7692.4	7698.8	7635.1	7705.2	7667.0	7647.9	7590.5	7616.0
8004.5	22.5°	7972.6	7928.0	7940.8	7959.9	8004.5	7972.6	7953.5	7972.6	7832.5	7959.9
8386.5	25°	8240.1	8361.1	8322.9	8405.6	8278.3	8361.1	8354.7	8233.7	8310.1	8259.2
8685.8	27.5°	8685.8	8622.1	8679.5	8577.6	8666.7	8673.1	8596.7	8800.4	8711.3	8698.6
9125.2	30°	9258.9	9214.4	9176.2	9118.8	9188.9	9131.6	9195.3	9214.4	9131.6	9067.9
9558.2	32.5°	9583.7	9704.7	9749.3	9609.2	9615.5	9647.4	9590.1	9532.8	9583.7	9602.8
10048.6	35°	10042.2	10156.8	10182.3	10074.0	10016.7	10175.9	10061.3	10252.3	10086.8	10093.1
10570.7	37.5°	10577.1	10608.9	10825.4	10704.5	10653.5	10577.1	10787.2	10761.8	10800.0	10494.3
11207.5	40°	11182.0	11296.7	11417.7	11112.0	11105.6	11175.7	11162.9	11309.4	11239.4	11194.8
11863.4	42.5°	11844.3	12086.3	12105.4	11901.6	11774.3	11761.5	11825.2	12150.0	12156.3	11863.4
12793.1	45°	12723.1	12990.5	12920.5	12525.7	12385.6	12366.5	12678.5	12818.6	12939.6	12825.0
13920.2	47.5°	13818.4	13996.7	13945.7	13582.7	13130.6	13258.0	13563.6	14003.0	13875.7	13722.8
14958.2	50°	14990.1	15200.2	15091.9	14729.0	14296.0	14296.0	14671.7	15232.0	15193.8	14894.5
16047.1	52.5°	16289.1	16594.8	16843.1	16327.3	15964.3	16021.7	16613.9	16817.6	16722.1	16512.0
17142.4	55°	17257.0	17842.9	18352.3	18377.8	18396.9	18390.5	18543.3	18747.1	18065.8	17728.3
16792.2	57.5°	17021.4	18129.4	19874.2	21058.7	21408.9	21593.6	21542.6	20600.2	18989.1	17881.1
15454.9	60°	15340.3	17148.8	19963.4	23765.0	26312.2	26057.5	25127.8	21402.5	18479.7	16607.5
12175.4	62.5°	12239.1	14416.9	18466.9	24529.2	31546.6	31470.2	26605.1	19549.5	15397.6	13028.7
9004.2	64°	9220.7	11513.2	16473.8	24331.8	33380.6	33457.0	26229.4	17269.8	12048.1	9220.7
6788.2	65°	7055.6	9182.5	14518.8	23924.2	32985.8	33030.3	25185.1	14913.6	9157.1	6546.2
2719.1	67.5°	2808.2	3909.9	7877.1	18142.2	28324.5	28203.5	17970.2	7214.8	3502.3	2279.7
1178.1	70°	1197.2	1490.1	2763.7	8596.7	18963.6	18613.4	7737.0	2343.4	1299.1	1088.9
808.7	72.5°	821.5	910.6	1184.4	2655.4	7883.5	7698.8	2203.3	1088.9	885.1	815.1
643.2	75°	662.3	725.9	859.7	1114.4	2088.7	2012.3	1038.0	802.4	706.8	655.9
509.4	77.5°	515.8	579.5	675.0	770.5	955.2	948.8	694.1	605.0	547.6	509.4
382.1	80°	407.5	471.2	534.9	547.6	624.1	611.3	471.2	477.6	445.8	369.3
261.1	82.5°	280.2	382.1	426.6	388.4	369.3	369.3	337.5	337.5	312.0	229.2
159.2	85°	171.9	254.7	267.5	229.2	171.9	171.9	184.7	178.3	165.6	121.0
82.8	87.5°	89.2	121.0	108.3	89.2	57.3	57.3	50.9	38.2	38.2	31.8
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



<u>180°</u>
6501.6
6438.0
6673.6
6648.1
6826.4
6909.2
7195.7
7297.6
7667.0
7781.6
8221.0
8673.1
8946.9
9583.7
9921.2
10647.1
11086.5
11736.1
12716.7
13595.5
14779.9
16416.5
17384.4
17995.7
16371.9
12882.3
8997.9
6304.2
2235.1
1082.5
815.1
649.5
496.7
363.0
210.1
114.6
31.8
0.0

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