

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: P574624

Luminaire Tested: **EPH-VN-06-750-U-T2**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P574624
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-06-750-U-T2
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (96) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

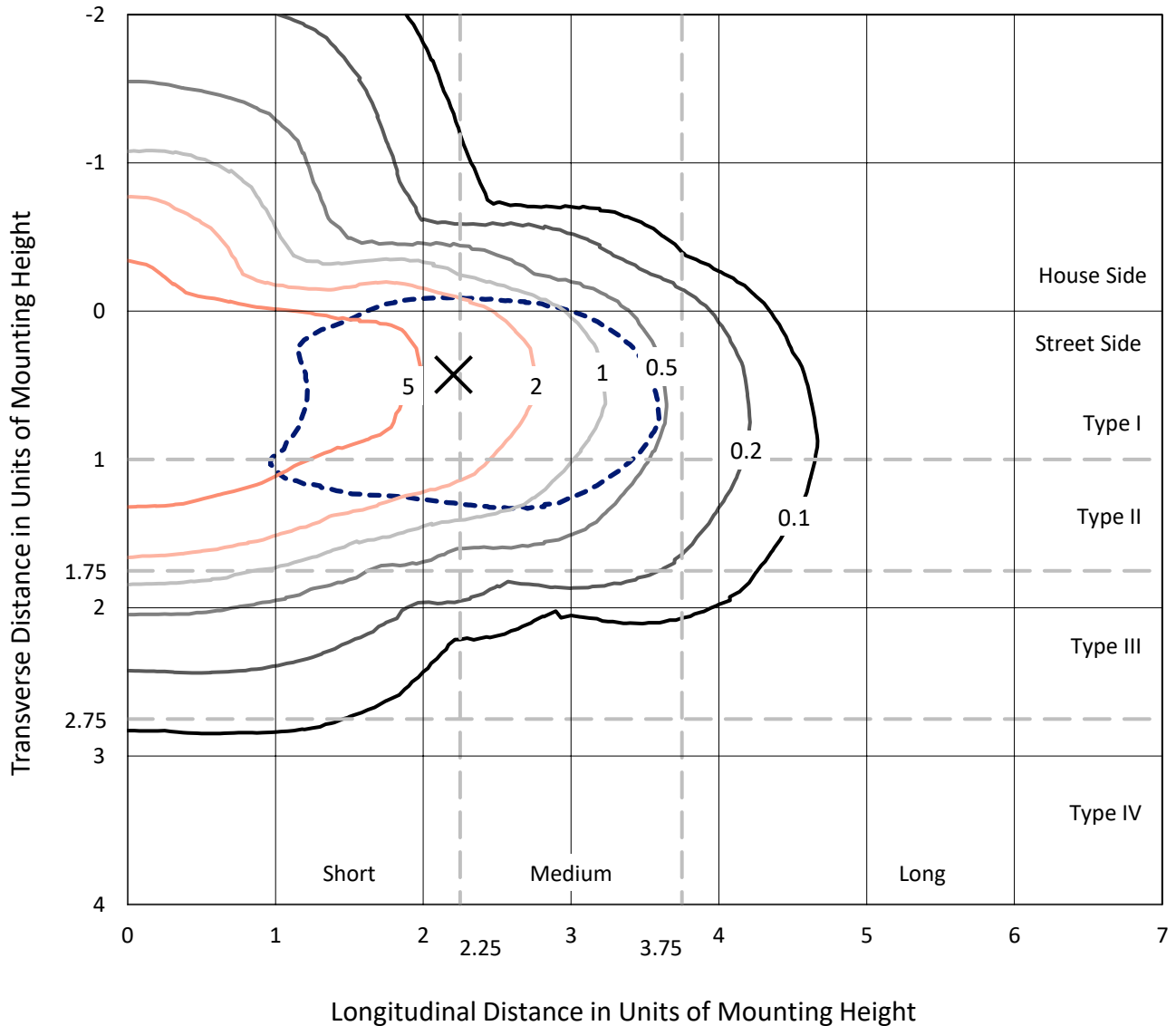
Lumens per Lamp: N/A
Luminaire Lumens: 54059.4 lumens
Efficiency: N/A
Efficacy: 116.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 464.2
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

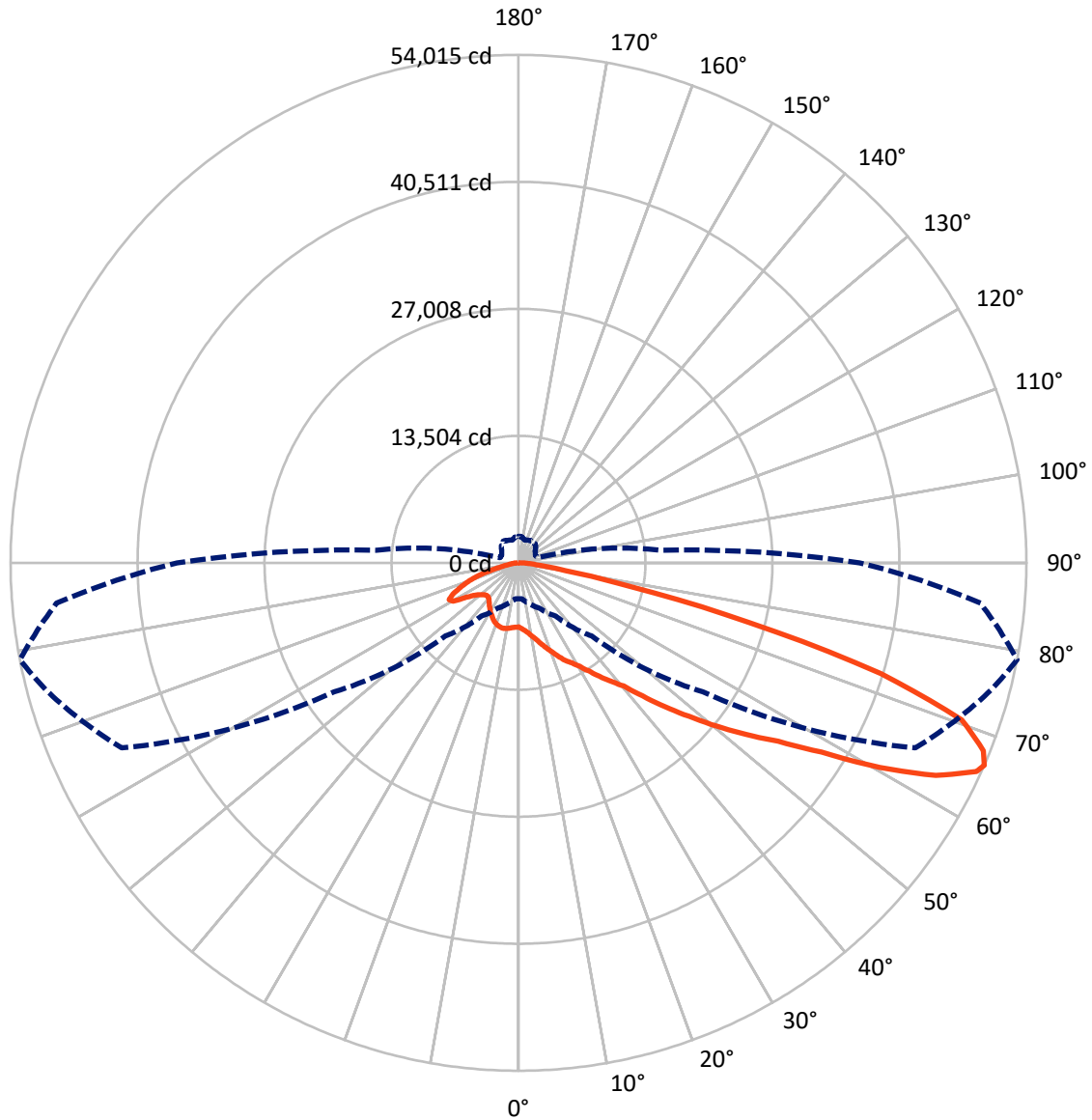
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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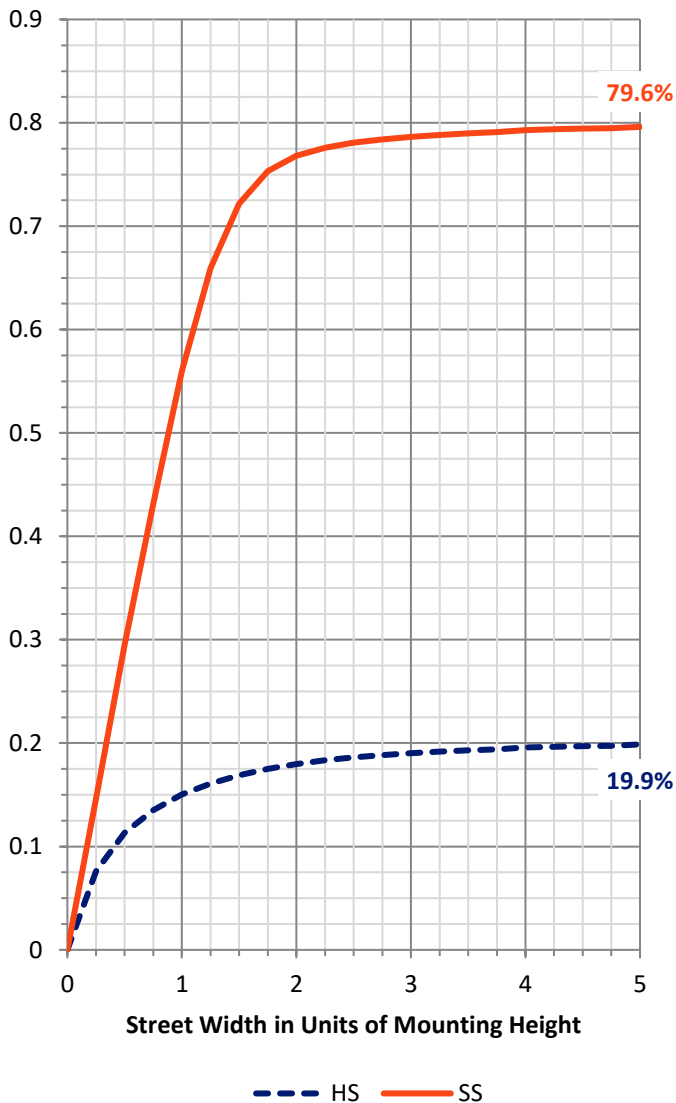
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10916.5	0.0	10916.5
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	43142.8	0.0	43142.8
	% Fixture	79.8	0.0	79.8
Total	Lumens	54059.4	0.0	54059.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	671.2	1.2
10°-20°	2072.7	3.8
20°-30°	3557.8	6.6
30°-40°	5496.1	10.2
40°-50°	8803.4	16.3
50°-60°	13144.1	24.3
60°-70°	13505.6	25.0
70°-80°	5986.9	11.1
80°-90°	821.4	1.5
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°	54059.4	100.0
0°-180°	54059.4	100.0

Coefficient of Utilization



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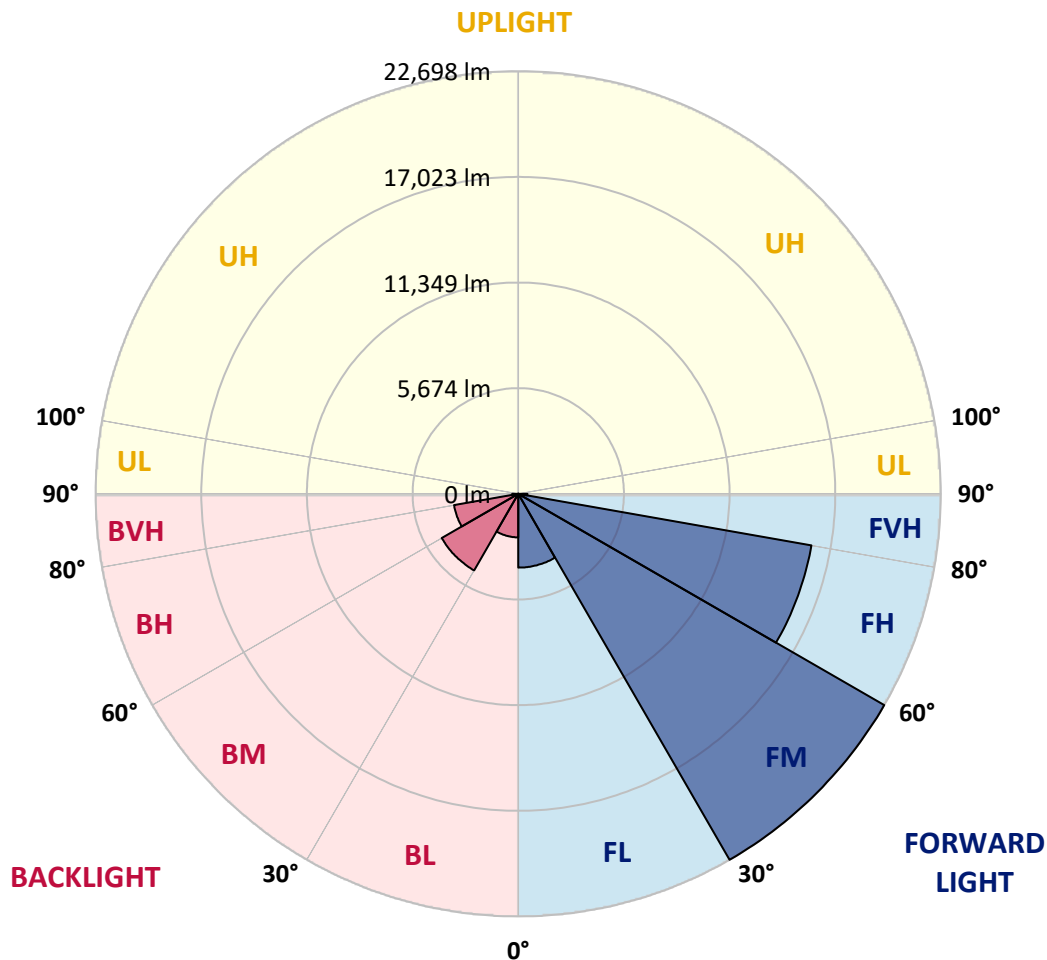
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3962.9	7.3			
FM (30°-60°)	22697.7	42.0			
FH (60°-80°)	15989.6	29.6			G5
FVH (80°-90°)	492.7	0.9			G3/500
BL (0°-30°)	2338.8	4.3	B3/2500		
BM (30°-60°)	4746.0	8.8	B3/5000		
BH (60°-80°)	3502.9	6.5	B4/5000		G4/5000
BVH (80°-90°)	328.8	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	6826.2	6826.2	6826.2	6826.2	6826.2	6826.2	6826.2	6826.2	6826.2	6826.2
2.5°	7260.3	7266.2	7266.2	7242.4	7248.4	7266.2	7200.8	7058.1	7058.1	7034.3
5°	7706.2	7676.5	7634.9	7640.8	7617.0	7617.0	7545.7	7408.9	7290.0	7242.4
7.5°	7765.7	7795.4	7789.5	7860.8	7896.5	7896.5	7932.2	7819.2	7640.8	7527.8
10°	7884.6	7807.3	7801.4	7967.9	8021.4	8146.2	8289.0	8229.5	8080.8	7920.3
12.5°	7956.0	8003.5	8003.5	8086.8	8211.7	8396.0	8645.7	8758.7	8526.8	8360.3
15°	8063.0	7997.6	8187.9	8259.2	8497.1	8627.9	8984.7	9276.0	9121.4	8919.2
17.5°	8110.6	8068.9	8176.0	8306.8	8711.1	8907.4	9341.4	9745.8	9614.9	9484.1
20°	8354.4	8348.4	8396.0	8503.0	8794.4	9180.9	9722.0	10280.9	10328.5	10090.6
22.5°	8949.0	8871.7	8871.7	8830.1	8954.9	9353.3	10084.7	10857.7	11071.8	10792.3
25°	9496.0	9603.1	9537.6	9347.4	9299.8	9507.9	10346.3	11470.2	11755.6	11493.9
27.5°	10197.7	10233.4	10346.3	10090.6	9763.6	9829.0	10631.7	11815.0	12403.7	12052.9
30°	11208.5	11143.1	11119.3	10833.9	10405.8	10316.6	10958.8	12320.5	13254.0	12760.5
32.5°	11892.3	12052.9	12046.9	11654.5	11137.2	10940.9	11363.1	12796.1	14163.8	13705.9
35°	13248.1	13414.5	13283.7	12707.0	12100.4	11708.0	11945.8	13414.5	15204.3	14847.6
37.5°	14978.4	15370.8	15091.4	14027.0	13170.8	12742.6	12754.5	14086.5	16268.7	15977.3
40°	16173.6	16702.8	16316.3	15317.3	14407.6	14003.2	13842.7	14883.3	17541.2	17232.0
42.5°	17654.2	18094.2	17892.0	16904.9	15840.6	15495.7	15174.6	16215.2	19485.6	19342.9
45°	19271.5	19479.6	19414.2	18789.9	17606.6	17487.7	16780.1	17969.3	21774.9	21834.3
47.5°	20775.9	20888.9	21013.7	20561.8	19824.5	19925.6	18629.3	19848.3	23998.7	24391.2
50°	21162.4	21548.9	21840.3	22143.5	22304.1	22987.9	20668.9	22155.4	26555.6	27316.7
52.5°	20770.0	20740.2	21626.2	22577.6	24183.1	25616.1	23445.7	25021.5	28815.1	30319.5
55°	18986.1	18926.6	20353.7	21614.3	24747.9	27078.8	27411.8	28838.9	31544.4	33500.7
57.5°	15864.4	15495.7	17053.6	19122.9	23523.0	27239.4	31395.8	34505.6	35742.4	37972.2
60°	10661.5	10506.9	11999.4	14467.0	19099.1	24962.0	33780.2	41599.4	41658.8	44168.1
62.5°	6564.6	6594.3	7551.6	9400.9	13372.9	19788.8	32751.5	47266.1	47278.0	49793.2
65°	4293.1	4311.0	5084.0	6106.7	8354.4	13420.5	27084.8	47712.0	51184.6	53521.4
66°	3823.4	3829.3	4495.3	5327.8	6921.3	10982.6	23921.4	46552.5	52064.6	54015.0
67.5°	3222.8	3300.1	3835.3	4477.5	5399.1	7890.6	18980.2	43198.9	51612.7	53325.2
70°	2521.2	2562.8	2985.0	3639.1	4049.3	4566.7	11279.9	35213.2	47242.3	50019.1
72.5°	2021.7	2057.4	2378.5	2955.2	3288.2	3008.8	6142.4	25550.7	37318.1	40279.3
75°	1706.5	1712.5	1867.1	2325.0	2705.5	2259.5	3270.4	16399.5	23945.2	25324.7
77.5°	1379.5	1403.3	1510.3	1772.0	2176.3	1777.9	1950.3	9186.8	12023.1	12124.2
80°	1123.8	1135.7	1201.1	1290.3	1659.0	1314.1	1320.0	4483.4	5155.3	5036.4
82.5°	886.0	897.9	975.2	957.3	1219.0	939.5	820.6	2158.5	2372.5	2325.0
85°	499.5	499.5	767.1	767.1	773.0	594.6	499.5	1016.8	1254.6	1171.4
87.5°	160.5	166.5	231.9	243.8	386.5	267.6	243.8	380.6	594.6	523.3
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°
6826.2	0°	6826.2	6826.2	6826.2	6826.2	6826.2	6826.2	6826.2	6826.2	6826.2	6826.2
6992.7	2.5°	6968.9	6873.8	6832.1	6695.4	6659.7	6570.5	6528.9	6475.4	6457.5	6380.2
7117.6	5°	7022.4	6992.7	6826.2	6653.8	6522.9	6463.5	6374.3	6255.4	6243.5	6136.4
7403.0	7.5°	7248.4	7147.3	6855.9	6671.6	6410.0	6261.3	6065.1	6005.6	5928.3	5892.6
7753.8	10°	7599.2	7343.5	6909.4	6445.6	6124.6	5946.2	5803.5	5761.8	5767.8	5744.0
8104.6	12.5°	7848.9	7605.1	6820.3	6255.4	5839.1	5666.7	5654.8	5696.4	5761.8	5732.1
8514.9	15°	8205.7	7747.9	6754.8	5940.2	5607.2	5559.7	5553.7	5678.6	5672.6	5672.6
9067.9	17.5°	8538.7	7890.6	6517.0	5666.7	5363.4	5399.1	5440.7	5434.8	5494.3	5518.0
9525.8	20°	8960.9	8057.1	6184.0	5393.2	5179.1	5167.2	5161.3	5167.2	5226.7	5262.4
10043.1	22.5°	9329.5	8092.7	5904.5	5131.5	4959.1	4911.5	4834.2	4911.5	4881.8	4893.7
10744.7	25°	9650.6	8098.7	5506.1	4935.3	4739.1	4632.1	4572.6	4566.7	4513.1	4507.2
11143.1	27.5°	9918.2	7896.5	5155.3	4661.8	4477.5	4376.4	4370.4	4305.0	4168.3	4079.1
11612.9	30°	10126.3	7741.9	4911.5	4423.9	4245.6	4227.7	4174.2	4025.6	3847.2	3734.2
12481.0	32.5°	10495.0	7432.7	4578.5	4180.2	4091.0	4067.2	3942.3	3811.5	3645.0	3538.0
13218.3	35°	10768.5	7147.3	4358.5	3972.0	3930.4	3882.8	3775.8	3633.1	3585.5	3561.8
14009.2	37.5°	11077.7	6826.2	4091.0	3793.7	3835.3	3746.1	3621.2	3555.8	3722.3	3680.7
15246.0	40°	11571.2	6600.2	3829.3	3686.6	3728.2	3627.2	3466.6	3442.8	3650.9	3502.3
16833.6	42.5°	12475.1	6594.3	3668.8	3526.1	3555.8	3478.5	3335.8	3323.9	3407.2	3228.8
18819.6	45°	13598.9	6802.4	3549.9	3407.2	3383.4	3371.5	3323.9	3270.4	3199.0	2967.1
21031.6	47.5°	14942.7	7141.3	3526.1	3228.8	3258.5	3359.6	3300.1	3163.4	2979.0	2830.4
23493.3	50°	16572.0	7843.0	3466.6	3098.0	3151.5	3312.0	3264.4	3074.2	2907.7	2812.5
25746.9	52.5°	18373.7	8729.0	3389.3	2895.8	3014.7	3270.4	3294.2	3115.8	2872.0	2788.8
28797.3	55°	20496.4	10037.1	3300.1	2675.8	2854.2	3228.8	3294.2	2996.9	2824.4	2824.4
33453.1	57.5°	24688.5	12391.8	3115.8	2473.6	2711.5	3151.5	3199.0	3002.8	2830.4	2830.4
40677.7	60°	30836.8	16066.5	2765.0	2319.0	2574.7	3044.4	3127.7	2913.6	2765.0	2800.6
46623.9	62.5°	35647.3	17184.4	2467.7	2170.4	2437.9	2848.2	3032.5	2818.5	2687.7	2818.5
49347.2	65°	36675.9	16054.6	2164.4	2009.8	2247.7	2657.9	2895.8	2681.7	2574.7	2830.4
49311.5	66°	36307.3	15174.6	2057.4	1962.2	2164.4	2562.8	2812.5	2634.2	2515.2	2818.5
48193.7	67.5°	34666.1	13854.6	1938.4	1861.1	2051.4	2426.0	2717.4	2568.7	2420.1	2782.8
44126.5	70°	31098.4	11749.6	1736.3	1682.8	1890.9	2200.1	2497.4	2402.3	2271.4	2562.8
34707.8	72.5°	23951.2	9389.0	1522.2	1528.2	1706.5	1968.2	2277.4	2212.0	2099.0	2247.7
21263.5	75°	14585.9	5999.7	1326.0	1337.9	1486.5	1748.2	2069.3	2021.7	1884.9	1968.2
9829.0	77.5°	6463.5	2973.1	1117.9	1141.7	1260.6	1540.1	1801.7	1724.4	1581.7	1599.5
3995.8	80°	2509.3	1409.2	909.8	939.5	1016.8	1230.9	1492.5	1421.1	1296.3	1272.5
1837.4	82.5°	1207.1	784.9	701.6	713.5	743.3	981.1	1284.4	1195.2	1028.7	921.7
862.2	85°	606.5	487.6	493.5	451.9	493.5	666.0	868.1	725.4	600.6	535.2
309.2	87.5°	243.8	243.8	243.8	208.1	220.0	315.1	404.3	273.5	249.7	148.7
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>
6826.2
6451.6
6124.6
5969.9
5708.3
5773.7
5666.7
5559.7
5232.6
4929.4
4507.2
4091.0
3734.2
3520.1
3579.6
3698.5
3466.6
3175.3
2907.7
2800.6
2794.7
2776.9
2812.5
2806.6
2794.7
2830.4
2842.3
2824.4
2729.3
2467.7
2188.2
1938.4
1587.6
1260.6
921.7
547.0
148.7
0.0

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