

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: P574704

Luminaire Tested: **EPH-VN-06-750-U-T3**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P574704
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-06-750-U-T3
Description: EPHESUS LUMAVISION – Middle Tier Light Square Luminaire w/ T3 distribution lens
Light Source: (96) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

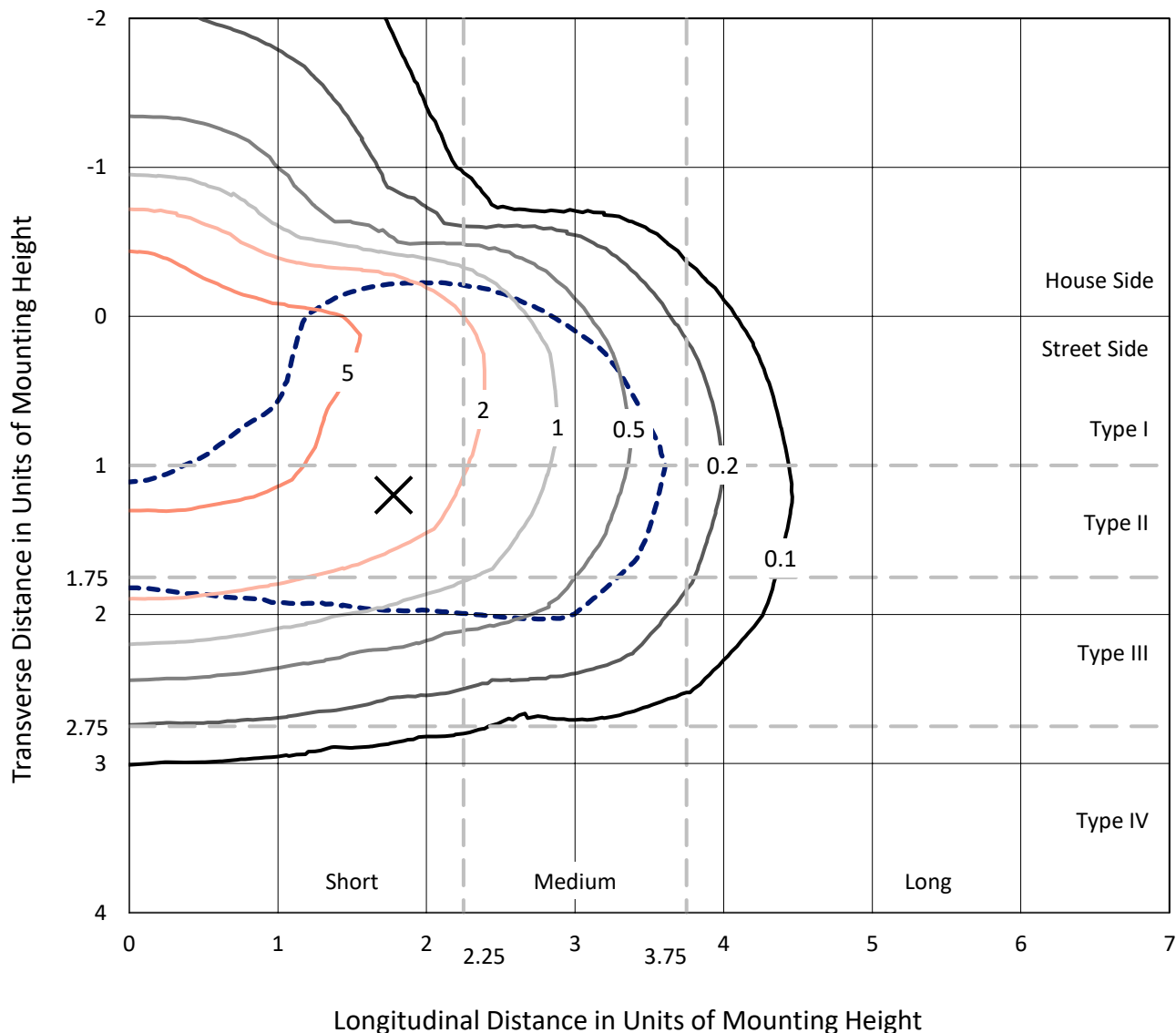
Lumens per Lamp: N/A
Luminaire Lumens: 55127.1 lumens
Efficiency: N/A
Efficacy: 118.8 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

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

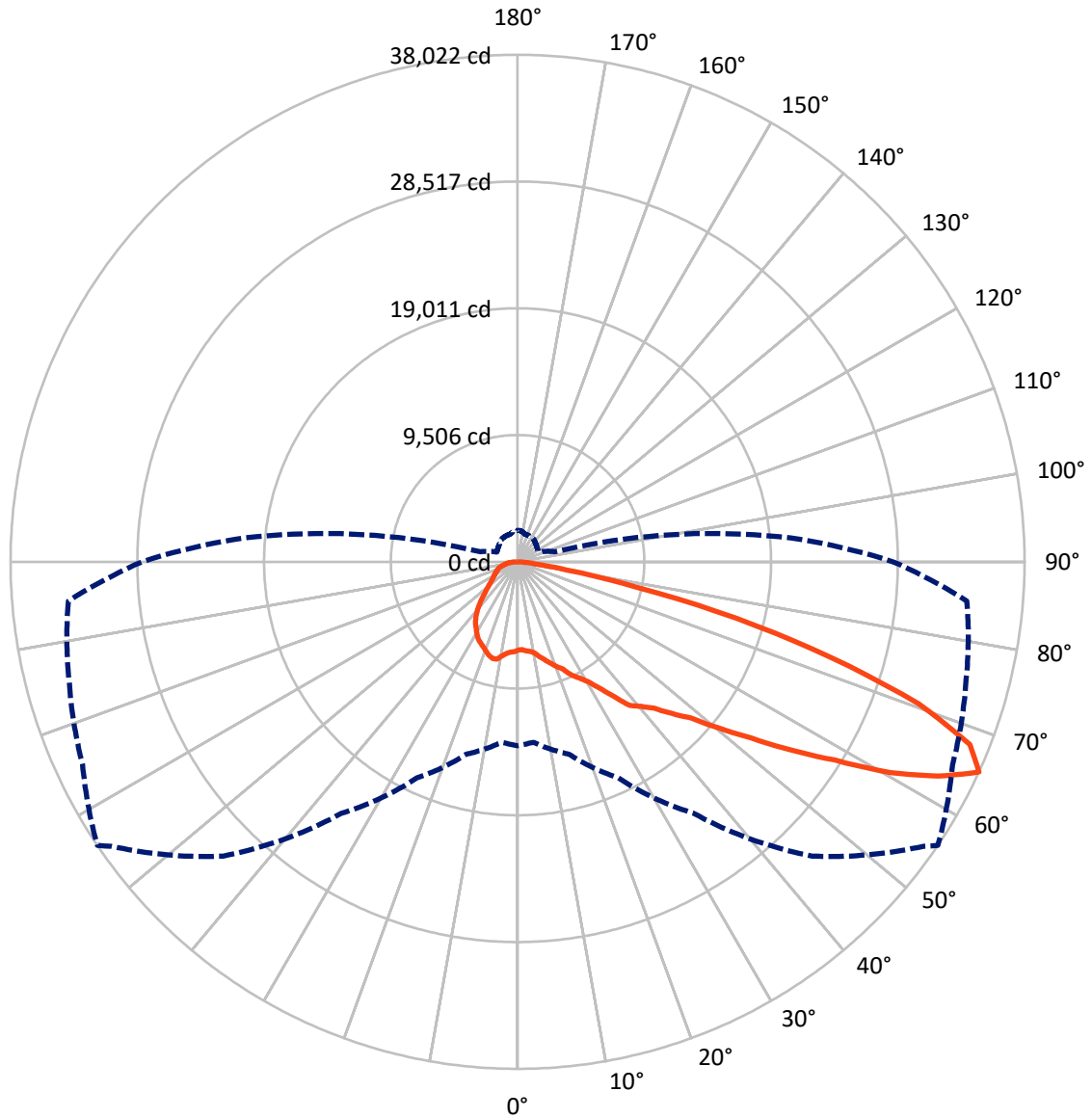
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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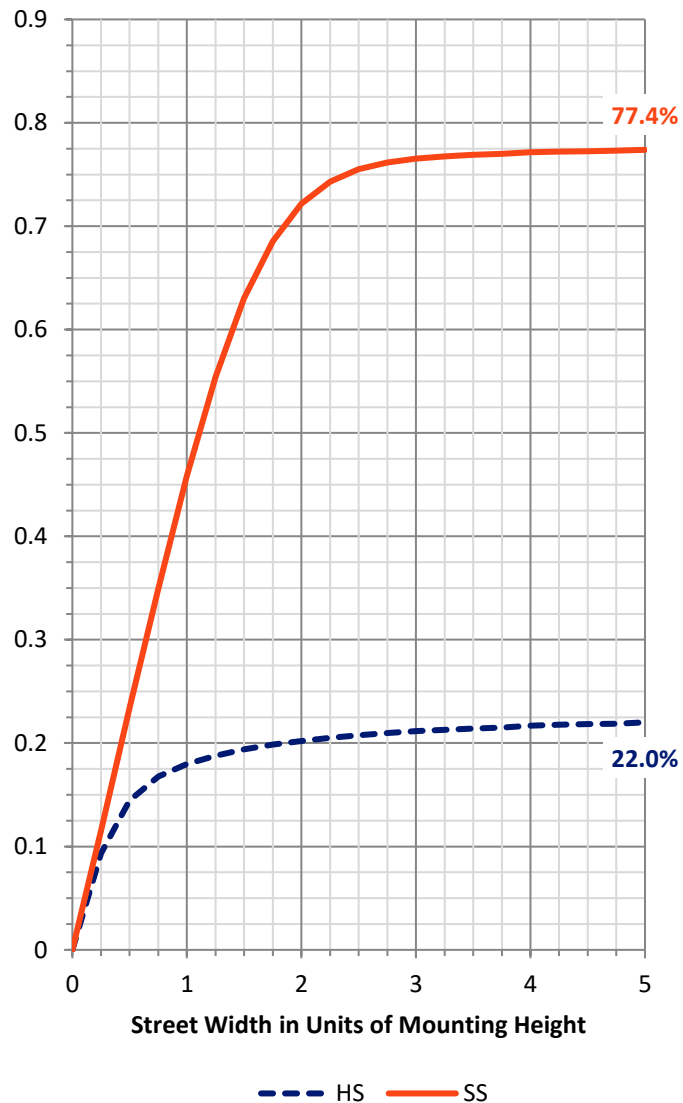
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12363.2	0.0	12363.2
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	42763.9	0.0	42763.9
	% Fixture	77.6	0.0	77.6
Total	Lumens	55127.1	0.0	55127.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	655.7	1.2
10°-20°	2129.2	3.9
20°-30°	3791.1	6.9
30°-40°	5677.1	10.3
40°-50°	8411.3	15.3
50°-60°	12960.6	23.5
60°-70°	14673.0	26.6
70°-80°	6089.4	11.0
80°-90°	739.8	1.3
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°	55127.1	100.0
0°-180°	55127.1	100.0

Coefficient of Utilization



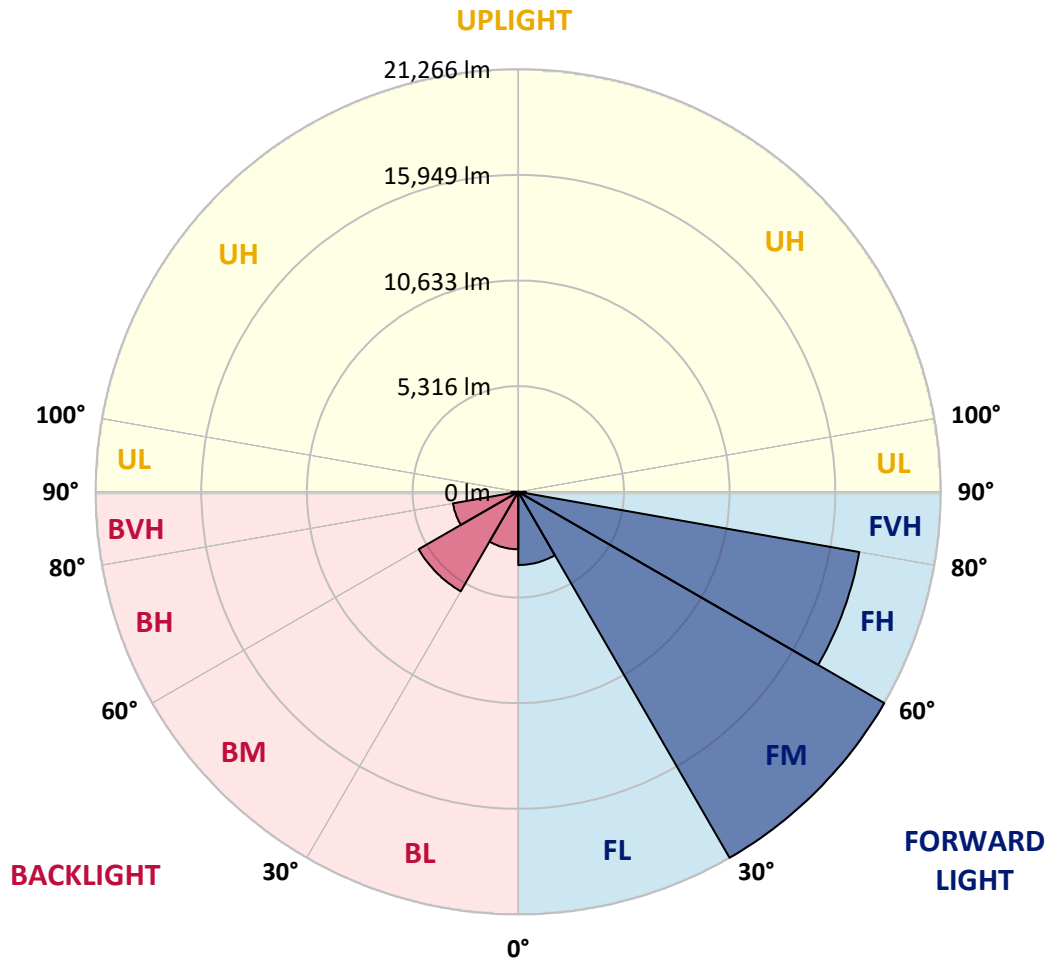
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3684.1	6.7			
FM (30°-60°)	21265.6	38.6			
FH (60°-80°)	17423.9	31.6			G5
FVH (80°-90°)	390.2	0.7			G3/500
BL (0°-30°)	2891.9	5.2	B4/5000		
BM (30°-60°)	5783.3	10.5	B4/8500		
BH (60°-80°)	3338.5	6.1	B4/5000		G4/5000
BVH (80°-90°)	349.6	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	6616.8	6616.8	6616.8	6616.8	6616.8	6616.8	6616.8	6616.8	6616.8	6616.8
2.5°	6443.8	6478.4	6455.3	6524.5	6582.2	6582.2	6628.4	6593.7	6639.9	6703.4
5°	6657.2	6518.8	6593.7	6628.4	6611.1	6639.9	6593.7	6709.1	6634.1	6755.3
7.5°	6709.1	6761.0	6824.5	6766.8	6818.7	6789.9	6795.7	6778.4	6738.0	6836.0
10°	7089.9	7014.9	7159.1	7072.6	7061.0	7049.5	7026.4	6939.9	7037.9	7043.7
12.5°	7528.3	7459.1	7453.3	7384.1	7476.4	7309.1	7343.7	7297.5	7314.8	7337.9
15°	7845.6	7816.7	7949.4	7868.7	7747.5	7672.5	7753.3	7626.4	7689.8	7678.3
17.5°	8474.4	8468.6	8370.5	8237.9	8168.6	8059.0	8041.7	7989.8	8036.0	8012.9
20°	8912.8	8976.3	8993.6	8837.8	8572.5	8451.3	8422.5	8382.1	8434.0	8416.7
22.5°	9582.0	9483.9	9558.9	9287.8	9189.7	8901.3	8797.4	8739.7	8987.8	8924.3
25°	10008.9	10112.7	10037.7	9945.4	9726.2	9368.5	9293.6	9420.5	9518.5	9449.3
27.5°	10972.3	10868.4	10799.2	10522.3	10378.1	10003.1	9916.6	9870.4	9893.5	9933.9
30°	11704.9	11762.6	11606.8	11410.7	11047.3	10666.5	10464.6	10424.2	10343.5	10274.2
32.5°	12749.1	12662.5	12570.2	12443.3	12131.8	11629.9	11433.8	11283.8	11041.5	10718.4
35°	13251.0	13499.0	13429.8	13089.4	12852.9	12662.5	12604.8	12374.1	12172.2	11664.5
37.5°	14087.4	14191.3	14093.2	13983.6	13874.0	13672.1	13602.9	13666.3	13268.3	12431.8
40°	14629.7	14848.9	15050.8	14745.1	14722.0	14762.4	14335.5	14260.5	13441.3	13002.9
42.5°	15737.3	15829.6	15870.0	15858.5	15991.1	15991.1	15177.7	15016.2	14433.6	14075.9
45°	17202.6	17277.6	17421.8	17525.6	17375.7	17450.6	16291.1	16227.7	15708.5	15639.2
47.5°	18471.7	18650.6	18973.6	19279.4	19475.5	19221.7	17952.5	17502.6	17369.9	17785.2
50°	19579.3	19365.9	20121.6	20433.1	21292.7	21713.8	19787.0	19608.2	19394.7	20190.8
52.5°	19688.9	19977.4	21044.6	21667.6	23438.7	24217.5	22036.9	21961.9	21702.3	22619.5
55°	20473.5	20438.9	21511.9	22861.8	24967.4	26276.9	24967.4	24921.3	24355.9	25227.0
57.5°	20340.8	20692.7	21540.7	23427.1	26346.2	28486.4	28365.2	28047.9	27257.6	27967.2
60°	19890.9	19983.2	21015.8	23409.8	27148.0	30753.5	32034.2	32097.7	30482.4	31047.7
62.5°	17341.0	17554.5	18864.0	21569.6	26576.9	32316.9	35616.6	35391.6	34099.4	33453.3
65°	13793.2	13579.8	14941.2	17866.0	23023.3	31209.3	37185.7	38022.2	35991.6	34809.0
67.5°	8457.1	8405.2	9714.7	12293.3	17225.7	26559.6	35933.9	36585.8	35466.6	34520.6
70°	4355.5	4222.8	5041.9	6859.1	10828.1	19487.0	31272.7	31913.1	32980.3	30961.2
72.5°	2030.6	2001.8	2440.2	3374.8	5515.0	11456.9	24217.5	24679.0	26928.8	26103.9
75°	1194.1	1211.4	1459.5	1765.3	2688.3	5399.6	16071.9	16966.1	19406.3	18812.1
77.5°	894.2	894.2	1038.4	1228.8	1569.1	2088.3	7932.1	9114.7	11347.2	10205.0
80°	657.6	669.2	796.1	923.0	1090.3	1078.8	3149.8	3692.0	5203.5	4447.8
82.5°	513.4	530.7	617.3	686.5	767.3	651.9	1292.2	1390.3	2140.2	1701.8
85°	357.7	369.2	484.6	467.3	467.3	363.4	536.5	565.3	848.0	807.6
87.5°	86.5	98.1	236.5	259.6	196.1	109.6	167.3	190.4	305.7	351.9
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°
6616.8	0°	6616.8	6616.8	6616.8	6616.8	6616.8	6616.8	6616.8	6616.8	6616.8	6616.8
6732.2	2.5°	6645.7	6668.7	6766.8	6714.9	6743.7	6622.6	6720.7	6639.9	6709.1	6674.5
6784.1	5°	6830.3	6778.4	6836.0	6795.7	6795.7	6841.8	6911.0	6859.1	6963.0	6916.8
6824.5	7.5°	6905.3	6911.0	6945.6	6951.4	6922.6	7066.8	7072.6	7055.3	7153.3	7130.2
7101.4	10°	7089.9	7095.6	7159.1	7193.7	7164.9	7216.8	7159.1	7112.9	7107.2	7084.1
7320.6	12.5°	7384.1	7441.8	7430.2	7459.1	7464.8	7245.6	7112.9	6888.0	6859.1	6888.0
7643.7	15°	7655.2	7632.1	7643.7	7701.4	7459.1	7107.2	6870.7	6680.3	6691.8	6697.6
8064.8	17.5°	7978.3	7995.6	8012.9	7747.5	7303.3	6888.0	6680.3	6680.3	6622.6	6645.7
8359.0	20°	8347.5	8278.2	8128.3	7753.3	7032.2	6634.1	6570.7	6570.7	6501.4	6455.3
8676.3	22.5°	8635.9	8497.5	8272.5	7574.4	6789.9	6536.1	6380.3	6270.7	6189.9	6097.6
9028.2	25°	8820.5	8745.5	8307.1	7389.8	6611.1	6276.5	6045.7	5878.4	5774.6	5653.4
9305.1	27.5°	9103.2	8959.0	8405.2	7176.4	6414.9	6016.9	5659.2	5399.6	5203.5	5076.6
9726.2	30°	9483.9	9276.2	8335.9	6870.7	6114.9	5566.9	5145.8	4811.2	4586.2	4482.4
10124.3	32.5°	9795.4	9524.3	8278.2	6593.7	5780.3	5111.2	4551.6	4211.2	4084.3	3951.6
10793.4	35°	10389.6	9853.1	8237.9	6438.0	5480.4	4655.4	4067.0	3772.8	3611.3	3415.1
11191.5	37.5°	10845.4	10424.2	8139.8	6114.9	5093.9	4211.2	3697.8	3432.4	3190.2	2982.5
12114.5	40°	11560.7	11220.3	8145.6	5659.2	4638.1	3830.5	3409.4	3132.5	2826.7	2647.9
13481.7	42.5°	12904.8	12004.9	8180.2	5295.8	4124.7	3519.0	3149.8	2820.9	2515.2	2365.2
15039.3	45°	14554.7	13083.7	7966.7	4966.9	3599.7	3224.8	2838.3	2509.4	2313.3	2203.7
17156.4	47.5°	16452.6	14139.4	7678.3	4349.7	3161.3	2913.2	2549.8	2359.4	2215.2	2151.8
19885.1	50°	18575.6	15650.8	7597.5	3784.3	2820.9	2647.9	2411.4	2267.1	2169.1	2094.1
22959.9	52.5°	21310.0	17410.3	7436.0	3201.7	2526.7	2434.4	2359.4	2261.4	2174.8	2111.4
25827.0	55°	23923.3	19360.1	7262.9	2722.9	2319.1	2330.6	2371.0	2284.4	2209.5	2111.4
29040.2	57.5°	26865.3	21350.4	6622.6	2371.0	2163.3	2278.7	2359.4	2261.4	2186.4	2111.4
32328.4	60°	28682.5	22469.5	5370.8	2065.2	2024.9	2180.6	2290.2	2186.4	2105.6	2134.5
33839.8	62.5°	29420.9	21881.1	4049.7	1874.9	1926.8	2047.9	2180.6	2140.2	2082.5	2192.1
33822.5	65°	28163.3	20525.4	2895.9	1713.3	1794.1	1915.2	2082.5	2128.7	2146.0	2359.4
31065.0	67.5°	25059.7	17871.8	2128.7	1580.7	1655.6	1834.5	2151.8	2226.8	2215.2	2480.6
26069.2	70°	20052.4	13977.8	1661.4	1471.0	1603.7	1897.9	2249.8	2249.8	2169.1	2480.6
19885.1	72.5°	14589.3	9853.1	1430.7	1344.1	1471.0	1742.2	2238.3	2232.5	2128.7	2267.1
12662.5	75°	8832.0	5734.2	1263.4	1217.2	1263.4	1494.1	2140.2	2105.6	1961.4	1949.9
6091.9	77.5°	4401.6	2884.4	1032.6	1078.8	1101.8	1251.8	1880.6	1932.6	1736.4	1690.3
2405.6	80°	1857.6	1257.6	859.6	928.8	928.8	1055.7	1563.3	1598.0	1442.2	1355.7
951.9	82.5°	848.0	721.1	732.6	807.6	755.7	819.2	1240.3	1280.7	1171.1	1026.8
403.8	85°	357.7	409.6	559.6	634.6	559.6	530.7	853.8	899.9	761.5	634.6
173.1	87.5°	161.5	225.0	351.9	461.5	282.7	248.1	455.7	473.0	380.7	282.7
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>
6616.8
6611.1
6853.3
7095.6
7084.1
6899.5
6778.4
6651.4
6386.1
6045.7
5676.5
5134.2
4540.1
3945.9
3397.8
2988.2
2665.2
2376.7
2226.8
2140.2
2105.6
2105.6
2105.6
2105.6
2105.6
2111.4
2163.3
2359.4
2497.9
2428.7
2186.4
1926.8
1661.4
1326.8
1003.8
640.3
265.4
0.0

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