

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: P574786

Luminaire Tested: **EPH-VN-08-750-U-T4FT**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P574786
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-08-750-U-T4FT
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (128) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

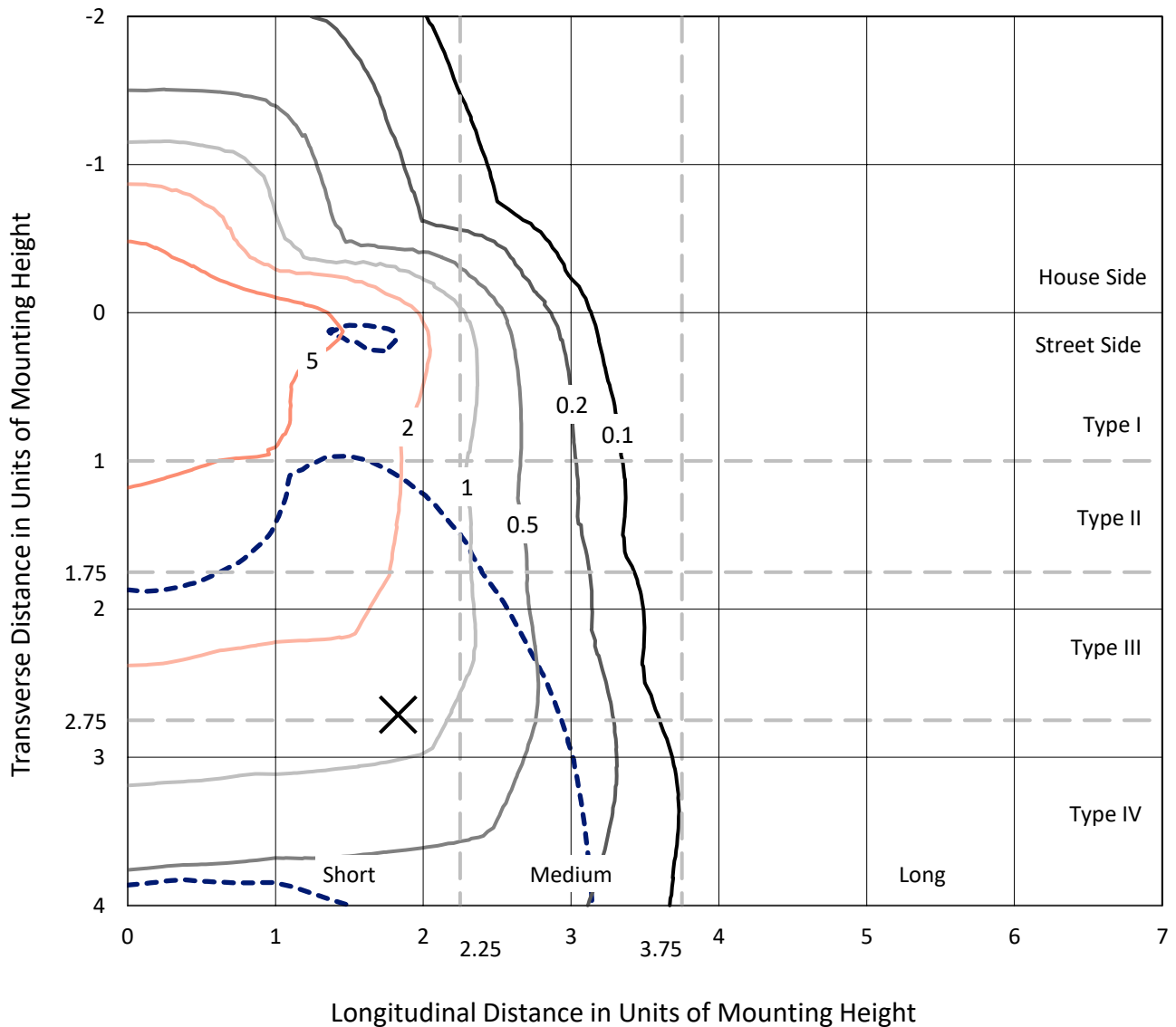
Lumens per Lamp: N/A
Luminaire Lumens: 58420.9 lumens
Efficiency: N/A
Efficacy: 119.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 488.3
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

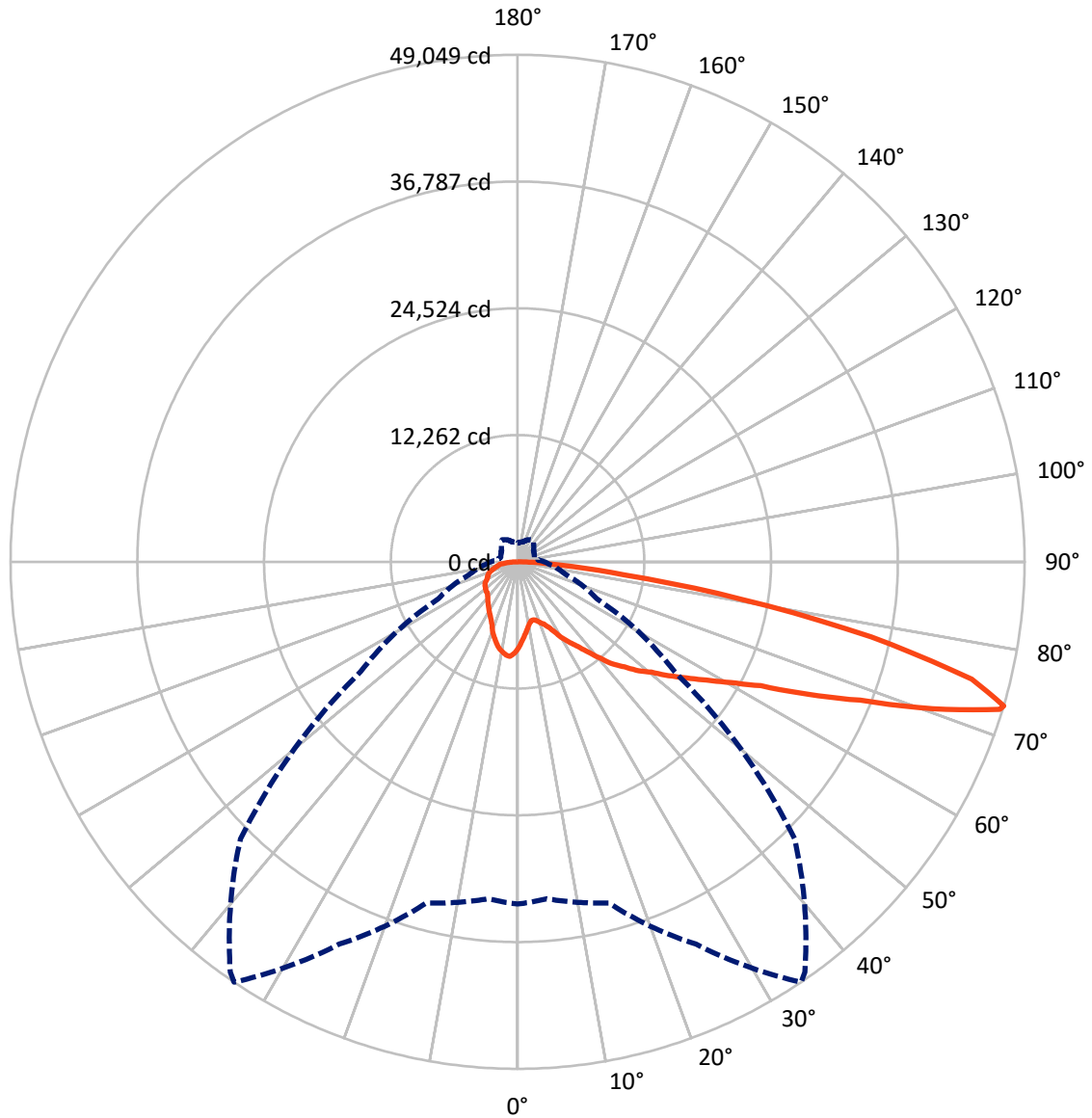
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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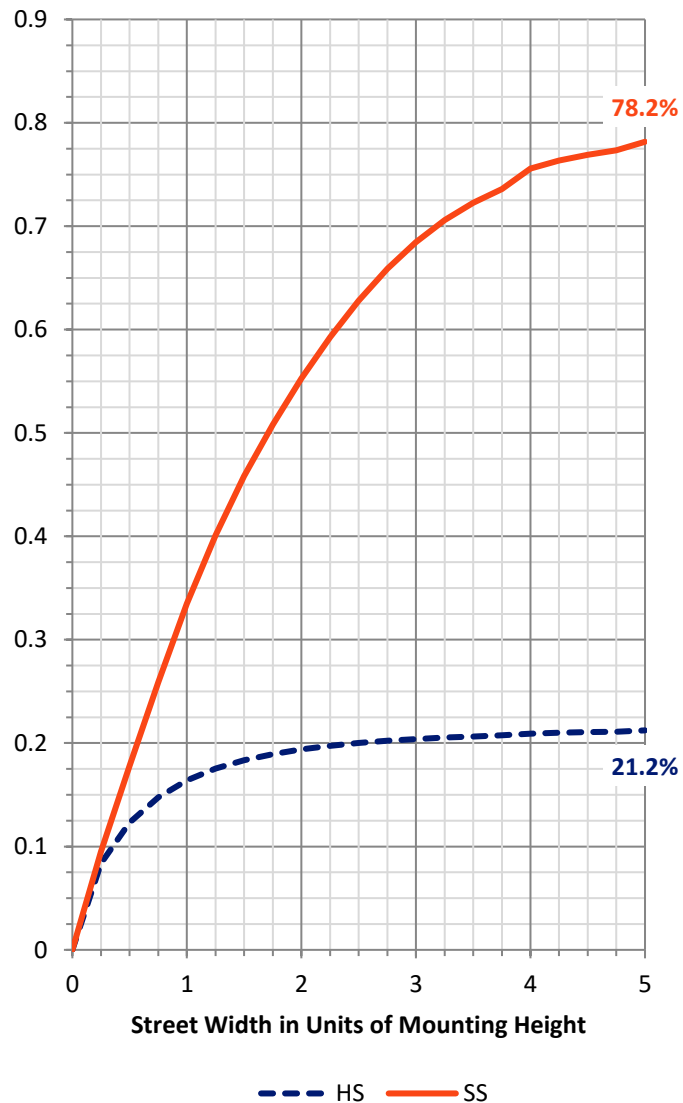
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12619.6	0.0	12619.6
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	45801.2	0.0	45801.2
	% Fixture	78.4	0.0	78.4
Total	Lumens	58420.9	0.0	58420.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	773.0	1.3
10°-20°	2163.4	3.7
20°-30°	3560.6	6.1
30°-40°	5324.8	9.1
40°-50°	7893.8	13.5
50°-60°	11375.8	19.5
60°-70°	14517.1	24.8
70°-80°	11296.7	19.3
80°-90°	1515.5	2.6
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°	58420.9	100.0
0°-180°	58420.9	100.0

Coefficient of Utilization

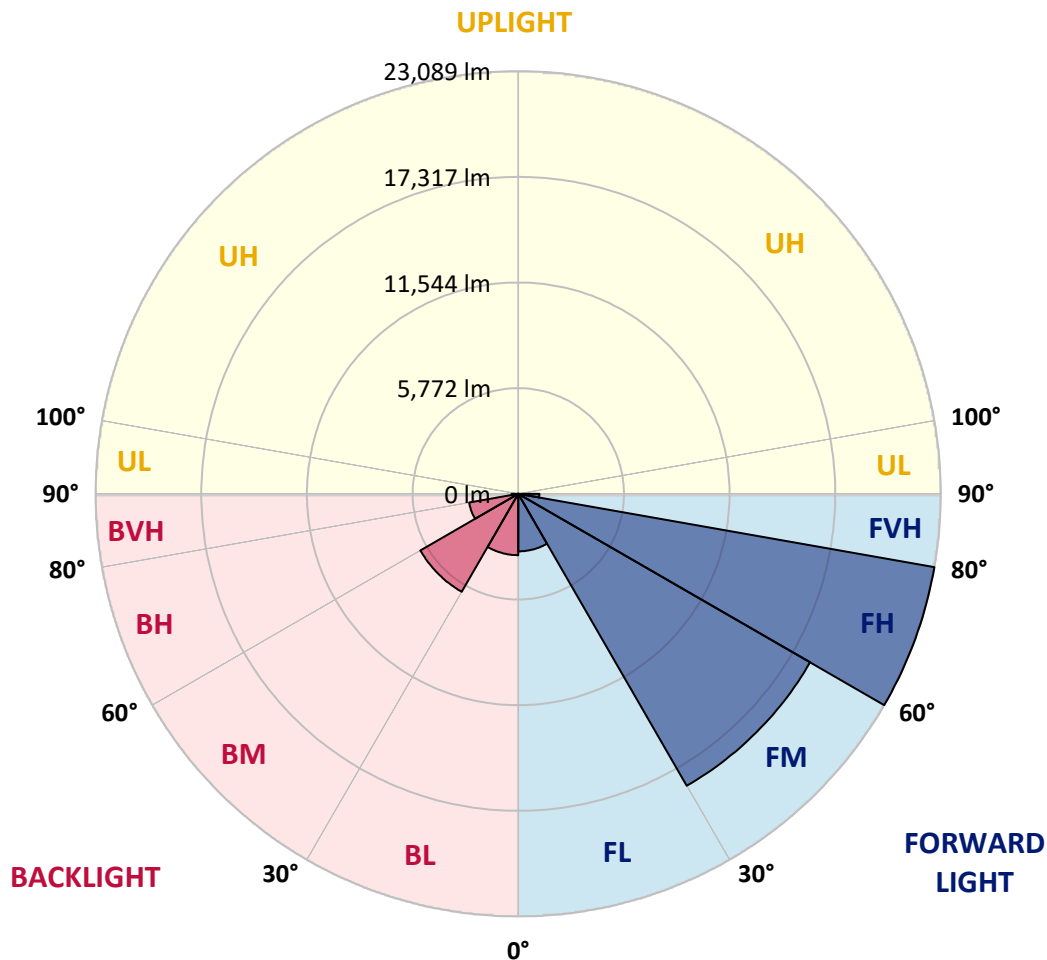


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3144.0	5.4			
FM (30°-60°)	18414.6	31.5			
FH (60°-80°)	23089.0	39.5			G5
FVH (80°-90°)	1153.6	2.0			G5
BL (0°-30°)	3353.0	5.7	B4/5000		
BM (30°-60°)	6179.9	10.6	B4/8500		
BH (60°-80°)	2724.9	4.7	B4/5000		G4/5000
BVH (80°-90°)	361.9	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	8375.5	8375.5	8375.5	8375.5	8375.5	8375.5	8375.5	8375.5	8375.5	8375.5
2.5°	7504.6	7529.3	7609.6	7628.2	7714.6	7665.2	7770.2	7955.5	8060.5	8215.0
5°	6911.7	6806.7	6856.1	7047.6	7146.4	7171.1	7282.3	7597.3	7794.9	8023.5
7.5°	6213.7	6195.2	6294.0	6417.5	6615.2	6633.7	6880.8	7158.7	7566.4	8072.9
10°	5738.1	5818.4	5874.0	6003.7	6139.6	6139.6	6454.6	6936.4	7399.6	7887.6
12.5°	5713.4	5664.0	5676.3	5744.3	5843.1	5966.7	6263.1	6695.5	7282.3	7850.5
15°	5793.7	5812.2	5701.1	5787.5	5824.6	5867.8	6195.2	6683.1	7208.2	7980.2
17.5°	6219.9	6114.9	5941.9	5861.6	5991.4	5991.4	6213.7	6596.7	7220.5	8048.2
20°	6553.4	6553.4	6269.3	6182.8	6275.5	6257.0	6411.4	6695.5	7282.3	8184.1
22.5°	7115.5	7195.8	6726.4	6547.3	6541.1	6590.5	6726.4	6967.3	7455.2	8375.5
25°	7924.7	7943.2	7399.6	7214.3	7016.7	7097.0	7121.7	7362.6	7609.6	8597.9
27.5°	8826.4	8814.1	8313.8	7850.5	7720.8	7739.4	7603.5	7764.1	7838.2	8665.9
30°	9827.1	9715.9	9339.1	8684.4	8579.4	8462.0	8165.5	8159.4	8313.8	9048.8
32.5°	10481.8	10339.7	10080.3	9610.9	9320.6	9332.9	8863.5	8857.3	8721.4	9468.8
35°	11124.2	10908.0	10840.0	10358.3	10068.0	10098.8	9722.1	9672.6	9425.6	10105.0
37.5°	11896.2	11704.8	11809.8	11445.3	11087.1	10938.9	10765.9	10704.2	10383.0	11000.6
40°	12748.6	12686.9	12618.9	12439.8	12223.6	12236.0	12050.7	11988.9	11513.3	12081.5
42.5°	13897.5	13662.8	13310.7	13428.1	13539.2	13656.6	13594.8	13434.2	12940.1	13181.0
45°	14966.0	14657.2	14008.7	14045.7	14502.8	14595.4	15342.8	15324.3	14329.8	14576.9
47.5°	15688.7	15546.7	15157.5	15114.3	15769.0	15762.8	17109.3	17109.3	15793.7	15966.7
50°	16763.5	16392.9	16226.1	16442.3	16775.8	17004.3	18912.9	19030.3	17232.9	17418.2
52.5°	18023.5	17560.2	17140.2	17696.1	18289.1	18437.3	20698.0	20648.6	18338.5	19104.4
55°	19067.3	18832.6	18542.3	18863.5	19833.3	20018.6	22489.2	22032.1	19444.1	20500.3
57.5°	20284.1	20426.2	20488.0	20407.7	21562.7	21853.0	24533.7	23224.2	20395.3	21439.2
60°	22118.6	22205.1	22285.4	22476.9	23699.8	24107.5	26152.0	24719.0	20994.5	21982.7
62.5°	24910.5	24576.9	24756.0	25417.0	26399.0	26862.3	28536.2	25769.0	21451.5	22310.1
65°	28103.8	27652.9	27467.6	28320.0	30864.8	30494.2	31513.3	26553.5	20790.6	21087.1
67.5°	31340.4	31389.8	30914.2	32625.1	35744.3	35744.3	34280.5	26930.2	18999.4	17090.8
70°	33909.9	34064.3	34323.7	37640.6	42581.9	43329.3	37708.5	25386.1	15349.0	11377.4
72.5°	33872.8	33409.5	34737.5	40846.2	48795.6	48171.8	38425.0	20074.1	9580.0	5571.3
73°	33113.1	32723.9	34175.5	40815.4	49048.9	48462.1	37900.0	18505.3	8449.7	4830.1
75°	27041.4	26337.3	28807.9	36967.3	45379.9	45830.8	32198.9	12069.2	4632.5	2977.1
77.5°	12328.6	12637.4	15855.5	24799.3	34972.2	35503.4	21167.4	5219.3	2538.6	2087.7
80°	3959.2	4156.9	6170.5	12328.6	21921.0	22878.3	9783.8	2371.8	1809.8	1599.8
82.5°	1513.3	1507.1	2588.0	5126.6	10389.1	11000.6	3576.3	1445.3	1346.5	1179.7
85°	531.2	555.9	975.9	2025.9	4088.9	4280.4	1241.5	803.0	932.7	790.6
87.5°	185.3	191.5	345.9	735.0	1408.3	1488.6	345.9	321.2	463.2	457.1
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°
8375.5	0°	8375.5	8375.5	8375.5	8375.5	8375.5	8375.5	8375.5	8375.5	8375.5	8375.5
8400.3	2.5°	8462.0	8517.6	8536.1	8758.5	8758.5	8758.5	8845.0	8845.0	8820.3	8758.5
8369.4	5°	8499.1	8597.9	8789.4	8980.9	9030.3	9073.5	9190.9	9092.0	9129.1	9067.3
8480.6	7.5°	8604.1	8740.0	9098.2	9215.6	9135.3	9227.9	9104.4	9036.5	8968.5	8993.2
8505.3	10°	8783.2	8956.2	9122.9	9339.1	9184.7	9092.0	8838.8	8777.0	8560.8	8486.7
8610.3	12.5°	9005.6	9215.6	9499.7	9419.4	9122.9	8857.3	8585.6	8326.1	8196.4	8011.1
8789.4	15°	9227.9	9468.8	9512.1	9376.2	9005.6	8672.0	8177.9	7813.5	7683.8	7517.0
9048.8	17.5°	9468.8	9697.4	9623.2	9271.2	8770.9	8264.4	7702.3	7344.0	7072.3	6967.3
9339.1	20°	9827.1	9938.2	9820.9	9098.2	8486.7	7819.7	7276.1	6868.4	6596.7	6553.4
9617.1	22.5°	10105.0	10284.1	9759.1	8845.0	8072.9	7239.0	6615.2	6460.8	6380.5	6312.5
9932.1	25°	10463.3	10457.1	9647.9	8610.3	7362.6	6547.3	6170.5	6158.1	6121.1	6096.4
10383.0	27.5°	10803.0	10660.9	9518.2	8029.7	6627.6	6022.2	5818.4	5954.3	6009.9	5972.8
11006.8	30°	11340.3	11105.6	9332.9	7412.0	5979.0	5491.0	5528.1	5713.4	5806.1	5861.6
11550.4	32.5°	11908.6	11550.4	8950.0	6769.6	5404.6	5157.5	5244.0	5435.5	5546.6	5608.4
12446.0	35°	12730.1	11896.2	8560.8	5929.6	4990.7	4953.7	5003.1	5108.1	5268.7	5311.9
13668.9	37.5°	13743.1	12421.3	8035.8	5256.3	4669.6	4712.8	4762.2	4799.3	4805.4	4885.7
14842.5	40°	14756.0	12866.0	7269.9	4614.0	4336.0	4570.7	4546.0	4478.1	4422.5	4348.4
16152.0	42.5°	15645.5	13255.1	6417.5	4070.4	4039.5	4422.5	4342.2	4169.2	4039.5	3983.9
17640.5	45°	16646.1	13804.8	5559.0	3730.7	3811.0	4243.4	4218.7	3953.1	3786.3	3588.6
19240.3	47.5°	17943.2	14379.3	4737.5	3378.6	3594.8	4175.4	4187.8	3848.1	3607.2	3341.6
21334.2	50°	19604.7	15206.9	4113.7	3230.4	3465.1	4076.6	4095.1	3706.0	3391.0	3119.2
23786.3	52.5°	21198.3	16053.1	3594.8	3001.9	3378.6	3959.2	4002.5	3576.3	3211.9	2872.1
24966.1	55°	22001.3	15744.3	3150.1	2835.1	3181.0	3767.8	3928.4	3483.6	2940.1	2705.4
25657.8	57.5°	22180.4	14984.6	2798.0	2662.1	3014.2	3563.9	3804.8	3205.7	2816.6	2618.9
25713.4	60°	21593.6	13656.6	2520.1	2476.8	2804.2	3353.9	3520.7	3057.4	2693.0	2532.4
23897.5	62.5°	20148.3	12279.2	2328.6	2390.4	2625.1	3125.4	3341.6	2952.4	2575.7	2464.5
20265.6	65°	16522.6	10098.8	2174.2	2223.6	2439.8	2903.0	3230.4	2835.1	2470.7	2365.7
14212.5	67.5°	11445.3	6961.1	2050.7	2143.3	2291.5	2742.4	3119.2	2705.4	2334.8	2297.7
7770.2	70°	5861.6	3712.2	1890.1	1964.2	2130.9	2538.6	2921.6	2569.5	2192.7	2186.5
3563.9	72.5°	2971.0	2174.2	1704.8	1815.9	1933.3	2273.0	2674.5	2390.4	2013.6	1945.6
3168.6	73°	2569.5	2013.6	1673.9	1772.7	1883.9	2198.9	2600.4	2347.1	1988.9	1890.1
2229.8	75°	1871.5	1587.4	1500.9	1599.8	1686.2	1982.7	2353.3	2149.5	1828.3	1723.3
1643.0	77.5°	1402.1	1223.0	1247.7	1358.9	1433.0	1710.9	2093.9	1945.6	1655.3	1513.3
1229.2	80°	1031.5	932.7	1031.5	1136.5	1192.1	1507.1	1908.6	1686.2	1395.9	1235.3
870.9	82.5°	735.0	679.4	796.8	864.7	889.4	1247.7	1717.1	1346.5	1056.2	846.2
500.3	85°	420.0	413.8	537.4	531.2	549.7	728.8	1130.3	895.6	679.4	518.8
253.2	87.5°	185.3	203.8	271.8	216.2	228.5	345.9	481.8	333.5	277.9	154.4
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>
8375.5
8906.7
9122.9
8906.7
8554.7
8060.5
7603.5
6967.3
6485.5
6226.1
6213.7
6022.2
5787.5
5676.3
5330.5
4854.9
4329.8
3891.3
3563.9
3304.5
3094.5
2890.7
2699.2
2594.2
2495.4
2384.2
2359.5
2248.3
2124.8
1846.8
1797.4
1636.8
1476.2
1204.4
778.3
506.5
117.4
0.0

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